

**Genium INET**<sup>SM</sup>

**OMnet Message Reference**

ASX Futures

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# 1 Summary of Changes

Only changes affecting messages included in this message reference are listed.

Changes between (41494) and (48689) for SFE (a63/a80).

	Changed message	Changes	Comments
1	<a href="#">BD18</a>	Changes in struct <b>directed_delivery</b> : Changes in struct <b>cl_delivery_api</b> : Changes in type <b>class_no_i</b> : Changes in value set: Added value: 13 Added value: 11 Added value: 12 Added value: 21	
2	<a href="#">BU120</a>	Textual changes in message description: section: Usage and Conditions: example #2: titled-block #3: list #1: <a href="#">listitem #2: new</a> titled-block #4: list #1: <a href="#">listitem #2: new</a>	
3	<a href="#">CD31</a>	Textual changes in message description: <a href="#">section: Return Codes: new</a>	
4	<a href="#">CQ31</a>	Changes in answer <b>CA31</b> : Changes in struct <b>answer_delivery</b> : Changes in array <b>item</b> : Changes in type <b>class_no_i</b> : Changes in value set: Added value: 13 Added value: 11 Added value: 12 Added value: 21	
5	<a href="#">CQ52</a>	Changes in answer <b>CA52</b> : Changes in struct <b>answer_missing_delivery</b> : Changes in array <b>item</b> : Changes in struct <b>cl_delivery_api</b> : Changes in type <b>class_no_i</b> : Changes in value set: Added value: 13 Added value: 11	

	Changed message	Changes	Comments
		<p style="text-align: center;">Added value: 12 Added value: 21</p>	
6	<a href="#">CQ53</a>	<p>Changes in answer <b>CA53</b>:            Changes in struct <b>answer_api_delivery</b>:                Changes in array <b>item</b>:                    Changes in struct <b>cl_delivery_api</b>:                        Changes in type <b>class_no_i</b>:                            Changes in value set:                                Added value: 13                                Added value: 11                                Added value: 12                                Added value: 21</p>	
7	<a href="#">LQ3</a>	<p>Changes in answer <b>LA3</b>:            Changes in struct <b>answer_list_ver</b>:                Changes in type <b>text_buffer_s</b>:                    Changed description</p>	

## 2 Document Information

### 2.1 References

Here is a list of OMnet related documents:

- *OMnet Message Reference Manual, Introduction*
- *OMnet Message Reference Manual*
- *OMnet Application Programmer's Interface Manual*
- *System Error Messages Reference Manual*

### 2.2 Reader's Roadmap

This message reference contains the following chapters:

Chapter	Description
Summary of Changes	<p>The Summary of Changes table lists two kinds of changes:</p> <ul style="list-style-type: none"> <li>• Changes between two specific API builds.</li> <li>• Relevant changes made to the text in the manual describing the API.</li> </ul> <p>The Summary of Changes table does not list the following:</p> <ul style="list-style-type: none"> <li>• Changes in the internal order of fields within a structure.</li> <li>• The connection between an item that replaces another item. This means that if a message/struct/field/enumeration is replaced by another, the table will list the removed item as "Removed" and the added item as "Added."</li> </ul>
Messages	This chapter lists and describes all messages that are available in this configuration of the API. For more information, see the Messages Chapter below.
Common Structures	The most common structures are defined here.
Named Structures	Named structures are defined here.
Broadcast Overview	This chapter lists all broadcasts occurring in the manual. This is also where each broadcast's Information Type Value is provided.
Detailed Field Information	This chapter provides a general description of all fields used by the structures defined in this reference. Any message-specific information regarding a field is provided in each respective message chapter.

## 2.2.1 The OMnet Messages Chapter

The OMnet API defines the information that can be exchanged between the system and an external application. It consists of a configurable set of messages, all of which are of one of the following types:

Type	Description
Transaction	Input to the system, a request for action (an order, for example).
Query + Answer	A query/request to the system (give me all trades since market opening, for example) that will trigger an answer from the system.
Broadcast	Information created by the system and distributed to all applications subscribing to this particular information (a closed deal, for example).

The way in which the data is encapsulated in the messages varies. The content could have a nested and fixed structure with a single top container, or a message could be a variable information message (VIM), meaning that a number of data structures follow sequentially, intervened by headers declaring the size and nature of the next data chunk.

Each message chapter has all or a subset of the following sections depending on the transaction type.

Section	Description																
Fingerprint	<p>Each message has a Fingerprint section containing the following information:</p> <table border="1"> <thead> <tr> <th>Heading</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Transaction type</td> <td>Transaction type is the identification of the transaction; broadcast, query or answer.  For more information on how the Transaction type is designed, refer to <i>OMnet Message Reference Manual, Introduction</i>.</td> </tr> <tr> <td>Calling sequence</td> <td>The Calling sequence is the name of the callable routine for the transaction.  For more information, refer to <i>OMnet Application Programmer's Interface Manual</i>.</td> </tr> <tr> <td>Struct name</td> <td>Is the name of the top structure in the message.</td> </tr> <tr> <td>Info type</td> <td>The info type is an attribute of the information object. Applicable for broadcasts only.  Refer to <i>OMnet Application Programmer's Interface Manual</i>.</td> </tr> <tr> <td>Segmented</td> <td>Specifies if an answer or broadcast is segmented or not (true/false).  For details, refer to <i>OMnet Message Reference Manual, Introduction</i>.</td> </tr> <tr> <td>Partitioned</td> <td>Specifies if a transaction or query is partitioned or not (true/false).  For more information, refer to <i>OMnet Message Reference Manual, Introduction</i>.</td> </tr> <tr> <td>Facility</td> <td>Transactions are sent on paths through the system called facilities. The system is only able to rout a transaction correctly if it is sent on the correct facility.</td> </tr> </tbody> </table>	Heading	Description	Transaction type	Transaction type is the identification of the transaction; broadcast, query or answer.  For more information on how the Transaction type is designed, refer to <i>OMnet Message Reference Manual, Introduction</i> .	Calling sequence	The Calling sequence is the name of the callable routine for the transaction.  For more information, refer to <i>OMnet Application Programmer's Interface Manual</i> .	Struct name	Is the name of the top structure in the message.	Info type	The info type is an attribute of the information object. Applicable for broadcasts only.  Refer to <i>OMnet Application Programmer's Interface Manual</i> .	Segmented	Specifies if an answer or broadcast is segmented or not (true/false).  For details, refer to <i>OMnet Message Reference Manual, Introduction</i> .	Partitioned	Specifies if a transaction or query is partitioned or not (true/false).  For more information, refer to <i>OMnet Message Reference Manual, Introduction</i> .	Facility	Transactions are sent on paths through the system called facilities. The system is only able to rout a transaction correctly if it is sent on the correct facility.
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Related Messages	Lists any messages that in one way or another are related to the described message. It could be a query that returns the content of a related broadcast, or two related broadcasts disseminating similar content.						
Purpose	The purpose of the message is described here.						
Structure	The structure of the message is presented here.						
Usage and Conditions	Message specific information regarding fields is provided here. The general description of all fields is presented in the Detailed Field Information chapter.						
Structure Contents	Provides any additional information regarding the structures if needed.						
Return Codes	Some messages may return codes indicating if it was successfully received and processed by the system. These codes are described in the Return Codes section.						
Answer Structure	If the message is a query, the structure of the answer is presented here.						
Answer Comments	If the message is a query, any needed information regarding the answer is provided here.						
Answer Structure Contents	Provides any additional information regarding the answer structures if needed.						

## 2.3 Navigating the Document

This manual uses links to facilitate easy and quick navigation through the structures. For example, it is simple to navigate "Summary of Changes" item > Message > Structure > Sub-structure > Named-Structure > Field and back.

Depending on the PDF reader you are using, the "Back" button may not be visible by default. The way in which you make it visible may also differ depending on the type of PDF reader you have. The following description applies to a number of Adobe Acrobat versions:

1. Open a PDF document in your Adobe Acrobat application.
2. Select View > Toolbars > More Tools (or View > Tools > Customize Toolbars, and so on) to open the More Tools/Customize Toolbars and so on dialog.

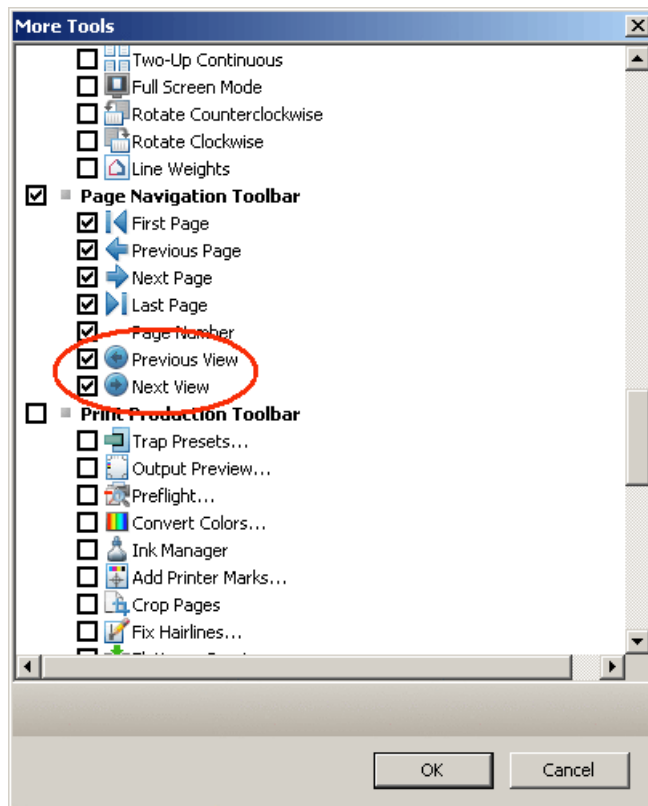


Figure 1: More Tools Dialog

3. Check the Page Navigation Toolbar and make sure that, at a minimum, the **Previous Next** and **Next View** buttons are selected. It is recommended that you make all of the Page Navigation Toolbar buttons visible since they all will aid you when you navigate the document.
4. Click **OK**. The buttons are now visible in your toolbar.

**Note:**

If you are reading this pdf file via a web browser, make sure you enable the very same buttons there, too. You do this by right-clicking the toolbar and selecting the **Previous** and **Next View** buttons.

## 3 OMnet Messages

### 3.1 Reference Data

#### 3.1.1 BU2 [Series Update BROADCAST]

##### 3.1.1.1 Fingerprint

BROADCAST properties	
transaction type	BU2
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	series_update_bu2
info type	general

##### 3.1.1.2 Related Messages

DQ2, the answer will take into account any modifications made.

##### 3.1.1.3 Purpose

The Series Update broadcast is sent when a new series, or combinations if any, has been defined or updated in the central system.

**Note:** Preferably, the more modern (Delta Queries and Broadcasts concept) BU124 should be used instead of BU2 single orders.

##### 3.1.1.4 Structure

The BU2 BROADCAST has the following structure:

```
struct series_update_bu2 {
    struct broadcast_type
    UINT16 T chg_type n // Change Type
    char[2] filler 2 s // Filler
    struct da2 {
        struct series // Named struct no: 50000
        struct upper_level_series
        INT32 T contract_size i // Contract Size
        INT32 T price quot factor i // Price, Quotation Factor
        UINT32 T series sequence number u // Series, Sequence Number
        UINT16 T state number n // Trading State Number
        UINT16 T step size multiple n // Tick Size, Multiple
        char[32] ins_id s // Series, Identity
    }
}
```

```

char[12] isin code s // ISIN Code
UINT8 T suspended c // Suspended
char[8] date last trading s // Date, Last Trading
char[6] time last trading s // Time, Last Trading
char[8] settlement date s // Date, Settlement
char[8] start date s // Date, Start
char[8] end date s // Date, End
char[8] date delivery start s // Date, Delivery Start
char[8] date delivery stop s // Date, Delivery Stop
UINT8 T series status c // Series, Status
char[32] long ins id s // Series Name, Long
char[8] date first trading s // Date, First Trading
char[6] time first trading s // Time, First Trading
UINT8 T traded in click c // Traded in GENIUM
char[8] abbr name s // Abbreviated Name
char[6] stock code s // Stock Code
UINT8 T ext info source c // External Information Source
char[8] effective exp date s // Effective Expiration Date
char[2] filler 2 s // Filler
    }
}

```

### 3.1.1.5 Usage and Conditions

#### Change Type

states what type of update is at hand, as described in the field information section.

#### Trading State Number

contains the immediate ISS.

## 3.1.2 BU4 [Underlying Update BROADCAST]

### 3.1.2.1 Fingerprint

BROADCAST properties	
transaction type	BU4
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	underlying_update_bu4_bu19
info type	general

### 3.1.2.2 Related Messages

DQ4, the answer will take into account any modifications made.



### 3.1.2.3 Purpose

The Underlying Update broadcast is sent when a new underlying has been defined or updated in the central system.

**Note:** Preferably, the more modern BU120 should be used instead of BU4 (Delta Queries and Broadcasts concept).

### 3.1.2.4 Structure

The BU4 BROADCAST has the following structure:

```

struct underlying_update_bu4_bu19 {
    struct broadcast type
    UINT16 T chg type n // Change Type
    char[2] filler 2 s // Filler
    struct da4_da19 {
        INT32 T subscription price i // Subscription, Price
        INT32 T interest rate i // Interest Rate
        UINT16 T commodity n // Commodity Code
        char[6] com id s // Underlying Identity
        char[12] isin code s // ISIN Code
        UINT16 T dec in price n // Decimals, Price
        char[8] date release s // Date, Issue
        char[8] date termination s // Date, Maturity
        char[8] date dated s // Date, Dated
        char[32] name s // Name
        char[3] base cur s // Currency, Trading
        UINT8 T deliverable c // Deliverable
        UINT16 T coupon frequency n // Coupon Frequency
        INT64 T nominal value q // Nominal Value
        UINT16 T day count n // Day Count
        UINT16 T days in interest year n // Days In Interest Year
        UINT32 T coupon interest i // Coupon Interest
        UINT16 T coupon settlement days n // Coupon Settlement Days
        UINT8 T underlying type c // Type, Underlying
        UINT8 T price unit c // Price Unit, Underlying
        UINT16 T dec in nominal n // Decimals, Nominal
        UINT16 T state number n // Trading State Number
        UINT16 T linked commodity n // Linked Commodity Code
        UINT8 T fixed income type c // Fixed Income Type
        UINT8 T underlying status c // Underlying Status
        char[6] underlying issuer s // Underlying Issuer
        char[6] time delivery start s // Time, Delivery Start
        char[6] time delivery stop s // Time, Delivery Stop
        char[4] sector code s // Sector Code
        UINT16 T items n // Items
        Array COUPON [max no: 80] {
            char[8] date coupdiv s // Coupon/Dividend Date
            UINT32 T dividend i // Dividend
        }
        UINT8 T virtual c // Virtual
        char[4] member circ numb s // Member, Circular Number
        CHAR inv scheme c // Investment Scheme
    }
}

```

```

        char[8] date closing s // Date, Closing
        char[8] date last s // Date, Last
        char[2] country id s // Name, Country
        UINT8 T cur unit c // Currency Unit
        char[3] filler 3 s // Filler
    }
}

```

### 3.1.2.5 Usage and Conditions

#### Change Type

states what type of update is at hand, as described in the field information section.

#### Trading State Number

will contain the immediate ISS.

## 3.1.3 BU9 [Series Backoffice Update BROADCAST]

### 3.1.3.1 Fingerprint

BROADCAST properties	
transaction type	BU9
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	series_bo_update_bu9
info type	general

### 3.1.3.2 Related Messages

DQ9, the answer will take into account any modifications made.

### 3.1.3.3 Purpose

The Series Backoffice Update broadcast is sent when a new series has been defined or updated in the central system, including expired ones and other non-tradable series, for example, payment series.

**Note:** Preferably, the more modern BU125 should be used instead of BU9 (Delta Queries and Broadcasts concept).

### 3.1.3.4 Structure

The BU9 BROADCAST has the following structure:

```

struct series_bo_update_bu9 {
    struct broadcast type

```

```

UINT16 T chg type n // Change Type
char[2] filler 2 s // Filler
struct da9 {
    struct series // Named struct no: 50000
    struct upper_level_series
    INT32 T contract size i // Contract Size
    INT32 T price quot factor i // Price, Quotation Factor
    UINT16 T state number n // Trading State Number
    char[32] ins id s // Series, Identity
    char[12] isin code s // ISIN Code
    UINT8 T stopped by issue c // Stopped By Issue
    char[12] isin code old s // ISIN Code, Old Series
    char[8] date notation s // Date, Notation
    char[8] date last trading s // Date, Last Trading
    char[6] time last trading s // Time, Last Trading
    char[8] date delivery start s // Date, Delivery Start
    char[8] date delivery stop s // Date, Delivery Stop
    UINT8 T deliverable c // Deliverable
    UINT8 T suspended c // Suspended
    UINT8 T series status c // Series, Status
    UINT8 T tm template c // Template Series
    UINT8 T tm series c // Tailor Made Series
    char[8] settlement date s // Date, Settlement
    char[8] start date s // Date, Start
    char[8] end date s // Date, End
    UINT8 T accept collateral c // Accepted as Collateral
    char[8] date first trading s // Date, First Trading
    char[6] time first trading s // Time, First Trading
    UINT8 T traded in click c // Traded in GENIUM
    UINT8 T traded c // Traded
    char[8] effective exp date s // Effective Expiration Date
    CHAR filler 1 s // Filler
}
}

```

### 3.1.3.5 Usage and Conditions

#### Trading State Number

will contain the immediate ISS.

## 3.1.4 BU10 [Instrument Class Update BROADCAST]

### 3.1.4.1 Fingerprint

BROADCAST properties	
transaction type	BU10
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	inst_class_update_bu10_bu20
info type	general

### 3.1.4.2 Related Messages

DQ10, the answer will take into account any modifications made.

### 3.1.4.3 Purpose

The Instrument Class Update broadcast is sent when a new class, or combination class if any, has been defined or updated in the central system.

**Note:** Preferably, the more modern BU122 should be used instead of BU10 (Delta Queries and Broadcasts concept).

### 3.1.4.4 Structure

The BU10 BROADCAST has the following structure:

```

struct inst_class_update_bu10_bu20 {
    struct broadcast type
    UINT16 T chg type n // Change Type
    char[2] filler 2 s // Filler
    struct da10_da20 {
        struct series // Named struct no: 50000
        struct upper level series
        INT32 T price quot factor i // Price, Quotation Factor
        INT32 T contract size i // Contract Size
        INT32 T exerc limit i // Exercise, Limit
        INT32 T redemption value i // Redemption Value
        INT32 T min qty increment i // Minimum Quantity Increment
        UINT16 T derivate level n // Derivate Level
        UINT16 T dec in strike price n // Decimals, Strike Price
        UINT16 T dec in contr size n // Decimals, Contract Size
        UINT16 T rnt id n // Ranking Type
        UINT16 T dec in premium n // Decimals, Premium
        UINT16 T items n // Items
        Array ITEM [max no: 12] {
            struct tick size
        }
        UINT16 T dec in deliv n // Decimals, Delivery
        UINT16 T items block n // Item, Block
        Array BLOCK_SIZE [max no: 4] {
            INT64 T maximum size u // Block Size, Maximum Volume
            UINT32 T minimum size n // Block Size, Minimum Volume
            UINT32 T block n // Block Size
            UINT8 T lot type c // Lot, Type
            char[3] filler 3 s // Filler
        }
        UINT16 T cleared dec in qty n // Decimals, Quantity
        UINT16 T virt commodity n // Virtual Underlying
        UINT16 T dec in fixing n // Decimals, Fixing
        char[3] base cur s // Currency, Trading
        UINT8 T traded c // Traded
        UINT8 T exerc limit unit c // Exercise, Limit Unit
        char[14] inc id s // Instrument Class, Identity
    }
}

```

```

char[10] trc_id s // Trade Report Class
char[32] name s // Name
CHAR is_fractions c // Fraction, Premium
UINT8 T price_format c // Premium/Price Format
UINT8 T strike_price_format c // Strike Price, Format
UINT8 T cabinet_format c // Cabinet Format
UINT8 T price_unit_premium c // Price Unit, Premium
UINT8 T price_unit_strike c // Price Unit, Strike
char[32] settl_cur_id s // Currency, Settlement
char[3] credit_class s // Credit Class
char[12] csd_id s // CSD, Identity
UINT8 T trd_cur_unit c // Traded Currency Unit
UINT8 T collateral_type c // Collateral types
UINT8 T fixing_req c // FIXING REQ C
CHAR[2] mbs_id s // Minimum Bid Schedule
char[12] valuation_group_id s // VAG, Identity ; Of type: VAG ID S
char[3] filler_3 s // Filler
}
}
}

```

### 3.1.4.5 Usage and Conditions

#### Change Type

states what type of update is at hand, as described in the field information section.

## 3.1.5 BU12 [Account Type Update BROADCAST]

### 3.1.5.1 Fingerprint

BROADCAST properties	
transaction type	BU12
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	account_type_update_bu12
info type	general

### 3.1.5.2 Related Messages

DQ12, the answer will take into account any modifications made.

### 3.1.5.3 Purpose

The Account Type Update broadcast is sent whenever a change has occurred regarding an account type.

### 3.1.5.4 Structure

The BU12 BROADCAST has the following structure:

```

struct account_type_update_bu12 {
    struct broadcast type
    UINT16 T chg type n // Change Type
    char[2] filler 2 s // Filler
    struct da12 {
        char[12] acc type s // Account Type
        char[40] description s // Description
        UINT8 T open close c // Open or Closed
        UINT8 T transitory c // Transitory
        UINT8 T market maker c // Market Maker
        UINT8 T own inventory c // Own Inventory
        UINT8 T exclusive opening sell c // Exclusive Opening Sell
        UINT8 T positions allowed c // Positions, Allowed
        UINT8 T trades allowed c // Trades, Allowed
        char[12] atr id s // Account Type Rule
        CHAR origin c // Origin, Account Type
    }
}
    
```

### 3.1.5.5 Usage and Conditions

#### Change Type

states what type of update is at hand (addition, modification, deletion) as described in the field information section.

## 3.1.6 BU13 [Account Fee Type Update BROADCAST]

### 3.1.6.1 Fingerprint

BROADCAST properties	
transaction type	BU13
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	account_fee_type_update_bu13
info type	general

### 3.1.6.2 Related Messages

DQ13, the answer will take into account any modifications made.

### 3.1.6.3 Purpose

The Account Fee Type Update broadcast is sent whenever a change has occurred regarding an account fee type.

### 3.1.6.4 Structure

The BU13 BROADCAST has the following structure:

```

struct account_fee_type_update_bu13 {
    struct broadcast_type
    UINT16 T chg_type n // Change Type
    char[2] filler 2 s // Filler
    struct da13 {
        char[12] fee_type s // Account Fee Type
        char[40] description s // Description
    }
}

```

### 3.1.6.5 Usage and Conditions

#### Change Type

states what type of update is at hand (addition, modification, deletion) as described in the field information section.

## 3.1.7 BU18 [Non-Trading Days Update BROADCAST]

### 3.1.7.1 Fingerprint

BROADCAST properties	
transaction type	BU18
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	non_trading_days_update_bu18
info type	general

### 3.1.7.2 Related Messages

DQ18, the answer will take into account any modifications made.

### 3.1.7.3 Purpose

The Non Trading Days Update broadcast is sent whenever a change has occurred regarding non-trading days.

### 3.1.7.4 Structure

The BU18 BROADCAST has the following structure:

```

struct non_trading_days_update_bu18 {
    struct broadcast_type
    UINT16 T chg_type n // Change Type
}

```

```

char[2] filler 2 s // Filler
struct da18 {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    char[8] date non trading s // Date, Non Trading
    UINT8 T closed for trading c // Closed, trading
    UINT8 T closed for settlement c // Closed, settlement
    UINT8 T closed for clearing c // Closed, clearing
    char[3] filler 3 s // Filler
}
    
```

### 3.1.7.5 Usage and Conditions

#### Change Type

states what type of update is at hand (addition, modification, deletion) as described in the field information section.

## 3.1.8 BU19 [Underlying Backoffice Update BROADCAST]

### 3.1.8.1 Fingerprint

BROADCAST properties	
transaction type	BU19
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	underlying_update_bu4_bu19
info type	general

### 3.1.8.2 Related Messages

DQ19, the answer will take into account any modifications made.

### 3.1.8.3 Purpose

The Underlying Update broadcast is sent when a new underlying has been defined or updated in the central system.

**Note:** Preferably, the more modern BU121 should be used instead of BU19 (Delta Queries and Broadcasts concept).

### 3.1.8.4 Structure

The BU19 BROADCAST has the following structure:

```

struct underlying_update_bu4_bu19 {
    
```



```

struct broadcast type
UINT16 T chg type n // Change Type
char[2] filler 2 s // Filler
struct da4_da19 {
    INT32 T subscription price i // Subscription, Price
    INT32 T interest rate i // Interest Rate
    UINT16 T commodity n // Commodity Code
    char[6] com id s // Underlying Identity
    char[12] isin code s // ISIN Code
    UINT16 T dec in price n // Decimals, Price
    char[8] date release s // Date, Issue
    char[8] date termination s // Date, Maturity
    char[8] date dated s // Date, Dated
    char[32] name s // Name
    char[3] base cur s // Currency, Trading
    UINT8 T deliverable c // Deliverable
    UINT16 T coupon frequency n // Coupon Frequency
    INT64 T nominal value q // Nominal Value
    UINT16 T day count n // Day Count
    UINT16 T days in interest year n // Days In Interest Year
    UINT32 T coupon interest i // Coupon Interest
    UINT16 T coupon settlement days n // Coupon Settlement Days
    UINT8 T underlying type c // Type, Underlying
    UINT8 T price unit c // Price Unit, Underlying
    UINT16 T dec in nominal n // Decimals, Nominal
    UINT16 T state number n // Trading State Number
    UINT16 T linked commodity n // Linked Commodity Code
    UINT8 T fixed income type c // Fixed Income Type
    UINT8 T underlying status c // Underlying Status
    char[6] underlying issuer s // Underlying Issuer
    char[6] time delivery start s // Time, Delivery Start
    char[6] time delivery stop s // Time, Delivery Stop
    char[4] sector code s // Sector Code
    UINT16 T items n // Items
    Array COUPON [max no: 80] {
        char[8] date coupdiv s // Coupon/Dividend Date
        UINT32 T dividend i // Dividend
    }
    UINT8 T virtual c // Virtual
    char[4] member circ numb s // Member, Circular Number
    CHAR inv scheme c // Investment Scheme
    char[8] date closing s // Date, Closing
    char[8] date last s // Date, Last
    char[2] country id s // Name, Country
    UINT8 T cur unit c // Currency Unit
    char[3] filler 3 s // Filler
}
}

```

### 3.1.8.5 Usage and Conditions

#### Change Type

states what type of update is at hand, as described in the field information section.

#### Trading State Number

will contain the immediate ISS.

## 3.1.9 BU20 [Instrument Class Backoffice Update BROADCAST]

### 3.1.9.1 Fingerprint

BROADCAST properties	
transaction type	BU20
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	inst_class_update_bu10_bu20
info type	general

### 3.1.9.2 Related Messages

DQ20, the answer will take into account any modifications made.

### 3.1.9.3 Purpose

The Instrument Class Update broadcast is sent when a new class has been defined or updated in the central system.

**Note:** Preferably, the more modern BU123 should be used instead of BU20 (Delta Queries and Broadcasts concept).

### 3.1.9.4 Structure

The BU20 BROADCAST has the following structure:

```
struct inst_class_update_bu10_bu20 {
    struct broadcast type
    UINT16 T chg type n // Change Type
    char[2] filler 2 s // Filler
    struct da10_da20 {
        struct series // Named struct no: 50000
        struct upper_level series
        INT32 T price quot factor i // Price, Quotation Factor
        INT32 T contract size i // Contract Size
        INT32 T exerc limit i // Exercise, Limit
        INT32 T redemption value i // Redemption Value
        INT32 T min qty increment i // Minimum Quantity Increment
        UINT16 T derivate level n // Derivate Level
        UINT16 T dec in strike price n // Decimals, Strike Price
        UINT16 T dec in contr size n // Decimals, Contract Size
        UINT16 T rnt id n // Ranking Type
    }
}
```

```

    UUINT16 T dec in premium n // Decimals, Premium
    UUINT16 T items n // Items
    Array ITEM [max no: 12] {
        struct tick size
    }
    UUINT16 T dec in deliv n // Decimals, Delivery
    UUINT16 T items block n // Item, Block
    Array BLOCK_SIZE [max no: 4] {
        INT64 T maximum size u // Block Size, Maximum Volume
        UUINT32 T minimum size n // Block Size, Minimum Volume
        UUINT32 T block n // Block Size
        UUINT8 T lot type c // Lot, Type
        char[3] filler 3 s // Filler
    }
    UUINT16 T cleared dec in qty n // Decimals, Quantity
    UUINT16 T virt commodity n // Virtual Underlying
    UUINT16 T dec in fixing n // Decimals, Fixing
    char[3] base cur s // Currency, Trading
    UUINT8 T traded c // Traded
    UUINT8 T exerc limit unit c // Exercise, Limit Unit
    char[14] inc id s // Instrument Class, Identity
    char[10] trc id s // Trade Report Class
    char[32] name s // Name
    CHAR is fractions c // Fraction, Premium
    UUINT8 T price format c // Premium/Price Format
    UUINT8 T strike price format c // Strike Price, Format
    UUINT8 T cabinet format c // Cabinet Format
    UUINT8 T price unit premium c // Price Unit, Premium
    UUINT8 T price unit strike c // Price Unit, Strike
    char[32] settl cur id s // Currency, Settlement
    char[3] credit class s // Credit Class
    char[12] csd id s // CSD, Identity
    UUINT8 T trd cur unit c // Traded Currency Unit
    UUINT8 T collateral type c // Collateral types
    UUINT8 T fixing req c // FIXING REQ C
    CHAR[2] mbs id s // Minimum Bid Schedule
    char[12] valuation group id s // VAG, Identity ; Of type: VAG ID S
    char[3] filler 3 s // Filler
}
}

```

### 3.1.9.5 Usage and Conditions

#### Change Type

states what type of update is at hand, as described in the field information section.

## 3.1.10 BU44 [Legal Account Instrument Update BROADCAST]

### 3.1.10.1 Fingerprint

BROADCAST properties	
transaction type	BU44
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	legal_account_instrument_update_bu44
info type	general

### 3.1.10.2 Related Messages

DQ44, the answer will take into account any modifications made.

### 3.1.10.3 Purpose

The Legal Account Instrument Update broadcast is sent whenever a change has occurred.

### 3.1.10.4 Structure

The BU44 BROADCAST has the following structure:

```
struct legal_account_instrument_update_bu44 {
    struct broadcast_type
    UINT16 T chg type n // Change Type
    char[2] filler 2 s // Filler
    struct da44 {
        struct series // Named struct no: 50000
        char[12] acc type s // Account Type
    }
}
```

### 3.1.10.5 Usage and Conditions

**Change Type**

states what type of update is at hand, as described in the field information section.

## 3.1.11 BU120 [Delta Underlying Update VIB]

### 3.1.11.1 Fingerprint

VIB properties	
transaction type	BU120
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

### 3.1.11.2 Related Messages

DQ120

### 3.1.11.3 Purpose

This broadcast is used to send out information about a new underlying or an underlying that has been changed.

### 3.1.11.4 Structure

The BU120 VIB has the following structure:

```

struct broadcast segment\_hdr
struct item\_hdr
struct sub\_item\_hdr
struct ns\_delta\_header // Named struct no: 37001
Sequence {
    struct item\_hdr
    Sequence {
        struct sub\_item\_hdr
        Choice {
            struct ns\_remove // Named struct no: 37002
            struct ns\_underlying\_basic // Named struct no: 37201
            struct ns\_fixed\_income // Named struct no: 37202
            struct ns\_coupon\_dates // Named struct no: 37203
            struct ns\_index\_linked // Named struct no: 37204
            struct ns\_underlying\_power // Named struct no: 37206
            struct ns\_underlying\_ext3 // Named struct no: 37209
            struct ns\_reference\_rate // Named struct no: 37210
            struct ns\_index\_value // Named struct no: 37211
            struct ns\_lottery\_bonds // Named struct no: 37212
            struct ns\_convertibles // Named struct no: 37213
            struct ns\_derived\_from // Named struct no: 37214
        }
    }
}

```

}

### 3.1.11.5 Usage and Conditions

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

Broadcast BU120 will distribute all underlyings regardless of Status (active or suspended).

There may be consecutive broadcasts needed to disseminate all information. In this case the first broadcast will contain 1 in the Segment Number field. The field is then incremented by one in each of the following consecutive broadcasts.

The last broadcast will contain 0 (zero) in the Segment Number field.

If only one broadcast is needed, the Segment Number field will contain 0.

The broadcast does not contain any value in the full answer time-stamp or the full answer business date.

*Example*

**0 coupons**

Only one broadcast is needed.

- Broadcast Segment Header (Segment Number = 0)
- Delta Header
- Underlying, Basic Data

*Example*

**150 coupons**

Three broadcasts are needed.

**First broadcast**

- Broadcast Segment Header (Segment Number = 1)
- Delta Header
- Underlying, Basic Data
- Underlying, Coupon Date (approximately first 50 coupons)

**Second broadcast**

- Broadcast Segment Header (Segment Number = 2)
- Delta Header
- Underlying, Coupon Date (approximately next 50 coupons)

**Third broadcast**

- Broadcast Segment Header (Segment Number = 0)

- Delta Header
- Underlying, Coupon Date (last around 50 coupons)

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

### 3.1.12 BU121 [Delta Underlying Update for Back Office VIB]

#### 3.1.12.1 Fingerprint

VIB properties	
transaction type	BU121
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

#### 3.1.12.2 Related Messages

DQ121

#### 3.1.12.3 Purpose

This broadcast is used to send out information about a new underlying or an underlying that has been changed.

#### 3.1.12.4 Structure

The BU121 VIB has the following structure:

```

struct broadcast segment_hdr
struct item_hdr
struct sub item_hdr
struct ns delta header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub item_hdr
        Choice {
            struct ns remove // Named struct no: 37002
            struct ns underlying basic // Named struct no: 37201
            struct ns fixed income // Named struct no: 37202
            struct ns coupon dates // Named struct no: 37203
            struct ns index linked // Named struct no: 37204
            struct ns underlying power // Named struct no: 37206
            struct ns underlying ext3 // Named struct no: 37209
            struct ns reference rate // Named struct no: 37210
        }
    }
}
    
```

```

    struct ns index value // Named struct no: 37211
    struct ns lottery bonds // Named struct no: 37212
    struct ns convertibles // Named struct no: 37213
    struct ns derived from // Named struct no: 37214
}
}
}

```

### 3.1.12.5 Usage and Conditions

Broadcast BU121 (Back Office variant) will distribute all underlyings regardless of Status (active or suspended).

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

## 3.1.13 BU122 [Delta Instrument Class Update VIB]

### 3.1.13.1 Fingerprint

VIB properties	
transaction type	BU122
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

### 3.1.13.2 Related Messages

DQ122

### 3.1.13.3 Purpose

This broadcast is used to send out information about a new Instrument Class or an Instrument Class that has been changed.

### 3.1.13.4 Structure

The BU122 VIB has the following structure:

```

struct broadcast_segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns delta header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {

```



```

struct sub item hdr
Choice {
  struct ns remove // Named struct no: 37002
  struct ns inst class basic // Named struct no: 37101
  struct ns price tick // Named struct no: 37102
  struct ns block size // Named struct no: 37103
  struct ns calc rule // Named struct no: 37104
  struct ns inst class secur // Named struct no: 37105
  struct ns inst class leg calc rule // Named struct no: 37115
  struct ns price tick corr // Named struct no: 37113
}
}
}

```

### 3.1.13.5 Usage and Conditions

Broadcast BU122 will distribute all instrument classes regardless of Traded (Yes or No).

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

For **NS Price Tick**, the instrument is traded in price or yield. **NS Price Tick Corr** gives the corresponding price if the trade is in yield, or the corresponding yield if the trade is in price.

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

## 3.1.14 BU123 [Delta Instrument Class Update for Back Office VIB]

### 3.1.14.1 Fingerprint

VIB properties	
transaction type	BU123
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

### 3.1.14.2 Related Messages

DQ123

### 3.1.14.3 Purpose

This broadcast is used to send out information about a new Instrument Class or an Instrument Class that has been changed.

### 3.1.14.4 Structure

The BU123 VIB has the following structure:

```

struct broadcast segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns_delta_header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct ns_remove // Named struct no: 37002
            struct ns_inst_class_basic // Named struct no: 37101
            struct ns_price_tick // Named struct no: 37102
            struct ns_block_size // Named struct no: 37103
            struct ns_calc_rule // Named struct no: 37104
            struct ns_inst_class_secur // Named struct no: 37105
            struct ns_inst_class_leg_calc_rule // Named struct no: 37115
            struct ns_price_tick_corr // Named struct no: 37113
        }
    }
}

```

### 3.1.14.5 Usage and Conditions

Broadcast BU123 (Back Office variant) will distribute all instrument classes regardless of Traded (Yes or No).

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

For **NS Price Tick**, the instrument is traded in price or yield. **NS Price Tick Corr** gives the corresponding price if the trade is in yield, or the corresponding yield if the trade is in price.

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

## 3.1.15 BU124 [Delta Instrument Series Update VIB]

### 3.1.15.1 Fingerprint

VIB properties	
transaction type	BU124
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

### 3.1.15.2 Related Messages

DQ124

### 3.1.15.3 Purpose

This broadcast is used to send out information about a new Instrument Series or an Instrument Series that has been changed.

### 3.1.15.4 Structure

The BU124 VIB has the following structure:

```

struct broadcast segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns_delta_header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct ns_remove // Named struct no: 37002
            struct ns_inst_series_basic // Named struct no: 37301
            struct ns_inst_series_basic_single // Named struct no: 37302
            struct ns_inst_series_power // Named struct no: 37303
            struct ns_inst_series_repo // Named struct no: 37304
            struct ns_inst_series_leg_flow // Named struct no: 37309
        }
    }
}
    
```

### 3.1.15.5 Usage and Conditions

Broadcast BU124 will distribute all series regardless of Last Trade Date, Traded (Yes or No), and Status (Active or Suspended).

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

## 3.1.16 BU125 [Delta Instrument Series Update for Back Office VIB]

### 3.1.16.1 Fingerprint

VIB properties	
transaction type	BU125
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	general

### 3.1.16.2 Related Messages

DQ125

### 3.1.16.3 Purpose

This broadcast is used to send out information about a new Instrument Series or an Instrument Series that has been changed.

### 3.1.16.4 Structure

The BU125 VIB has the following structure:

```

struct broadcast segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns_delta_header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct ns_remove // Named struct no: 37002
            struct ns_inst_series_basic // Named struct no: 37301
            struct ns_inst_series_basic_single // Named struct no: 37302
            struct ns_inst_series_power // Named struct no: 37303
            struct ns_inst_series_repo // Named struct no: 37304
            struct ns_inst_series_bo // Named struct no: 37306
            struct ns_inst_series_leg_flow // Named struct no: 37309
        }
    }
}
    
```

### 3.1.16.5 Usage and Conditions

Broadcast BU125 (Back Office variant) will distribute all series regardless of Last Trade Date, Traded (Yes or No), and Status (Active or Suspended).

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

For general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

## 3.1.17 DQ2 [Series QUERY]

### 3.1.17.1 Fingerprint

QUERY properties	
transaction type	DQ2
calling sequence	omniapi_query_ex
struct name	query_series

QUERY properties	
facility	EP0
partitioned	false
segmented	true
answers	DA2

ANSWER properties	
transaction type	DA2
struct name	answer_series
segmented	true

### 3.1.17.2 Related Messages

BU2

### 3.1.17.3 Purpose

The purpose of this transaction is to retrieve all tradable series in the system, including combinations if any.

### 3.1.17.4 Structure

The DQ2 QUERY has the following structure:

```
struct query_series {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment_number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.17.5 Usage and Conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.17.6 Answer Structure

The DA2 ANSWER has the following structure:

```
struct answer_series {
    struct transaction_type
    UINT16 T segment_number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 300] {
```

```

    struct series // Named struct no: 50000
    struct upper_level_series
    INT32 T contract_size i // Contract Size
    INT32 T price_quot_factor i // Price, Quotation Factor
    UINT32 T series_sequence_number u // Series, Sequence Number
    UINT16 T state_number n // Trading State Number
    UINT16 T step_size_multiple n // Tick Size, Multiple
    char[32] ins_id s // Series, Identity
    char[12] isin_code s // ISIN Code
    UINT8 T suspended c // Suspended
    char[8] date_last_trading s // Date, Last Trading
    char[6] time_last_trading s // Time, Last Trading
    char[8] settlement_date s // Date, Settlement
    char[8] start_date s // Date, Start
    char[8] end_date s // Date, End
    char[8] date_delivery_start s // Date, Delivery Start
    char[8] date_delivery_stop s // Date, Delivery Stop
    UINT8 T series_status c // Series, Status
    char[32] long_ins_id s // Series Name, Long
    char[8] date_first_trading s // Date, First Trading
    char[6] time_first_trading s // Time, First Trading
    UINT8 T traded_in_click c // Traded in GENIUM
    char[8] abbr_name s // Abbreviated Name
    char[6] stock_code s // Stock Code
    UINT8 T ext_info_source c // External Information Source
    char[8] effective_exp_date s // Effective Expiration Date
    char[2] filler_2 s // Filler
  }
}

```

### 3.1.17.7 Answer, comments

The answer received contains a list of series. Each response is prefaced with the transaction type (DA2) and an item field specifying the number of records contained in the response.

#### Series

is returned regardless of the setting of the field `traded_in_click_c`.

Valid standard combination series will be included in the answer.

#### Upper Level Series

exists as a series if it is a traded, not expired series, otherwise ignore it.

#### Contract Size

This is the calculated contract size for the new series after an adjustment. For normal series (no adjustment) the Contract Size is 0. To receive the normal contract size and number of decimals in the contract size, use DQ10.

#### Price Quotation Factor

This is the calculated Price Quotation Factor for the new series after an adjustment. For normal series (no adjustment) the Price Quotation Factor is 0. To receive the normal Price Quotation Factor and number of decimals, use DQ10.

#### Trading State Number

will be 0 when sent in this answer. It will contain the immediate ISS only when distributing the instrument series in the broadcast BU2. To get the immediate ISS use the UQ15 query.

## 3.1.18 DQ3 [Instrument Type QUERY]

### 3.1.18.1 Fingerprint

QUERY properties	
transaction type	DQ3
calling sequence	omniapi_query_ex
struct name	query_instrument
facility	EP0
partitioned	false
segmented	true
answers	DA3

ANSWER properties	
transaction type	DA3
struct name	answer_instrument
segmented	true

### 3.1.18.2 Purpose

The purpose of this transaction is to retrieve instrument types for all tradable series in the system, including combinations if any.

### 3.1.18.3 Structure

The DQ3 QUERY has the following structure:

```
struct query_instrument {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.18.4 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.18.5 Answer Structure

The DA3 ANSWER has the following structure:

```

struct answer_instrument {
  struct transaction type
  UINT16 T segment number n // Segment Number
  UINT16 T items n // Items
  Array ITEM [max no: 100] {
    struct series // Named struct no: 50000
    UINT32 T min show vol u // Order, Min Show Volume
    UINT16 T hidden vol meth n // Method, Hidden Volume
    UINT16 T pub inf id n // Public Order Info
    char[8] int id s // Instrument, Identity
    char[32] name s // Name
    UINT8 T maintain positions c // Maintain Positions
    UINT8 T traded c // Traded
    UINT8 T post trade proc c // Post Trade processed
    UINT8 T pos handling c // Position handling
    UINT8 T directed trade information c // Directed Trade Information
    UINT8 T public deal information c // Public Deal Information
    char[2] filler 2 s // Filler
  }
}

```

### 3.1.18.6 Answer, comments

The answer received contains a list of types. Each response is prefaced with the transaction type (DA3) and an item field specifying the number of records contained in the response.

## 3.1.19 DQ4 [Underlying QUERY]

### 3.1.19.1 Fingerprint

QUERY properties	
transaction type	DQ4
calling sequence	omniapi_query_ex
struct name	query_underlying
facility	EP0
partitioned	false



QUERY properties	
segmented	true
answers	DA4

ANSWER properties	
transaction type	DA4
struct name	answer_underlying
segmented	true

### 3.1.19.2 Related Messages

BU4

### 3.1.19.3 Purpose

The purpose of this transaction is to retrieve underlyings for all tradable series in the system.

**Note:** Preferably, the more modern DQ120 should be used instead of DQ4 (Delta Queries and Broadcasts concept).

### 3.1.19.4 Structure

The DQ4 QUERY has the following structure:

```
struct query_underlying {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.19.5 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.19.6 Answer Structure

The DA4 ANSWER has the following structure:

```
struct answer_underlying {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
}
```

```

Array ITEM [max no: 50] {
  INT32 T subscription price i // Subscription, Price
  INT32 T interest rate i // Interest Rate
  UINT16 T commodity n // Commodity Code
  char[6] com id s // Underlying Identity
  char[12] isin code s // ISIN Code
  UINT16 T dec in price n // Decimals, Price
  char[8] date release s // Date, Issue
  char[8] date termination s // Date, Maturity
  char[8] date dated s // Date, Dated
  char[32] name s // Name
  char[3] base cur s // Currency, Trading
  UINT8 T deliverable c // Deliverable
  UINT16 T coupon frequency n // Coupon Frequency
  INT64 T nominal value q // Nominal Value
  UINT16 T day count n // Day Count
  UINT16 T days in interest year n // Days In Interest Year
  UINT32 T coupon interest i // Coupon Interest
  UINT16 T coupon settlement days n // Coupon Settlement Days
  UINT8 T underlying type c // Type, Underlying
  UINT8 T price unit c // Price Unit, Underlying
  UINT16 T dec in nominal n // Decimals, Nominal
  UINT16 T state number n // Trading State Number
  UINT16 T linked commodity n // Linked Commodity Code
  UINT8 T fixed income type c // Fixed Income Type
  UINT8 T underlying status c // Underlying Status
  char[6] underlying issuer s // Underlying Issuer
  char[6] time delivery start s // Time, Delivery Start
  char[6] time delivery stop s // Time, Delivery Stop
  char[4] sector code s // Sector Code
  UINT16 T items n // Items
  Array COUPON [max no: 80] {
    char[8] date coupdiv s // Coupon/Dividend Date
    UINT32 T dividend i // Dividend
  }
  UINT8 T virtual c // Virtual
  char[4] member circ numb s // Member, Circular Number
  CHAR inv scheme c // Investment Scheme
  char[8] date closing s // Date, Closing
  char[8] date last s // Date, Last
  char[2] country id s // Name, Country
  UINT8 T cur unit c // Currency Unit
  char[3] filler 3 s // Filler
}
}

```

### 3.1.19.7 Answer, comments

For each underlying a record is received and they are prefaced with a transaction type (DA4) and an Item field, specifying the number of records.

#### Trading State Number

will be 0 (zero) in the answer of DQ4. When distributing the underlying in the broadcast BU4 the Trading State Number contains the immediate ISS only. To get the immediate ISS use the UQ15 query.

#### Decimals, Price

are used to interpret the Price Information for the Underlying.

### 3.1.20 DQ6 [Broker Signatures QUERY]

#### 3.1.20.1 Fingerprint

QUERY properties	
transaction type	DQ6
calling sequence	omniapi_query_ex
struct name	query_broker
facility	EP0
partitioned	false
segmented	true
answers	DA6

ANSWER properties	
transaction type	DA6
struct name	answer_broker
segmented	true

#### 3.1.20.2 Purpose

The identity of each single person authorized for trading is registered at the Exchange at the Instrument Type or Instrument Class level. It is then possible for the customer to request this information for his own staff.

#### 3.1.20.3 Structure

The DQ6 QUERY has the following structure:

```

struct query_broker {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char\[2\] country id s // Name, Country
    char\[5\] ex customer s // Customer, Identity
    char\[3\] filler 3 s // Filler
}

```

### 3.1.20.4 Usage and Conditions

#### Series

Series may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.20.5 Answer Structure

The DA6 ANSWER has the following structure:

```

struct answer_broker {
    struct transaction type
    UINT16 T segment number n // Segment Number
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    CHAR filler 1 s // Filler
    UINT16 T items n // Items
    Array ITEM [max no: 50] {
        char[5] user id s // User
        UINT8 T program trader c // Program Trader
        UINT16 T cst id n // Customer Number
        UINT16 T usr id n // User, Number
        UINT16 T items n // Items
        Array ITEM [max no: 100] {
            struct series // Named struct no: 50000
        }
    }
}

```

### 3.1.20.6 Answer, comments

#### Series

Series in the answer can specify different levels of the instrument hierarchy. The user can be allowed to trade a number of both Instrument Types and Instrument Classes.

For an Instrument Type the Series structure is completed with Country, Market and Instrument Group.

For an Instrument Class the Series structure is completed with Country, Market, Instrument Group and Commodity.

For each broker at the customer, the broker ID and all legal instrument types it is authorized to trade in are returned. The response is prefaced with a Transaction Type (DA6) and an Item field specifying the number of records.

## 3.1.21 DQ7 [Market QUERY]

### 3.1.21.1 Fingerprint

QUERY properties	
transaction type	DQ7
calling sequence	omniapi_query_ex
struct name	query_market
facility	EP0
partitioned	false
segmented	true
answers	DA7

ANSWER properties	
transaction type	DA7
struct name	answer_market
segmented	true

### 3.1.21.2 Purpose

The purpose of this transaction is to retrieve markets for all tradable series in the system.

### 3.1.21.3 Structure

The DQ7 QUERY has the following structure:

```

struct query_market {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}

```

### 3.1.21.4 Usage and Conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code**.

### 3.1.21.5 Answer Structure

The DA7 ANSWER has the following structure:

```

struct answer_market {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT16 T normal trading days n // Normal Trading Days
        UINT16 T normal settl days n // Normal Settlement Days
        UINT16 T normal clearing days n // Normal Clearing Days
        UINT8 T country c // Country Number
        UINT8 T market c // Market Code
        char[32] name s // Name
        char[5] mar id s // Market, Identity
        UINT8 T market type c // Market, Type
        UINT8 T index market c // Index Market
        char[15] bic code s // BIC Code
        char[8] mic code s // MIC Code
        char[2] filler 2 s // Filler
    }
}

```

### 3.1.21.6 Answer, comments

The answer received contains a list of markets. Each response is prefaced with the transaction type (DA7) and an item field specifying the number of records contained in the response.

## 3.1.22 DQ8 [Instrument Group QUERY]

### 3.1.22.1 Fingerprint

QUERY properties	
transaction type	DQ8
calling sequence	omniapi_query_ex
struct name	query_instrument_group
facility	EP0
partitioned	false
segmented	true
answers	DA8

ANSWER properties	
transaction type	DA8
struct name	answer_instrument_group
segmented	true

### 3.1.22.2 Purpose

This transaction gets the valid instrument groups in binary format and their equivalent character representation.

### 3.1.22.3 Structure

The DQ8 QUERY has the following structure:

```
struct query_instrument_group {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.22.4 Usage and Conditions

#### Series

may be zeroed (all markets) or completed as Country Number and Market Code or a complete Instrument Type.

### 3.1.22.5 Answer Structure

The DA8 ANSWER has the following structure:

```
struct answer_instrument_group {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT16 T extended info n // Extended Information
        UINT8 T instrument group c // Instrument Group
        char[32] name s // Name
        char[3] ing id s // Instrument Group Identity
        UINT8 T group type c // Group, Type
        UINT8 T tailor made c // Tailor Made
        UINT8 T option type c // Option, Type
        UINT8 T option style c // Option, Style
        UINT8 T warrant c // Warrant
        UINT8 T average c // Average
        UINT8 T average period c // Average Period
        UINT8 T repo type c // Repo Type
        UINT8 T buy sell back c // Buy Sell Back
        UINT8 T synthetic type c // Type, Synthetic
        UINT8 T non traded ref c // Non Traded Reference
        UINT8 T future styled c // Option, Future Styled
        UINT8 T when issued c // When Issued
        UINT8 T is exclusive opening sell c // Exclusive Open Sell
        UINT8 T knock variant c // Knock Variant
        UINT8 T binary variant c // Option, Binary Variant
        UINT8 T option variant c // Option, Variant
        UINT8 T physical delivery c // Physical Delivery
        UINT8 T forward style c // Style, Forward
        UINT8 T swap style c // Style, Swap
        UINT8 T maturity c // Maturity
    }
}
```

```

char[15] group short name s // Short Name, Instrument Group
char[2] filler 2 s // Filler
    }
}
    
```

### 3.1.22.6 Answer, comments

The answer received contains a list of instrument groups.

## 3.1.23 DQ9 [Series Backoffice QUERY]

### 3.1.23.1 Fingerprint

QUERY properties	
transaction type	DQ9
calling sequence	omniapi_query_ex
struct name	query_series
facility	EP0
partitioned	false
segmented	true
answers	DA9

ANSWER properties	
transaction type	DA9
struct name	answer_series_bo
segmented	true

### 3.1.23.2 Related Messages

BU9

### 3.1.23.3 Purpose

The purpose of this transaction is to retrieve all existing series in the system, including expired ones and other non-tradable series, for example, payment series.

Note that the same ASCII-name may be returned for different combinations, but with different binary codes and different last trading date.

**Note:** Preferably, the more modern DQ125 should be used instead of DQ9 (Delta Queries and Broadcasts concept).



### 3.1.23.4 Structure

The DQ9 QUERY has the following structure:

```
struct query_series {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.23.5 Usage and conditions

#### Series

Series may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.23.6 Answer Structure

The DA9 ANSWER has the following structure:

```
struct answer_series_bo {
    struct transaction type
    char[8] date trading s // Date, Trading
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 330] {
        struct series // Named struct no: 50000
        struct upper_level series
        INT32 T contract size i // Contract Size
        INT32 T price quot factor i // Price, Quotation Factor
        UINT16 T state number n // Trading State Number
        char[32] ins id s // Series, Identity
        char[12] isin code s // ISIN Code
        UINT8 T stopped by issue c // Stopped By Issue
        char[12] isin code old s // ISIN Code, Old Series
        char[8] date notation s // Date, Notation
        char[8] date last trading s // Date, Last Trading
        char[6] time last trading s // Time, Last Trading
        char[8] date delivery start s // Date, Delivery Start
        char[8] date delivery stop s // Date, Delivery Stop
        UINT8 T deliverable c // Deliverable
        UINT8 T suspended c // Suspended
        UINT8 T series status c // Series, Status
        UINT8 T tm template c // Template Series
        UINT8 T tm series c // Tailor Made Series
        char[8] settlement date s // Date, Settlement
        char[8] start date s // Date, Start
        char[8] end date s // Date, End
        UINT8 T accept collateral c // Accepted as Collateral
        char[8] date first trading s // Date, First Trading
    }
}
```

```

char[6] time first trading s // Time, First Trading
UINT8 T traded in click c // Traded in GENIUM
UINT8 T traded c // Traded
char[8] effective exp date s // Effective Expiration Date
CHAR filler 1 s // Filler
    }
}

```

### 3.1.23.7 Answer, comments

The answer received contains a list of series. Each response is prefaced with the transaction type (DA9) and an item field specifying the number of records contained in the response.

#### Series

is returned regardless of the setting of the field `traded_in_click_c`.

#### Contract Size

This is the calculated contract size for the new series after an adjustment. For normal series (no adjustment) the Contract Size is 0. To receive the normal contract size and number of decimals, use DQ20.

#### Price Quotation Factor

This is the calculated Price Quotation Factor for the new series after an adjustment. For normal series (no adjustment) the Price Quotation Factor is 0. To receive the normal Price Quotation Factor and number of decimals, use DQ20.

#### Trading State Number

will be 0 when sent in this answer. It will contain the immediate ISS only when distributing the instrument series in the broadcast BU9. To get the immediate ISS use the UQ15 query.

#### Stopped by Issue

is 'Yes' for the old series after adjustment.

## 3.1.24 DQ10 [Instrument Class QUERY]

### 3.1.24.1 Fingerprint

QUERY properties	
transaction type	DQ10
calling sequence	omniapi_query_ex
struct name	query_instrument_class
facility	EP0
partitioned	false
segmented	true
answers	DA10

ANSWER properties	
transaction type	DA10
struct name	answer_instrument_class
segmented	true

### 3.1.24.2 Related Messages

BU10

### 3.1.24.3 Purpose

The purpose of this transaction is to retrieve instrument classes for all tradable series in the system, including combinations if any.

**Note:** Preferably, the more modern DQ122 should be used instead of DQ10 (Delta Queries and Broadcasts concept).

### 3.1.24.4 Structure

The DQ10 QUERY has the following structure:

```
struct query_instrument_class {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.24.5 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.24.6 Answer Structure

The DA10 ANSWER has the following structure:

```
struct answer_instrument_class {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 145] {
        struct series // Named struct no: 50000
        struct upper_level_series
        INT32 T price quot factor i // Price, Quotation Factor
        INT32 T contract size i // Contract Size
    }
}
```

```

INT32 T exerc limit i // Exercise, Limit
INT32 T redemption value i // Redemption Value
INT32 T min qty increment i // Minimum Quantity Increment
UINT16 T derivate level n // Derivate Level
UINT16 T dec in strike price n // Decimals, Strike Price
UINT16 T dec in contr size n // Decimals, Contract Size
UINT16 T rnt id n // Ranking Type
UINT16 T dec in premium n // Decimals, Premium
UINT16 T items n // Items
Array ITEM [max no: 12] {
    struct tick size
}
UINT16 T dec in deliv n // Decimals, Delivery
UINT16 T items block n // Item, Block
Array BLOCK_SIZE [max no: 4] {
    INT64 T maximum size u // Block Size, Maximum Volume
    UINT32 T minimum size n // Block Size, Minimum Volume
    UINT32 T block n // Block Size
    UINT8 T lot type c // Lot, Type
    char[3] filler 3 s // Filler
}
UINT16 T cleared dec in qty n // Decimals, Quantity
UINT16 T virt commodity n // Virtual Underlying
UINT16 T dec in fixing n // Decimals, Fixing
char[3] base cur s // Currency, Trading
UINT8 T traded c // Traded
UINT8 T exerc limit unit c // Exercise, Limit Unit
char[14] inc id s // Instrument Class, Identity
char[10] trc id s // Trade Report Class
char[32] name s // Name
CHAR is fractions c // Fraction, Premium
UINT8 T price format c // Premium/Price Format
UINT8 T strike price format c // Strike Price, Format
UINT8 T cabinet format c // Cabinet Format
UINT8 T price unit premium c // Price Unit, Premium
UINT8 T price unit strike c // Price Unit, Strike
char[32] settl cur id s // Currency, Settlement
char[3] credit class s // Credit Class
char[12] csd id s // CSD, Identity
UINT8 T trd cur unit c // Traded Currency Unit
UINT8 T collateral type c // Collateral types
UINT8 T fixing req c // FIXING REQ C
CHAR[2] mbs id s // Minimum Bid Schedule
char[12] valuation group id s // VAG, Identity ; Of type: VAG ID S
char[3] filler 3 s // Filler
}
}

```

### 3.1.24.7 Answer, comments

The answer received contains a list of classes. Each response is prefaced with the transaction type (DA10) and an item field specifying the number of records contained in the response.

#### Decimals, Contract Size

applies to the fields **Contract Size** and **Price Quotation Factor**.

### 3.1.25 DQ12 [Account Type QUERY]

#### 3.1.25.1 Fingerprint

QUERY properties	
transaction type	DQ12
calling sequence	omniapi_query_ex
struct name	query_account_type
facility	EP0
partitioned	false
segmented	true
answers	DA12

ANSWER properties	
transaction type	DA12
struct name	answer_account_type
segmented	true

#### 3.1.25.2 Related Messages

BU12

#### 3.1.25.3 Purpose

This query retrieves all existing account types in the system.

#### 3.1.25.4 Structure

The DQ12 QUERY has the following structure:

```

struct query_account_type {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
    
```

#### 3.1.25.5 Answer Structure

The DA12 ANSWER has the following structure:

```

struct answer_account_type {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        char[12] acc type s // Account Type
        char[40] description s // Description
        UINT8 T open close c // Open or Closed
        UINT8 T transitory c // Transitory
        UINT8 T market maker c // Market Maker
        UINT8 T own inventory c // Own Inventory
        UINT8 T exclusive opening sell c // Exclusive Opening Sell
        UINT8 T positions allowed c // Positions, Allowed
        UINT8 T trades allowed c // Trades, Allowed
        char[12] atr id s // Account Type Rule
        CHAR origin c // Origin, Account Type
    }
}

```

### 3.1.26 DQ13 [Account Fee Type QUERY]

#### 3.1.26.1 Fingerprint

QUERY properties	
transaction type	DQ13
calling sequence	omniapi_query_ex
struct name	query_account_fee_type
facility	EP0
partitioned	false
segmented	true
answers	DA13

ANSWER properties	
transaction type	DA13
struct name	answer_account_fee_type
segmented	true

#### 3.1.26.2 Related Messages

BU13

#### 3.1.26.3 Purpose

The purpose of this query is to get a description of all existing account fee types in the system.

### 3.1.26.4 Structure

The DQ13 QUERY has the following structure:

```
struct query_account_fee_type {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment_number n // Segment Number
    char[2] filler_2_s // Filler
}
```

### 3.1.26.5 Answer Structure

The DA13 ANSWER has the following structure:

```
struct answer_account_fee_type {
    struct transaction_type
    UINT16 T segment_number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        char[12] fee_type s // Account Fee Type
        char[40] description s // Description
    }
}
```

## 3.1.27 DQ14 [Underlying Adjustment QUERY]

### 3.1.27.1 Fingerprint

QUERY properties	
transaction type	DQ14
calling sequence	omniapi_query_ex
struct name	query_underlying_adjustment
facility	EP0
partitioned	false
segmented	true
answers	DA14

ANSWER properties	
transaction type	DA14
struct name	answer_underlying_adjustment
segmented	true

### 3.1.27.2 Purpose

The purpose of this query is to get information of underlying adjustments.

### 3.1.27.3 Structure

The DQ14 QUERY has the following structure:

```
struct query_underlying_adjustment {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char\[8\] date adjust s // Date, Adjust
    char\[2\] filler 2 s // Filler
}
```

### 3.1.27.4 Usage and Conditions

#### Date, Adjust

can be a historical date as well as the current date. However, only adjustments relevant for this date are returned in the answer.

### 3.1.27.5 Answer Structure

The DA14 ANSWER has the following structure:

```
struct answer_underlying_adjustment {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT16 T adjust ident n // Adjustment Identifier
        UINT16 T commodity n // Commodity Code
        char\[8\] date adjust s // Date, Adjust
        char\[8\] date conversion s // Date, Conversion
        UINT8 T deal price modifier c // Modifier, Deal Price
        UINT8 T contract size modifier c // Modifier, Contract Size
        UINT8 T strike price modifier c // Modifier, Strike Price
        UINT8 T contracts modifier c // Modifier, Number of Contracts
        UINT8 T und price modifier c // Modifier, Underlying Price
        UINT8 T so strike price modifier c // Modifier, Spin Off Strike Price
        UINT8 T so contract size modifier c // Modifier, Contract Size
        UINT8 T so deal price modifier c // Modifier, Spin Off Deal Price
        INT32 T deal price mod factor i // Modifier Factor, Deal Price
        INT32 T contr size mod factor i // Modifier Factor, Contract Size
        INT32 T strike price mod factor i // Modifier Factor, Strike Price
        INT32 T contracts mod factor i // Modifier Factor, Number of Contracts
        INT32 T und price mod factor i // Modifier Factor, Underlying Price
        INT32 T so strike price mod factor i // Modifier Factor, Spin Off Strike Price
    }
}
```



```

    INT32 T so contr size mod factor i // Modifier Factor, Spin Off Contract
    Size
    INT32 T so deal price mod factor i // Modifier Factor, Spin Off Deal
    Price
    INT32 T pqf mod factor i // Modifier Factor, Price Quotation Factor
    INT32 T so pqf mod factor i // Modifier Factor, Spin Off Price Quotation
    Factor
    UINT16 T new commodity n // Commodity Code, New
    UINT16 T so commodity n // Commodity code, Spin Off
    UINT8 T pqf modifier c // Modifier, Price Quotation Factor
    UINT8 T so pqf modifier c // Modifier, Spin Off Price Quotation Factor
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T so country c // Market, Spin Off
    UINT8 T so market c // Market, Spin Off
    UINT8 T adjusted c // Adjusted Series
    UINT8 T spinoff c // Spinoff
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array DELIVERY_CHANGE [max no: 20] {
        struct series // Named struct no: 50000
        INT32 T contract share i // Contract Share
    }
}
}
}

```

### 3.1.27.6 Answer, comments

**Adjustment identifier**

is a unique number for each adjustment. If different conditions for different types of series exist for one underlying adjustment, several adjustment identifiers exist.

**Series**

means the new delivery underlying.

**Contract Share**

is the total contract size. The number of decimals in the contract share is defined in the Instrument Class.

## 3.1.28 DQ15 [Converted Series QUERY]

### 3.1.28.1 Fingerprint

QUERY properties	
transaction type	DQ15
calling sequence	omniapi_query_ex
struct name	query_converted_series
facility	EP0

QUERY properties	
partitioned	false
segmented	true
answers	DA15

ANSWER properties	
transaction type	DA15
struct name	answer_converted_series
segmented	true

### 3.1.28.2 Purpose

The purpose of this query is to get a conversion table between old and new series after an underlying adjustment. If the adjustment includes a spin off, an extra item for each spin off series is added in the answer.

### 3.1.28.3 Structure

The DQ15 QUERY has the following structure:

```
struct query_converted_series {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    UINT16 T adjust ident n // Adjustment Identifier
}
```

### 3.1.28.4 Usage and Conditions

#### Adjustment Identifier

must be specified in the query. This is the unique identifier for the adjustment retrieved in DQ14.

### 3.1.28.5 Answer Structure

The DA15 ANSWER has the following structure:

```
struct answer_converted_series {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT16 T adjust ident n // Adjustment Identifier
        char[2] filler 2 s // Filler
        INT32 T contract size i // Contract Size
        INT32 T price quot factor i // Price, Quotation Factor
        struct old series
        struct new series
    }
}
```

```

    }
}

```

### 3.1.28.6 Answer, comments

If the adjustment includes a spin off, an extra item for each spin off series is added in the answer:

- Item 1: Old Series 1 New Calculated Series 1
- Item 2: Old Series 1 Spin Off Series 1
- Item 3: Old Series 2 New Calculated Series 2
- Item 4: Old Series 2 Spin Off Series 2

#### Series, Old

is the series before adjustment.

#### Series, New

is the series after adjustment.

#### Contract Size

is the new contract size after adjustment. The number of decimals in the contract size is defined in the instrument class.

## 3.1.29 DQ18 [Non-Trading Days QUERY]

### 3.1.29.1 Fingerprint

QUERY properties	
transaction type	DQ18
calling sequence	omniapi_query_ex
struct name	query_non_trading_days
facility	EP0
partitioned	false
segmented	true
answers	DA18

ANSWER properties	
transaction type	DA18
struct name	answer_non_trading_days
segmented	true

### 3.1.29.2 Related Messages

BU18

### 3.1.29.3 Purpose

This query returns information about non-trading and/or settlement days.

### 3.1.29.4 Structure

The DQ18 QUERY has the following structure:

```
struct query_non_trading_days {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.29.5 Usage and Conditions

**Note:**

Weekends (normally Saturdays and Sundays) are not included in the list if they are always closed. The normal trading and settlement days are returned in the answer of DQ7 or DQ23.

**Series**

may be zeroed (all markets) or completed as **Country Number** and **Market Code**.

### 3.1.29.6 Answer Structure

The DA18 ANSWER has the following structure:

```
struct answer_non_trading_days {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT8 T country c // Country Number
        UINT8 T market c // Market Code
        char[8] date non trading s // Date, Non Trading
        UINT8 T closed for trading c // Closed, trading
        UINT8 T closed for settlement c // Closed, settlement
        UINT8 T closed for clearing c // Closed, clearing
        char[3] filler 3 s // Filler
    }
}
```

### 3.1.30 DQ19 [Underlying Backoffice QUERY]

#### 3.1.30.1 Fingerprint

QUERY properties	
transaction type	DQ19
calling sequence	omniapi_query_ex
struct name	query_underlying
facility	EP0
partitioned	false
segmented	true
answers	DA19

ANSWER properties	
transaction type	DA19
struct name	answer_underlying
segmented	true

#### 3.1.30.2 Related Messages

BU19

#### 3.1.30.3 Purpose

The purpose of this transaction is to retrieve underlyings for all series in the system.

**Note:** Preferably, the more modern DQ121 should be used instead of DQ19 (Delta Queries and Broadcasts concept).

#### 3.1.30.4 Structure

The DQ19 QUERY has the following structure:

```
struct query_underlying {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.30.5 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.30.6 Answer Structure

The DA19 ANSWER has the following structure:

```

struct answer_underlying {
  struct transaction type
  UINT16 T segment number n // Segment Number
  UINT16 T items n // Items
  Array ITEM [max no: 50] {
    INT32 T subscription price i // Subscription, Price
    INT32 T interest rate i // Interest Rate
    UINT16 T commodity n // Commodity Code
    char[6] com id s // Underlying Identity
    char[12] isin code s // ISIN Code
    UINT16 T dec in price n // Decimals, Price
    char[8] date release s // Date, Issue
    char[8] date termination s // Date, Maturity
    char[8] date dated s // Date, Dated
    char[32] name s // Name
    char[3] base cur s // Currency, Trading
    UINT8 T deliverable c // Deliverable
    UINT16 T coupon frequency n // Coupon Frequency
    INT64 T nominal value q // Nominal Value
    UINT16 T day count n // Day Count
    UINT16 T days in interest year n // Days In Interest Year
    UINT32 T coupon interest i // Coupon Interest
    UINT16 T coupon settlement days n // Coupon Settlement Days
    UINT8 T underlying type c // Type, Underlying
    UINT8 T price unit c // Price Unit, Underlying
    UINT16 T dec in nominal n // Decimals, Nominal
    UINT16 T state number n // Trading State Number
    UINT16 T linked commodity n // Linked Commodity Code
    UINT8 T fixed income type c // Fixed Income Type
    UINT8 T underlying status c // Underlying Status
    char[6] underlying issuer s // Underlying Issuer
    char[6] time delivery start s // Time, Delivery Start
    char[6] time delivery stop s // Time, Delivery Stop
    char[4] sector code s // Sector Code
    UINT16 T items n // Items
    Array COUPON [max no: 80] {
      char[8] date coupdiv s // Coupon/Dividend Date
      UINT32 T dividend i // Dividend
    }
    UINT8 T virtual c // Virtual
    char[4] member circ numb s // Member, Circular Number
    CHAR inv scheme c // Investment Scheme
  }
}

```

```

char[8] date closing s // Date, Closing
char[8] date last s // Date, Last
char[2] country id s // Name, Country
UINT8 T cur unit c // Currency Unit
char[3] filler 3 s // Filler
    }
}

```

### 3.1.30.7 Answer, comments

For each underlying a record is received and they are prefaced with a transaction type (DA19) and an Item field, specifying the number of records.

#### Trading State Number

will be 0 (zero) in the answer of DQ19. When distributing the underlying in the broadcast BU19 the Trading State Number contains the immediate ISS only. To get the immediate ISS use the UQ15 query.

#### Decimals, Price

are used to interpret the Price Information for the Underlying.

## 3.1.31 DQ20 [Instrument Class Backoffice QUERY]

### 3.1.31.1 Fingerprint

QUERY properties	
transaction type	DQ20
calling sequence	omniapi_query_ex
struct name	query_instrument_class
facility	EP0
partitioned	false
segmented	true
answers	DA20

ANSWER properties	
transaction type	DA20
struct name	answer_instrument_class
segmented	true

### 3.1.31.2 Related Messages

BU20

### 3.1.31.3 Purpose

The purpose of this transaction is to retrieve instrument classes for all series in the system.

**Note:** Preferably, the more modern DQ123 should be used instead of DQ20 (Delta Queries and Broadcasts concept).

### 3.1.31.4 Structure

The DQ20 QUERY has the following structure:

```
struct query_instrument_class {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.31.5 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.31.6 Answer Structure

The DA20 ANSWER has the following structure:

```
struct answer_instrument_class {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 145] {
        struct series // Named struct no: 50000
        struct upper_level_series
        INT32 T price quot factor i // Price, Quotation Factor
        INT32 T contract size i // Contract Size
        INT32 T exerc limit i // Exercise, Limit
        INT32 T redemption value i // Redemption Value
        INT32 T min qty increment i // Minimum Quantity Increment
        UINT16 T derivate level n // Derivate Level
        UINT16 T dec in strike price n // Decimals, Strike Price
        UINT16 T dec in contr size n // Decimals, Contract Size
        UINT16 T rnt id n // Ranking Type
        UINT16 T dec in premium n // Decimals, Premium
        UINT16 T items n // Items
        Array ITEM [max no: 12] {
            struct tick size
        }
        UINT16 T dec in deliv n // Decimals, Delivery
    }
}
```



```

UINT16 T items block n // Item, Block
Array BLOCK_SIZE [max no: 4] {
  INT64 T maximum size u // Block Size, Maximum Volume
  UINT32 T minimum size n // Block Size, Minimum Volume
  UINT32 T block n // Block Size
  UINT8 T lot type c // Lot, Type
  char[3] filler 3 s // Filler
}
UINT16 T cleared dec in qty n // Decimals, Quantity
UINT16 T virt commodity n // Virtual Underlying
UINT16 T dec in fixing n // Decimals, Fixing
char[3] base cur s // Currency, Trading
UINT8 T traded c // Traded
UINT8 T exerc limit unit c // Exercise, Limit Unit
char[14] inc id s // Instrument Class, Identity
char[10] trc id s // Trade Report Class
char[32] name s // Name
CHAR is fractions c // Fraction, Premium
UINT8 T price format c // Premium/Price Format
UINT8 T strike price format c // Strike Price, Format
UINT8 T cabinet format c // Cabinet Format
UINT8 T price unit premium c // Price Unit, Premium
UINT8 T price unit strike c // Price Unit, Strike
char[32] settl cur id s // Currency, Settlement
char[3] credit class s // Credit Class
char[12] csd id s // CSD, Identity
UINT8 T trd cur unit c // Traded Currency Unit
UINT8 T collateral type c // Collateral types
UINT8 T fixing req c // FIXING REQ C
CHAR[2] mbs id s // Minimum Bid Schedule
char[12] valuation group id s // VAG, Identity ; Of type: VAG ID S
char[3] filler 3 s // Filler
}
}

```

### 3.1.31.7 Answer, comments

The answer received contains a list of classes. Each response is prefaced with the transaction type (DA20) and an item field specifying the number of records contained in the response.

#### Decimals, Contract Size

applies to the fields **Contract Size** and **Price Quotation Factor**.

## 3.1.32 DQ22 [Instrument Type Backoffice QUERY]

### 3.1.32.1 Fingerprint

QUERY properties	
transaction type	DQ22
calling sequence	omniapi_query_ex

QUERY properties	
struct name	query_instrument
facility	EP0
partitioned	false
segmented	true
answers	DA22

ANSWER properties	
transaction type	DA22
struct name	answer_instrument
segmented	true

### 3.1.32.2 Purpose

The purpose of this transaction is to retrieve all instrument types in the system.

### 3.1.32.3 Structure

The DQ22 QUERY has the following structure:

```
struct query_instrument {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.32.4 Usage and conditions

#### Series

may be zeroed (all markets) or completed as **Country Number** and **Market Code** or a complete **Instrument Type**.

### 3.1.32.5 Answer Structure

The DA22 ANSWER has the following structure:

```
struct answer_instrument {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        struct series // Named struct no: 50000
        UINT32 T min show vol u // Order, Min Show Volume
        UINT16 T hidden vol meth n // Method, Hidden Volume
    }
}
```

```

    UINT16 T pub inf id n // Public Order Info
    char[8] int id s // Instrument, Identity
    char[32] name s // Name
    UINT8 T maintain positions c // Maintain Positions
    UINT8 T traded c // Traded
    UINT8 T post trade proc c // Post Trade processed
    UINT8 T pos handling c // Position handling
    UINT8 T directed trade information c // Directed Trade Information
    UINT8 T public deal information c // Public Deal Information
    char[2] filler 2 s // Filler
  }
}

```

### 3.1.32.6 Answer, comments

The answer received contains a list of types. Each response is prefaced with the transaction type (DA22) and an item field specifying the number of records contained in the response.

## 3.1.33 DQ23 [Market Backoffice QUERY]

### 3.1.33.1 Fingerprint

QUERY properties	
transaction type	DQ23
calling sequence	omniapi_query_ex
struct name	query_market
facility	EP0
partitioned	false
segmented	true
answers	DA23

ANSWER properties	
transaction type	DA23
struct name	answer_market
segmented	true

### 3.1.33.2 Purpose

The purpose of this query is to retrieve markets for all series in the system.

### 3.1.33.3 Structure

The DQ23 QUERY has the following structure:

```

struct query_market {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
    
```

### 3.1.33.4 Usage and Conditions

**Series**

may be zeroed (all markets) or completed as **Country Number** and **Market Code**.

### 3.1.33.5 Answer Structure

The DA23 ANSWER has the following structure:

```

struct answer_market {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        UINT16 T normal trading days n // Normal Trading Days
        UINT16 T normal settl days n // Normal Settlement Days
        UINT16 T normal clearing days n // Normal Clearing Days
        UINT8 T country c // Country Number
        UINT8 T market c // Market Code
        char[32] name s // Name
        char[5] mar id s // Market, Identity
        UINT8 T market type c // Market, Type
        UINT8 T index market c // Index Market
        char[15] bic code s // BIC Code
        char[8] mic code s // MIC Code
        char[2] filler 2 s // Filler
    }
}
    
```

### 3.1.33.6 Answer, comments

The answer received contains a list of markets. Each response is prefaced with the transaction type (DA23) and an item field specifying the number of records contained in the response.

## 3.1.34 DQ24 [Exchange QUERY]

### 3.1.34.1 Fingerprint

QUERY properties	
transaction type	DQ24
calling sequence	omniapi_query_ex

QUERY properties	
struct name	query_exchange_dq24
facility	EP0
partitioned	false
segmented	true
answers	DA24

ANSWER properties	
transaction type	DA24
struct name	answer_exchange_da24
segmented	true

### 3.1.34.2 Purpose

This query provides information on all exchanges in the system.

### 3.1.34.3 Structure

The DQ24 QUERY has the following structure:

```
struct query_exchange_dq24 {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.34.4 Usage and conditions

#### Series

must be zeroed.

### 3.1.34.5 Answer Structure

The DA24 ANSWER has the following structure:

```
struct answer_exchange_da24 {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        struct da24 {
            UINT8 T country c // Country Number
            CHAR opr indicator c // OPRA Indicator
            char[32] name s // Name
        }
    }
}
```

```

char[4] exchange short s // Exchange, Short Name
char[2] country id s // Name, Country
char[40] tz exchange s // Time Zone, Exchange
char[12] master clh id s // Master CLH, Identity
char[2] country s // Country
char[8] date implementation s // Date, Implementation
char[2] filler 2 s // Filler
    }
}
}

```

### 3.1.34.6 Answer, comments

The answer received contains a list of exchanges. Each response is prefaced with the Transaction Type (DA24) and an Item field specifying the number of records included in the response.

## 3.1.35 DQ44 [Legal Account Instrument QUERY]

### 3.1.35.1 Fingerprint

QUERY properties	
transaction type	DQ44
calling sequence	omniapi_query_ex
struct name	query_legal_account_instrument
facility	EP0
partitioned	false
segmented	true
answers	DA44

ANSWER properties	
transaction type	DA44
struct name	copy_list_gen
segmented	false

### 3.1.35.2 Purpose

This query returns a list of Account Types. Account Types are used to classify different accounts in GENIUM INET Clearing.

### 3.1.35.3 Structure

The DQ44 QUERY has the following structure:

```

struct query_legal_account_instrument {

```

```

struct transaction type
struct series // Named struct no: 50000
UINT16 T segment number n // Segment Number
char[2] filler 2 s // Filler
}
    
```

### 3.1.35.4 Answer Structure

The DA44 ANSWER has the following structure:

```

struct copy_list_gen {
    struct transaction type
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 50] {
        struct ucl_gen {
            char[2] country id s // Name, Country
            char[5] ex customer s // Customer, Identity
            CHAR filler 1 s // Filler
            UINT16 T copies n // COPIES N
            Array RECIPIENT [max no: 100] {
                struct user code
            }
        }
    }
}
    
```

## 3.1.36 DQ45 [Trade Report Type QUERY]

### 3.1.36.1 Fingerprint

QUERY properties	
transaction type	DQ45
calling sequence	omniapi_query_ex
struct name	query_trade_report_types
facility	EP0
partitioned	false
segmented	true
answers	DA45

ANSWER properties	
transaction type	DA45
struct name	answer_trade_report_types
segmented	true

### 3.1.36.2 Purpose

This query is used to retrieve all trade report types.

### 3.1.36.3 Structure

The DQ45 QUERY has the following structure:

```
struct query_trade_report_types {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.36.4 Usage and conditions

#### Series

has no implication on the selection of items returned. All available trade report types are returned.

### 3.1.36.5 Answer Structure

The DA45 ANSWER has the following structure:

```
struct answer_trade_report_types {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 200] {
        INT64 T initial trr min value u // Initial Trade Report, Minimum Order
        Value.
        char[10] trc id s // Trade Report Class
        char[4] trr id s // Trade Report, Identity
        char[32] condition s // Trade Report Description
        UINT8 T authorized c // Authorized
        UINT8 T ext t state c // Trade Report Type
        UINT8 T allow interbank c // Allow interbank
        UINT8 T allow within participant c // Allow within participant
        UINT8 T cbo trade report c // Combo Trade Report
        UINT8 T allow non std settlement c // Allow non standard settlement
        UINT8 T time of agree req c // Time of agreement required
        UINT8 T time of agree gran c // Time of agreement granularity
        char[2] filler 2 s // Filler
    }
}
```

### 3.1.36.6 Answer, comments

After a successful DQ45, information about Trade Report Types is returned to the sender.



## 3.1.37 DQ46 [Deal Source QUERY]

### 3.1.37.1 Fingerprint

QUERY properties	
transaction type	DQ46
calling sequence	omniapi_query_ex
struct name	query_deal_source
facility	EP0
partitioned	false
segmented	true
answers	DA46

ANSWER properties	
transaction type	DA46
struct name	answer_deal_source
segmented	true

### 3.1.37.2 Purpose

The purpose of this transaction is to receive all available deal sources.

### 3.1.37.3 Structure

The DQ46 QUERY has the following structure:

```
struct query_deal_source {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.1.37.4 Answer Structure

The DA46 ANSWER has the following structure:

```
struct answer_deal_source {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        INT64 T ds attribute q // Deal Source Attribute
        INT16 T deal source n // Deal Source
    }
}
```

```

    char[128] desc long s // Description, Long
    char[32] desc abbreviated s // Description, Abbreviated
    char[2] filler 2 s // Filler
  }
}

```

### 3.1.37.5 Answer, comments

The answer received contains a list of all available deal sources. Each response is prefaced with the transaction type (DA46).

## 3.1.38 DQ78 [Exception Days QUERY]

### 3.1.38.1 Fingerprint

QUERY properties	
transaction type	DQ78
calling sequence	omniapi_query_ex
struct name	query_exception_days
facility	EP0
partitioned	false
segmented	true
answers	DA78

ANSWER properties	
transaction type	DA78
struct name	answer_exception_days
segmented	true

### 3.1.38.2 Related Messages

BU78

### 3.1.38.3 Purpose

The purpose of this query is to retrieve the exception days defined on Market, Instrument Type and Instrument Class level.

### 3.1.38.4 Structure

The DQ78 QUERY has the following structure:

```

struct query_exception_days {
    struct transaction type

```

```

struct series // Named struct no: 50000
UINT16 T segment number n // Segment Number
char[2] filler 2 s // Filler
}

```

### 3.1.38.5 Usage and conditions

An exception day is a day when an alternative Trading Session is used instead of the normal trading session. An exception day can also define that the market is open on a weekday that normally is closed.

#### Series

Series should be null-filled to retrieve all exception days for all markets, instrument types and instrument classes.

Series should be filled with Country and Market to retrieve all exception days for all markets, instrument types and instrument classes that are connected to the specified market.

### 3.1.38.6 Answer Structure

The DA78 ANSWER has the following structure:

```

struct answer_exception_days {
  struct transaction_type
  UINT16 T segment number n // Segment Number
  UINT16 T items n // Items
  Array ITEM [max no: 500] {
    struct series // Named struct no: 50000
    char[8] date exception s // Date, Exception
  }
}

```

### 3.1.38.7 Answer, comments

The answer received contains a list of exception days and series where series can represent a market, an instrument type or an instrument class.

One item is sent for each combination of series and exception day.

Each response is prefaced with the Transaction Type (DA78) and an item field specifying the number of records contained in the response.

## 3.1.39 DQ120 [Delta Underlying QUERY]

### 3.1.39.1 Fingerprint

QUERY properties	
transaction type	DQ120
calling sequence	omniapi_query_ex
struct name	query_delta

QUERY properties	
facility	EP0
partitioned	false
segmented	true
answers	DA120

VIA properties	
transaction type	DA120
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.39.2 Related Messages

BU120

### 3.1.39.3 Purpose

The Delta Underlying Query is used to retrieve information about a new underlying or an underlying that has been changed.

### 3.1.39.4 Concept of Delta Queries and Broadcasts

The first time the user sends the delta query a full answer is needed, since the user does not have any stored instrument data. To receive a full answer, the Download Reference Number in the query is sent with NO\_VALUE (equals to any negative integer, for example -1). The answer contains the latest Download Reference Number for the query.

The next time the user logs in, the previous delta sequence number is incremented by one and sent with the query (if only the delta is requested).

Each record in the answer is indicated with an operation that guides the client to Insert, Update, or Remove the item. A removal item for expired Option Instrument Series may contain a wildcard in Strike Price. The client application should remove all series that maps to the Instrument Class and Expiration Date.

Note: The operation is according to the back-end view of the data. Consequently, the client application should handle the following:

1. An Insertion can be received for an existing item. This should be treated as an Update.
2. An Update can be received for a non-existing item. This should be treated as an Insert.
3. A Removal can be received for a non-existing item. This should be ignored.

When sending the query, the client can choose to either query for a full answer or to receive only the delta since last login.

During certain circumstances, the back-end may enforce a full answer even though a delta was requested. This must be handled by the client.

In a full answer the operation will always be sent as Insert.

When querying for instrument data, only instruments defined in the allowed list for the user/participant are returned in the answer. If this setup of allowed instruments is changed, either by removing or adding new instruments, the central system cannot detect this easily from the sequence number.

Therefore when a delta query is received, the system checks if the setup has been changed since the last time the user logged in (this is detected from the Download Reference Number sent in the query). If that is the case, a full answer is returned together with a field in the answer header that indicates that a full answer is received.

The full answer is required to be returned to the user only the first time the user sends the query after a change of the instrument access. Therefore the full answer time-stamp in the query is compared to the actual time-stamp of latest change of allowed instruments. If the full answer time-stamp is after the latest change, a full answer is not distributed again.

#### *Example*

Assume the highest Download reference number both in the central system and the api client, is 10.

1. Legal Instrument is changed in the central system with implementation time = T1.
2. The front-end api client sends a delta query with Download Reference Number 11 (=10+1) and a time-stamp (T0) of latest received full answer.
3. The central system compares the time-stamp T0 with implementation time T1. Apparently, the legal instruments are changed since latest full answer ( $T1 > T0$ ), and a full answer is returned with Download reference number =10 and a new Full answer Time-stamp (T2, with current UTC time).
4. The next day the user logs in again using Download Reference Number 11, but this time with the new time-stamp, T2.
5. Assume the central system has now on its side the highest Download Reference Number =13 since some records have changed (but assuming no changes in legal instrument, that is T1 is still the latest implementation time).
6. The central system compares the time-stamp T2 with implementation time T1. Since the time-stamp T2 is after the latest change in legal instrument, the delta answer returns the delta with Download Reference Number =13 and the previous time-stamp (T2).

### 3.1.39.5 Structure

The DQ120 QUERY has the following structure:

[struct query delta](#)

### 3.1.39.6 Usage and Conditions

#### **Full Answer Timestamp**

The timestamp is mandatory in the query. If it is missing or does not have a valid format, a full answer is distributed.

#### **Download Reference Number**

is used for synchronisation of the information sent from the central system. The api client must keep track of the highest number for which delta information is received. This number is distributed both in answers

to explicitly put delta queries, as well as distributed in delta broadcasts. When putting a delta query this number is incremented by one and included in the query.

### 3.1.39.7 Answer Structure

The DA120 VIA has the following structure:

```

struct answer segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns_delta_header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct ns_remove // Named struct no: 37002
            struct ns_underlying_basic // Named struct no: 37201
            struct ns_fixed_income // Named struct no: 37202
            struct ns_coupon_dates // Named struct no: 37203
            struct ns_index_linked // Named struct no: 37204
            struct ns_underlying_power // Named struct no: 37206
            struct ns_underlying_ext3 // Named struct no: 37209
            struct ns_reference_rate // Named struct no: 37210
            struct ns_index_value // Named struct no: 37211
            struct ns_lottery_bonds // Named struct no: 37212
            struct ns_convertibles // Named struct no: 37213
            struct ns_derived_from // Named struct no: 37214
        }
    }
}

```

### 3.1.39.8 Answer, comments

Query DQ120 will return all underlyings regardless of Status (active or suspended).

This query and the related queries listed in “Related Messages” above support a delta concept where the client application keeps track of the latest received item (Download Reference Number) and uses this number incremented with one the next time the query is sent. This means that the answer of the next query only will contain any changes that have occurred since the previous query.

#### Full Answer Timestamp

will contain the time (UTC) when a full answer was sent the last time. Consequently, if the current answer is a full answer, this time is update as compared to the time sent in the query.

#### Download Reference Number

is used for synchronisation of the information sent from the central system. The api client must keep track of the highest number for which delta information is received. This number is distributed both in answers to delta queries, as well as in delta broadcasts.

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.1.40 DQ121 [Delta Underlying for Back Office QUERY]

### 3.1.40.1 Fingerprint

QUERY properties	
transaction type	DQ121
calling sequence	omniapi_query_ex
struct name	query_delta
facility	EP0
partitioned	false
segmented	true
answers	DA121

VIA properties	
transaction type	DA121
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.40.2 Related Messages

BU121

### 3.1.40.3 Purpose

The Delta Underlying for Back Office query is used to retrieve information about a new Delta Underlying or a Delta Underlying that has been changed.

### 3.1.40.4 Structure

The DQ121 QUERY has the following structure:

[struct query\\_delta](#)

### 3.1.40.5 Usage and Conditions

The Delta Underlying for Back Office query DQ121 returns all instrument classes regardless of Traded (Yes or No).

For a detailed description of how to use this query and a general information on the content of broadcasts and answers to queries, please see section **DQ120**.

### 3.1.40.6 Answer Structure

The DA121 VIA has the following structure:

```

struct answer segment_hdr
struct item_hdr
struct sub_item_hdr
struct ns_delta_header // Named struct no: 37001
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct ns_remove // Named struct no: 37002
            struct ns_underlying_basic // Named struct no: 37201
            struct ns_fixed_income // Named struct no: 37202
            struct ns_coupon_dates // Named struct no: 37203
            struct ns_index_linked // Named struct no: 37204
            struct ns_underlying_power // Named struct no: 37206
            struct ns_underlying_ext3 // Named struct no: 37209
            struct ns_reference_rate // Named struct no: 37210
            struct ns_index_value // Named struct no: 37211
            struct ns_lottery_bonds // Named struct no: 37212
            struct ns_convertibles // Named struct no: 37213
            struct ns_derived_from // Named struct no: 37214
        }
    }
}

```

### 3.1.40.7 Answer, comments

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.1.41 DQ122 [Delta Instrument Class QUERY]

### 3.1.41.1 Fingerprint

QUERY properties	
transaction type	DQ122
calling sequence	omniapi_query_ex
struct name	query_delta
facility	EP0
partitioned	false
segmented	true
answers	DA122



VIA properties	
transaction type	DA122
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.41.2 Related Messages

BU122

### 3.1.41.3 Purpose

Instrument class query is used to retrieve information about a new Instrument Class or an Instrument Class that has been changed.

### 3.1.41.4 Structure

The DQ122 QUERY has the following structure:

```
struct query\_delta
```

### 3.1.41.5 Usage and Conditions

Instrument class query DQ122 returns all instrument classes regardless of Traded (Yes or No) when a delta is returned. In the case of a full answer only classes denoted as Traded=yes are returned.

For a detailed description of how to use this query and a general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

### 3.1.41.6 Answer Structure

The DA122 VIA has the following structure:

```
struct answer\_segment\_hdr
struct item\_hdr
struct sub\_item\_hdr
struct ns\_delta\_header // Named struct no: 37001
Sequence {
  struct item\_hdr
  Sequence {
    struct sub\_item\_hdr
    Choice {
      struct ns\_remove // Named struct no: 37002
      struct ns\_inst\_class\_basic // Named struct no: 37101
      struct ns\_price\_tick // Named struct no: 37102
      struct ns\_block\_size // Named struct no: 37103
      struct ns\_calc\_rule // Named struct no: 37104
      struct ns\_inst\_class\_secur // Named struct no: 37105
      struct ns\_inst\_class\_leg\_calc\_rule // Named struct no: 37115
      struct ns\_price\_tick\_corr // Named struct no: 37113
    }
  }
}
```

```

    }
  }
}

```

### 3.1.41.7 Answer, comments

When there are multiple tick sizes for a class, the named structure no: 37102 (**NS Price Tick**) is repeated.

For **NS Price Tick**, the instrument is traded in price or yield. **NS Price Tick Corr** gives the corresponding price if the trade is in yield, or the corresponding yield if the trade is in price.

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.1.42 DQ123 [Delta Instrument Class for Back Office QUERY]

### 3.1.42.1 Fingerprint

QUERY properties	
transaction type	DQ123
calling sequence	omniapi_query_ex
struct name	query_delta
facility	EP0
partitioned	false
segmented	true
answers	DA123

VIA properties	
transaction type	DA123
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.42.2 Related Messages

BU123

### 3.1.42.3 Purpose

Instrument class query is used to retrieve information about a new Instrument Class or an Instrument Class that has been changed.

### 3.1.42.4 Structure

The DQ123 QUERY has the following structure:

[struct query delta](#)

### 3.1.42.5 Usage and Conditions

Instrument class query DQ123 (Back Office variant) returns all instrument classes regardless of Traded (Yes or No).

For a detailed description of how to use this query and a general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

### 3.1.42.6 Answer Structure

The DA123 VIA has the following structure:

```

struct answer segment\_hdr
struct item\_hdr
struct sub item\_hdr
struct ns\_delta\_header // Named struct no: 37001
Sequence {
  struct item\_hdr
  Sequence {
    struct sub item\_hdr
    Choice {
      struct ns\_remove // Named struct no: 37002
      struct ns\_inst\_class\_basic // Named struct no: 37101
      struct ns\_price\_tick // Named struct no: 37102
      struct ns\_block\_size // Named struct no: 37103
      struct ns\_calc\_rule // Named struct no: 37104
      struct ns\_inst\_class\_secur // Named struct no: 37105
      struct ns\_inst\_class\_leg\_calc\_rule // Named struct no: 37115
      struct ns\_price\_tick\_corr // Named struct no: 37113
    }
  }
}

```

### 3.1.42.7 Answer, comments

For **NS Price Tick**, the instrument is traded in price or yield. **NS Price Tick Corr** gives the corresponding price if the trade is in yield, or the corresponding yield if the trade is in price.

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.1.43 DQ124 [Delta Instrument Series QUERY]

### 3.1.43.1 Fingerprint

QUERY properties	
transaction type	DQ124
calling sequence	omniapi_query_ex
struct name	query_delta

QUERY properties	
facility	EP0
partitioned	false
segmented	true
answers	DA124

VIA properties	
transaction type	DA124
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.43.2 Related Messages

BU124

### 3.1.43.3 Purpose

Instrument series query is used to retrieve information about a new Instrument Series or an Instrument Series that has been changed.

### 3.1.43.4 Structure

The DQ124 QUERY has the following structure:

[struct query delta](#)

### 3.1.43.5 Usage and Conditions

Instrument series query DQ124 returns all instrument series regardless of Last Trade Date, Traded (Yes or No), and Status (Active or Suspended) when a delta is returned. In the case of a full answer only series denoted as Traded=yes and with Last Trading Date in the future are returned.

For a detailed description of how to use this query and a general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

When querying for Instrument Series and the operation is Remove, the binary representation may contain wildcard. For single series the only possible field that may contain wildcard in the series binary code is Strike Price.

### 3.1.43.6 Answer Structure

The DA124 VIA has the following structure:

[struct answer segment\\_hdr](#)  
[struct item\\_hdr](#)  
[struct sub item\\_hdr](#)

```

struct ns delta header // Named struct no: 37001
Sequence {
  struct item hdr
  Sequence {
    struct sub item hdr
    Choice {
      struct ns remove // Named struct no: 37002
      struct ns inst series basic // Named struct no: 37301
      struct ns inst series basic single // Named struct no: 37302
      struct ns inst series power // Named struct no: 37303
      struct ns inst series repo // Named struct no: 37304
      struct ns inst series leg flow // Named struct no: 37309
    }
  }
}

```

### 3.1.43.7 Answer, comments

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.1.44 DQ125 [Delta Instrument Series for Back Office QUERY]

### 3.1.44.1 Fingerprint

QUERY properties	
transaction type	DQ125
calling sequence	omniapi_query_ex
struct name	query_delta
facility	EP0
partitioned	false
segmented	true
answers	DA125

VIA properties	
transaction type	DA125
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	true

### 3.1.44.2 Related Messages

BU125

### 3.1.44.3 Purpose

Instrument series query is used to retrieve information about a new Instrument Series or an Instrument Series that has been changed.

### 3.1.44.4 Structure

The DQ125 QUERY has the following structure:

```
struct query delta
```

### 3.1.44.5 Usage and Conditions

Instrument series query DQ125 (Back Office variant) will return all series regardless of Last Trade Date, Traded (Yes or No), and Status (Active or Suspended).

For a detailed description of how to use this query and a general information on the content of broadcasts and answers to queries, refer to section **DQ120**.

When querying for Instrument Series and the operation is Remove, the binary representation may contain wildcard. For single series the only possible field that may contain wildcard in the series binary code is Strike Price.

### 3.1.44.6 Answer Structure

The DA125 VIA has the following structure:

```
struct answer segment hdr
struct item hdr
struct sub item hdr
struct ns delta header // Named struct no: 37001
Sequence {
    struct item hdr
    Sequence {
        struct sub item hdr
        Choice {
            struct ns remove // Named struct no: 37002
            struct ns inst series basic // Named struct no: 37301
            struct ns inst series basic single // Named struct no: 37302
            struct ns inst series power // Named struct no: 37303
            struct ns inst series repo // Named struct no: 37304
            struct ns inst series bo // Named struct no: 37306
            struct ns inst series leg flow // Named struct no: 37309
        }
    }
}
```

### 3.1.44.7 Answer, comments

The NS\_DELTA\_HEADER structure will be the first item of the variable items.

## 3.2 Market Status

### 3.2.1 BI1 [Resumption and Suspension of Trading BROADCAST]

#### 3.2.1.1 Fingerprint

BROADCAST properties	
transaction type	BI1
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	suspend_resume_trading
info type	general

#### 3.2.1.2 Purpose

This subscription returns information related to suspended trading for a certain commodity as well as information when trading will start.

#### 3.2.1.3 Structure

The BI1 BROADCAST has the following structure:

```
struct suspend_resume_trading {
    struct broadcast_type
    UINT16 T_commodity_n // Commodity Code
    UINT8 T_on_off_c // On or Off
    CHAR filler_1_s // Filler
}
```

### 3.2.2 BI41 [Instrument Status Information BROADCAST]

#### 3.2.2.1 Fingerprint

BROADCAST properties	
transaction type	BI41
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	instrument_status_info
info type	general

### 3.2.2.2 Purpose

The Instrument Status Information broadcast consists of the status for a market, an instrument type, an instrument class, series or an underlying. It is sent at the actual change and as a warning before the state changes. The variable “State Change, Seconds” tells whether it is a warning or a state change. Value larger than zero means a warning.

### 3.2.2.3 Structure

The BI41 BROADCAST has the following structure:

```

struct instrument_status_info {
    struct broadcast_type
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 9] {
        struct series // Named struct no: 50000
        UINT16 T seconds to state change n // State Change, Seconds
        UINT16 T state number n // Trading State Number
        char[80] warning msg s // Warning Message
        UINT16 T state level e // Level
        char[8] actual start date s // Actual Start Date
        char[6] actual start time s // Actual Start Time
        char[8] next planned start date s // Planned Start Date, Next
        char[6] next planned start time s // Planned Start Time, Next
        char[2] filler 2 s // Filler
    }
}
    
```

### 3.2.2.4 Usage and Conditions

A **trading session state** is configurable on market level, instrument type level or instrument class level.

An **instrument session state** is configurable on instrument series level or underlying level.

The Query Instrument Status transaction is used as recovery for this broadcast, see UQ15 (Instrument Status Query).

#### Series

Series should be completed according to the table below to be able to identify a specific Market, Instrument Type, Instrument Class, Series or Underlying.

What to identify	Complete the following fields
Market	Country Number Market Code
Instrument Type	Country Number Market Code Instrument Group
Instrument Class	Country Number Market Code



What to identify	Complete the following fields
	Instrument Group Commodity Code
Series	Country Number Market Code Instrument Group Commodity Code Expiration Date Price, Strike
Underlying	Commodity Code

**Expiration Date**  
**Strike Price**

can in some cases be zero for a series.

**Trading State Number**

can have the value of zero, only for trading state changes on series and underlying level. The meaning of this is that the trading state is no longer set on series level, and the series level inherits the trading state from the level above.

**Level**

The Level field is supplied as a means to separate an instrument class from a series.

If, for example, the value 2 is sent in, only session states set on Instrument Type will be returned.

**Seconds to State Change**

may have a value other than zero, e.g. for trading state changes on series level or for warning messages.

## 3.2.3 UQ15 [Instrument Status QUERY]

### 3.2.3.1 Fingerprint

QUERY properties	
transaction type	UQ15
calling sequence	omniapi_query_ex
struct name	query_instrument_status
facility	EP1
partitioned	false
answers	UA15

ANSWER properties	
transaction type	UA15

ANSWER properties	
struct name	answer_instrument_status
segmented	true

### 3.2.3.2 Purpose

The query returns the status for a Market, Instrument Type, Instrument Class, Series and Underlying or for all instrument levels.

### 3.2.3.3 Structure

The UQ15 QUERY has the following structure:

```

struct query_instrument_status {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    UINT16 T state level e // Level
}
    
```

### 3.2.3.4 Usage and Conditions

The query search the parameters set in the Series and the Level parameters.

The instrument status is updated by the BI41 broadcast.

More information about the trading session handling is found in section “Trading Session” in *OMnet Message Reference, Introduction*.

#### Series

Series should be completed according to the table below to be able to identify a specific Market, Instrument Type, Instrument Class, Series or Underlying.

Any of the fields filled with binary zero, is regarded as wildcard for that field. If all fields in the series are filled with binary zeroes, the complete instrument status for all markets, instrument types, instrument classes, series and underlyings will be returned. Expiration date and Strike price can in some cases be zero for a series.

What to identify	Complete the following fields
Market	Country Number Market Code
Instrument Type	Country Number Market Code Instrument Group
Instrument Class	Country Number Market Code Instrument Group Commodity Code

What to identify	Complete the following fields
Series	Country Number Market Code Instrument Group Commodity Code Expiration Date Price, Strike
Underlying	Commodity Code

**Level**

The Level field is supplied as a means to separate an instrument class from a series.

If, for example, the value 2 is sent in, only session states set on instrument type will be returned.

**3.2.3.5 Return Codes**

After a successful UQ15 query, a list of instrument status is returned to the sender.

A UQ15 transaction may also be aborted. In that case, only the reason for the transaction being aborted is returned to the sender.

Cstatus	txstat	Ordidt	rcvbuf
Successful	Normal	-	list of parameters - see below
Transaction aborted	Error number that is translated by the OMnet routine get_error_message	-	-

Please refer to *System Error Messages Reference* for details about why transactions are aborted.

**3.2.3.6 Answer Structure**

The UA15 ANSWER has the following structure:

```

struct answer_instrument_status {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 1000] {
        struct series // Named struct no: 50000
        UINT16 T state number n // Trading State Number
        UINT16 T state level e // Level
    }
}
    
```

**3.2.3.7 Answer, comments**

**Series**

Series, completed with one of the following:

Market	Country Number Market Code
Instrument Type	Country Number Market Code Instrument Group
Instrument Class	Country Number Market Code Instrument Group Commodity Code
Series	Country Number Market Code Instrument Group Commodity Code Expiration Date Price, Strike
Underlying	Commodity Code

**Segment Number**

To get the next segments increase the segment number by one. The Segment Number is set to zero in the answer if there is no more to fetch.

### 3.3 Trade and Position Management

#### 3.3.1 BD6 [Dedicated Trade Information VIB]

##### 3.3.1.1 Fingerprint

VIB properties	
transaction type	BD6
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
info type	dedicated

##### 3.3.1.2 Related Messages

CQ10

CQ11

### 3.3.1.3 Purpose

This is a dedicated trade broadcast distributed to the participants in real-time. The contents of the broadcast is exchange specific.

### 3.3.1.4 Structure

The BD6 VIB has the following structure:

```

struct broadcast_hdr
Sequence {
  struct sub_item_hdr
  Choice {
    struct cl_trade_base_api // Named struct no: 3
    struct cl_trade_secur_part // Named struct no: 20
  }
}

```

### 3.3.1.5 Usage and Conditions

This is a variable broadcast.

The first structure after the header part is always `cl_trade_base_api`. In addition to that, none or several structures can follow; each preceded by a header.

On systems using BD6 the queries CQ10 and CQ11 are used in conjunction to recover trades.

When retrieving trades disseminated with BD6, the actual data structure is a sequence starting with:

- `cl_trade_base_api` (named struct no = 3)

### 3.3.1.6 Structure Contents

#### Exchange Info

is equivalent to the Passthrough Information field in `cl_trade_api`.

#### Date, As of and Time, As of

fields contain information about when the deal was closed or the original trade was registered (in case of rectify or overtaking trade). It is the same data as Time Stamp, last change, but in “business time” format.

#### Time Stamp, last change

contains date and time the deal was closed, propagated from the MP subsystem (VMS format).

#### Sequence Number

is assigned each broadcast to allow for a recipient to verify that no trade broadcasts are lost and to indicate the order in which they were sent. The sequence number is unique per participant and instrument type, meaning that the same trade has different sequence numbers for different recipients.

## 3.3.2 BD18 [Dedicated Delivery BROADCAST]

### 3.3.2.1 Fingerprint

BROADCAST properties	
transaction type	BD18
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	directed_delivery
info type	dedicated

### 3.3.2.2 Related Messages

CQ52, CQ53

### 3.3.2.3 Purpose

This broadcast distributes deliveries and is dedicated to those parties that are referenced in the delivery as either owner of the delivery, receiver of the delivery due to delivery propagation on account, or if the either parties above has a delivery obligation to another party.

### 3.3.2.4 Structure

The BD18 BROADCAST has the following structure:

```
struct directed_delivery {
    struct broadcast type
    struct cl_delivery api
}
```

### 3.3.2.5 Usage and Conditions

All recipients are handled within their organisation, which means that all deliveries to a customer that belongs to an organisation is sent to the customer that is defined centrally to be the organisation owner.

To interpret the information correctly it is important to remember some clearing system fundamentals:

- Every entity that in some respect can change ownership involves a series, be it money or an ordinary financial product.
- The change of ownership itself is called a delivery.
- Everything that happens to a series during its lifetime is defined through product

events.

- Product events are always released through a stimulus (often regarded as being the same thing as the event itself).

### **Sequence Number**

The Sequence Number is sequential for each customer, instrument type and clearing date. This number can be used by the customer to discover missed dedicated delivery information. To recover a missed dedicated delivery broadcast, use the Delivery query.

### **Date**

contains the date on which this delivery is created, that is the current business date.

### **Series**

contains the binary series from which this delivery emanates. If, for example, this delivery is due to an exercise of a stock option. The series field contains the stock option series.

### **Original Delivery Number**

### **Original Key Number**

are only defined when Delivery type is either rollback or overtaking. In these cases these fields together with series, points out the delivery that this delivery either rolls back or overtakes. These fields are zero when Delivery Type is Normal.

### **Delivery Type**

defines the types Normal, Rollback and Overtaking.

### **Originator Type**

is set to Reversing if this delivery is created from a trade and the trade type on this trade is reversing. Otherwise this field is Normal.

### **Delivery State**

defines if this delivery is active or rectified. When the delivery is sent as a broadcast it is always Normal.

### **Customer Account**

is the Customer and Account for the Clearing Entity, Trade or Position, that this delivery is created from.

### **Delivery Account**

is the account that handles the delivery for the Customer. This information is defined on Account level in the central system and is either Settlement Propagation or Delivery Propagation. If no propagation is set for the account, this field has the same value as **Customer Account**.

**Delivery Account** will for a DVP hold the account configured to handle deliveries for the clearing account. For other items, it will hold the configured settlement account.

### **Clearing Account**

is the account that holds the position account. For a BD18 originating from a trade, **Clearing Account** will have the account set from Position Propagation on the trading account. If no propagation is set for the account, this field has the same value as **Customer Account**.

For a BD18 originating from a Position, **Clearing Account** has the same value as **Customer Account**.

**Quantity, Delivery Base**

defines the calculated quantity for the delivery. The sign is set from the clearing house’s point of view (i.e. is delivered from the clearing house). The number of decimals used is specified by the decimals in premium in the DQ4/DQ123 query, for the class of the series defined in the Delivery Base.

**Delivery Number, Key Number**

gives together with country, market and instrument group in the Series field a unique combination for this delivery.

**Origin, Delivery Number**

defines the origin for this delivery. When the field value is different from Delivery Number it defines a trade number from which this delivery is calculated. The trade is then identified with this field and country, market, and instrument group from the Series field.

**Settlement Date**

defines the date when this delivery is to be settled.

**Quantity, Delivery**

defines the quantity for which this delivery is calculated from. It can be a trade quantity or a position amount.

**Delivery, Base**

is a series that defines what is delivered. The quantity for this is defined in the **Quantity, Delivery Base**.

**Class Number**

is a number indicating type of settlement for a delivery item.

### 3.3.3 **BD29 [Directed Give Up BROADCAST]**

#### 3.3.3.1 **Fingerprint**

BROADCAST properties	
transaction type	BD29
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	directed_give_up
info type	dedicated

#### 3.3.3.2 **Related Messages**

CQ61, CQ76



### 3.3.3.3 Purpose

This broadcast is directed to those parties that are referenced in the giveup as either owner of the giveup or as receiver of the giveup. It is sent every time the giveup changes state. The field Give-Up Broadcast Reason simply explains why the broadcast was sent. The information about the giveup is exactly the same as in CA61.

### 3.3.3.4 Structure

The BD29 BROADCAST has the following structure:

```
struct directed_give_up {  
    struct broadcast_type  
    struct cl_give_up_api  
}
```

### 3.3.3.5 Usage and conditions

#### Account

describes the destination member in the giveup. The 10 last characters may be left blank, thus only defining the member, or set to point out a specific account.

#### Party

identifies the customer that gives up the trade.

#### Sequence Number

is sequential for each **Customer, Instrument Type** and **Clearing Date** and starts from one each clearing date. The Sequence Number field can be used by the customer to keep track of potentially missed broadcasts. To recover a missed dedicated broadcast, CQ76 must be used.

#### Give-Up Broadcast Reason

contains a slogan denoting the reason for sending the broadcast. It mirrors the change of **State** of the giveup itself.

In order to differentiate between a reject by the take-up party and a delete/withdrawal by the give-up party, the new status value “Deleted” has been added as a possible state on a give-up request:

- The system detects whether the take-up party is rejecting the give-up, in which case the give-up request will be put in state Rejected.
- If another member have been granted the right to act on behalf of the take-up party, then the give-up request will also be put in state Rejected.
- Otherwise, if the delete/withdrawal is done by the give-up party, the give-up request will be put in state “Deleted.”
- If a Clearing Office user does reject/delete a give-up request, the action will put the give up reason in state “Deleted.”

#### Deal Source

data refer to the original trade's deal source.

The following fields describe the trade that is subject to the giveup:

- Series
- Party
- Bought or Sold
- Quantity, Trade
- Price, Deal
- Trade Number
- Date, Created
- Time, Created
- Date, As Of
- Time, As Of
- Original Clearing Date
- Old Trade Indicator
- Deal Source
- External Trade Fee Type
- Trade Number, External
- Original Trade Number, External

The Quantity, Trade field specifies the give-up portion of the trade.

Of these, Date, As Of; Time, As Of; Original Clearing Date; Old Trade Indicator; Deal Source; and External Trade Fee Type only contain significant data for give-up requests made the current business day and whose states are either holding or completed.

Give-Up Number; State; Account; Give-Up Free Text; and Clearing Date are fields that describe the giveup. Clearing Date is the clearing date of the giveup itself.

### 3.3.4 **BD39 [Dedicated Trade Change Information BROADCAST]**

#### 3.3.4.1 **Fingerprint**

<b>BROADCAST properties</b>	
transaction type	BD39
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	directed_trade_change
info type	dedicated

#### 3.3.4.2 **Related Messages**

Dedicated Trade Information Broadcast and CQ39

### 3.3.4.3 Purpose

The purpose of BD39 is to inform API clients about changes in trades that have been previously sent out with Dedicated Trade Information Broadcasts.

### 3.3.4.4 Structure

The BD39 BROADCAST has the following structure:

```
struct directed_trade_change {
    struct broadcast_type
    struct cl_trade_change_api
}
```

### 3.3.4.5 Usage and conditions

The broadcast data is a limited number of fields in the trade that can be changed after trade creation.

The broadcast shows a snapshot of the fields at the moment the broadcast is sent.

It has a sequence number per instrument type. The receiver is guaranteed to receive an unbroken sequence of numbers. The receiver is also guaranteed that BD39 are only sent for previously received trades.

## 3.3.5 BD40 [Dedicated auxiliary position info update information BROADCAST]

### 3.3.5.1 Fingerprint

BROADCAST properties	
transaction type	BD40
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	directed_pos_info_update
info type	dedicated

### 3.3.5.2 Related Messages

CQ40

### 3.3.5.3 Purpose

This broadcast is disseminated when any of the auxiliary information associated with a position is updated.

### 3.3.5.4 Structure

The BD40 BROADCAST has the following structure:

```
struct directed_pos_info_update {
```

```

    struct broadcast_type
    struct pos_info update api
}

```

### 3.3.5.5 Usage and conditions

The auxiliary information consists of :

- quantity to be exempted from automatic/general exercise (deny exercise)
- quantity closed-out current clearing date
- quantity of underlying used as cover for short position (exchange specific)

The time for the most recent update of auxiliary information on the position is provided as modified time and date.

The time and date from the most recently received BD40 is intended to be used as input to a CQ40 query transaction in order to retrieve the information distributed in BD40 broadcasts while the API-client is disconnected.

## 3.3.6 CC11 [Cancel Holding Rectify Trade TRANSACTION]

### 3.3.6.1 Fingerprint

TRANSACTION properties	
transaction type	CC11
calling sequence	omniapi_tx_ex
struct name	confirm_rectify_t
facility	EP3
partitioned	false

### 3.3.6.2 Related Messages

CQ14, CQ15

### 3.3.6.3 Purpose

This transaction is used to cancel a previously sent rectify trade request.

### 3.3.6.4 Structure

The CC11 TRANSACTION has the following structure:

```

struct confirm_rectify_t {
    struct transaction_type
    struct series // Named struct no: 50000
    INT32 T rectify trade number i // Rectify Trade Number
    UINT8 T confirm reject c // Confirm or Reject
}

```

```

    char\[3\] filler 3 s // Filler
}

```

### 3.3.6.5 Usage and conditions

**Series**

must be set to Series from original trade.

**Rectify Trade Number**

must be set to the rectify trade number identifying the trade rectification in question.

**Confirm or Reject**

must be set to Delete.

## 3.3.7 CC12 [Cancel Holding Rectify Deal TRANSACTION]

### 3.3.7.1 Fingerprint

TRANSACTION properties	
transaction type	CC12
calling sequence	omniapi_tx_ex
struct name	confirm_rectify_d
facility	EP3
partitioned	false

### 3.3.7.2 Related Messages

CQ16, CQ17

### 3.3.7.3 Purpose

This transaction is used to cancel a previously sent rectify deal request.

### 3.3.7.4 Structure

The CC12 TRANSACTION has the following structure:

```

struct confirm_rectify_d {
    struct transaction type
    struct series // Named struct no: 50000
    INT64 T rectify deal number q // Rectify Deal Number
    UINT8 T operation c // Operation
    UINT8 T confirm reject c // Confirm or Reject
    char\[2\] filler 2 s // Filler
}

```

```
}

```

### 3.3.7.5 Usage and conditions

#### Series

must be set to Series from the Original deal.

#### Rectify Deal Number

must be set to the rectify deal number identifying the deal rectification in question.

#### Operation

is set to Delete.

#### Confirm or Reject

is set to Reject.

## 3.3.8 CC13 [Exercise Request TRANSACTION]

### 3.3.8.1 Fingerprint

TRANSACTION properties	
transaction type	CC13
calling sequence	omniapi_tx_ex
struct name	exercise_req
facility	EP3
partitioned	false

### 3.3.8.2 Purpose

The purpose of this transaction is to request an exercise.

### 3.3.8.3 Structure

The CC13 TRANSACTION has the following structure:

```
struct exercise_req {
    struct transaction type
    struct series // Named struct no: 50000
    struct account
    INT64 T quantity i // Quantity
    INT32 T trade number i // Trade Number
}
```

### 3.3.8.4 Usage and conditions

#### Trade Number

An exercise is done on either a position or on a trade, depending on the product (security lending is an example of a product which is exercised on trades). The Trade Number is only filled in on exercise on trades, otherwise it is zero.

## 3.3.9 CC14 [Deny Exercise Request TRANSACTION]

### 3.3.9.1 Fingerprint

TRANSACTION properties	
transaction type	CC14
calling sequence	omniapi_tx_ex
struct name	set_deny_exercise
facility	EP3
partitioned	false

### 3.3.9.2 Purpose

The purpose of this transaction is to inform the Central System that a certain quantity for an account should not participate in an automatic exercise. If this quantity exceeds the held position, the whole position is excluded from automatic exercise.

### 3.3.9.3 Structure

The CC14 TRANSACTION has the following structure:

```
struct set_deny_exercise {
    struct transaction type
    struct series // Named struct no: 50000
    struct account
    INT64 T deny\_exercise q // Deny Exercise
}
```

## 3.3.10 CC15 [Cancel Exercise Request TRANSACTION]

### 3.3.10.1 Fingerprint

TRANSACTION properties	
transaction type	CC15
calling sequence	omniapi_tx_ex

TRANSACTION properties	
struct name	annul_exercise_req
facility	EP3
partitioned	false

### 3.3.10.2 Related Messages

CQ21

### 3.3.10.3 Purpose

The purpose of this transaction is to cancel an earlier entered exercise request. The exercise request must be pending, to allow cancel request. The exercise request number can be retrieved by using the Query Pending Exercise Request Transaction, see **CQ21**.

### 3.3.10.4 Structure

The CC15 TRANSACTION has the following structure:

```
struct annul_exercise_req {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T exercise number i // Exercise, Request Number
}
```

### 3.3.10.5 Usage and conditions

#### Series

must be set to the Series of the exercise request to be cancelled.

#### Exercise Request Number

must be set to the exercise request number identifying the exercise request to be cancelled.

## 3.3.11 CC38 [Confirm Give up Request TRANSACTION]

### 3.3.11.1 Fingerprint

TRANSACTION properties	
transaction type	CC38
calling sequence	omniapi_tx_ex
struct name	confirm_give_up_request
facility	EP3
partitioned	false



### 3.3.11.2 Related Messages

CQ61

### 3.3.11.3 Purpose

This transaction is used to confirm a give-up trade to the member. Use CQ61 to retrieve information on give-up trades in holding state.

### 3.3.11.4 Structure

The CC38 TRANSACTION has the following structure:

```

struct confirm_give_up_request {
    struct transaction\_type
    struct series // Named struct no: 50000
    INT32 T give up number i // Give Up, Number
    UINT16 T items n // Items
    char\[2\] filler 2 s // Filler
    Array ITEM [max no: 50] {
        struct account
        INT64 T trade quantity i // Quantity, Trade
        UINT8 T open close req c // Open Close Request
        char\[15\] customer info s // Customer, Information
    }
}

```

### 3.3.11.5 Usage and conditions

#### Series

#### Give-Up Number

identifies the giveup.

#### Quantity, Trade

is the quantity to place on the specified account. The sum of all quantities in the destination trade must be equal to the quantity in the giveup.

#### Account

contains identity of the account receiving the trade.

The **Customer Information** and **Open Close Request** are optional.

## 3.3.12 CC40 [Reject Give up Request TRANSACTION]

### 3.3.12.1 Fingerprint

TRANSACTION properties	
transaction type	CC40
calling sequence	omniapi_tx_ex
struct name	reject_give_up_request
facility	EP3
partitioned	false

### 3.3.12.2 Related Messages

CQ61

### 3.3.12.3 Purpose

This transaction is used to reject a give-up request. Use CQ61 to retrieve information on give-up trades in holding state.

### 3.3.12.4 Structure

The CC40 TRANSACTION has the following structure:

```
struct reject_give_up_request {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T give up number i // Give Up, Number
    char\[30\] give up text s // Give Up, Free Text
    char\[2\] filler 2 s // Filler
}
```

### 3.3.12.5 Usage and conditions

#### Series

#### Give-Up Number

identifies the giveup.

#### Give-up Free Text

is filled with the text set by the sending user. The text can be modified to hold a reject reason for the sender.

### 3.3.13 CC41 [Modify Commission Table TRANSACTION]

#### 3.3.13.1 Fingerprint

TRANSACTION properties	
transaction type	CC41
calling sequence	omniapi_tx_ex
struct name	modify_commission
facility	EP5
partitioned	false

#### 3.3.13.2 Related Messages

CQ64, BI71

#### 3.3.13.3 Purpose

This transaction is used to modify data in the commission table.

#### 3.3.13.4 Structure

The CC41 TRANSACTION has the following structure:

```

struct modify_commission {
    struct transaction type
    struct series // Named struct no: 50000
    struct party
    UINT8 T send or receive c // Send or Receive
    CHAR filler\_1 s // Filler
    UINT16 T items n // Items
    Array ITEM [max no: 800] {
        struct series // Named struct no: 50000
        struct party
        char\[10\] account id s // Account, Identity
        char\[15\] customer info s // Customer, Information
        char\[8\] created date s // Date, Created
        char\[6\] created time s // Time, Created
        char\[12\] user code s // User Code
        CHAR filler\_1 s // Filler
        INT32 T commission i // Commission
    }
}

```

### 3.3.13.5 Usage and conditions

#### Party

identifies the member that sends or receives a give-up. Party must contain the country and customer identity.

Each commission item contains the same type of item information as the answer to the Query Commission Table CQ64 transaction does.

## 3.3.14 CD5 [Transitory Account Trades TRANSACTION]

### 3.3.14.1 Fingerprint

TRANSACTION properties	
transaction type	CD5
calling sequence	omniapi_tx_ex
struct name	cl_reregistration_bo
facility	EP3
partitioned	false

### 3.3.14.2 Purpose

This transaction is used to transfer trades from the daily account to the client account. It is used by the Back Office (application) and identifies a trade by using the unique Trade Number.

### 3.3.14.3 Structure

The CD5 TRANSACTION has the following structure:

```

struct cl_reregistration_bo {
    struct transaction type
    struct series // Named struct no: 50000
    UINT8 T items c // Item
    char\[3\] filler 3 s // Filler
    Array ITEM [max no: 100] {
        struct account
        INT32 T trade number i // Trade Number
        INT64 T deal quantity i // Quantity, Deal
        char\[15\] customer info s // Customer, Information
        char\[2\] reserved 2 s // Reserved
        CHAR reserved 1 c // Reserved
        UINT8 T open close req c // Open Close Request
        CHAR filler 1 s // Filler
    }
}

```

### 3.3.14.4 Usage and conditions

#### Series

must be completely specified.

This function is related only to Client Clearing and thus not valid for Member Clearing. In a client clearing model, the Exchange provides the clearing service on anonymous client identities for the customers.

A certain trade can be transferred to one or several client accounts. It is possible to request how the positions should be updated. This transaction, a synchronous transaction, will allow the choices open, close, and normal.

If a close order cannot be executed for CD5, an error message will be returned.

If client information is omitted, the client identity in the original trade will be used.

The transaction can fail for a number of reasons. The CD5 transaction is synchronous and will not work unless the transfer actually is performed.

A Daily Account Trades transaction may be canceled. This is achieved by canceling the deal, created by the Daily Account Trades transaction that transfers the trade to the client account.

A Daily Account Trades transaction can only be canceled on the same business day as it is created.

## 3.3.15 CD28 [Rectify Trade TRANSACTION]

### 3.3.15.1 Fingerprint

TRANSACTION properties	
transaction type	CD28
calling sequence	omniapi_tx_ex
struct name	rectify_trade
facility	EP3
partitioned	false

### 3.3.15.2 Related Messages

CD27

### 3.3.15.3 Purpose

This transaction is used for changes of trades. The changes may have to be confirmed by the clearinghouse. The externally allowed number of days for rectification for the instrument type is checked before the operation is carried through.

If Open Close request are to be changed from Open to Close, CD27 must be used.

### 3.3.15.4 Structure

The CD28 TRANSACTION has the following structure:

```

struct rectify_trade {
    struct transaction_type
    struct series // Named struct no: 50000
    INT32 T trade_number i // Trade Number
    UINT8 T items c // Item
    char[3] filler 3 s // Filler
    Array ITEM [max no: 100] {
        struct account
        INT64 T trade_quantity i // Quantity, Trade
        UINT8 T open_close_req c // Open Close Request
        char[15] customer_info s // Customer, Information
    }
}
    
```

### 3.3.15.5 Usage and conditions

**Series**

**Trade number**

identify the trade to be rectified.

**Item**

the number of overtaking trades to be created by the rectification.

**Account**

the desired destination account of an overtaking trade.

**Open Close Request**

the desired Open Close Request of the overtaking trade.

**Customer Information**

the desired Customer Information of the overtaking trade.

**Quantity, Trade**

the desired quantity of a overtaking trade. The sum of the quantities of the overtaking trades must equal the quantity of the trade to be rectified.

## 3.3.16 CD31 [Rectify Deal TRANSACTION]

### 3.3.16.1 Fingerprint

TRANSACTION properties	
transaction type	CD31

TRANSACTION properties	
calling sequence	omniapi_tx_ex
struct name	rectify_deal
facility	EP3
partitioned	false

### 3.3.16.2 Purpose

A deal rectification transaction is used for changing a whole deal or to cancel it.

### 3.3.16.3 Structure

The CD31 TRANSACTION has the following structure:

```

struct rectify_deal {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT8 T instance c // Instance, Number
    UINT8 T operation c // Operation
    UINT16 T items n // Items
    struct other_series {
        UINT8 T country c // Country Number
        UINT8 T market c // Market Code
        UINT8 T instrument_group c // Instrument Group
        UINT8 T modifier c // Modifier
        UINT16 T commodity n // Commodity Code
        UINT16 T expiration_date n // Date, Expiration
        INT32 T strike_price i // Strike Price
    }
    INT32 T deal_price i // Price, Deal
    INT32 T deal_number i // Deal Number
    Array ITEM [max no: 255] {
        INT32 T trade_number i // Trade Number
        INT64 T trade_quantity i // Quantity, Trade
        UINT8 T bid_or_ask c // Bid or Ask
        CHAR reserved_1 c // Reserved
        char[2] reserved_2 s // Reserved
    }
}

```

### 3.3.16.4 Usage and conditions

All trades in the deal must belong to the customer's own accounts. The externally allowed number of days for rectification for the instrument type is checked before the operation is carried through.

#### Deal Cancellation

The transaction may be used to cancel a deal. This is useful for canceling an Average Price Trade transaction (CD32) or for canceling a Daily Account Trades transaction (CD4, CD5). These transactions can only be canceled on the same business day as they were originally created.

In order to cancel a deal, one transaction is used.

In the first transaction:

**Operation**

must be set to delete.

**Series, Other  
Price, Deal  
Item**

fields must be set to zero or in other words, the trades in the deal must not be specified.

**Instance, Number**

is ignored.

**Note:** In case the average price trade, resulting from the Average Price Trade transaction to be canceled, has been subject to Daily Account Trades transaction(s), these must first be canceled before the Average Price Trade transaction itself can be canceled.

**Deal Rectification**

In order to rectify a deal, two transactions must be used. Series and price may be altered for the deal. Quantity and bid/ask may be altered for the trades in the deal. The new values for these characteristics must be specified in both the first and the second transaction even if unchanged from the original deal.

In the first transaction:

**Operation**

must be set to delete.

**Series**

must be set to the series for the deal replacing the faulty deal .

**Series, Other**

is set to the series for the deal replacing the faulty deal.

**Instance, Number**

is ignored.

In the second transaction:

**Operation**

must be set to create.

**Series**



must be set to the series for the deal replacing the faulty deal.

**Series, Other**

must be set to the series in the original deal.

**Instance, Number**

is ignored.

**Note:** The functionality to change series is currently limited to series handled within the same clearing partition.

### 3.3.16.5 Return Codes

Even if a rectify transaction is accepted by the system, it is possible that it will not be executed immediately. The below statuses give more information:

Completion	Cstatus	TxStat (reason code)
The rectify operation is performed.	Successful	CL_OMN_NORMAL
The rectify operation is subject to manual checks, and will not go through until manually approved. If approved, please refer to broadcast BD39 and BD6.	Successful	CL_OMN_REQHOLDING
The rectify operation is subject to collateral checks. If rejected, please refer to broadcast CB146. If approved, please refer to broadcast BD39 and BD6.	Successful	CL_OMN_COLLCHECK

Please refer to the *OMex System's Error Messages* for details about why transactions are aborted.

## 3.3.17 CD32 [Average Price Trade TRANSACTION]

### 3.3.17.1 Fingerprint

TRANSACTION properties	
transaction type	CD32
calling sequence	omniapi_tx_ex
struct name	average_price_trade
facility	EP3
partitioned	false

### 3.3.17.2 Related Messages

CQ16, CQ17, CC12

### 3.3.17.3 Purpose

This transaction groups a number of trades into an average price trade. All trades must be of the same type, in the same series, and on the same account.

### 3.3.17.4 Structure

The CD32 TRANSACTION has the following structure:

```
struct average_price_trade {  
    struct transaction_type  
    struct series // Named struct no: 50000  
    UINT16 T items n // Items  
    char[2] filler 2 s // Filler  
    Array ITEM [max no: 1000] {  
        INT32 T trade number i // Trade Number  
    }  
}
```

### 3.3.17.5 Usage and conditions

The specified trades are transferred to a member-specific account dedicated for this transaction. A new deal with the average price for the trades is then created. It nets out the position on the account and returns the position to the original account.

**Note:** This transaction may in the future rectify the trades to the member specific account dedicated for this transaction.

The resulting trade with average price will have Deal Source set to Average Price Trade (128). Intermediate trades created during the Average Price Trade transaction will have Deal Source set to Intermediate APT (129).

An Average Price Trade transaction may be canceled. This is achieved by canceling the final deal, at the average price, created by the Average Price Trade transaction. The deal is canceled by use of the Rectify Deal transaction (CD31).

A rectify deal transaction must be confirmed before the operation is carried through. To retrieve information on rectify deals put on hold, use CQ16 or CQ17, and to confirm or reject the transaction, use CC12.

An Average Price Trade transaction can only be canceled on the same business day as it is created.

**Note:** In case the resulting average price trade has been subject to Daily Account Trades transaction(s), these must first be canceled before the Average Price Trade transaction can be canceled.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

### 3.3.17.6 Return Codes

After a successful Average Price Trade transaction, the trade number for the average price trade will be returned to the sender.

cstatus	txstat
successfull	trade number for newly created average price trade
Transaction aborted	...

Please refer to the **Error Messages Reference Manual** for details about why transactions are aborted.

## 3.3.18 CD35 [Give up Request TRANSACTION]

### 3.3.18.1 Fingerprint

TRANSACTION properties	
transaction type	CD35
calling sequence	omniapi_tx_ex
struct name	give_up_request
facility	EP3
partitioned	false

### 3.3.18.2 Purpose

This transaction is used to give up a trade to another member.

### 3.3.18.3 Structure

The CD35 TRANSACTION has the following structure:

```

struct give_up_request {
    struct transaction type
    struct series // Named struct no: 50000
    struct account
    INT32 T trade number i // Trade Number
    INT64 T trade quantity i // Quantity, Trade
    INT32 T commission i // Commission
    char\[30\] give up text s // Give Up, Free Text
    char\[2\] filler 2 s // Filler
}

```

### 3.3.18.4 Usage and conditions

#### Series

#### Trade Number

identifies the trade that is given up.

#### Account

must contain the country and customer identities of the member receiving the trade. It is optional to set the account id in Account. If not set, it must be left blank.

#### Quantity, Trade

is the given up quantity of the trade. This value does not have to be the whole trade quantity.

#### Give-up Free Text

contains a user supplied text as information to the receiving member.

## 3.3.19 CD38 [Long Position Adjustment TRANSACTION]

### 3.3.19.1 Fingerprint

TRANSACTION properties	
transaction type	CD38
calling sequence	omniapi_tx_ex
struct name	long_position_adj
facility	EP3
partitioned	false

### 3.3.19.2 Purpose

The purpose of this transaction is to net a position by closing an equal amount of long and short contracts respectively.

### 3.3.19.3 Structure

The CD38 TRANSACTION has the following structure:

```
struct long_position_adj {
    struct transaction_type
    struct series // Named struct no: 50000
    char[2] filler 2 s // Filler
    UINT16 T items n // Items
    Array ITEM [max no: 1500] {
        struct account
        struct series // Named struct no: 50000
    }
}
```

```

    }
    INT32 T long adjustment i // Long Adjustment
}

```

### 3.3.19.4 Usage and conditions

Positions is only retrieved for instruments having the Maintain Positions parameter set to Yes.

#### Series

must belong to the same instrument type both in the transaction header and for all items sent.

#### Account, Series

together identify the position to be adjusted.

#### Long adjustment

the number of contracts to be closed.

## 3.3.20 CD54 [Position Closeout QUERY]

### 3.3.20.1 Fingerprint

QUERY properties	
transaction type	CD54
calling sequence	omniapi_query_ex
struct name	position_closeout
facility	EP3
partitioned	true
answers	CA54

ANSWER properties	
transaction type	CA54
struct name	position_closeout_status
segmented	false

### 3.3.20.2 Related Messages

CQ122, CQ123, CD55

### 3.3.20.3 Purpose

The purpose of this transaction is to allow closeout of a collection of positions.

### 3.3.20.4 Structure

The CD54 QUERY has the following structure:

```
struct position_closeout {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 950] {
        struct account
        struct series // Named struct no: 50000
        INT64 T final held q // Held/Long position, After closeout
        INT64 T closeout qty i // Quantity, Close out
        char[8] date s // Date
    }
}
```

### 3.3.20.5 Usage and conditions

CD54 is implemented as a query in order to be able to return an answer. The answer indicates for each individual position closeout request whether it was successfully processed or not.

#### Series

identifies together with account the position.

#### Account

identifies together with Series the position.

#### Closeout Quantity

- The quantity by which the position should be closed out.
- If Closeout quantity is set to zero, the position will be closed out down to the requested Final held position. This is only allowed for closeout of current business date positions.

#### Final Held

- The requested held/ long position after position close-out.
- Final held must be zero if Closeout quantity is non-zero.

#### Date

is the Clearing date for which the position should be closed out.

### 3.3.20.6 Answer Structure

The CA54 ANSWER has the following structure:

```
struct position_closeout_status {
    struct transaction type
```

```

UINT16 T items n // Items
char[2] filler 2 s // Filler
Array ITEM [max no: 950] {
    struct account
    struct series // Named struct no: 50000
    INT64 T final held q // Held/Long position, After closeout
    INT64 T closeout qty i // Quantity, Close out
    INT32 T closeout status i // Status, Close out
    char[8] date s // Date
}
}

```

### 3.3.21 CD55 [Restore Position TRANSACTION]

#### 3.3.21.1 Fingerprint

TRANSACTION properties	
transaction type	CD55
calling sequence	omniapi_tx_ex
struct name	restore_position
facility	EP3
partitioned	true

#### 3.3.21.2 Related Messages

CQ122, CQ123, CD54

#### 3.3.21.3 Purpose

The purpose of this transaction is to allow reinstatement of a previously closed-out position.

#### 3.3.21.4 Structure

The CD55 TRANSACTION has the following structure:

```

struct restore_position {
    struct transaction_type
    struct series // Named struct no: 50000
    struct account
    INT64 T closeout qty i // Quantity, Close out
    char[8] date s // Date
}

```

#### 3.3.21.5 Usage and conditions

##### Series

- Series identifies together with account the position.
- Series must be completely filled and identify an existing series.

**Account**

- Account identifies together with Series the position.
- Account must identify a specific account, wildcards is not supported.

**Closeout Quantity**

is the quantity to be reinstated.

**Date**

- is the Clearing date for which the position should be reinstated.
- must be current Clearing date or a prior Clearing date.

### 3.3.22 CQ3 [Position QUERY]

#### 3.3.22.1 Fingerprint

QUERY properties	
transaction type	CQ3
calling sequence	omniapi_query_ex
struct name	query_position
facility	EP3
partitioned	true
answers	CA3

ANSWER properties	
transaction type	CA3
struct name	answer_position
segmented	true

#### 3.3.22.2 Purpose

This transaction will retrieve the current positions for each deposit and series belonging to the customer, alternatively the final position for the previous date.

**Note:** Positions will only be retrieved for instruments having the Maintain Positions property set to Yes.

#### 3.3.22.3 Structure

The CQ3 QUERY has the following structure:



```

struct query_position {
    struct transaction type
    struct series // Named struct no: 50000
    struct search series
    struct account
    UINT16 T segment number n // Segment Number
    char\[8\] date s // Date
    char\[2\] filler 2 s // Filler
}

```

### 3.3.22.4 Usage and conditions

#### Series

must be complete up to **Country number**, **Market code** and **Instrument group**.

#### Segment Number

is one for the first query and then incremented.

#### Search Series

##### Account

identifies the positions to be returned in the answer.

#### Date

must be valid and have one of the following values:

- Previous calendar date: The overnight (O/N) position is returned. These positions are static during the day.
- Today's business date. The current position for the current clearing date (provided it exists for the instrument) is returned.
- Next calendar date. The current position for the next clearing date is returned; trades as of next clearing date are added to the current clearing date position.

Note that the previous and next calendar date is in relation to current business date in the system. For example, the previous calendar date will refer to a Sunday when current business date is a Monday.

### 3.3.22.5 Answer Structure

The CA3 ANSWER has the following structure:

```

struct answer_position {
    struct transaction type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 500] {
        struct series // Named struct no: 50000
        char\[8\] modified date s // Date, Modified
        char\[6\] modified time s // Time, Modified
    }
}

```

```

    UINT8 T reserved prop c // Reserved Properties
    CHAR filler 1 s // Filler
    INT64 T nbr held q // Held
    INT64 T nbr written q // Written
    INT64 T deny exercise q // Deny Exercise
    struct account
    UINT32 T quantity cover u // Quantity Cover
    INT64 T qty closed out q // Quantity, Closed out
}
}

```

### 3.3.22.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

#### Quantity, Cover

states the quantity of underlying equity that is used as cover for this position. This field is normally set to zero. Only if the query's **Date** was set to **Today's calendar date** can this field have a non-zero value.

When used to retrieve information about the position for the previous calendar day:

- If the position has not changed during the current day, the modification date and modification time have the last modification noted for that position (i.e. may be earlier than yesterday).
- If the position has changed during the current day, the modification fields are not valid (the time is set to 00:00:00 and the date to current date).

## 3.3.23 CQ8 [Fixing Values QUERY]

### 3.3.23.1 Fingerprint

QUERY properties	
transaction type	CQ8
calling sequence	omniapi_query_ex
struct name	query_fixing_val
facility	EP5
partitioned	false
answers	CA8

ANSWER properties	
transaction type	CA8
struct name	answer_fixing_val
segmented	true

### 3.3.23.2 Purpose

This transaction retrieves fixing value for cash settled products (on a daily basis, when they are exercised or when they are closed).

### 3.3.23.3 Structure

The CQ8 QUERY has the following structure:

```
struct query_fixing_val {
    struct transaction_type
    struct series // Named struct no: 50000
    struct search_series
    UINT16 T segment number n // Segment Number
    char[8] date s // Date
    char[2] filler 2 s // Filler
}
```

### 3.3.23.4 Usage and conditions

#### Search Series

**Country Number**, **Market Code** and **Instrument Group** can be filled in to filter the response.

If zero is filled in for the fields, the avista value for all Series is returned.

#### Date

is Clearing date for which fixing values that are to be returned in the answer.

#### Segment Number

is one for the first query and then incremented.

### 3.3.23.5 Answer Structure

The CA8 ANSWER has the following structure:

```
struct answer_fixing_val {
    struct transaction_type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 500] {
        struct series // Named struct no: 50000
        INT32 T fixing value i // Fixing Value
        UINT16 T dec in fixing n // Decimals, Fixing
        char[2] filler 2 s // Filler
    }
}
```

### 3.3.23.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.24 CQ10 [Query missing trade QUERY]

### 3.3.24.1 Fingerprint

QUERY properties	
transaction type	CQ10
calling sequence	omniapi_query_ex
struct name	query_missing_trade
facility	EP3
partitioned	false
answers	CA10

VIA properties	
transaction type	CA10
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	false

### 3.3.24.2 Related Messages

BD6 (Dedicated Trade Information VIB)

CQ11 (Query Missing Trade, Historical Query).

### 3.3.24.3 Purpose

This query is used to retrieve trades for the trading day (T) = current business day; and the next trading day (T+1) when the next trading day commence on the same business day. For example, if a missing sequence number is detected for the trade broadcast, this query is used to get in synch with the broadcast flow again.

To retrieve trades for previous trading days, use CQ11.

### 3.3.24.4 Structure

The CQ10 QUERY has the following structure:

```
struct query_missing_trade {
  struct transaction_type
  struct series // Named struct no: 50000
```

```

INT32 T sequence first i // Number, First Sequential
INT32 T sequence last i // Number, Last Sequential
char[8] date s // Date
}

```

### 3.3.24.5 Usage and Conditions

CQ10, CQ11 and the Dedicated Trade Information Broadcast form a package. CQ10 returns data as in the format of a Dedicated Trade Information Broadcast.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Sequence Number

The first Sequence Number is the first missing one, the second is the last missing one. If the second Sequence Number is equal to zero, all available trades are sent in sequence.

If the maximum number of items for one transaction is returned, the query should be repeated with the next missing sequence number as first argument.

The maximum number of items is reached when the items\_n field contains a value greater than 0.

#### Date

must be current or next clearing date.

Next clearing date is only allowed at installations where trading for the next day commences in the afternoon or evening on the day before. An additional requirement is that the clearing system is configured for accepting trades for the following day.

### 3.3.24.6 Answer Structure

The CA10 VIA has the following structure:

```

struct answer_missing_trade_hdr {
    struct transaction type
    char[2] filler 2 s // Filler
    UINT16 T items n // Items
}
Sequence {
    struct item_hdr
    Sequence {
        struct sub item_hdr
        Choice {
            struct cl trade base api // Named struct no: 3
            struct cl trade secur part // Named struct no: 20
        }
    }
}

```

### 3.3.24.7 Answer, comments

The answer is built up with variable trade structures. Each trade is built with several sub-structures to form a flow of data in which each trade can consist of one or several structures. A trade consists at least of the structure `cl_trade_base_api`. Each sub-structure is prefaced with a header.

## 3.3.25 CQ11 [Query missing trade, historical QUERY]

### 3.3.25.1 Fingerprint

QUERY properties	
transaction type	CQ11
calling sequence	omniapi_query_ex
struct name	query_api_trade
facility	EP5
partitioned	false
answers	CA11

VIA properties	
transaction type	CA11
struct name	The message complies with the VIM concept and has no top struct. The sequence of possible structs is described in the Structure section.
segmented	false

### 3.3.25.2 Related Messages

BD6 (Dedicated Trade Information VIB) and CQ10 (Query Missing Trade Query).

### 3.3.25.3 Purpose

This query is used to retrieve historical trades, i.e for trading days before the current business day. The information is available to the participant the next business day. Historical trades are queried per instrument type. To retrieve trades for the current trading day and next trading day, use CQ10.

### 3.3.25.4 Structure

The CQ11 QUERY has the following structure:

```
struct query_api_trade {
    struct transaction type
    struct series // Named struct no: 50000
    char[8] from date s // Date, From
    INT32 T sequence first i // Number, First Sequential
```

```

    char[8] to date s // Date, To
    INT32 T sequence last i // Number, Last Sequential
}

```

### 3.3.25.5 Usage and Conditions

CQ10, CQ11 and BD6 form a package. CQ11 returns data as in the format of a Dedicated Trade Information Broadcast.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**. **Commodity** can be given to retrieve all trades for a specific instrument class. Otherwise Commodity is left to zero.

#### Date, From and Date, To

must be historical dates compared to current business date. **Date, From** must be less or equal to **Date, To**.

#### Sequence Number 1

is the first item to get for **Date, From**. Zero or one means the first item for that date.

#### Sequence Number 2

is the last item to get for **Date, To**. Zero means the last item for that date.

### 3.3.25.6 Answer Structure

The CA11 VIA has the following structure:

```

struct answer_api_trade_hdr {
    struct transaction_type
    struct series // Named struct no: 50000
    char[8] from date s // Date, From
    INT32 T sequence first i // Number, First Sequential
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
}
Sequence {
    struct item_hdr
    Sequence {
        struct sub_item_hdr
        Choice {
            struct cl trade base api // Named struct no: 3
            struct cl trade secur part // Named struct no: 20
        }
    }
}
}

```

### 3.3.25.7 Answer, comments

See CQ10.

## 3.3.26 CQ14 [Holding Rectify Trade QUERY]

### 3.3.26.1 Fingerprint

QUERY properties	
transaction type	CQ14
calling sequence	omniapi_query_ex
struct name	query_rectify_t
facility	EP3
partitioned	true
answers	CA14

ANSWER properties	
transaction type	CA14
struct name	answer_rectify_t
segmented	false

### 3.3.26.2 Related Messages

CQ15, CC11

### 3.3.26.3 Purpose

This query is used for retrieving information on requests to rectify trades. The query will only return information on requests that initially were placed in a holding state awaiting confirmation by the exchange or clearinghouse. Whether a request to rectify a trade requires confirmation or not depends on the exchange/clearinghouse policy.

Use CQ15 to get detailed information regarding a holding rectify trade.

Use CC11 to withdraw ("reject") a request to rectify a trade.

### 3.3.26.4 Structure

The CQ14 QUERY has the following structure:

```
struct query_rectify_t {
    struct transaction type
    struct series // Named struct no: 50000
    UINT8 T instance c // Instance, Number
    CHAR filler 1 s // Filler
    UINT16 T segment number n // Segment Number
    struct search series
}
```



### 3.3.26.5 Usage and conditions

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Search Series

filters on instruments in trades subject to rectify trade requests that are to be returned in the answer.

#### Segment Number

is one for the first query and then incremented.

#### Instance, Number

is ignored.

### 3.3.26.6 Answer Structure

The CA14 ANSWER has the following structure:

```

struct answer_rectify_t {
    struct transaction_type
    UINT16 T segment_number n // Segment Number
    char[2] reserved_2 s // Reserved
    struct partition_low
    struct partition_high
    UINT16 T items n // Items
    UINT8 T instance_next c // Next Instance Number
    CHAR filler_1 s // Filler
    Array ITEM [max no: 400] {
        struct ans_rect_t_item {
            char[8] created_date s // Date, Created
            char[6] created_time s // Time, Created
            char[8] asof_date s // Date, As Of
            char[6] asof_time s // Time, As Of
            char[8] clearing_date s // Clearing Date
            char[8] orig_clearing_date s // Clearing Date, Original
            struct trading_code
            struct user_code
            struct series // Named struct no: 50000
            INT32 T trade_number i // Trade Number
            INT32 T rectify_trade_number i // Rectify Trade Number
            INT32 T ext_seq_nbr i // External Clearinghouse, Sequence Number
            UINT8 T state c // State
            UINT8 T bought_or_sold c // Bought or Sold
            UINT8 T reserved_prop_c // Reserved Properties
            CHAR filler_1 s // Filler
            struct new_account {
                char[2] country_id s // Name, Country
                char[5] ex_customer s // Customer, Identity
                char[10] account_id s // Account, Identity
                char[3] filler_3 s // Filler
            }
        }
    }
}

```

```
    struct account
    {
        INT64 T trade quantity i // Quantity, Trade
        INT32 T deal price i // Price, Deal
    }
}
```

### 3.3.26.7 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

**Date, Created**  
**Time, Created**

Creation date and time for rectify trade request.

**Date, As Of**  
**Time, As Of**

Match date and time for trade subject to rectify.

**Clearing Date**

Clearing date for processing of rectify transaction.

**Clearing Date, Original**

Original Clearing date for processing of trade subject to rectify.

**TRADING\_CODE**

Identifies user submitting the rectify trade request.

**USER**

Identifies user confirming or rejecting the rectify trade request.

**Series**

Instrument in trade subject to rectify trade request.

**Trade Number**

Together with instrument type of traded seres, Trade Number identifies the trade subject to rectify trade request.

**Rectify Trade Number**

Together with instrument type of traded seres, Rectify Trade Number identifies the rectify trade request.

**External Clearing House, Sequence Number**

sequence number provided by external exchange system, optional.

**State**

returns current state of request: Holding, Active or Rejected.

**Bought or Sold**

indicates whether trade corresponds to bought or sold contracts.

**Reserved Properties**

Not applicable.

**NEW\_ACCOUNT**

New account for trade - set to "\*" if trade is moved to several accounts.

**ACCOUNT**

account into which trade is allocated prior to rectify operation.

**Quantity, Trade**

quantity in trade subject to rectify.

**Price, Deal**

price in trade subject to rectify.

### 3.3.27 CQ15 [Detailed Holding Rectify Trade QUERY]

#### 3.3.27.1 Fingerprint

QUERY properties	
transaction type	CQ15
calling sequence	omniapi_query_ex
struct name	query_rectify_t_cont
facility	EP3
partitioned	false
answers	CA15

ANSWER properties	
transaction type	CA15
struct name	answer_rectify_ext_cont
segmented	false

#### 3.3.27.2 Related Messages

CQ14, CC11

### 3.3.27.3 Purpose

This query is used for receiving detailed information about a holding rectify trade.

### 3.3.27.4 Structure

The CQ15 QUERY has the following structure:

```
struct query_rectify_t_cont {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T rectify trade number i // Rectify Trade Number
}
```

### 3.3.27.5 Usage and conditions

To use this query the rectify trade number must be used. It can be listed in Query to get rectified trades that are in holding state.

Use CQ14 to obtain rectify trade number to be supplied as query parameter when using CQ15. Use CC11 to confirm or reject the request to rectify the trade.

#### Series

must be completed with **Country Number, Market Code and Instrument Group.**

### 3.3.27.6 Answer Structure

The CA15 ANSWER has the following structure:

```
struct answer_rectify_ext_cont {
    struct transaction type
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 100] {
        struct account
        INT64 T trade quantity i // Quantity, Trade
        UINT8 T open_close req c // Open Close Request
        char[15] customer info s // Customer, Information
    }
}
```

## 3.3.28 CQ16 [Holding Rectify Deal QUERY]

### 3.3.28.1 Fingerprint

QUERY properties	
transaction type	CQ16
calling sequence	omniapi_query_ex

QUERY properties	
struct name	query_rectify_d
facility	EP3
partitioned	false
answers	CA16

ANSWER properties	
transaction type	CA16
struct name	answer_rectify_d
segmented	false

### 3.3.28.2 Related Messages

CQ17, CC12

### 3.3.28.3 Purpose

The purpose of this query is to list rectified deals that are in holding state or that have been in holding state and now are completed etc.

### 3.3.28.4 Structure

The CQ16 QUERY has the following structure:

```
struct query_rectify_d {
    struct transaction_type
    struct series // Named struct no: 50000
    struct search_series
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}
```

### 3.3.28.5 Usage and conditions

Only deals where all trades included are registered on the same customer can be rectified by that customer. The customer can use this transaction to obtain information on possible rectify deals on hold and then use this information to either confirm or reject the rectify.

Use CQ17 to get detailed information regarding a holding rectify deal. Use CC12 to confirm or reject the request to rectify the deal.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Search Series

identifies the positions to be returned in the answer.

### Segment Number

is one for the first query and then incremented.

## 3.3.28.6 Answer Structure

The CA16 ANSWER has the following structure:

```

struct answer_rectify_d {
    struct transaction type
    UINT16 T segment number n // Segment Number
    char\[2\] reserved 2 s // Reserved
    struct partition low
    struct partition high
    UINT16 T items n // Items
    char\[2\] filler 2 s // Filler
    Array ITEM [max no: 100] {
        struct orig_deal_part {
            struct series // Named struct no: 50000
            char\[8\] asof date s // Date, As Of
            char\[6\] asof time s // Time, As Of
            char\[2\] filler 2 s // Filler
            INT32 T deal price i // Price, Deal
            INT32 T deal number i // Deal Number
            INT64 T deal quantity i // Quantity, Deal
        }
        struct rectify_deal_part {
            struct new series
            char\[8\] modified date s // Date, Modified
            char\[6\] modified time s // Time, Modified
            char\[8\] asof date s // Date, As Of
            char\[6\] asof time s // Time, As Of
            INT64 T rectify deal number q // Rectify Deal Number
            struct trading code
            struct ex user code
            INT32 T state i // State, Product
            INT32 T new deal price i // Price, New Deal
        }
    }
}

```

## 3.3.28.7 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.29 CQ17 [Detailed Rectify Deal QUERY]

### 3.3.29.1 Fingerprint

QUERY properties	
transaction type	CQ17
calling sequence	omniapi_query_ex
struct name	query_rectify_d_cont
facility	EP3
partitioned	false
answers	CA17

ANSWER properties	
transaction type	CA17
struct name	answer_rectify_d_cont
segmented	false

### 3.3.29.2 Related Messages

CQ16, CC12

### 3.3.29.3 Purpose

This transaction gives detailed information of the trades included in a specified rectified deal in state holding.

### 3.3.29.4 Structure

The CQ17 QUERY has the following structure:

```
struct query_rectify_d_cont {
    struct transaction type
    struct series // Named struct no: 50000
    INT64 T rectify deal number q // Rectify Deal Number
}
```

### 3.3.29.5 Usage and conditions

Only deals where all trades included are registered on the same customer can be rectified by that customer. The customer can use this transaction to obtain information on possible rectify deals on hold and then use this information to either confirm or reject the rectify. Use CQ16 to obtain rectify deal number and original series to be supplied as query parameters when using CQ17.

Use CQ16 to get information regarding a holding rectify deal. Use CC12 to confirm or reject the request to rectify the deal.

### Series

must be completed with **Country Number,Market Code** and **Instrument Group**.

## 3.3.29.6 Answer Structure

The CA17 ANSWER has the following structure:

```

struct answer_rectify_d_cont {
    struct transaction type
    UINT16 T items n // Items
    char\[2\] filler 2 s // Filler
    Array ITEM [max no: 255] {
        struct series // Named struct no: 50000
        INT32 T trade number i // Trade Number
        UINT8 T bid or ask c // Bid or Ask
        char\[3\] filler 3 s // Filler
        INT64 T trade quantity i // Quantity, Trade
    }
}

```

## 3.3.30 CQ19 [Account Propagation QUERY]

### 3.3.30.1 Fingerprint

QUERY properties	
transaction type	CQ19
calling sequence	omniapi_query_ex
struct name	query_account_prop
facility	EP5
partitioned	false
answers	CA19

ANSWER properties	
transaction type	CA19
struct name	answer_propagate
segmented	false



### 3.3.30.2 Purpose

This transaction retrieves information regarding all account propagations connected to a specified account. Note that the specified account must be owned by the querying customer and that this account must be fully specified.

### 3.3.30.3 Structure

The CQ19 QUERY has the following structure:

```
struct query_account_prop {  
    struct transaction type  
    struct series // Named struct no: 50000  
    struct account  
    UINT16 T segment number n // Segment Number  
    char\[2\] filler 2 s // Filler  
}
```

### 3.3.30.4 Usage and conditions

#### Series

is not relevant in this query. It has, however, to be set to zero.

#### Segment Number

is one for the first query and then incremented.

#### Account

identifies the account for which propagations are to be returned in the answer

### 3.3.30.5 Answer Structure

The CA19 ANSWER has the following structure:

```
struct answer_propagate {  
    struct transaction type  
    UINT16 T segment number n // Segment Number  
    UINT16 T items n // Items  
    Array ITEM [max no: 100] {  
        struct account  
        UINT8 T prop type c // Type of Propagation  
        char\[3\] filler 3 s // Filler  
    }  
}
```

### 3.3.30.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

### 3.3.31 CQ20 [Open Interest QUERY]

#### 3.3.31.1 Fingerprint

QUERY properties	
transaction type	CQ20
calling sequence	omniapi_query_ex
struct name	query_open_interest
facility	EP3
partitioned	true
answers	CA20

ANSWER properties	
transaction type	CA20
struct name	answer_open_interest
segmented	false

#### 3.3.31.2 Purpose

The purpose of this query is to retrieve the Open Interest per series. The Open Interest for a series is calculated once a day by summarizing the positions for all accounts.

This query is only available when the signal BI7, Information Type 1 has been sent.

See also CQ72 that returns more.

#### 3.3.31.3 Structure

The CQ20 QUERY has the following structure:

```

struct query_open_interest {
    struct transaction type
    struct series // Named struct no: 50000
    struct search series
    UINT16 T segment number n // Segment Number
    char\[8\] date s // Date
    char\[2\] filler 2 s // Filler
}

```

#### 3.3.31.4 Usage and conditions

**Series**

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Segment Number

is one for the first query and then incremented.

#### Search Series

identifies the series for which data is to be returned in the answer.

#### Date

must be filled with current business date.

### 3.3.31.5 Answer Structure

The CA20 ANSWER has the following structure:

```
struct answer_open_interest {
    struct transaction type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 1000] {
        struct series // Named struct no: 50000
        UINT64 T final open interest q // Final Open Interest
    }
}
```

### 3.3.31.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.32 CQ21 [Pending Exercise Request QUERY]

### 3.3.32.1 Fingerprint

QUERY properties	
transaction type	CQ21
calling sequence	omniapi_query_ex
struct name	query_exercise_req
facility	EP3
partitioned	true
answers	CA21

ANSWER properties	
transaction type	CA21

ANSWER properties	
struct name	answer_exercise_req
segmented	false

### 3.3.32.2 Related Messages

CC15

### 3.3.32.3 Purpose

The purpose of this query is to retrieve all pending exercise requests. Use CC15 to either confirm or reject the pending exercise request.

### 3.3.32.4 Structure

The CQ21 QUERY has the following structure:

```
struct query_exercise_req {
    struct transaction type
    struct series // Named struct no: 50000
    struct search series
    struct account
    UINT16 T segment number n // Segment Number
    char\[2\] filler 2 s // Filler
}
```

### 3.3.32.5 Usage and conditions

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Segment Number

is one for the first query and then incremented.

#### Search Series

#### Account

identify the pending exercise requests for which data is to be returned in the answer.

### 3.3.32.6 Answer Structure

The CA21 ANSWER has the following structure:

```
struct answer_exercise_req {
    struct transaction type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
}
```

```

Array ITEM [max no: 250] {
  struct series // Named struct no: 50000
  struct account
  CHAR reserved 1 c // Reserved
  char[2] reserved 2 s // Reserved
  CHAR filler 1 s // Filler
  struct trading code
  struct ex user code
  char[8] modified date s // Date, Modified
  char[6] modified time s // Time, Modified
  char[8] asof date s // Date, As Of
  char[6] asof time s // Time, As Of
  INT64 T quantity i // Quantity
  INT32 T trade number i // Trade Number
  INT32 T exercise number i // Exercise, Request Number
  UINT8 T state c // State
  char[3] filler 3 s // Filler
}
}

```

### 3.3.32.7 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.33 CQ22 [Error Message QUERY]

### 3.3.33.1 Fingerprint

QUERY properties	
transaction type	CQ22
calling sequence	omniapi_query_ex
struct name	query_error_msg
facility	EP5
partitioned	false
answers	CA22

ANSWER properties	
transaction type	CA22
struct name	answer_error_msg
segmented	true

### 3.3.33.2 Purpose

The purpose of this transaction is to retrieve possible error information. Typical information could be regarding trades or exercise requests that are invalid due to having been put on non-existing accounts.

### 3.3.33.3 Structure

The CQ22 QUERY has the following structure:

```
struct query_error_msg {  
    struct transaction type  
    struct series // Named struct no: 50000  
    struct search series  
    struct account  
    UINT32 T error id u // Error Identity  
    UINT16 T segment number n // Segment Number  
    char\[8\] from date s // Date, From  
    char\[8\] to date s // Date, To  
    char\[6\] from time s // Time, From  
    char\[6\] to time s // Time, To  
    char\[2\] filler 2 s // Filler  
}
```

### 3.3.33.4 Usage and conditions

This query is used when the Attention field, in any trade-related information received, contains a non-zero value. Detailed information is available in the Dedicated Trade Information Transaction.

This query should contain either an Error identity or a range in time including date. The time range is expressed in the system time, which normally is identical to the local time at the exchange.

#### Series

must be completed with Country Number, Market Code and Instrument Group.

#### Segment Number

is one for the first query and then incremented.

### 3.3.33.5 Answer Structure

The CA22 ANSWER has the following structure:

```
struct answer_error_msg {  
    struct transaction type  
    struct partition low  
    struct partition high  
    UINT16 T segment number n // Segment Number  
    UINT16 T items n // Items  
    Array ITEM [max no: 100] {  
        struct trading code  
        struct series // Named struct no: 50000  
        struct account  
        char\[8\] created date s // Date, Created  
        char\[6\] created time s // Time, Created  
        char\[10\] error operation s // Error, Operation  
        UINT32 T error id u // Error Identity  
        char\[40\] error problem s // Error, Problem  
    }  
}
```

```

    }
}

```

### 3.3.33.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.34 CQ31 [Simulate Fee QUERY]

### 3.3.34.1 Fingerprint

QUERY properties	
transaction type	CQ31
calling sequence	omniapi_query_ex
struct name	query_simulate_fee
facility	EP3
partitioned	false
answers	CA31

ANSWER properties	
transaction type	CA31
struct name	answer_delivery
segmented	false

### 3.3.34.2 Purpose

This query calculates the fees for a particular trade. The fees are returned as delivery information (see Answer below).

### 3.3.34.3 Structure

The CQ31 QUERY has the following structure:

```

struct query_simulate_fee {
    struct transaction\_type
    struct series // Named struct no: 50000
    INT32 T deal price i // Price, Deal
    INT64 T deal quantity i // Quantity, Deal
    struct account
    UINT8 T bid or ask c // Bid or Ask
    UINT8 T open close req c // Open Close Request
    char\[2\] filler 2 s // Filler
}

```

### 3.3.34.4 Usage and conditions

**Series**  
**Price, Deal**  
**Quantity, Deal**  
**Account**  
**Bid or Ask**  
**Open Close Request**

define the characteristics of the trade and must be specified in order for the central system to be able to calculate the fee data

### 3.3.34.5 Answer Structure

The CA31 ANSWER has the following structure:

```

struct answer_delivery {
    struct transaction_type
    struct partition low
    struct partition high
    UINT16 T segment_number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 100] {
        char[8] date s // Date
        INT32 T event_type i // Stimuli Event
        struct series // Named struct no: 50000
        struct account
        INT32 T class_no i // Class Number
        INT64 T deliv_base_quantity q // Quantity, Delivery Base
        char[8] settlement_date s // Date, Settlement
        INT64 T delivery_quantity q // Quantity, Delivery
        struct deliv_base
    }
}

```

### 3.3.34.6 Answer, comments

#### Quantity, Delivery Base

identifies the number of **Delivery Base** to deliver/receive. The sign is set from the clearinghouse's point of view (i.e. is delivered from the clearinghouse). The number of decimals used in the Quantity, Delivery Base is specified by the decimals in price in the Query Underlying Transaction, see **DQ4** (referring to the **Delivery Base**).

#### Delivery Base

identifies what to deliver.

In the answer Quantity, Delivery Base and Quantity, Delivery is summarized per Date; Event Type; Series; Customer; Account; Class Number; Date, Settlement; and Delivery Base.



### 3.3.35 CQ32 [Deal Capture Missing Exercise By Exeption QUERY]

#### 3.3.35.1 Fingerprint

QUERY properties	
transaction type	CQ32
calling sequence	omniapi_query_ex
struct name	ced_query_missing_exbyex_proxy
facility	EP5
partitioned	false
answers	CA32

ANSWER properties	
transaction type	CA32
struct name	ced_answer_missing_exbyex_proxy
segmented	false

#### 3.3.35.2 Purpose

This query is used to recover and get synchronized again after a missing sequence number is detected in the Dedicated Exercise Information flow.

#### 3.3.35.3 Structure

The CQ32 QUERY has the following structure:

```
struct ced_query_missing_exbyex_proxy {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T sequence first i // Number, First Sequential
    INT32 T sequence last i // Number, Last Sequential
    char[8] yyyyymmdd s // Date
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    CHAR filler 1 s // Filler
}
```

#### 3.3.35.4 Usage and conditions

A member can query for own Exercise Information only. A GCM member can, however, do queries on behalf of their NCMs.

##### Series

should be zeroed.

**Sequence first**

specifies the first missing sequence number. **Sequence first** must be > 0. A value of 0 in **Sequence last** means all sequence numbers starting with **Sequence first** should be returned.

**Sequence last**

specifies the last missing sequence number. A value of 0 in **Sequence last** means all sequence numbers starting with **Sequence first** should be returned.

**Date**

specifies the date for which information is requested. It could be today’s date or a previous date. How many previous dates that are available for recovery is defined by the exchange.

**Country id and External customer**

GCM members can specify an on-behalf member by filling in the Country id and External customer fields with a valid NCM. If not used, the Country id should be filled with 2 character lines, completed with trailing spaces, and External customer should be filled with 5 character lines, completed with trailing spaces.

**3.3.35.5 Return Codes**

A CQ32 transaction may also be aborted by the system, in which case only the reason for the transaction being aborted is returned to the sender.

Cstatus	Txstat
Successful	Normal
Transaction aborted	CL_EX_UNKNOWNNCMMEM - NCM member specified in transaction is unknown
Transaction aborted	CL_EX_ILLEGNCMMEM - NCM member is illegal for this GCM member
Transaction aborted	CL_EX_SEQCROSSED - Last sequence number is lower than first sequence number
Transaction aborted	CL_EX_SEQISZERO - Sequence number zero is illegal
Transaction aborted	...

Please refer to the **OM System’s Error Messages** for details on why transactions are aborted.

**3.3.35.6 Answer Structure**

The CA32 ANSWER has the following structure:

```

struct ced_answer_missing_exbyex_proxy {
    struct transaction_type
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
}
    
```

```

Array ITEM [max no: 400] {
  struct ced_exercise_info {
    struct trading_code
    struct series // Named struct no: 50000
    INT32 T rgst_type i // ROST TYPE I
    INT32 T sequence number i // Sequence Number
    INT64 T quantity i // Quantity
    INT32 T ext_status i // Return Status
    UINT8 T confirm_reject c // Confirm or Reject
    char[8] yyyyymmdd s // Date
    char[6] hmmmss s // Time, External
    char[10] account_id s // Account, Identity
    char[15] customer_info s // Customer, Information
    INT32 T total_ex_day i // TOTAL_EX_DAY_I
    INT32 T history_ex i // HISTORY_EX_I
  }
}

```

### 3.3.35.7 Answer, comments

After a successful CQ32 transaction, a list of missing Exercise Information is returned to the sender. Each response is prefaced with a header. Thereafter each record contains information that corresponds to the contents of a Dedicated Exercise Information Broadcast (BD12).

## 3.3.36 CQ36 [Average Price Trade QUERY]

### 3.3.36.1 Fingerprint

QUERY properties	
transaction type	CQ36
calling sequence	omniapi_query_ex
struct name	query_average_price_trade
facility	EP5
partitioned	false
answers	CA36

ANSWER properties	
transaction type	CA36
struct name	answer_average_price_trade
segmented	false

### 3.3.36.2 Purpose

This query returns the trade number of the trades that are part of an average price trade.

### 3.3.36.3 Structure

The CQ36 QUERY has the following structure:

```
struct query_average_price_trade {  
    struct transaction type  
    struct series // Named struct no: 50000  
    UINT16 T segment number n // Segment Number  
    char\[2\] filler 2 s // Filler  
    INT32 T trade number i // Trade Number  
}
```

### 3.3.36.4 Usage and conditions

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Segment Number

is one for the first query and then incremented.

#### Trade Number

identifies the trade, for which data is to be retrieved.

### 3.3.36.5 Answer Structure

The CA36 ANSWER has the following structure:

```
struct answer_average_price_trade {  
    struct transaction type  
    struct series // Named struct no: 50000  
    struct partition low  
    struct partition high  
    UINT16 T segment number n // Segment Number  
    UINT16 T items n // Items  
    Array ITEM [max no: 1000] {  
        INT32 T trade number i // Trade Number  
        INT64 T quantity i // Quantity  
    }  
}
```

### 3.3.36.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

### 3.3.37 CQ38 [Account QUERY]

#### 3.3.37.1 Fingerprint

QUERY properties	
transaction type	CQ38
calling sequence	omniapi_query_ex
struct name	query_account
facility	EP5
partitioned	false
answers	CA38

ANSWER properties	
transaction type	CA38
struct name	answer_account_ext
segmented	true

#### 3.3.37.2 Purpose

The purpose of this query is to retrieve account information for own accounts.

#### 3.3.37.3 Structure

The CQ38 QUERY has the following structure:

```

struct query_account {
    struct transaction type
    struct series // Named struct no: 50000
    struct account
    UINT16 T segment number n // Segment Number
    UINT8 T query on date c // Query on Date
    char\[8\] date s // Date
    CHAR filler 1 s // Filler
}

```

#### 3.3.37.4 Usage and conditions

##### Series

is not relevant in this query. However, it has to be set to zero.

##### Segment Number

is one for the first query and then incremented.

A query can be done using three methods:

1. Using Account string as search string. This can be achieved by filling in Country, Customer and Account id with explicit values. The answer is one account.
2. Using Account string as wildcard search string. This can be achieved by filling in Country and Customer with explicit values, or wildcards, and Account id with account id = "\*". The answer contains all accounts.
3. Using Date as search criteria. The answer contains all accounts modified since the Business Date given. The field Query on Date must be set to true.

### 3.3.37.5 Answer Structure

The CA38 ANSWER has the following structure:

```

struct answer_account_ext {
    struct transaction_type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 160] {
        struct account data
    }
}
    
```

### 3.3.37.6 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.38 CQ39 [Trade Change QUERY QUERY]

### 3.3.38.1 Fingerprint

QUERY properties	
transaction type	CQ39
calling sequence	omniapi_query_ex
struct name	query_missing_trade_change
facility	EP3
partitioned	false
answers	CA39

ANSWER properties	
transaction type	CA39
struct name	answer_missing_trade_change

ANSWER properties	
segmented	false

### 3.3.38.2 Related Messages

CQ10, BD39

### 3.3.38.3 Purpose

The purpose of this query is to retrieve missing trade change broadcasts.

### 3.3.38.4 Structure

The CQ39 QUERY has the following structure:

```

struct query_missing_trade_change {
    struct transaction type
    struct series // Named struct no: 50000
    UINT8 T instance c // Instance, Number
    char\[3\] filler 3 s // Filler
    INT32 T sequence first i // Number, First Sequential
    INT32 T sequence last i // Number, Last Sequential
    char\[8\] date s // Date
}

```

### 3.3.38.5 Usage and conditions

The query is intended to be used when a sequence number gap is detected or after login to read trade changes already done.

The sequence of events at startup is to first query for trades (CQ10) and then query for trade changes (CQ39).

### 3.3.38.6 Answer Structure

The CA39 ANSWER has the following structure:

```

struct answer_missing_trade_change {
    struct transaction type
    char\[2\] filler 2 s // Filler
    UINT16 T items n // Items
    Array ITEM [max no: 1000] {
        struct cl trade change api
    }
}

```

## 3.3.39 CQ40 [Auxiliary position info updated QUERY]

### 3.3.39.1 Fingerprint

QUERY properties	
transaction type	CQ40
calling sequence	omniapi_query_ex
struct name	query_updated_pos_info
facility	EP3
partitioned	true
answers	CA40

ANSWER properties	
transaction type	CA40
struct name	answer_updated_pos_info
segmented	true

### 3.3.39.2 Related Messages

BD40, CQ3

### 3.3.39.3 Purpose

This query is used for retrieving auxiliary information associated with positions that have been updated since a specified date and time.

### 3.3.39.4 Structure

The CQ40 QUERY has the following structure:

```
struct query_updated_pos_info {
    struct transaction type
    struct series // Named struct no: 50000
    struct search series
    struct account
    UINT16 T segment number n // Segment Number
    char\[8\] modified date s // Date, Modified
    char\[6\] modified time s // Time, Modified
}
```

### 3.3.39.5 Usage and conditions

The query is intended to be used after login for recovering from any missed BD40 broadcasts while the API-client was disconnected.



The auxiliary information consists of :

- quantity to be exempted from automatic/general exercise (deny exercise)
- quantity closed-out current clearing date
- quantity of underlying used as cover for short position (exchange specific)

**Series**

must be complete up to Country Number, Market Code and Instrument Group.

**Segment Number**

is one for the first query and then incremented.

**Search Series Account**

identifies the positions for which auxiliary information is to be returned in the answer.

**3.3.39.6 Answer Structure**

The CA40 ANSWER has the following structure:

```

struct answer_updated_pos_info {
    struct transaction_type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 900] {
        struct pos_info update api
    }
}
    
```

**3.3.39.7 Answer, comments**

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

**3.3.40 CQ52 [Delivery QUERY]**

**3.3.40.1 Fingerprint**

QUERY properties	
transaction type	CQ52
calling sequence	omniapi_query_ex
struct name	query_missing_delivery
facility	EP3
partitioned	true
answers	CA52

ANSWER properties	
transaction type	CA52
struct name	answer_missing_delivery
segmented	false

### 3.3.40.2 Related Messages

BD18, CQ53

### 3.3.40.3 Purpose

This query retrieves deliveries. For example, if a missing sequence number is detected for the Delivery Dedicated broadcast (BD18), this query is used to get synchronized with the broadcast flow again.

### 3.3.40.4 Structure

The CQ52 QUERY has the following structure:

```

struct query_missing_delivery {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T sequence first i // Number, First Sequential
    INT32 T sequence last i // Number, Last Sequential
    char\[8\] date s // Date
}

```

### 3.3.40.5 Usage and conditions

This transaction retrieves deliveries for the current business day, to query for historical deliveries, use CQ53.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Number, first sequential

is the first missing one.

#### Number, last sequential

is the last missing one. If the Number, last sequential is equal to zero, all available deliveries are sent in sequence.

#### Date

must hold the current Clearing date for the Instrument Type in question.

#### Class Number

is a number indicating type of settlement for a delivery item.

### 3.3.40.6 Answer Structure

The CA52 ANSWER has the following structure:

```
struct answer_missing_delivery {
    struct transaction type
    char[2] filler 2 s // Filler
    UINT16 T items n // Items
    Array ITEM [max no: 280] {
        struct cl_delivery api
    }
}
```

### 3.3.40.7 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with Number, First sequential set to the next missing sequence number after the Sequence Number of the last received item.

Apart from the header each record in the response contains the same information as the **directed\_delivery** struct in the Delivery Dedicated broadcast (BD18).

#### Date

must hold the current business date.

## 3.3.41 CQ53 [Delivery History QUERY]

### 3.3.41.1 Fingerprint

QUERY properties	
transaction type	CQ53
calling sequence	omniapi_query_ex
struct name	query_api_delivery
facility	EP5
partitioned	true
answers	CA53

ANSWER properties	
transaction type	CA53
struct name	answer_api_delivery
segmented	false

### 3.3.41.2 Related Messages

BD18, CQ52

### 3.3.41.3 Purpose

This query retrieves historical deliveries. The information is available to the trading member and the clearing member the next trading day. To retrieve deliveries for the current trading day, use CQ52.

### 3.3.41.4 Structure

The CQ53 QUERY has the following structure:

```
struct query_api_delivery {  
    struct transaction type  
    struct series // Named struct no: 50000  
    char\[8\] from date s // Date, From  
    INT32 T sequence first i // Number, First Sequential  
    char\[8\] to date s // Date, To  
    INT32 T sequence last i // Number, Last Sequential  
}
```

### 3.3.41.5 Usage and conditions

The historical delivery information is available to the members the next business day and is queried per instrument type.

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Date, From

#### Date, To

must be Clearing Dates that are historical dates compared to current Clearing date. **Date, From** must be less or equal to **Date, To**.

#### Number, first sequential

is the first item to get for **Date, From**. Zero or one means the first item for that date.

#### Number, last sequential

is the last item to get for **Date, To**. Zero means the last item for that date.

#### Class Number

is a number indicating type of settlement for a delivery item.

### 3.3.41.6 Answer Structure

The CA53 ANSWER has the following structure:

```

struct answer_api_delivery {
    struct transaction type
    struct series // Named struct no: 50000
    char[8] from date s // Date, From
    INT32 T sequence first i // Number, First Sequential
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 280] {
        struct cl_delivery api
    }
}
    
```

### 3.3.41.7 Answer, comments

#### Date

contains the date on which this delivery was created.

Apart from the header each record in the response contains the same information as the **directed\_delivery** struct in the Delivery Dedicated broadcast (BD18).

If all deliveries that reside centrally are to be fetched, the following sequence must be performed:

Loop for all instrument types defined, except for country = 255, market = 255 and instrument group = 255.

For each instrument type, do a CQ53 query until CA53 signals that no more deliveries exist.

The first CQ53 is filled with the following parameters:

- Series, filled with current instrument type.
- Date, From. Set to '19000101'.
- Sequence Number 1. Set to 1.
- Date, To. Set to yesterday's date.
- Sequence Number 2. Set to 0.

If Number, first sequential in CA53 is greater than zero, more CQ53 queries must be done to retrieve data. CQ53 must be filled with the following parameters:

- Series, filled with series in CA53.
- Date, From. Filled with Date, From in CA53.
- Sequence Number 1. Filled with Sequence Number 1 in CA53.
- Date, To. Set to yesterday's date.
- Sequence Number 2. Set to 0.

## 3.3.42 CQ61 [Holding Give Up Request QUERY]

### 3.3.42.1 Fingerprint

QUERY properties	
transaction type	CQ61

QUERY properties	
calling sequence	omniapi_query_ex
struct name	query_give_up_request
facility	EP3
partitioned	false
answers	CA61

ANSWER properties	
transaction type	CA61
struct name	answer_give_up_request
segmented	true

### 3.3.42.2 Related Messages

CC38

CC40

BD29

CQ76

CQ77

### 3.3.42.3 Purpose

The query returns Give-up requests in a holding state, but may also return Give-up requests in other states depending on the query criteria (see below). The answer contains information to facilitate the tracking of give-ups and their origins.

### 3.3.42.4 Structure

The CQ61 QUERY has the following structure:

```

struct query_give_up_request {
    struct transaction type
    struct series // Named struct no: 50000
    struct party
    UINT32 T ext trade number u // Trade Number, External
    UINT16 T segment number n // Segment Number
    UINT8 T state c // State
    CHAR buy or sell c // Buy or Sell
    UINT8 T send or receive c // Send or Receive
    char[8] created date s // Date, Created
    char[32] series id s // Series, Identity
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    char[30] give up text s // Give Up, Free Text
    char[2] filler 2 s // Filler
}

```

### 3.3.42.5 Usage and conditions

**Note:** It is recommended to use BD29/CQ76 instead of CQ61.

Facility EP3 should be used for current date and facility EP5 for historic dates.

The query is only partitioned when used on facility EP3.

Use CC38 to confirm or reject a Give-up request.

**Series**

must be complete up to **Country Number, Market Code and Instrument Group**. Determines clearing partition when querying for current business date on facility EP3.

**Date, Created**

must be filled with the business date when the Give-up request was created.

**Segment Number**

should be set to 1 for retrieving the first answer segment from a partition and then incremented for retrieval of subsequent answer segments.

**State**

has the following impact on the returned give-up requests in the answer:

0	all give-ups are returned regardless of state
1	Holding
5	Completed
6	Rejected

**Series Id**

should contain an explicit series name or a series wildcard string.

**Send or Receive**

defines the interpretation of the member (**Name, Country and Customer, Identity**) and **Party** field.

When set to '1' (send), the member field is used for filtering of the participant initiating the **Give-Up** and the **Party** fields are used for filtering the receiving/destination member for the give-up.

If set to '2' (receive), the member field is used for filtering of the participant receiving **Give-Up** and the **Party** fields are used used for filtering the member initiating the give-up.

**Country, Name and Customer Identity**

specifies give-up/take-up member (participant id) for filtering give-up.

Wildcard search/filtering can be used. Must be filled with "\*", "\*" when doing a wildcard search

**Party**

specifies take-up/give-up member (participant id) for filtering give-up.

Wildcard search/filtering can be used. Must be filled with “\*”, “\*\*” when doing a wildcard search.

#### **Buy or Sell**

allows for filtering on give-ups on buy (1) or sell (2) trades.

Filtering will not be applied if set to 0.

#### **Give Up, Free Text**

allows searching for give-up(s) with specified “Free text”.

Wildcard search/filtering can be used. Must be set to “\*” when doing a wildcard search.

#### **Trade Number, External**

allows searching for give-up(s) on trade(s) with specified external trade number.

External trade number on trades is not used by all exchanges.

Must be set to 0 when doing a wildcard search.

### **3.3.42.6 Answer Structure**

The CA61 ANSWER has the following structure:

```

struct answer_give_up_request {
    struct transaction type
    struct partition low
    struct partition high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 420] {
        struct series // Named struct no: 50000
        struct account
        struct party
        INT32 T give up number i // Give Up, Number
        INT64 T trade quantity i // Quantity, Trade
        INT32 T deal price i // Price, Deal
        INT32 T trade number i // Trade Number
        INT32 T commission i // Commission
        UINT8 T bought or sold c // Bought or Sold
        UINT8 T state c // State
        char[8] created date s // Date, Created
        char[6] created time s // Time, Created
        char[30] give up text s // Give Up, Free Text
        char[8] asof date s // Date, As Of
        char[6] asof time s // Time, As Of
        char[8] orig clearing date s // Clearing Date, Original
        UINT8 T old trade c // Old Trade Indicator
        CHAR ext trade fee type c // External Trade, Fee Type
        UINT8 T deal source c // Deal Source
        UINT8 T reserved prop c // Reserved Properties
        char[8] clearing date s // Clearing Date
        UINT32 T ext trade number u // Trade Number, External
        UINT32 T orig ext trade number u // Trade Number, Original External
    }
}

```



### 3.3.42.7 Answer, comments

#### Account

describes the destination member in the giveup. The 10 last characters may be left blank, thus only defining the member, or set to point out a specific account.

#### Party

identifies the customer that gives up the trade.

#### Deal source

data refer to the original trade's deal source. Please refer to the detailed field descriptions for further information.

The following fields describe the trade that is subject to the giveup:

- Series
- Party
- Bought or Sold
- Quantity, Trade
- Price, Deal
- Trade Number
- Date, Created
- Time, Created
- Date, As Of
- Time, As Of
- Original Clearing Date
- Old Trade Indicator
- Deal Source
- External Trade Fee Type
- Trade Number, External
- Original Trade Number, External

The Quantity, Trade field specifies the give-up portion of the trade.

Of these, Date, As Of; Time, As Of; Original Clearing Date; Old Trade Indicator; Deal Source; External Trade Fee Type only contain significant data for give-up requests made the current business day and whose states are either holding or completed.

Give-Up Number; State; Account; Give-Up Free Text, Clearing Date are fields that describe the giveup. Clearing Date is the clearing date of the giveup itself.

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

### 3.3.43 CQ62 [Confirm Give Up Request QUERY]

#### 3.3.43.1 Fingerprint

QUERY properties	
transaction type	CQ62
calling sequence	omniapi_query_ex
struct name	query_conf_give_up_req_items
facility	EP5
partitioned	false
answers	CA62

ANSWER properties	
transaction type	CA62
struct name	answer_conf_give_up_req_items
segmented	false

#### 3.3.43.2 Related Messages

CC38, CQ61

#### 3.3.43.3 Purpose

This query returns the give-up items sent when a giveup was confirmed. This query can only be sent for a confirmed giveup.

#### 3.3.43.4 Structure

The CQ62 QUERY has the following structure:

```
struct query_conf_give_up_req_items {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T give up number i // Give Up, Number
}
```

#### 3.3.43.5 Usage and conditions

Use CQ61 to query for Give-up requests in holding state.

Use CC38 to reject or confirm holding Give-up requests.

##### Series

must contain the whole series for the giveup.

**Give up number**

identifies the give-up.

**3.3.43.6 Answer Structure**

The CA62 ANSWER has the following structure:

```

struct answer_conf_give_up_req_items {
    struct transaction_type
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 50] {
        struct account
        INT64 T trade quantity i // Quantity, Trade
        UINT8 T open close req c // Open Close Request
        char[15] customer info s // Customer, Information
    }
}
    
```

**3.3.43.7 Answer, comments**

This information is the same information as sent in the Confirm Give-Up Trade Transaction, see **CC38**.

**3.3.44 CQ64 [Commission Table QUERY]**

**3.3.44.1 Fingerprint**

QUERY properties	
transaction type	CQ64
calling sequence	omniapi_query_ex
struct name	query_commission
facility	EP5
partitioned	false
answers	CA64

ANSWER properties	
transaction type	CA64
struct name	answer_commission
segmented	false

### 3.3.44.2 Related Messages

CC41, BI71

### 3.3.44.3 Purpose

This query returns commission rules from the commission table for the specified member.

### 3.3.44.4 Structure

The CQ64 QUERY has the following structure:

```
struct query_commission {  
    struct transaction type  
    struct series // Named struct no: 50000  
    struct party  
    UINT8 T send or receive c // Send or Receive  
    char\[3\] filler 3 s // Filler  
}
```

### 3.3.44.5 Usage and conditions

#### Series

select records from the table and may optionally contain *Country Number, Market Code, Instrument Group, Commodity* or the full series.

#### Party

identifies the member that sends or receives a give-up. Party must contain the country and customer identity.

### 3.3.44.6 Answer Structure

The CA64 ANSWER has the following structure:

```
struct answer_commission {  
    struct transaction type  
    struct party  
    UINT8 T send or receive c // Send or Receive  
    CHAR filler 1 s // Filler  
    UINT16 T items n // Items  
    Array ITEM [max no: 800] {  
        struct series // Named struct no: 50000  
        struct party  
        char\[10\] account id s // Account, Identity  
        char\[15\] customer info s // Customer, Information  
        char\[8\] created date s // Date, Created  
        char\[6\] created time s // Time, Created  
        char\[12\] user code s // User Code  
        CHAR filler 1 s // Filler  
        INT32 T commission i // Commission  
    }  
}
```

```
}
}
```

### 3.3.44.7 Answer, comments

**Party, Send or Receive**

contain the same information as in the query.

**Series, Party, Account, Customer Information**

describe a commission rule. These fields do not necessarily contain any data.

**Commission**

is the default commission to the receiver of a give-up or the commission expected by the receiver of a give-up.

### 3.3.45 CQ65 [Level Position QUERY]

#### 3.3.45.1 Fingerprint

QUERY properties	
transaction type	CQ65
calling sequence	omniapi_query_ex
struct name	query_pos_level
facility	EP3
partitioned	true
answers	CA65

ANSWER properties	
transaction type	CA65
struct name	answer_position
segmented	true

#### 3.3.45.2 Related Messages

CQ3

#### 3.3.45.3 Purpose

The purpose of this transaction is to allow for members and clearinghouse personell to query for positions on different account levels. The positions are grouped according to their origin (e.g. Client or House) or their margin account. This allows to query for a firm’s total exposure to a series.

**Note:** Positions will only be retrieved for instruments having the Maintain Positions parameter set to Yes.

### 3.3.45.4 Structure

The CQ65 QUERY has the following structure:

```
struct query_pos_level {
    struct transaction_type
    struct series // Named struct no: 50000
    struct account
    char[32] series id s // Series, Identity
    INT32 T summary i // Summary
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
    char[8] date s // Date
    char[12] account type s // Account Type
    INT32 T level type i // Level Type
}
```

### 3.3.45.5 Usage and conditions

#### Account

If the field Account contains any wildcards, the **Summary** field must be set to 1 (yes); the query transaction will otherwise be aborted with an error-status.

#### Account Type

When filled must either be a valid account type name or a valid wildcard representation of an Account Type name. If Account Type is not blank, only positions on accounts with an Account Type matching the argument is returned in the answer.

#### Level Type

specifies the account level of interest; origin or margin.

#### Segment Number

is one for the first query and then incremented.

#### Series Id

should contain an explicit series name or a series wildcard string.

#### Summary

specifies whether to return the aggregated positions on the specified account level or if the individual position items are to be returned.

Summary =2 (no) is only applicable if the field **Customer Account** does not contain any wildcards, i.e. it identifies a single account. In that case, one may retrieve all the individual 'position items' making up the aggregated (and "propagated") position on a margin or origin account.

#### Date

must be valid and have one of the following values:

- Previous calendar date: The overnight (O/N) position is returned. These positions are static during the day.
- Today's business date. The current position for the current clearing date (provided it exists for the instrument) is returned.
- Next calendar date. The current position for the next clearing date is returned; trades as of next clearing date are added to the current clearing date position.

Note that the previous and next calendar date is in relation to current business date in the system. For example, the previous calendar date will refer to a Sunday when current business date is a Monday.

This query is used when the account structure makes it relevant to ask for Origin Level and Margin Level accounts. Use Position Information Transaction, see **CQ3**, for an ordinary account level query.

### 3.3.45.6 Answer Structure

The CA65 ANSWER has the following structure:

```

struct answer_position {
    struct transaction_type
    struct partition_low
    struct partition_high
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 500] {
        struct series // Named struct no: 50000
        char[8] modified date s // Date, Modified
        char[6] modified time s // Time, Modified
        UINT8 T reserved prop c // Reserved Properties
        CHAR filler 1 s // Filler
        INT64 T nbr held q // Held
        INT64 T nbr written q // Written
        INT64 T deny exercise q // Deny Exercise
        struct account
        UINT32 T quantity cover u // Quantity Cover
        INT64 T qty closed out q // Quantity, Closed out
    }
}

```

### 3.3.45.7 Answer, comments

#### Quantity, Cover

states the quantity of underlying equity that is used as cover for this position. This field is normally set to zero. Only if the query's **Date** was set to Today's calendar date can this field have a non-zero value.

The response is structured the same way as is CA3.

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.46 CQ68 [Clearing Date QUERY]

### 3.3.46.1 Fingerprint

QUERY properties	
transaction type	CQ68
calling sequence	omniapi_query_ex
struct name	query_clearing_date
facility	EP5
partitioned	false
answers	CA68

ANSWER properties	
transaction type	CA68
struct name	answer_clearing_date
segmented	false

### 3.3.46.2 Purpose

The purpose of this query is to retrieve information on the current and the next clearing date for instrument types.

### 3.3.46.3 Structure

The CQ68 QUERY has the following structure:

```
struct query_clearing_date {
    struct transaction type
    struct series // Named struct no: 50000
    struct search series
}
```

### 3.3.46.4 Usage and conditions

#### Series, Search

may be zeroed to retrieve clearing date information on all instrument types handled by a particular clearing server.

### 3.3.46.5 Answer Structure

The CA68 ANSWER has the following structure:



```

struct answer_clearing_date {
    struct transaction type
    struct partition low
    struct partition high
    char[16] omex version s // OMEX Version
    char[8] business date s // Date, Business
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 1000] {
        struct series // Named struct no: 50000
        char[8] clearing date s // Clearing Date
        char[8] next clearing date s // Clearing Date, Next
        char[8] prev clearing date s // Clearing Date, Previous
        CHAR tra cl next day c // Cleared Next Day
        char[3] filler 3 s // Filler
    }
}
    
```

### 3.3.46.6 Answer, comments

#### Series

is specified to Instrument Type level, i.e. **Country Number**, **Market Code** and **Instrument Group**.

#### Clearing Date

Please note that the Clearing Date field might be blank in case there is no current clearing date, i.e. the instrument type isn't cleared the current business date. This would typically be the case if some products are not traded or cleared due to a country specific holiday.

The answer received contains information on the preceding, current and following clearing date for a number of instrument types. Each response is prefaced with the transaction type (CA68), the current system version, the current business date in the system and an item field specifying the number of records contained in the response.

### 3.3.47 CQ72 [Net Open Interest QUERY]

#### 3.3.47.1 Fingerprint

QUERY properties	
transaction type	CQ72
calling sequence	omniapi_query_ex
struct name	query_open_interest_ext
facility	EP3
partitioned	true
answers	CA72

ANSWER properties	
transaction type	CA72
struct name	answer_open_interest_ext
segmented	false

### 3.3.47.2 Related Messages

CQ20 – Open Interest

### 3.3.47.3 Purpose

The purpose of this query is to retrieve the net and gross market open interest per series. This query is only available when the signal BI7, Information Type 1 has been sent.

### 3.3.47.4 Structure

The CQ72 QUERY has the following structure:

```
struct query_open_interest_ext {
    struct transaction_type
    struct series // Named struct no: 50000
    struct search_series
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
    char[8] date s // Date
}
```

### 3.3.47.5 Usage and conditions

This query should contain either an Error identity or a range in time including date. The time range is expressed in the system time, which normally is identical to the local time at the exchange.

#### Series

must be complete up to **Country Number** and **Market Code**.

#### Segment Number

is one for the first query and then incremented.

#### Search Series

identifies the series for which data is to be returned in the answer.

### 3.3.47.6 Answer Structure

The CA72 ANSWER has the following structure:

```
struct answer_open_interest_ext {
```

```

struct transaction type
struct partition low
struct partition high
UINT16 T segment number n // Segment Number
UINT16 T items n // Items
Array ITEM [max no: 1000] {
    struct series // Named struct no: 50000
    UINT64 T gross open interest q // Gross Open Interest
    UINT64 T net open interest q // Net Open Interest
    UINT64 T member net open interest q // Net Open interest, Member
}
}

```

### 3.3.47.7 Answer, comments

If the maximum number of items for one transaction is returned, the query should be repeated with incremented segment number.

## 3.3.48 CQ76 [Give Up QUERY]

### 3.3.48.1 Fingerprint

QUERY properties	
transaction type	CQ76
calling sequence	omniapi_query_ex
struct name	query_missing_give_up
facility	EP3
partitioned	true
answers	CA76

ANSWER properties	
transaction type	CA76
struct name	answer_missing_give_up
segmented	true

### 3.3.48.2 Related Messages

BD29

### 3.3.48.3 Purpose

The purpose of this transaction is to retrieve Give-up information. The information retrieved with this query is the same as is delivered in the Holding Give-up broadcast (BD29) broadcast. Thus, if a missing sequence number is detected for BD29, this query is used to get in synch with the broadcast flow again.

### 3.3.48.4 Structure

The CQ76 QUERY has the following structure:

```
struct query_missing_give_up {  
    struct transaction type  
    struct series // Named struct no: 50000  
    INT32 T sequence first i // Number, First Sequential  
    INT32 T sequence last i // Number, Last Sequential  
    char\[8\] date s // Date  
}
```

### 3.3.48.5 Usage and conditions

#### Series

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

#### Number, first sequential

is the first missing one.

#### Number, last sequential

is the last missing one. If the Number, last sequential is equal to zero, all available deliveries are sent in sequence.

#### Date

must be current or next clearing date.

### 3.3.48.6 Answer Structure

The CA76 ANSWER has the following structure:

```
struct answer_missing_give_up {  
    struct transaction type  
    UINT16 T items n // Items  
    char\[2\] filler 2 s // Filler  
    Array ITEM [max no: 300] {  
        struct cl give up api  
    }  
}
```

### 3.3.48.7 Answer, comments

Apart from the header each record in response contains the same information as `directed_give_up_t`.

If the maximum number of items for one transaction is returned, the query should be repeated with Number, First sequential set to the next missing sequence number after the Sequence Number of the last received item.

## 3.3.49 CQ77 [Give Up History QUERY]

### 3.3.49.1 Fingerprint

QUERY properties	
transaction type	CQ77
calling sequence	omniapi_query_ex
struct name	query_api_give_up
facility	EP5
partitioned	true
answers	CA77

ANSWER properties	
transaction type	CA77
struct name	answer_api_give_up
segmented	false

### 3.3.49.2 Related Messages

CQ76

### 3.3.49.3 Purpose

This query is used to retrieve historical Give-ups. The information is available to the member the next business day. Historical Give-ups are queried per instrument type. To retrieve Give-ups for the current trading day, use CQ76.

### 3.3.49.4 Structure

The CQ77 QUERY has the following structure:

```
struct query_api_give_up {
    struct transaction type
    struct series // Named struct no: 50000
    char[8] from date s // Date, From
    INT32 T sequence first i // Number, First Sequential
    char[8] to date s // Date, To
    INT32 T sequence last i // Number, Last Sequential
}
```

### 3.3.49.5 Usage and conditions

**Series**

must be completed with **Country Number**, **Market Code** and **Instrument Group**.

**Date, From**  
**Date, To**

must be Clearing Dates that are historical dates compared to current Clearing date. Clearing Date, From must be less or equal to Clearing Date, To.

**Sequence Number 1**

is the first item to get for **Clearing Date, From**. Zero or one means the first item for that date.

**Sequence Number 2**

is the last item to get for **Clearing Date, To**. Zero means the last item for that date.

### 3.3.49.6 Answer Structure

The CA77 ANSWER has the following structure:

```
struct answer_api_give_up {
    struct transaction_type
    struct series // Named struct no: 50000
    char[8] from date s // Date, From
    INT32 T sequence first i // Number, First Sequential
    UINT16 T items n // Items
    char[2] filler 2 s // Filler
    Array ITEM [max no: 300] {
        struct cl give up api
    }
}
```

### 3.3.49.7 Answer, comments

Apart from the header each record in response contains the same information as directed\_give\_up\_t.

If all giveups that reside centrally are to be fetched, the following sequence must be performed:

Loop for all instrument types defined, except for country = 255, market = 255 and instrument group = 255.

For each instrument type, do a CQ77 query until CA77 signals that no more give ups exist.

The first CQ77 is filled with the following parameters:

- Series, filled with current instrument type.
- Clearing Date, From. Set to '19000101'.
- Sequence Number 1. Set to 1.
- Clearing Date, To. Set to yesterday's date.
- Sequence Number 2. Set to 0.

If Sequence Number 1 in CA77 is greater than zero, more CQ77 queries must be done to retrieve data. CQ77 must be filled with the following parameters:

- Series, filled with series in CA77.
- Clearing Date, From. Filled with Clearing Date, From in CA77.

- Sequence Number 1. Filled with Sequence Number 1 in CA77.
- Clearing Date, To. Set to yesterday's date.
- Sequence Number 2. Set to 0.

### 3.3.50 CQ122 [Position History QUERY]

#### 3.3.50.1 Fingerprint

QUERY properties	
transaction type	CQ122
calling sequence	omniapi_query_ex
struct name	query_position_history
facility	EP5
partitioned	false
answers	CA122

ANSWER properties	
transaction type	CA122
struct name	answer_position_history
segmented	true

#### 3.3.50.2 Related Messages

CQ123, CD54, CD55

#### 3.3.50.3 Purpose

This query retrieves historical information and closed-out quantities on a particular position identified by the position account and instrument series.

#### 3.3.50.4 Structure

The CQ122 QUERY has the following structure:

```
struct query_position_history {
    struct transaction type
    struct series // Named struct no: 50000
    struct account
    char\[8\] date s // Date
}
```

### 3.3.50.5 Usage and conditions

**Series**

- Series together with account identifies the position.
- Series must be completely filled and identify an existing series.

**Account**

- Account together with series identifies the position.
- Account must identify a specific account.
- Wildcards in account is not supported.

**Date**

must be prior to current Clearing date.

### 3.3.50.6 Answer Structure

The CA122 ANSWER has the following structure:

```

struct answer_position_history {
    struct transaction type
    struct partition low
    struct partition high
    struct series // Named struct no: 50000
    struct account
    INT64 T nbr held q // Held
    INT64 T nbr written q // Written
    INT64 T qty closed out q // Quantity, Closed out
    char[8] date_s // Date
}
    
```

## 3.3.51 CQ123 [Position Closeout Log QUERY]

### 3.3.51.1 Fingerprint

QUERY properties	
transaction type	CQ123
calling sequence	omniapi_query_ex
struct name	query_closeout_log
facility	EP5
partitioned	false
answers	CA123



ANSWER properties	
transaction type	CA123
struct name	answer_closeout_log
segmented	true

### 3.3.51.2 Related Messages

CQ122, CD54, CD55

### 3.3.51.3 Purpose

This query retrieves information on position closeout and position reinstatement requests.

### 3.3.51.4 Structure

The CQ123 QUERY has the following structure:

```

struct query_closeout_log {
    struct transaction_type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
    struct account
    char[32] series id s // Series, Identity
    char[8] from date s // Date, From
    char[6] from time s // Time, From
    char[8] to date s // Date, To
    char[6] to time s // Time, To
}

```

### 3.3.51.5 Usage and conditions

#### Series

should be filled with Country number, Market code and Instrument group.

#### Segment number

is one for the first query and then incremented.

#### Series, Identity

should contain an explicit series name or a series wildcard string.

#### Account

must identify a specific member. Wildcards is only supported in “Account identity” part pf Account

#### Date, From

is the time range start date for which position closesout information is requested.

**Date, To**

is the time range stop date for which position closesout information is requested.

**Time, From**

is the time range start time for which position closesout information is requested.

**Time, To**

is the time range stop time for which position closesout information is requested.

The range in time (and date) is expressed in the system time, which normally is identical to the local time at the exchange.

**3.3.51.6 Answer Structure**

The CA123 ANSWER has the following structure:

```

struct answer_closeout_log {
    struct transaction_type
    struct partition low
    struct partition high
    UINT16 T segment_number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 825] {
        struct trading_code
        struct series // Named struct no: 50000
        struct account
        INT64 T closeout_qty i // Quantity, Close out
        char[8] date s // Date
        char[8] created_date s // Date, Created
        char[6] created_time s // Time, Created
        UINT8 T open_close c // Open or Closed
        UINT8 T state c // State
    }
}
    
```

**3.4 Reports**

**3.4.1 LQ3 [List with Version QUERY]**

**3.4.1.1 Fingerprint**

QUERY properties	
transaction type	LQ3
calling sequence	omniapi_query_ex
struct name	query_list_ver

QUERY properties	
facility	EP4
partitioned	false
answers	LA3

ANSWER properties	
transaction type	LA3
struct name	answer_list_ver
segmented	true

### 3.4.1.2 Purpose

This transaction is used for transferring report files of a specific version.

### 3.4.1.3 Structure

The LQ3 QUERY has the following structure:

```

struct query_list_ver {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[8] date s // Date
    char[3] report version s // Report Version
    char[3] filler 3 s // Filler
    INT32 T info type i // Information Type
}

```

### 3.4.1.4 Usage and conditions

#### Series

can be completed with Country Number and Market Code, but accepts blank and will then reply with reports for all markets.

### 3.4.1.5 Answer Structure

The LA3 ANSWER has the following structure:

```

struct answer_list_ver {
    struct transaction type
    struct series // Named struct no: 50000
    INT32 T info type i // Information Type
    UINT16 T segment number n // Segment Number
    char[40] list name s // Name, List
    char[3] report version s // Report Version
    CHAR filler 1 s // Filler
}

```

```

char[8] file_type s // File Type
UINT16 T_items n // Items
char[50000] text_buffer s // Text, Buffer
}

```

### 3.4.1.6 Answer, comments

#### Item

the number of lines in the text buffer. Each line starts with a two-byte length word. The length word is word aligned.

#### Report Version

identifies the report version. The field has the format of a three character zero padded numeric value. It will be filled with space for report types with a date switch not equal to 3.

#### File Type

contains the suffix of the report file.

The response is received as a list of text lines.

## 3.4.2 LQ4 [Available Reports with Version QUERY]

### 3.4.2.1 Fingerprint

QUERY properties	
transaction type	LQ4
calling sequence	omniapi_query_ex
struct name	query_report_ver
facility	EP4
partitioned	false
answers	LA4

ANSWER properties	
transaction type	LA4
struct name	answer_report_ver
segmented	true

### 3.4.2.2 Purpose

This transaction is used for querying for available report versions.

### 3.4.2.3 Structure

The LQ4 QUERY has the following structure:

```

struct query_report_ver {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[8] date s // Date
    char[2] filler 2 s // Filler
    INT32 T info type i // Information Type
}

```

### 3.4.2.4 Usage and conditions

#### Series

can be completed with Country Number and Market Code, but accepts blank and will then reply with reports for all markets.

#### Information Type

- Information Type = 0 (returns all available reports for specified business date)
- Information Type = 256 (returns all possible reports for specified business date)
- Information Type = <specific report type number> (returns all available reports for specified business date and chosen report)

Note the difference between 'available' = already created and accessible via LQ3 and 'possible' = description about reports that can be created in the system.

A query about 'available' reports will return ALL versions if there are multiple reports for selected business date.

A query about 'possible' reports will return one item per possible type including a short description.

### 3.4.2.5 Answer Structure

The LA4 ANSWER has the following structure:

```

struct answer_report_ver {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 450] {
        struct series // Named struct no: 50000
        INT32 T info type i // Information Type
        char[8] date s // Date
        char[2] country id s // Name, Country
        char[12] report owner s // Report owner
        char[3] report version s // Report Version
        char[32] name s // Name
        char[8] file type s // File Type
    }
}

```

```

        char[40] description s // Description
        UINT8 T ascii bin c // ASCII or Binary
        char[8] created date s // Date, Created
        char[6] created time s // Time, Created
    }
}

```

### 3.4.2.6 Answer, comments

#### Report Version

identifies the report version. The field has the format of a three character zero padded numeric value. It will be filled with space for report types with a date switch not equal to 3. This field can be used to fill the sequence number field in a LQ3 transaction.

#### File Type

contains the suffix of the report file.

The response is received as a list of text lines.

## 3.5 Miscellaneous

### 3.5.1 BI7 [Signal Information Ready BROADCAST]

#### 3.5.1.1 Fingerprint

BROADCAST properties	
transaction type	BI7
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	info_ready
info type	general

#### 3.5.1.2 Purpose

This broadcast is used throughout the system to notify processes and applications that certain information is at hand, or that specific events have occurred. The nature of the message lies within the broadcast's information type and is interpreted according to the list given in the documentation of the Information Type field.

#### 3.5.1.3 Structure

The BI7 BROADCAST has the following structure:

```

struct info_ready {
    struct broadcast type

```

```

INT32 T info type i // Information Type
struct series // Named struct no: 50000
char[8] business date s // Date, Business
char[8] sent date s // Date, Sent
char[6] sent time s // Time, Sent
char[8] clearing date s // Clearing Date
UINT16 T seq num srm n // Sequence number for SRM
}

```

### 3.5.1.4 Usage and Conditions

#### Information Type

In general, only a subset of the information types is of relevance to a specific exchange. The following information types are considered relevant in the context of this manual. Note that the descriptions below are to be regarded as complementary text to the descriptions in the **Detailed Field Information** chapter. Note also that the **Detailed Field Information** chapter lists all information types.

Information type	Interpretation	Comment
1	Binary information ready	When the signal is sent, all binary clearing data is ready for retrieval (per instrument type).  Series contains in this case Country Number, Market Code and Instrument Group.
2	All reports ready	Not used in Genium INET.
3	Product in repair state	The signal BI7 type 3 is sent in the evening if new data is to be produced for the current business date and a BI7 type 1 has already been sent. Other BI7 type signals might also have been sent, e.g. BI7, type 2. After the BI7 type 3 signal has been sent, new trades via Dedicated Trade Information Broadcast and new deliveries via BD18 is sent followed by a BI7 type 1 signal and possibly other BI7 signals. This is used in case of an emergency situation.  Series contains in this case Country Number and Market Code.
8	Margin information ready	Series contains in this case Country Number and Market Code.
9	Margin vector information ready	Series contains in this case Country Number and Market Code.
10	Margin information from margin call ready	This could be done intra-day.  Series contains in this case Country Number and Market Code.
11	Sum margin information ready	Series contains in this case only zeroes.
12	New series generated	Series contains in this case; Country Number and Market, or Country Num-

Information type	Interpretation	Comment
		ber, Market and Instrument Group, or Country Number, Market, Instrument Group and Commodity.
13	All securities closed	
16	Exercise/delivery information	Series contains in this case; Instrument type. Only used in linked clearing.
17	Open interest ready	Series contains in this case; Instrument type. Only used in linked clearing.
19	Signal fixing ready	Only sent on redemption. Series contains in this case Country Number and Market Code.
41	Margin Evening Prices and preliminary vector files ready	-
42	Intra Day Margin Calculation ready	This information is sent out when the intra day calculation has totally finished.
49	API data from Intra Day Margin Calculation ready	This information type is sent out when API data from intra day calculation is available, but reports still remain to be created.
50	Owl cycle ready	This information type is used instead of type 42 when dealing with owl cycle results.
51	API data from Owl cycle ready	This information type is used instead of type 49 when dealing with owl cycle results.
100	Daily trading statistics ready	This information type is use to declare that the daily trade statistics is available for current business day. Series contains in this case Country Number and Market Code.
101	Revised Daily Trade statistics information	This information type is use to declare that the daily trade statistics for a previous business day has been updated with a new revised open interest. Series contains in this case Country Number and Market Code.
256 and above	Report <no> ready	This information type is used to declare that a certain report is now available.  Information Type identifies the report.  Series contains in this case Country Number and Market Code.



Information type	Interpretation	Comment
		Signals sent to indicate when specific reports are available depend on Exchange policy.

## 3.5.2 BI27 [Clearing message BROADCAST]

### 3.5.2.1 Fingerprint

BROADCAST properties	
transaction type	BI27
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	clearing_message
info type	general

### 3.5.2.2 Purpose

This is a Clearing Message broadcast. The text is sent from the Clearinghouse and all connected Back Office applications have the possibility to display the message.

### 3.5.2.3 Structure

The BI27 BROADCAST has the following structure:

```

struct clearing_message {
    struct broadcast_type
    UINT16 T broadcast number n // Broadcast Number
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT16 T items n // Items
    Array ITEM [max no: 10] {
        char\[80\] text line s // Text, Line
    }
}

```

### 3.5.2.4 Usage and conditions

#### Market

If the **Country Number** field in Market is = 0, the message concerns all Exchanges, otherwise a specific Country Number is specified.

If the **Market Code** field in Market is = 0 the message concerns all markets, otherwise a specific Market Code is specified.

#### Text Buffer

contains 80 characters lines, completed with trailing spaces, but no carriage return or other control characters.

### 3.5.3 BI71 [Set Commission Table BROADCAST]

#### 3.5.3.1 Fingerprint

BROADCAST properties	
transaction type	BI71
calling sequence	omniapi_read_event_ext_ex or omniapi_read_event_block
struct name	set_commission_table
info type	general

#### 3.5.3.2 Purpose

This broadcast makes it possible for applications to detect when the data in the commission table is changed. It is sent out every time the commission table is modified.

#### 3.5.3.3 Structure

The BI71 BROADCAST has the following structure:

```
struct set_commission_table {
    struct broadcast_type
    struct party
}
```

#### 3.5.3.4 Usage and Conditions

##### Party

indicates for which member the database table has been modified.

### 3.5.4 UQ9 [BI7 Signals Sent QUERY]

#### 3.5.4.1 Fingerprint

QUERY properties	
transaction type	UQ9
calling sequence	omniapi_query_ex
struct name	query_bi7_signals_sent
facility	EP0
partitioned	false

QUERY properties	
answers	UA9

ANSWER properties	
transaction type	UA9
struct name	answer_bi7_signals_sent
segmented	true

### 3.5.4.2 Purpose

The purpose of this query is to retrieve all Signal Binary Information (BI7) signals sent for the date given in the query.

### 3.5.4.3 Structure

The UQ9 QUERY has the following structure:

```
struct query_bi7_signals_sent {
    struct transaction type
    struct search series
    UINT16 T segment number n // Segment Number
    char[8] business date s // Date, Business
    UINT16 T seq num srm n // Sequence number for SRM
}
```

### 3.5.4.4 Answer Structure

The UA9 ANSWER has the following structure:

```
struct answer_bi7_signals_sent {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 1000] {
        struct series // Named struct no: 50000
        INT32 T info type i // Information Type
        char[8] business date s // Date, Business
        char[8] clearing date s // Clearing Date
        char[8] sent date s // Date, Sent
        char[6] sent time s // Time, Sent
        UINT16 T seq num srm n // Sequence number for SRM
    }
}
```

## 3.5.5 UQ12 [Business Date QUERY]

### 3.5.5.1 Fingerprint

QUERY properties	
transaction type	UQ12
calling sequence	omniapi_query_ex
struct name	query_business_date
facility	EP1
partitioned	false
answers	UA12

ANSWER properties	
transaction type	UA12
struct name	answer_business_date
segmented	false

### 3.5.5.2 Purpose

The purpose of this query is to get the current business date, the UTC date and time.

### 3.5.5.3 Structure

The UQ12 QUERY has the following structure:

```
struct query_business_date {
    struct transaction type
}
```

### 3.5.5.4 Usage and Conditions

Note that the retrieved information is not for time synchronization purposes. For synchronization purposes use NTP (Network Time Protocol.) The answer also contains the exchanges TZ-variable and the current offset between UTC and the local time specified in the TZ-variable. The answer also consists of the current system version.

### 3.5.5.5 Answer Structure

The UA12 ANSWER has the following structure:

```
struct answer_business_date {
    struct transaction type
    char\[16\] omex version s // OMEX Version
    char\[8\] business date s // Date, Business
}
```

```

char[8] utc date s // UTC, Date
char[6] utc time s // UTC, Time
char[40] tz variable s // TZ-Variable
char[2] filler 2 s // Filler
INT32 T utc offset i // UTC, Offset
}

```

### 3.5.5.6 Answer, comments

The response received is the current business date and the current system version.

## 3.5.6 UQ13 [BI27 Broadcasts Sent QUERY]

### 3.5.6.1 Fingerprint

QUERY properties	
transaction type	UQ13
calling sequence	omniapi_query_ex
struct name	query_bi27_broadcasts_sent
facility	EP1
partitioned	false
answers	UA13

ANSWER properties	
transaction type	UA13
struct name	answer_bi27_broadcasts_sent
segmented	true

### 3.5.6.2 Purpose

The purpose of this query is to retrieve all Clearing Message (BI27) broadcasts that have been sent on the current business date.

### 3.5.6.3 Structure

The UQ13 QUERY has the following structure:

```

struct query_bi27_broadcasts_sent {
    struct transaction type
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}

```

### 3.5.6.4 Answer Structure

The UA13 ANSWER has the following structure:

```

struct answer_bi27_broadcasts_sent {
    struct transaction type
    UINT16 T segment number n // Segment Number
    CHAR filler 1 s // Filler
    UINT8 T items c // Item
    Array ITEM1 [max no: 50] {
        UINT16 T broadcast number n // Broadcast Number
        UINT8 T country c // Country Number
        UINT8 T market c // Market Code
        UINT16 T items n // Items
        char[2] filler 2 s // Filler
        Array ITEM2 [max no: 10] {
            char[80] free text 80 s // Text , Free
        }
    }
}

```

### 3.5.6.5 Answer, comments

The text buffer contains 80 character lines, completed with trailing spaces, but no carriage return or other control characters.

## 3.6 Risk Management

### 3.6.1 RQ44 [Margin Underlying Real Time Price QUERY]

#### 3.6.1.1 Fingerprint

QUERY properties	
transaction type	RQ44
calling sequence	omniapi_query_ex
struct name	query_realtime_ulg_price
facility	EP4
partitioned	false
answers	RA44

ANSWER properties	
transaction type	RA44
struct name	answer_realtime_ulg_price
segmented	true

### 3.6.1.2 Purpose

This query contains real time underlying prices.

### 3.6.1.3 Structure

The RQ44 QUERY has the following structure:

```
struct query_realtime_ulg_price {
    struct transaction type
    struct series // Named struct no: 50000
    UINT16 T segment number n // Segment Number
    char[8] date s // Date
    char[2] filler 2 s // Filler
}
```

### 3.6.1.4 Usage and conditions

#### Series

All components in the Series field except the **Commodity Code** field should always be filled with zeros. The Commodity Code component could either be a specific commodity number, or zero. Zero means that all underlyings will be returned.

### 3.6.1.5 Answer Structure

The RA44 ANSWER has the following structure:

```
struct answer_realtime_ulg_price {
    struct transaction type
    UINT16 T segment number n // Segment Number
    UINT16 T items n // Items
    Array ITEM [max no: 300] {
        UINT32 T bid price i // Bid Price
        UINT32 T ask price i // Ask Price
        INT32 T last paid i // Last, Paid
        UINT16 T commodity n // Commodity Code
        UINT8 T bid theo c // Bid, Theoretical Mark
        UINT8 T ask theo c // Ask, Theoretical Mark
        UINT8 T last theo c // Last Paid, Theoretical Mark
        char[3] filler 3 s // Filler
    }
}
```





## 4 Common Structures

### 4.1 ACCOUNT

```
struct account {  
    char[2] country id s // Name, Country  
    char[5] ex customer s // Customer, Identity  
    char[10] account id s // Account, Identity  
    char[3] filler 3 s // Filler  
}
```

### 4.2 ACCOUNT\_DATA

```
struct account_data {  
    struct account  
    struct countersign {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        CHAR filler 1 s // Filler  
    }  
    struct prop_trade_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        char[10] account id s // Account, Identity  
    }  
    struct prop_deliv_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        char[10] account id s // Account, Identity  
    }  
    struct prop_pos_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        char[10] account id s // Account, Identity  
    }  
    struct prop_margin_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        char[10] account id s // Account, Identity  
    }  
    struct sink_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
        char[10] account id s // Account, Identity  
        char[3] filler 3 s // Filler  
    }  
    struct prop_origin_account {  
        char[2] country id s // Name, Country  
        char[5] ex customer s // Customer, Identity  
    }  
}
```

```

    char[10] account id s // Account, Identity
    char[3] filler 3 s // Filler
}
struct prop_call_account {
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    char[10] account id s // Account, Identity
}
char[3] risk currency s // Currency, Risk
INT32 T rank class i // Risk Ranking Class
char[8] modified date s // Date, Modified
char[6] modified time s // Time, Modified
char[8] created date s // Date, Created
char[6] created time s // Time, Created
char[4] investor type s // Investor Type
char[4] nationality s // Nationality
char[20] account text s // Account Text
char[34] ext acc id s // External Account ID
char[15] ext acc controller s // External Account Controller
char[12] ext acc registrar s // External Account Registrar
char[16] org number s // Organization number
char[32] account alias s // Account alias
char[15] diary number s // Diary Number
char[12] acc type s // Account Type
char[12] fee type s // Account Fee Type
char[12] cust bank id s // Custodian Bank
UINT8 T acc state c // Account State
UINT8 T read access c // Read Access
UINT8 T auto net c // Auto Netting
UINT8 T risk cur conv c // Risk, Currency Conversion
UINT8 T risk margin net c // Risk, Margin Net
UINT8 T acc allow nov c // Novation Allowed
char[2] filler 2 s // Filler
}

```

### 4.3 ANSWER\_SEGMENT\_HDR

```

struct answer_segment_hdr {
    struct transaction type
    UINT16 T items n // Items
    UINT16 T size n // Size
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}

```

### 4.4 BROADCAST\_HDR

```

struct broadcast_hdr {
    struct broadcast type
    UINT16 T items n // Items
    UINT16 T size n // Size
}

```

## 4.5 BROADCAST\_SEGMENT\_HDR

```

struct broadcast_segment_hdr {
    struct broadcast_type
    UINT16 T items n // Items
    UINT16 T size n // Size
    UINT16 T segment number n // Segment Number
    char[2] filler 2 s // Filler
}

```

## 4.6 BROADCAST\_TYPE

```

struct broadcast_type {
    CHAR central module c // Central Module
    CHAR server type c // Server Type
    UINT16 T transaction number n // Transaction Type Number
}

```

## 4.7 CL\_DELIVERY\_API

```

struct cl_delivery_api {
    struct account
    struct delivery_account {
        char[2] country id s // Name, Country
        char[5] ex customer s // Customer, Identity
        char[10] account id s // Account, Identity
        char[3] filler 3 s // Filler
    }
    struct series
    struct deliv_base
    INT64 T deliv base quantity q // Quantity, Delivery Base
    INT64 T delivery quantity q // Quantity, Delivery
    INT32 T delivery number i // Delivery, Number
    INT32 T key number i // Key Number
    INT32 T delivery origin i // Delivery Origin
    INT32 T class no i // Class Number
    INT32 T sequence number i // Sequence Number
    INT32 T event type i // Stimuli Event
    INT32 T original delivery number i // Original, Delivery Number
    INT32 T original key number i // Original, Key Number
    UINT32 T delivery unit u // Delivery Unit
    UINT32 T delivery properties u // Delivery Properties
    UINT32 T propagation u // Propagation
    char[8] settlement date s // Date, Settlement
    char[8] date s // Date
    char[24] dvp account s // DVP Account
    char[8] original date s // Original Date
    char[32] passthrough s // Passthrough Information
    UINT8 T delivery type c // Delivery, Type
}

```

```

    UINT8 T originator type c // Originator Type
    UINT8 T delivery state c // Delivery, State
    UINT8 T bought or sold c // Bought or Sold
    CHAR ext trade fee type c // External Trade, Fee Type
    CHAR filler 1 s // Filler
    char[2] giving up exchange s // Giving Up Exchange
    char[8] settlement instr date s // Date, Settlement instruction
}

```

## 4.8 CL\_GIVE\_UP\_API

```

struct cl_give_up_api {
    struct series
    struct account
    struct party
    INT32 T sequence number i // Sequence Number
    INT32 T gup reason i // Give Up, Broadcast Reason
    INT32 T give up number i // Give Up, Number
    INT64 T trade quantity i // Quantity, Trade
    INT32 T deal price i // Price, Deal
    INT32 T trade number i // Trade Number
    INT32 T commission i // Commission
    UINT8 T bought or sold c // Bought or Sold
    UINT8 T state c // State
    char[8] created date s // Date, Created
    char[6] created time s // Time, Created
    char[30] give up text s // Give Up, Free Text
    char[8] asof date s // Date, As Of
    char[6] asof time s // Time, As Of
    char[8] orig clearing date s // Clearing Date, Original
    UINT8 T old trade c // Old Trade Indicator
    CHAR ext trade fee type c // External Trade, Fee Type
    UINT8 T deal source c // Deal Source
    UINT8 T reserved prop c // Reserved Properties
    char[8] clearing date s // Clearing Date
    UINT32 T ext trade number u // Trade Number, External
    UINT32 T orig ext trade number u // Trade Number, Original External
    UINT8 T trade venue c // Trade venue
    char[3] filler 3 s // Filler
}

```

## 4.9 CL\_TRADE\_CHANGE\_API

```

struct cl_trade_change_api {
    struct series
    INT32 T trade number i // Trade Number
    INT32 T sequence number i // Sequence Number
    UINT8 T trade state c // Trade, State
    UINT8 T le state c // Type, Legal Event
    UINT8 T give up state c // Give Up, State
    UINT8 T instance c // Instance, Number
    INT64 T rem quantity i // Quantity, Remaining
}

```

```

    char[8] modified date s // Date, Modified
    char[6] modified time s // Time, Modified
    char[2] filler 2 s // Filler
    UINT32 T big attention u // Big Attention
}

```

## 4.10 COMBO\_SERIES

```

struct combo_series {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T instrument group c // Instrument Group
    UINT8 T modifier c // Modifier
    UINT16 T commodity n // Commodity Code
    UINT16 T expiration date n // Date, Expiration
    INT32 T strike price i // Strike Price
}

```

## 4.11 COUNTERSIGN\_CODE

```

struct countersign_code {
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    char[5] user id s // User
}

```

## 4.12 DELIV\_BASE

```

struct deliv_base {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T instrument group c // Instrument Group
    UINT8 T modifier c // Modifier
    UINT16 T commodity n // Commodity Code
    UINT16 T expiration date n // Date, Expiration
    INT32 T strike price i // Strike Price
}

```

## 4.13 EX\_USER\_CODE

```

struct ex_user_code {
    char[2] country id s // Name, Country
    char[5] ex customer s // Customer, Identity
    char[5] user id s // User
}

```

## 4.14 GIVE\_UP\_MEMBER

```
struct give_up_member {  
    char[2] country id s // Name, Country  
    char[5] ex customer s // Customer, Identity  
    CHAR filler 1 s // Filler  
}
```

## 4.15 ITEM\_HDR

```
struct item_hdr {  
    UINT16 T items n // Items  
    UINT16 T size n // Size  
}
```

## 4.16 MATCH\_ID

```
struct match_id {  
    UINT64 T execution event nbr u // Execution number  
    UINT32 T match group nbr u // Match group number, group inside an execution  
    UINT32 T match item nbr u // Match Item Number  
}
```

## 4.17 NEW\_SERIES

```
struct new_series {  
    UINT8 T country c // Country Number  
    UINT8 T market c // Market Code  
    UINT8 T instrument group c // Instrument Group  
    UINT8 T modifier c // Modifier  
    UINT16 T commodity n // Commodity Code  
    UINT16 T expiration date n // Date, Expiration  
    INT32 T strike price i // Strike Price  
}
```

## 4.18 OLD\_SERIES

```
struct old_series {  
    UINT8 T country c // Country Number  
    UINT8 T market c // Market Code  
    UINT8 T instrument group c // Instrument Group  
    UINT8 T modifier c // Modifier  
    UINT16 T commodity n // Commodity Code  
    UINT16 T expiration date n // Date, Expiration  
    INT32 T strike price i // Strike Price  
}
```

---

```

}
```

## 4.19 ORIG\_SERIES

```

struct orig_series {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T instrument_group c // Instrument Group
    UINT8 T modifier c // Modifier
    UINT16 T commodity n // Commodity Code
    UINT16 T expiration_date n // Date, Expiration
    INT32 T strike_price i // Strike Price
}

```

## 4.20 PARTITION\_HIGH

```

struct partition_high {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T instrument_group c // Instrument Group
    UINT8 T modifier c // Modifier
    UINT16 T commodity n // Commodity Code
    UINT16 T expiration_date n // Date, Expiration
    INT32 T strike_price i // Strike Price
}

```

## 4.21 PARTITION\_LOW

```

struct partition_low {
    UINT8 T country c // Country Number
    UINT8 T market c // Market Code
    UINT8 T instrument_group c // Instrument Group
    UINT8 T modifier c // Modifier
    UINT16 T commodity n // Commodity Code
    UINT16 T expiration_date n // Date, Expiration
    INT32 T strike_price i // Strike Price
}

```

## 4.22 PARTY

```

struct party {
    char[2] country_id s // Name, Country
    char[5] ex_customer s // Customer, Identity
    CHAR filler_1 s // Filler
}

```

## 4.23 POS\_ACCOUNT

```
struct pos_account {  
    char[2] country id s // Name, Country  
    char[5] ex customer s // Customer, Identity  
    char[10] account id s // Account, Identity  
    char[3] filler 3 s // Filler  
}
```

## 4.24 POS\_INFO\_UPDATE\_API

```
struct pos_info_update_api {  
    struct series  
    struct account  
    INT64 T deny exercise q // Deny Exercise  
    INT64 T qty closed out q // Quantity, Closed out  
    UINT32 T quantity cover u // Quantity Cover  
    char[8] modified date s // Date, Modified  
    char[6] modified time s // Time, Modified  
    UINT8 T reserved prop c // Reserved Properties  
    CHAR filler 1 s // Filler  
}
```

## 4.25 QUERY\_DELTA

```
struct query_delta {  
    struct transaction type  
    struct series  
    UINT16 T segment number n // Segment Number  
    char[2] filler 2 s // Filler  
    INT64 T download ref number q // Download Reference Number  
    struct full answer timestamp // Of type: TIME SPEC  
}
```

## 4.26 SEARCH\_SERIES

```
struct search_series {  
    UINT8 T country c // Country Number  
    UINT8 T market c // Market Code  
    UINT8 T instrument group c // Instrument Group  
    UINT8 T modifier c // Modifier  
    UINT16 T commodity n // Commodity Code  
    UINT16 T expiration date n // Date, Expiration  
    INT32 T strike price i // Strike Price  
}
```



## 4.27 SERIES

```
struct series {  
    UINT8 T country c // Country Number  
    UINT8 T market c // Market Code  
    UINT8 T instrument group c // Instrument Group  
    UINT8 T modifier c // Modifier  
    UINT16 T commodity n // Commodity Code  
    UINT16 T expiration date n // Date, Expiration  
    INT32 T strike price i // Strike Price  
}
```

## 4.28 SUB\_ITEM\_HDR

```
struct sub_item_hdr {  
    UINT16 T named_struct n // Named Struct, Number  
    UINT16 T size n // Size  
}
```

## 4.29 TICK\_SIZE

```
struct tick_size {  
    INT32 T step_size i // Tick Size  
    INT32 T lower_limit i // Premium/Price, Low Limit  
    INT32 T upper_limit i // Premium/Price, High Limit  
}
```

## 4.30 TIME\_SPEC

```
struct time_spec {  
    UINT32 T tv_sec // Time in seconds  
    INT32 T tv_nsec // Time in nanoseconds  
}
```

## 4.31 TRADING\_CODE

```
struct trading_code {  
    char[2] country_id_s // Name, Country  
    char[5] ex_customer_s // Customer, Identity  
    char[5] user_id_s // User  
}
```

## 4.32 TRANSACTION\_TYPE

```
struct transaction_type {  
    CHAR central module c // Central Module  
    CHAR server type c // Server Type  
    UINT16 T transaction number n // Transaction Type Number  
}
```

## 4.33 UPPER\_LEVEL\_SERIES

```
struct upper_level_series {  
    UINT8 T country c // Country Number  
    UINT8 T market c // Market Code  
    UINT8 T instrument group c // Instrument Group  
    UINT8 T modifier c // Modifier  
    UINT16 T commodity n // Commodity Code  
    UINT16 T expiration date n // Date, Expiration  
    INT32 T strike price i // Strike Price  
}
```

## 4.34 USER\_CODE

```
struct user_code {  
    char[2] country id s // Name, Country  
    char[5] ex customer s // Customer, Identity  
    char[5] user id s // User  
}
```

## 5 Named Structs Involved in VIMs

Named structs used in the variable information messages (VIM) included in this message reference are listed here in numerical order.

### 5.1 CL\_TRADE\_BASE\_API (3)

```

struct cl_trade_base_api {
    struct trading code
    struct series // Named struct no: 50000
    struct give up member // Named struct no: 50002
    QUAD WORD order number u // Order Number
    INT32 T sequence number i // Sequence Number
    INT32 T trade number i // Trade Number
    INT32 T deal price i // Price, Deal
    INT64 T trade quantity i // Quantity, Trade
    struct account
    char[15] customer info s // Customer, Information
    UINT8 T bought or sold c // Bought or Sold
    UINT8 T deal source c // Deal Source
    UINT8 T open close req c // Open Close Request
    UINT8 T trade type c // Type, Trade
    UINT8 T le state c // Type, Legal Event
    struct user code
    char[8] created date s // Date, Created
    char[6] created time s // Time, Created
    char[8] asof date s // Date, As Of
    char[6] asof time s // Time, As Of
    char[8] modified date s // Date, Modified
    char[6] modified time s // Time, Modified
    UINT8 T trade state c // Trade, State
    UINT8 T attention c // Attention
    INT32 T deal number i // Deal Number
    UINT32 T global deal no u // Global Deal Number
    INT32 T orig trade number i // Trade Number, Original
    struct orig series
    CHAR[32] exchange info s // Exchange, Information
    UINT32 T big attention u // Big Attention
    char[8] clearing date s // Clearing Date
    struct execution timestamp // Of type: TIME SPEC
    UINT8 T trade venue c // Trade venue
    UINT8 T instance c // Instance, Number
    UINT16 T exch order type n // Order Type, Exchange
    struct party
    UINT16 T trade rep code n // Trade Report Code
    char[2] filler 2 s // Filler
    struct match id
}

```

## 5.2 CL\_TRADE\_SECUR\_PART (20)

```

struct cl_trade_secur_part {
    struct countersign_code
    struct new_series
    struct party
    struct pos_account
    struct combo_series
    INT64 T nbr held q // Held
    INT64 T nbr written q // Written
    INT64 T total held q // Held, Total
    INT64 T total written q // Written Total
    INT32 T ext seq nbr i // External Clearinghouse, Sequence Number
    INT32 T ext status i // Return Status
    INT64 T rem quantity i // Quantity, Remaining
    INT64 T quantity i // Quantity
    UINT32 T ext trade number u // Trade Number, External
    UINT32 T orig_ext_trade number u // Trade Number, Original External
    INT32 T residual i // Residual
    INT32 T give up number i // Give Up, Number
    INT32 T commission i // Commission
    INT32 T combo deal price i // Combo deal price
    char[8] clearing date s // Clearing Date
    char[32] passthrough s // Passthrough Information
    char[10] ex client s // Client
    CHAR ext trade fee type c // External Trade, Fee Type
    UINT8 T give up state c // Give Up, State
    char[2] reserved_2 s // Reserved
    UINT8 T orig trade type c // Trade Type, Original
    UINT8 T open close c // Open or Closed
    CHAR reserved_1 c // Reserved
    UINT8 T account type c // Account Type
    UINT8 T instigant c // Instigant
    UINT8 T cab price ind c // Cabinet Price Indicator
}

```

## 5.3 NS\_DELTA\_HEADER (37001)

```

struct ns_delta_header {
    INT64 T download ref number q // Download Reference Number
    struct full_answer timestamp // Of type: TIME_SPEC
    UINT8 T full answer c // Full Answer
    char[3] filler 3 s // Filler
}

```

## 5.4 NS\_REMOVE (37002)

```

struct ns_remove {
    struct series // Named struct no: 50000
}

```

---

```

}
```

## 5.5 NS\_INST\_CLASS\_BASIC (37101)

```

struct ns_inst_class_basic {
    struct series // Named struct no: 50000
    struct upper_level_series
    INT32 T price quot factor i // Price, Quotation Factor
    INT32 T contract_size i // Contract Size
    INT32 T redemption_value i // Redemption Value
    INT32 T undisclosed_min_ord_val i // Minimum Order Value, Undisclosed
Quantity
    INT32 T opt_min_ord_val i // Optional minimum order value
    INT32 T opt_min_trade_val i // Optional minimum trade value
    UINT16 T derivate_level n // Derivate Level
    UINT16 T dec_in_strike_price n // Decimals, Strike Price
    UINT16 T dec_in_contr_size n // Decimals, Contract Size
    UINT16 T rnt_id n // Ranking Type
    UINT16 T virt_commodity n // Virtual Underlying
    UINT16 T settlement_days n // Settlement, Days or Month
    UINT8 T settl_day_unit c // Settlement Day Unit
    char[14] inc_id_s // Instrument Class, Identity
    char[32] name_s // Name
    char[10] trc_id_s // Trade Report Class
    char[3] base_cur_s // Currency, Trading
    UINT8 T traded_c // Traded
    UINT8 T price_unit_premium c // Price Unit, Premium
    UINT8 T price_unit_strike c // Price Unit, Strike
    UINT8 T indicative_prices c // Indicative Prices
    UINT8 T trd_cur_unit c // Traded Currency Unit
    UINT8 T db_operation c // Operation
    char[12] csd_id_s // CSD, Identity
    char[2] filler_2_s // Filler
}

```

## 5.6 NS\_PRICE\_TICK (37102)

```

struct ns_price_tick {
    struct tick_size
    UINT16 T dec_in_premium n // Decimals, Premium
    CHAR is_fractions c // Fraction, Premium
    UINT8 T price_format c // Premium/Price Format
}

```

## 5.7 NS\_BLOCK\_SIZE (37103)

```

struct ns_block_size {
    INT64 T maximum_size u // Block Size, Maximum Volume
    UINT32 T minimum_size n // Block Size, Minimum Volume
}

```

```

    UINT32 T block n // Block Size
    UINT8 T lot type c // Lot, Type
    char[3] filler 3 s // Filler
}

```

## 5.8 NS\_CALC\_RULE (37104)

```

struct ns_calc_rule {
    UINT32 T accr intr round u // Accrued Interest Rounding
    UINT32 T clean pr round u // Clean Price Rounding
    UINT16 T yield conv n // Yield Convention
    UINT16 T ex coupon n // Period, Ex Coupon
    UINT8 T accr intr ud c // Accrued Interest Up or Down
    UINT8 T clean pr ud c // Clean Price Up or Down
    UINT8 T day count conv c // Day Count Convention
    UINT8 T eom count conv c // End of Month Count Convention
    UINT8 T set start consid c // Calculate Settlement Amount
    UINT8 T set end consid c // Set End Consideration
    UINT8 T calculation conv c // Calculation Convention
    UINT8 T cadj trade price c // Cadj. Trade Price
    UINT8 T ex coupon calc type c // Ex-coupon calculation type
    char[3] filler 3 s // Filler
}

```

## 5.9 NS\_INST\_CLASS\_SECUR (37105)

```

struct ns_inst_class_secur {
    INT32 T exerc limit i // Exercise, Limit
    UINT16 T dec in deliv n // Decimals, Delivery
    UINT16 T cleared dec in qty n // Decimals, Quantity
    UINT16 T dec in fixing n // Decimals, Fixing
    UINT8 T exerc limit unit c // Exercise, Limit Unit
    char[32] settl cur id s // Currency, Settlement
    char[12] csd id s // CSD, Identity
    UINT8 T fixing req c // FIXING REQ C
}

```

## 5.10 NS\_PRICE\_TICK\_CORR (37113)

```

struct ns_price_tick_corr {
    struct tick size
    UINT16 T dec in premium n // Decimals, Premium
    char[2] filler 2 s // Filler
}

```

## 5.11 NS\_INST\_CLASS\_LEG\_CALC\_RULE (37115)

```

struct ns_inst_class_leg_calc_rule {
    struct currency // Of type: SERIES ; Named struct no: 50000
    struct rate_index // Of type: SERIES ; Named struct no: 50000
    UINT16 T settlement_days n // Settlement, Days or Month
    char[5] settlement_calender_s // Non-trading Days, Identity ; Of type:
    NTD_ID_S
    char[5] reset_day_calender_s // Non-trading Days, Identity ; Of type:
    NTD_ID_S
    UINT8 T rate_type c // Fixed or Float ; Of type: FIXED OR FLOAT C
    UINT8 T rollover_period c // Rollover Period
    UINT8 T day_count_conv c // Day Count Convention
    UINT8 T payment_set c // Payment Set
    UINT8 T business_day_conv c // BUSINESS DAY CONV C
    UINT8 T reset_days c // Reset Days
    UINT8 T reset_days_type c // Reset days type
    UINT8 T leg_number c // Leg Number
}

```

## 5.12 NS\_UNDERLYING\_BASIC (37201)

```

struct ns_underlying_basic {
    UINT16 T commodity n // Commodity Code
    UINT16 T linked_commodity n // Linked Commodity Code
    UINT16 T state_number n // Trading State Number
    UINT16 T dec_in_price n // Decimals, Price
    char[6] com_id_s // Underlying Identity
    char[12] isin_code_s // ISIN Code
    char[32] name_s // Name
    char[3] base_cur_s // Currency, Trading
    UINT8 T deliverable c // Deliverable
    UINT8 T underlying_type c // Type, Underlying
    UINT8 T price_unit c // Price Unit, Underlying
    UINT8 T underlying_status c // Underlying Status
    char[6] underlying_issuer_s // Underlying Issuer
    char[4] sector_code_s // Sector Code
    UINT8 T virtual c // Virtual
    char[2] country_id_s // Name, Country
    CHAR ext_provider c // External Price Feed Provider
    char[40] external_id_s // External Price Feed Identity
    UINT8 T cur_unit c // Currency Unit
    UINT8 T db_operation c // Operation
    char[3] filler_3_s // Filler
}

```

## 5.13 NS\_FIXED\_INCOME (37202)

```

struct ns_fixed_income {

```

```

    INT64 T nominal value q // Nominal Value
    UINT32 T coupon interest i // Coupon Interest
    UINT16 T dec in nominal n // Decimals, Nominal
    UINT16 T coupon settlement days n // Coupon Settlement Days
    UINT16 T coupon frequency n // Coupon Frequency
    UINT16 T rate determ days n // Rate Determination Days
    char[8] date release s // Date, Issue
    char[8] date termination s // Date, Maturity
    char[8] date dated s // Date, Dated
    char[8] date proceed s // Date, Proceed
    UINT8 T fixed income type c // Fixed Income Type
    UINT8 T day calc rule c // Day Calculation Rule
    char[2] filler 2 s // Filler
}

```

## 5.14 NS\_COUPON\_DATES (37203)

```

struct ns_coupon_dates {
    char[8] date coupdiv s // Coupon/Dividend Date
    char[8] date booksclose s // Booksclose Date
    UINT32 T dividend i // Dividend
}

```

## 5.15 NS\_INDEX\_LINKED (37204)

```

struct ns_index_linked {
    INT32 T index at dated i // INDEX AT DATED I
    UINT16 T lag in index n // LAG IN INDEX N
    UINT16 T dec in index n // DEC IN INDEX N
    char[16] ixv id s // IXV ID S
    UINT8 T protect coupon c // PROTECT COUPON C
    UINT8 T protect redempt c // PROTECT REDEMPT C
    UINT8 T rounding before index c // Rounding before index
    CHAR filler 1 s // Filler
}

```

## 5.16 NS\_UNDERLYING\_POWER (37206)

```

struct ns_underlying_power {
    char[6] time delivery start s // Time, Delivery Start
    char[6] time delivery stop s // Time, Delivery Stop
}

```

## 5.17 NS\_UNDERLYING\_EXT3 (37209)

```

struct ns_underlying_ext3 {
    INT64 T outstanding amount q // Outstanding Amount
}

```



```

UINT32 T issued price u // Issued Price
char[32] long underlying id s // Long Underlying Id
char[32] abbrev name s // Abbreviation Name
char[9] loan number s // Loan Number
char[12] benchmark bond code s // Benchmark Bond Code
char[64] long free text s // Free Text, Long
char[32] sub fix income type s // Sub Fixed Income Type
char[2] lead manager country id s // Lead Manager, Country
char[5] lead manager ex customer s // Lead Manager, Customer
char[2] arranger country id s // Arranger, Country
char[5] arranger ex customer s // Arranger, Customer
UINT8 T has amortization c // Has Amortization
}

```

## 5.18 NS\_REFERENCE\_RATE (37210)

```

struct ns_reference_rate {
    char[32] name s // Name
    char[8] date determination s // Date, Determination
    char[8] date from s // Date, From
    INT32 T rate i // Rate
}

```

## 5.19 NS\_INDEX\_VALUE (37211)

```

struct ns_index_value {
    char[8] date index s // Date, Index
    INT32 T index value i // INDEX VALUE I
    UINT16 T dec in index n // DEC IN INDEX N
    char[2] filler 2 s // Filler
}

```

## 5.20 NS\_LOTTERY\_BONDS (37212)

```

struct ns_lottery_bonds {
    char[32] name s // Name
    char[8] date lottery s // Date, Lottery
    char[8] date payout s // Date, Payout
}

```

## 5.21 NS\_CONVERTIBLES (37213)

```

struct ns_convertibles {
    char[8] date convert from s // Date, Convert From
    char[8] date convert through s // Date, Convert Through
}

```

## 5.22 NS\_DERIVED\_FROM (37214)

```

struct ns_derived_from {
    UINT32 T derived_percentage u // Derived Percentage
    UINT32 T base_price u // Base Price
    char[128] derived_from s // Derived From
    char[3] base_cur s // Currency, Trading
    CHAR filler_1 s // Filler
}

```

## 5.23 NS\_INST\_SERIES\_BASIC (37301)

```

struct ns_inst_series_basic {
    struct series // Named struct no: 50000
    UINT16 T step_size_multiple n // Tick Size, Multiple
    char[32] ins_id s // Series, Identity
    char[32] long_ins_id s // Series Name, Long
    char[8] date_last_trading s // Date, Last Trading
    char[6] time_last_trading s // Time, Last Trading
    char[8] date_first_trading s // Date, First Trading
    char[6] time_first_trading s // Time, First Trading
    UINT8 T series_status c // Series, Status
    UINT8 T suspended c // Suspended
    UINT8 T traded_in_click c // Traded in GENIUM
    UINT8 T db_operation c // Operation
    UINT8 T trade_reporting_only c // Only trade reports allowed
    CHAR filler_1 s // Filler
}

```

## 5.24 NS\_INST\_SERIES\_BASIC\_SINGLE (37302)

```

struct ns_inst_series_basic_single {
    struct upper_level_series
    INT32 T contract_size i // Contract Size
    INT32 T price_quot_factor i // Price, Quotation Factor
    UINT16 T state_number n // Trading State Number
    UINT16 T ex_coupon_n // Period, Ex Coupon
    char[12] isin_code s // ISIN Code
    char[8] settlement_date s // Date, Settlement
    char[8] first_settlement_date s // Date, First Settlement
    char[8] date_notation s // Date, Notation
    UINT8 T deliverable c // Deliverable
    char[8] effective_exp_date s // Effective Expiration Date
    UINT8 T ext_info_source c // External Information Source
    char[2] filler_2 s // Filler
}

```

## 5.25 NS\_INST\_SERIES\_POWER (37303)

```
struct ns_inst_series_power {
    char[8] date delivery start s // Date, Delivery Start
    char[8] date delivery stop s // Date, Delivery Stop
}
```

## 5.26 NS\_INST\_SERIES\_REPO (37304)

```
struct ns_inst_series_repo {
    UINT16 T no of sub n // Substitution, Max Number
    UINT16 T delta alloc time n // Time, Allocation
    char[8] start date s // Date, Start
    char[8] end date s // Date, End
    UINT8 T money or par c // Money or Par
    char[12] term code s // TERM CODE S
    char[3] filler 3 s // Filler
}
```

## 5.27 NS\_INST\_SERIES\_BO (37306)

```
struct ns_inst_series_bo {
    char[12] isin code old s // ISIN Code, Old Series
    UINT8 T tm template c // Template Series
    UINT8 T tm series c // Tailor Made Series
    UINT8 T accept collateral c // Accepted as Collateral
}
```

## 5.28 NS\_INST\_SERIES\_LEG\_FLOW (37309)

```
struct ns_inst_series_leg_flow {
    char[8] start date s // Date ; Of type: YYYYMMDD S
    char[8] end date s // Date ; Of type: YYYYMMDD S
    char[8] payment date s // Date ; Of type: YYYYMMDD S
    char[8] reset date s // Date ; Of type: YYYYMMDD S
    UINT16 T days in period n // Days in Period
    UINT16 T days in year n // Days in year
    UINT8 T rate type c // Fixed or Float ; Of type: FIXED OR FLOAT C
    UINT8 T leg number c // Leg Number
    char[2] filler 2 s // Filler
}
```

## 5.29 SERIES (50000)

```
struct series {
```

```
UINT8 T country c // Country Number  
UINT8 T market c // Market Code  
UINT8 T instrument group c // Instrument Group  
UINT8 T modifier c // Modifier  
UINT16 T commodity n // Commodity Code  
UINT16 T expiration date n // Date, Expiration  
INT32 T strike price i // Strike Price  
}
```

## 5.30 GIVE\_UP\_MEMBER (50002)

```
struct give_up_member {  
  char[2] country id s // Name, Country  
  char[5] ex customer s // Customer, Identity  
  CHAR filler 1 s // Filler  
}
```

## 6 Broadcast Overview

The table below lists all broadcasts provided in this message reference. This is also where each broadcast's Information Type Value is provided.

*Table 1: Broadcast properties*

Transaction Type	Name	Design	Information Type	Information Type Value
BD6	Dedicated Trade Information	Variable	dedicated	4
BD18	Dedicated Delivery	Standard	dedicated	4
BD29	Directed Give Up	Standard	dedicated	4
BD39	Dedicated Trade Change Information	Standard	dedicated	4
BD40	Dedicated auxiliary position info update information	Standard	dedicated	4
BI1	Resumption and Suspension of Trading	Standard	general	1
BI7	Signal Information Ready	Standard	general	1
BI27	Clearing message	Standard	general	1
BI41	Instrument Status Information	Standard	general	1
BI71	Set Commission Table	Standard	general	1
BU2	Series Update	Standard	general	1
BU4	Underlying Update	Standard	general	1
BU9	Series Backoffice Update	Standard	general	1
BU10	Instrument Class Update	Standard	general	1
BU12	Account Type Update	Standard	general	1
BU13	Account Fee Type Update	Standard	general	1
BU18	Non-Trading Days Update	Standard	general	1
BU19	Underlying Backoffice Update	Standard	general	1
BU20	Instrument Class Backoffice Update	Standard	general	1
BU44	Legal Account Instrument Update	Standard	general	1

---

Transaction Type	Name	Design	Information Type	Information Type Value
BU120	Delta Underlying Update	Variable	general	1
BU121	Delta Underlying Update for Back Office	Variable	general	1
BU122	Delta Instrument Class Update	Variable	general	1
BU123	Delta Instrument Class Update for Back Office	Variable	general	1
BU124	Delta Instrument Series Update	Variable	general	1
BU125	Delta Instrument Series Update for Back Office	Variable	general	1

## 7 Detailed Field Information

All fields used in the messages included in this message reference are listed in alphabetical order here.

The field descriptions provided here cover the general standard usage and interpretation. Message specific behaviour of a field is provided in each respective message chapter.

abbrev_name_s (Abbreviation Name)									
Datatype	char[32]								
Description	Specifies the abbreviation name for the underlying.								
abbr_name_s (Abbreviated Name)									
Datatype	char[8]								
Description	Abbreviated name								
accept_collateral_c (Accepted as Collateral)									
Datatype	UINT8_T								
Description	Accepted as collateral?.								
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> <tr> <td>Default</td> <td>0</td> </tr> </tbody> </table>	name	value	Yes	1	No	2	Default	0
name	value								
Yes	1								
No	2								
Default	0								
account_alias_s (Account alias)									
Datatype	char[32]								
Description	Defines the account name alias for an account.								
account_id_s (Account, Identity)									
Datatype	char[10]								
Description	The account identification part of an ACCOUNT structure; the part after the member identification.								
account_text_s (Account Text)									
Datatype	char[20]								
Description	Free text, 20 characters								
account_type_c (Account Type)									
Datatype	UINT8_T								
Description	The account type for a trade.								
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Customer</td> <td>1</td> </tr> <tr> <td>Firm</td> <td>2</td> </tr> <tr> <td>Market Maker</td> <td>3</td> </tr> </tbody> </table>	name	value	Customer	1	Firm	2	Market Maker	3
name	value								
Customer	1								
Firm	2								
Market Maker	3								

<b>account_type_s (Account Type)</b>													
Datatype	char[12]												
Description	Tells what type of account it is.												
<b>accr_intr_round_u (Accrued Interest Rounding)</b>													
Datatype	UINT32_T												
Description	Accrued Interest Rounding												
<b>accr_intr_ud_c (Accrued Interest Up or Down)</b>													
Datatype	UINT8_T												
Description	Accrued Interest Up/Down												
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Up</td> <td>1</td> </tr> <tr> <td>Down</td> <td>2</td> </tr> </tbody> </table>	name	value	Up	1	Down	2						
name	value												
Up	1												
Down	2												
<b>acc_allow_nov_c (Novation Allowed)</b>													
Datatype	UINT8_T												
Description	Defines if novation is allowed on an account or not. None indicates that novation is not applicable on the account.												
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>0</td> </tr> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	None	0	Yes	1	No	2				
name	value												
None	0												
Yes	1												
No	2												
<b>acc_state_c (Account State)</b>													
Datatype	UINT8_T												
Description	Defines the state that the account is in.												
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None</td> </tr> <tr> <td>1</td> <td>Registered Account has been registered but not validated.</td> </tr> <tr> <td>2</td> <td>Inactive Account has been active and then inactivated.</td> </tr> <tr> <td>3</td> <td>Active Account is validated and open for position or trade.</td> </tr> <tr> <td>4</td> <td>Deleted Account is deleted.</td> </tr> </tbody> </table>	value	description	0	None	1	Registered Account has been registered but not validated.	2	Inactive Account has been active and then inactivated.	3	Active Account is validated and open for position or trade.	4	Deleted Account is deleted.
value	description												
0	None												
1	Registered Account has been registered but not validated.												
2	Inactive Account has been active and then inactivated.												
3	Active Account is validated and open for position or trade.												
4	Deleted Account is deleted.												
<b>acc_type_s (Account Type)</b>													



Datatype	char[12]						
Description	Tells what type of account it is						
actual_start_date_s (Actual Start Date)							
Datatype	char[8]						
Description	Defines actual start date. Distributed in UTC together with Actual Start Time. Format: YYYYMMDD.						
actual_start_time_s (Actual Start Time)							
Datatype	char[6]						
Description	Defines actual start time. Distributed in UTC together with Actual Start Date. Format: HHMMSS.						
adjusted_c (Adjusted Series)							
Datatype	UINT8_T						
Description	Is the actual adjustment containing new adjusted series?						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
adjust_ident_n (Adjustment Identifier)							
Datatype	UINT16_T						
Description	A number that uniquely identifies an adjustment for series with the same adjustment conditions.						
allow_interbank_c (Allow interbank)							
Datatype	UINT8_T						
Description	The trade report type is allowed to report between different participant.						
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2
name	value						
Yes	1						
No	2						
allow_non_std_settlement_c (Allow non standard settlement)							
Datatype	UINT8_T						
Description	Allow a non standard settlement date in the trade report.						
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2
name	value						
Yes	1						
No	2						
allow_within_participant_c (Allow within participant)							
Datatype	UINT8_T						
Description	The trade report type is allowed to report within the same participant.						

Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2						
name	value												
Yes	1												
No	2												
arranger_country_id_s (Arranger, Country)													
Datatype	char[2]												
Description	The exchange identity that together with Arranger, Customer represents the arranger.												
arranger_ex_customer_s (Arranger, Customer)													
Datatype	char[5]												
Description	This field together with Arranger, Country, identifies the member/participant that represents the arranger.												
ascii_bin_c (ASCII or Binary)													
Datatype	UINT8_T												
Description	ASCII or Binary?												
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ASCII</td> </tr> <tr> <td>2</td> <td>Binary</td> </tr> </tbody> </table>	value	description	1	ASCII	2	Binary						
value	description												
1	ASCII												
2	Binary												
ask_price_i (Ask Price)													
Datatype	UINT32_T												
Description	Price for ask requests (orders selling the given Series). Statistics information.												
ask_theo_c (Ask, Theoretical Mark)													
Datatype	UINT8_T												
Description	The field indicates the origin of the price:												
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Missing</td> </tr> <tr> <td>1</td> <td>Theoretically calculated</td> </tr> <tr> <td>2</td> <td>From the Orderbook</td> </tr> <tr> <td>3</td> <td>Manually updated</td> </tr> <tr> <td>4</td> <td>Artificial</td> </tr> </tbody> </table>	value	description	0	Missing	1	Theoretically calculated	2	From the Orderbook	3	Manually updated	4	Artificial
value	description												
0	Missing												
1	Theoretically calculated												
2	From the Orderbook												
3	Manually updated												
4	Artificial												
asof_date_s (Date, As Of)													
Datatype	char[8]												
Description	The date an object is valid for. Format: YYYYMMDD.												
asof_time_s (Time, As Of)													
Datatype	char[6]												
Description	The time an object is valid for. Format: HHMMSS.												

atr_id_s (Account Type Rule)							
Datatype	char[12]						
Description	The identity of Account Type Rule.						
attention_c (Attention)							
Datatype	UINT8_T						
Description	<p>This field gives information about the trade.</p> <p>The field is retained for compatibility with earlier versions of the API. It contains the same information as in the first 8 bits of BIG ATTENTION.</p> <p>Please note that all bits but Bit1 and Bit2 are masked in full clearing installations. This does not apply to deal capture solutions.</p>						
authorized_c (Authorized)							
Datatype	UINT8_T						
Description	Defines if the user sending the query is authorized to use the Trade Report Type.						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes The trade report type is allowed for the user.</td> </tr> <tr> <td>2</td> <td>No The trade report type is not allowed for the user.</td> </tr> </tbody> </table>	value	description	1	Yes The trade report type is allowed for the user.	2	No The trade report type is not allowed for the user.
value	description						
1	Yes The trade report type is allowed for the user.						
2	No The trade report type is not allowed for the user.						
auto_net_c (Auto Netting)							
Datatype	UINT8_T						
Description	If position on this account will be netted automatically in after business operation.						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not netted</td> </tr> <tr> <td>1</td> <td>Netted</td> </tr> </tbody> </table>	value	description	0	Not netted	1	Netted
value	description						
0	Not netted						
1	Netted						
average_c (Average)							
Datatype	UINT8_T						
Description	Not applicable.						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
average_period_c (Average Period)							
Datatype	UINT8_T						
Description	Not applicable.						

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Quarterly</td> </tr> <tr> <td>2</td> <td>Half Year</td> </tr> <tr> <td>3</td> <td>Year</td> </tr> </tbody> </table>	value	description	0	Not applicable	1	Quarterly	2	Half Year	3	Year
value	description										
0	Not applicable										
1	Quarterly										
2	Half Year										
3	Year										
<b>base_cur_s (Currency, Trading)</b>											
Datatype	char[3]										
Description	Defines the trading currency for the instrument or the currency for the underlying. The representation of the currency follows the S.W.I.F.T. handbook and ISO 3166 standard, e.g. SEK, GBP, USD and ATS.										
<b>base_price_u (Base Price)</b>											
Datatype	UINT32_T										
Description	Defines the base price for the derived from with three implicit decimals.										
<b>benchmark_bond_code_s (Benchmark Bond Code)</b>											
Datatype	char[12]										
Description	Defines the benchmark bond code for the underlying.										
<b>bic_code_s (BIC Code)</b>											
Datatype	char[15]										
Description	The BIC consists of four parts and is usually written as BANKCCLLMAR. The parts are interpreted as explained in the table:										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>BANK</td> <td>The first four characters is the Bank Code. It is unique to each financial institution and can only be made up of letters. [4 bytes]</td> </tr> <tr> <td>CC</td> <td>CC is the ISO country code. The country code identifies the country in which the financial institution is located. [2 bytes]</td> </tr> <tr> <td>LL</td> <td>LL is the Location Code. This 2-character code may be alphabetical or numerical. The location code provides geographical distinction within a country, e.g., cities, states, provinces and time zones. [2 bytes]</td> </tr> <tr> <td>MAR</td> <td>MAR is the Branch Code. This 3-character code is called the Branch Code. It identifies a specific branch, or, for example, a department in a bank within the same country as the 8-character SWIFT BIC. This code may be alphabetical or numerical. The Branch code is optional for SWIFT users. [3 bytes]</td> </tr> </tbody> </table>	value	description	BANK	The first four characters is the Bank Code. It is unique to each financial institution and can only be made up of letters. [4 bytes]	CC	CC is the ISO country code. The country code identifies the country in which the financial institution is located. [2 bytes]	LL	LL is the Location Code. This 2-character code may be alphabetical or numerical. The location code provides geographical distinction within a country, e.g., cities, states, provinces and time zones. [2 bytes]	MAR	MAR is the Branch Code. This 3-character code is called the Branch Code. It identifies a specific branch, or, for example, a department in a bank within the same country as the 8-character SWIFT BIC. This code may be alphabetical or numerical. The Branch code is optional for SWIFT users. [3 bytes]
value	description										
BANK	The first four characters is the Bank Code. It is unique to each financial institution and can only be made up of letters. [4 bytes]										
CC	CC is the ISO country code. The country code identifies the country in which the financial institution is located. [2 bytes]										
LL	LL is the Location Code. This 2-character code may be alphabetical or numerical. The location code provides geographical distinction within a country, e.g., cities, states, provinces and time zones. [2 bytes]										
MAR	MAR is the Branch Code. This 3-character code is called the Branch Code. It identifies a specific branch, or, for example, a department in a bank within the same country as the 8-character SWIFT BIC. This code may be alphabetical or numerical. The Branch code is optional for SWIFT users. [3 bytes]										
<b>bid_or_ask_c (Bid or Ask)</b>											
Datatype	UINT8_T										
Description	Specifies what quotation side is requested.										

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th colspan="2">description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td colspan="2">Bid and Ask</td> </tr> <tr> <td>1</td> <td colspan="2">Bid</td> </tr> <tr> <td>2</td> <td colspan="2">Ask</td> </tr> </tbody> </table>			value	description		0	Bid and Ask		1	Bid		2	Ask							
value	description																				
0	Bid and Ask																				
1	Bid																				
2	Ask																				
bid_price_i (Bid Price)																					
Datatype	UINT32_T																				
Description	Price for bid requests (orders buying the given Series). Statistics information.																				
bid_theo_c (Bid, Theoretical Mark)																					
Datatype	UINT8_T																				
Description	The field indicates the origin of the price:																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th colspan="2">description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td colspan="2">Missing.</td> </tr> <tr> <td>1</td> <td colspan="2">Theoretically calculated.</td> </tr> <tr> <td>2</td> <td colspan="2">From the Orderbook.</td> </tr> <tr> <td>3</td> <td colspan="2">Manually updated.</td> </tr> <tr> <td>4</td> <td colspan="2">Artificial.</td> </tr> </tbody> </table>			value	description		0	Missing.		1	Theoretically calculated.		2	From the Orderbook.		3	Manually updated.		4	Artificial.	
value	description																				
0	Missing.																				
1	Theoretically calculated.																				
2	From the Orderbook.																				
3	Manually updated.																				
4	Artificial.																				
big_attention_u (Big Attention)																					
Datatype	UINT32_T																				
Description	The field big_attention gives information about the trade. This is a bit field that gives the following information, where the first bit is bit 0, and the value column represents each bit's numerical value. Note that not every value is applicable for every installation.																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>resent</td> <td>1</td> <td>Resent (bit 0) The trade might have been subject to a retransition from the matching system to deal capture.</td> </tr> <tr> <td>error_log</td> <td>2</td> <td>Error Log (bit 1) The trade has an entry in the error log, retrievable with CQ22 with error identity as trade number.</td> </tr> <tr> <td>date_phase</td> <td>4</td> <td>Date Phase (bit 2) The trade date and the business date are not the same, meaning trades are created later than 24:00. Or in other words; as_of and created times contains a business_date that does not correspond to the site's date.</td> </tr> </tbody> </table>			name	value	description	resent	1	Resent (bit 0) The trade might have been subject to a retransition from the matching system to deal capture.	error_log	2	Error Log (bit 1) The trade has an entry in the error log, retrievable with CQ22 with error identity as trade number.	date_phase	4	Date Phase (bit 2) The trade date and the business date are not the same, meaning trades are created later than 24:00. Or in other words; as_of and created times contains a business_date that does not correspond to the site's date.						
name	value	description																			
resent	1	Resent (bit 0) The trade might have been subject to a retransition from the matching system to deal capture.																			
error_log	2	Error Log (bit 1) The trade has an entry in the error log, retrievable with CQ22 with error identity as trade number.																			
date_phase	4	Date Phase (bit 2) The trade date and the business date are not the same, meaning trades are created later than 24:00. Or in other words; as_of and created times contains a business_date that does not correspond to the site's date.																			

<b>name</b>	<b>value</b>	<b>description</b>
trd_prv_bus_dat	16	Previous Business Date (bit 4) The trade was made the previous business date for clearing next day.
aggressive	32	Aggressive Order (bit 5) The trade is created from an aggressive order that is, the trade (part of a deal) is the part created by an incoming order (as opposed to the part - one or more - that was already stored in the order book).
clone_from_split	256	Split Clone (bit 8) The trade is a clone created in a split.
rev_old_trd	512	Reversing Previous (bit 9) The trade reverses a trade from previous date.
ovr_old_trd	512	Overtaking Previous (bit 9) The trade replaces a trade from previous date.
deal_rectified	1024	Rectification (bit 10) The trade is created or nullified in a deal rectification.
pure_position_txfr	16384	Position Transfer (bit 14) The trade represents a pure position transfer operation.
auto_netting_txn	32768	Position Transfer (bit 15) The trade results from an auto-netting operation.
rct_deal	131072	Overtaking (bit 17) The overtaking trade is created by a rectify deal operation.
deal_cancelled	262144	Deal Cancellation (bit 18) The trade is created by a cancel/annul deal operation.
force_flag	1048576	Force Order (bit 20) Force Order flag from Marketplace.
day2_correction	8388608	Day 2 correction (bit 23) Trade created during correction of an old deal.
excluded_from_stat	536870912	Excluded from trade statistics (bit 29)

	<b>name</b>	<b>value</b>	<b>description</b>
			Trade belongs to a deal that has been excluded from trade statistics.
<b>binary_variant_c (Option, Binary Variant)</b>			
Datatype	UINT8_T		
Description	Defines the Option Binary Variants.		
Value Set	<b>value</b>		<b>description</b>
	0		Not applicable
	1		Cash-or-nothing Pays out a predefined cash amount in case the option is in the money. Otherwise (out of the money), no money at all is paid out.
	2		Asset-or-nothing Two different assets with corresponding dependencies on strike price determine whether a predefined amount of cash shall be paid out. There exists four different types of Asset-or-Nothing options: Call, Put, Down-up and Up-down.
<b>block_n (Block Size)</b>			
Datatype	UINT32_T		
Description	Minimum number of units (options, futures, forwards and so on) in an order transaction.		
<b>boolean (BOOLEAN)</b>			
Datatype	CHAR		
Description	Intermediate field.		
<b>bought_or_sold_c (Bought or Sold)</b>			
Datatype	UINT8_T		
Description	Defines if the item or amount in question is bought or sold.		
Value Set	<b>value</b>		<b>description</b>
	1		Bought
	2		Sold
<b>broadcast_number_n (Broadcast Number)</b>			
Datatype	UINT16_T		
Description	A number used to distinguish between different broadcasts.		
<b>business_date_s (Date, Business)</b>			
Datatype	char[8]		
Description	Date in ASCII. Format: YYYYMMDD		

business_day_conv_c (BUSINESS_DAY_CONV_C)									
Datatype	UINT8_T								
Description	Used to find out the nearest business date to calculated end date of a period.								
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Following</td> <td>1</td> </tr> <tr> <td>Modified following</td> <td>2</td> </tr> <tr> <td>Preceding</td> <td>3</td> </tr> </tbody> </table>	name	value	Following	1	Modified following	2	Preceding	3
name	value								
Following	1								
Modified following	2								
Preceding	3								
buy_or_sell_c (Buy or Sell)									
Datatype	CHAR								
Description	Buy or sell?								
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Buy</td> </tr> <tr> <td>S</td> <td>Sell</td> </tr> <tr> <td>N</td> <td>Not Applicable</td> </tr> </tbody> </table>	value	description	B	Buy	S	Sell	N	Not Applicable
value	description								
B	Buy								
S	Sell								
N	Not Applicable								
buy_sell_back_c (Buy Sell Back)									
Datatype	UINT8_T								
Description	Sets if the REPO is a buy sell back or not.								
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No		
value	description								
1	Yes								
2	No								
cabinet_format_c (Cabinet Format)									
Datatype	UINT8_T								
Description	Not applicable.								
cab_price_ind_c (Cabinet Price Indicator)									
Datatype	UINT8_T								
Description	Specifies whether the price in a trade is a cabinet price or not.								
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No		
value	description								
1	Yes								
2	No								
cadj_trade_price_c (Cadj. Trade Price)									
Datatype	UINT8_T								
Description	Specifies if trade price is adjusted.								



Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2														
name	value																				
Yes	1																				
No	2																				
calculation_conv_c (Calculation Convention)																					
Datatype	UINT8_T																				
Description	Calculation Convention																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Compound</td> <td>1</td> </tr> <tr> <td>CompoundSimple</td> <td>2</td> </tr> <tr> <td>Simple_MM</td> <td>3</td> </tr> <tr> <td>Discount</td> <td>4</td> </tr> <tr> <td>US Treasury</td> <td>5</td> </tr> <tr> <td>Proceed</td> <td>6</td> </tr> </tbody> </table>	name	value	Compound	1	CompoundSimple	2	Simple_MM	3	Discount	4	US Treasury	5	Proceed	6						
name	value																				
Compound	1																				
CompoundSimple	2																				
Simple_MM	3																				
Discount	4																				
US Treasury	5																				
Proceed	6																				
cbo_trade_report_c (Combo Trade Report)																					
Datatype	UINT8_T																				
Description	Describes if the Trade Report Type is used to do a combo trade report.																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2														
name	value																				
Yes	1																				
No	2																				
central_module_c (Central Module)																					
Datatype	CHAR																				
Description	Denotes essentially what subsystem is associated with the message. ISO Latin-1 representation is used. Central module:																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>M</td> <td>Market Place (MP/IMP)</td> </tr> <tr> <td>C</td> <td>Clearing (CL)</td> </tr> <tr> <td>I</td> <td>Information (IN)</td> </tr> <tr> <td>S</td> <td>Settlement (SE)</td> </tr> <tr> <td>D</td> <td>Common Database (CDB)</td> </tr> <tr> <td>O</td> <td>Operation (OP)</td> </tr> <tr> <td>L</td> <td>List Module (LM)</td> </tr> <tr> <td>V</td> <td>Settlement and Risk</td> </tr> <tr> <td>R</td> <td>Risk Valuation (RIVA)</td> </tr> </tbody> </table>	value	description	M	Market Place (MP/IMP)	C	Clearing (CL)	I	Information (IN)	S	Settlement (SE)	D	Common Database (CDB)	O	Operation (OP)	L	List Module (LM)	V	Settlement and Risk	R	Risk Valuation (RIVA)
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	<b>value</b>	<b>description</b>																																							
	U	Supervision (SU)																																							
	X	Deal Capture (DC)																																							
<b>chg_type_n (Change Type)</b>																																									
Datatype	UINT16_T																																								
Description	Information about the type of update performed on permanent information: Note: An Add might come for an already existing item in the front-end. A Change might come for a not yet existing item in the front-end. Some modifications that one might think of as a deletion are in fact changes, delistings for example.																																								
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>add</td> <td>1</td> <td>Addition The item is added.</td> </tr> <tr> <td>delete</td> <td>2</td> <td>Deletion The item is deleted.</td> </tr> <tr> <td>change</td> <td>3</td> <td>Modification The item is modified. Examples of modifications would be delistings and change of last trading time.</td> </tr> </tbody> </table>	<b>name</b>	<b>value</b>	<b>description</b>	add	1	Addition The item is added.	delete	2	Deletion The item is deleted.	change	3	Modification The item is modified. Examples of modifications would be delistings and change of last trading time.																												
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<b>class_no_i (Class Number)</b>																																									
Datatype	INT32_T																																								
Description	Defines the type of settlement.																																								
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td></td> <td>1</td> <td>Marketplace fixed fee</td> </tr> <tr> <td></td> <td>2</td> <td>Clearing variable fee</td> </tr> <tr> <td></td> <td>3</td> <td>Tax</td> </tr> <tr> <td></td> <td>4</td> <td>Rebate</td> </tr> <tr> <td></td> <td>5</td> <td>Settlement Premium, MTM, etc.</td> </tr> <tr> <td>Settlement_dvp</td> <td>6</td> <td>Delivery versus payment</td> </tr> <tr> <td>New_contract</td> <td>7</td> <td>Create a new trade</td> </tr> <tr> <td>Settlement_odvp</td> <td>8</td> <td>The other qty and base</td> </tr> <tr> <td></td> <td>9</td> <td>Internal information, API application should ignore this.</td> </tr> <tr> <td></td> <td>10</td> <td>Variation margin</td> </tr> <tr> <td>Commission</td> <td>11</td> <td>Commission</td> </tr> <tr> <td>Settlement_intraday_collect</td> <td>12</td> <td>Intraday settlement collect</td> </tr> </tbody> </table>	<b>name</b>	<b>value</b>	<b>description</b>		1	Marketplace fixed fee		2	Clearing variable fee		3	Tax		4	Rebate		5	Settlement Premium, MTM, etc.	Settlement_dvp	6	Delivery versus payment	New_contract	7	Create a new trade	Settlement_odvp	8	The other qty and base		9	Internal information, API application should ignore this.		10	Variation margin	Commission	11	Commission	Settlement_intraday_collect	12	Intraday settlement collect	
<b>name</b>	<b>value</b>	<b>description</b>																																							
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Settlement_intraday_collect	12	Intraday settlement collect																																							

	<b>name</b>	<b>value</b>	<b>description</b>						
	Accrued_interest	13	The interest accrued on cash instruments.						
	Settlement_dvp_cvr	16	Quantity of underlying used as cover to be delivered						
	Settlement_odvp_cvr	18	Payment for delivery of cover quantity						
		20	Rounding						
	Balance_adjustment	21	Balance adjustment						
		23	Fee 3						
		24	Fee 4						
		25	Fee 5						
		26	Fee 6						
		27	Fee 7						
		28	Fee 8						
		29	Fee 9						
		30	Fair value						
<b>clean_pr_round_u (Clean Price Rounding)</b>									
Datatype	UINT32_T								
Description	Clean Price Rounding								
<b>clean_pr_ud_c (Clean Price Up or Down)</b>									
Datatype	UINT8_T								
Description	Clean Price Up/Down								
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Up</td> <td>1</td> </tr> <tr> <td>Down</td> <td>2</td> </tr> </tbody> </table>			<b>name</b>	<b>value</b>	Up	1	Down	2
<b>name</b>	<b>value</b>								
Up	1								
Down	2								
<b>cleared_dec_in_qty_n (Decimals, Quantity)</b>									
Datatype	UINT16_T								
Description	Defines decimals in quantity in clearing related quantities.								
<b>clearing_date_s (Clearing Date)</b>									
Datatype	char[8]								
Description	Date in ASCII for clearing trade, format is YYYYMMDD.								
<b>closed_for_clearing_c (Closed, clearing)</b>									
Datatype	UINT8_T								
Description	Specifies if the date is closed for clearing.								

Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2								
name	value														
Yes	1														
No	2														
closed_for_settlement_c (Closed, settlement)															
Datatype	UINT8_T														
Description	Specifies if the date is closed for settlement.														
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2								
name	value														
Yes	1														
No	2														
closed_for_trading_c (Closed, trading)															
Datatype	UINT8_T														
Description	Specifies if the date is closed for trading.														
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2								
name	value														
Yes	1														
No	2														
closeout_qty_i (Quantity, Close out)															
Datatype	INT64_T														
Description	A quantity by which a position should be closed out														
closeout_status_i (Status, Close out)															
Datatype	INT32_T														
Description	Status from a position close out request														
collateral_type_c (Collateral types)															
Datatype	UINT8_T														
Description	Defines the type of collateral.														
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Cash Collateral</td> <td>1</td> </tr> <tr> <td>Guarantee</td> <td>2</td> </tr> <tr> <td>Member Deposit</td> <td>3</td> </tr> <tr> <td>Certificate</td> <td>4</td> </tr> <tr> <td>Fixed Income</td> <td>5</td> </tr> <tr> <td>Equity</td> <td>6</td> </tr> </tbody> </table>	name	value	Cash Collateral	1	Guarantee	2	Member Deposit	3	Certificate	4	Fixed Income	5	Equity	6
name	value														
Cash Collateral	1														
Guarantee	2														
Member Deposit	3														
Certificate	4														
Fixed Income	5														
Equity	6														
combo_deal_price_i (Combo deal price)															
Datatype	INT32_T														

Description	Combo deal price.											
commission_i (Commission)												
Datatype	INT32_T											
Description	The commission to pay for the operation.											
commodity_n (Commodity Code)												
Datatype	UINT16_T											
Description	Underlying definitions are defined by each exchange. Commodity Code is a part of the Series definition.											
com_id (COM_ID)												
Datatype	char[6]											
Description	Intermediate field.											
com_id_s (Underlying Identity)												
Datatype	char[6]											
Description	The ASCII representation of the underlying.											
condition_s (Trade Report Description)												
Datatype	char[32]											
Description	The description of the trade report type.											
confirm_reject_c (Confirm or Reject)												
Datatype	UINT8_T											
Description	The field states whether a holding item should be confirmed or rejected.											
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Rejected</td> <td>0</td> </tr> <tr> <td>Confirmed</td> <td>1</td> </tr> </tbody> </table>		name	value	Rejected	0	Confirmed	1				
name	value											
Rejected	0											
Confirmed	1											
contracts_modifier_c (Modifier, Number of Contracts)												
Datatype	UINT8_T											
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> <tr> <td>2</td> <td>Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td>Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td>The item is divided by the modifier factor</td> </tr> </tbody> </table>		value	description	1	Modifier is added to the item	2	Modifier is subtracted from the item	3	Modifier is multiplied with the item	4	The item is divided by the modifier factor
value	description											
1	Modifier is added to the item											
2	Modifier is subtracted from the item											
3	Modifier is multiplied with the item											
4	The item is divided by the modifier factor											
contracts_mod_factor_i (Modifier Factor, Number of Contracts)												
Datatype	INT32_T											
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.											

contract_share_i (Contract Share)											
Datatype	INT32_T										
Description	The number of contracts in the delivery, including decimals, as defined for the instrument class.										
contract_size_i (Contract Size)											
Datatype	INT32_T										
Description	Number of Underlying entities per contract.										
contract_size_modifier_c (Modifier, Contract Size)											
Datatype	UINT8_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> <tr> <td>2</td> <td>Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td>Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td>The item is divided by the modifier factor</td> </tr> </tbody> </table>	value	description	1	Modifier is added to the item	2	Modifier is subtracted from the item	3	Modifier is multiplied with the item	4	The item is divided by the modifier factor
value	description										
1	Modifier is added to the item										
2	Modifier is subtracted from the item										
3	Modifier is multiplied with the item										
4	The item is divided by the modifier factor										
contr_size_mod_factor_i (Modifier Factor, Contract Size)											
Datatype	INT32_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 5 implicit decimals.										
copies_n (COPIES_N)											
Datatype	UINT16_T										
country_c (Country Number)											
Datatype	UINT8_T										
Description	Country and exchange identity. Country Number is a part of the Series definition.										
country_id_s (Name, Country)											
Datatype	char[2]										
Description	The exchange code represented as ASCII, also known as COUNTRY. Since there may well be more than one exchange in one country, it's role is to specify the actual exchange at hand. It is the first component in the ACCOUNT and MEMBER structures.										
country_s (Country)											
Datatype	char[2]										
Description	The country ID where the exchange is located.										
coupon_frequency_n (Coupon Frequency)											
Datatype	UINT16_T										
Description	Number of coupons per year for bond underlying.										
coupon_interest_i (Coupon Interest)											
Datatype	UINT32_T										

Description	Coupon interest, decimal value stored with 6 decimals, e.g. 11% is stored as 110000.									
coupon_settlement_days_n (Coupon Settlement Days)										
Datatype	UINT16_T									
Description	Number of settlement days at coupon.									
created_date_s (Date, Created)										
Datatype	char[8]									
Description	Date in ASCII. Format: YYYYMMDD. Defines the creation date of the item.									
created_time_s (Time, Created)										
Datatype	char[6]									
Description	Defines the creation time of the item. Format: HHMMSS.									
credit_class_s (Credit Class)										
Datatype	char[3]									
Description	Exchange specific contents and interpretation.									
csd_id_s (CSD, Identity)										
Datatype	char[12]									
Description	Specifies the clearance system that is connected to instrument class.									
cst_id_n (Customer Number)										
Datatype	UINT16_T									
Description	A unique number that identified the member, used when subscribing for directed broadcast information.									
currency_code (CURRENCY_CODE)										
Datatype	char[3]									
Description	Intermediate field.									
cur_unit_c (Currency Unit)										
Datatype	UINT8_T									
Description	Specifies the currency unit for underlying prices.									
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Primary Unit</td> <td>1</td> </tr> <tr> <td>Secondary Unit</td> <td>2</td> </tr> <tr> <td>Tertiary Unit</td> <td>3</td> </tr> </tbody> </table>		name	value	Primary Unit	1	Secondary Unit	2	Tertiary Unit	3
name	value									
Primary Unit	1									
Secondary Unit	2									
Tertiary Unit	3									
customer_info_s (Customer, Information)										
Datatype	char[15]									
Description	This is a free text field a customer may fill in when entering orders. If the order is traded, the customer information is returned in the trade record.									
cust_bank_id_s (Custodian Bank)										
Datatype	char[12]									
Description	Identity of custodian bank									

date_adjust_s (Date, Adjust)	
Datatype	char[8]
Description	Date of the adjustment. In ASCII format: YYYYMMDD
date_booksclose_s (Booksclose Date)	
Datatype	char[8]
Description	Customer Specific field. Booksclose date for bond underlying, YYYYMMDD.
date_closing_s (Date, Closing)	
Datatype	char[8]
Description	Closing date YYYYMMDD.
date_conversion_s (Date, Conversion)	
Datatype	char[8]
Description	Date in ASCII. Format: YYYYMMDD
date_convert_from_s (Date, Convert From)	
Datatype	char[8]
Description	The convert from date for convertibles. Format: YYYYMMDD.
date_convert_through_s (Date, Convert Through)	
Datatype	char[8]
Description	The convert through date for convertibles. Format: YYYYMMDD.
date_coupdiv_s (Coupon/Dividend Date)	
Datatype	char[8]
Description	Coupon date for bond underlying or dividend date for stock underlying, YYYYMMDD.
date_dated_s (Date, Dated)	
Datatype	char[8]
Description	Dated date for bond underlying, YYYYMMDD.
date_delivery_start_s (Date, Delivery Start)	
Datatype	char[8]
Description	Delivery start date. Format: YYYYMMDD.
date_delivery_stop_s (Date, Delivery Stop)	
Datatype	char[8]
Description	Delivery stop date. Format: YYYYMMDD.
date_determination_s (Date, Determination)	
Datatype	char[8]
Description	The determination date for the reference rate. Format: YYYYMMDD.
date_exception_s (Date, Exception)	



Datatype	char[8]
Description	Exception date when a different trading session is used compared to normal days or when the market is open for a day when it is normally closed. Format: YYYYMMDD.
date_first_trading_s (Date, First Trading)	
Datatype	char[8]
Description	The first valid trading date of the series. The date is together with TIME, FIRST TRADING distributed as UTC. Format: YYYYMMDD.
date_from_s (Date, From)	
Datatype	char[8]
Description	The from date for the reference rate. Format: YYYYMMDD.
date_implementation_s (Date, Implementation)	
Datatype	char[8]
Description	Implementation date. Format: YYYYMMDD.
date_index_s (Date, Index)	
Datatype	char[8]
Description	The index date for linked index bonds. Format: YYYYMMDD.
date_last_s (Date, Last)	
Datatype	char[8]
Description	Last trading date YYYYMMDD.
date_last_trading_s (Date, Last Trading)	
Datatype	char[8]
Description	The last valid trading date of the series. The date is together with TIME, LAST TRADING distributed as UTC. Format: YYYYMMDD.
date_lottery_s (Date, Lottery)	
Datatype	char[8]
Description	The lottery date for lottery bonds. Format: YYYYMMDD.
date_non_trading_s (Date, Non Trading)	
Datatype	char[8]
Description	Non trading date in format YYYYMMDD.
date_notation_s (Date, Notation)	
Datatype	char[8]
Description	Notation date YYYYMMDD
date_payout_s (Date, Payout)	

Datatype	char[8]								
Description	The payout date for lottery bonds. Format: YYYYMMDD.								
date_proceed_s (Date, Proceed)									
Datatype	char[8]								
Description	Proceed date for fixed income underlying, YYYYMMDD If the last payment falls on a non-business day, the payment and the maturity is pushed forward to the next business day, the so called Proceeds Date.								
date_release_s (Date, Issue)									
Datatype	char[8]								
Description	Issue date for fixed income underlying. Format: YYYYMMDD.								
date_s (Date)									
Datatype	char[8]								
Description	Date in ASCII. Format: YYYYMMDD								
date_termination_s (Date, Maturity)									
Datatype	char[8]								
Description	Maturity date for fixed income underlying, YYYYMMDD.								
date_trading_s (Date, Trading)									
Datatype	char[8]								
Description	Date in ASCII. Format: YYYYMMDD.								
days_in_interest_year_n (Days In Interest Year)									
Datatype	UINT16_T								
Description	Number of days in coupon period used for interest rate calculations.								
days_in_period_n (Days in Period)									
Datatype	UINT16_T								
Description	Number of days in a period								
days_in_year_n (Days in year)									
Datatype	UINT16_T								
Description	Number of days in the year according to the day count convention.								
day_calc_rule_c (Day Calculation Rule)									
Datatype	UINT8_T								
Description	Day Calculation Rule								
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>ACTACT</td> <td>1</td> </tr> <tr> <td>ACTAFB</td> <td>2</td> </tr> <tr> <td>EU30360</td> <td>3</td> </tr> </tbody> </table>	name	value	ACTACT	1	ACTAFB	2	EU30360	3
name	value								
ACTACT	1								
ACTAFB	2								
EU30360	3								

		<b>name</b>	<b>value</b>
		US30360	4
		ACT365	5
		ACT360	6
day_count_conv_c (Day Count Convention)			
Datatype	UINT8_T		
Description	Day Count Convention		
Value Set	<b>name</b>		<b>value</b>
	ACTACT		1
	ACTAFB		2
	EU30360		3
	US30360		4
	ACT365		5
	ACT360		6
day_count_n (Day Count)			
Datatype	UINT16_T		
Description	Number of days in the year when calculating interest.		
db_operation_c (Operation)			
Datatype	UINT8_T		
Description	Operation to do for the item. Note:An insert might come for an existing item in the front-end. An update might come for a non-existing item in the front-end.		
Value Set	<b>name</b>		<b>value</b>
	Insert		1
	Update		2
	Remove		3
deal_number_i (Deal Number)			
Datatype	INT32_T		
Description	A number that identifies a specific deal. Deal number is unique within Instrument type		
deal_price_i (Price, Deal)			
Datatype	INT32_T		
Description	Defines the deal price.		
deal_price_modifier_c (Modifier, Deal Price)			
Datatype	UINT8_T		

Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.																																			
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th colspan="2">description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td colspan="2">Modifier is added to the item</td> </tr> <tr> <td>2</td> <td colspan="2">Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td colspan="2">Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td colspan="2">The item is divided by the modifier factor</td> </tr> </tbody> </table>			value	description		1	Modifier is added to the item		2	Modifier is subtracted from the item		3	Modifier is multiplied with the item		4	The item is divided by the modifier factor																			
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4	The item is divided by the modifier factor																																			
deal_price_mod_factor_i (Modifier Factor, Deal Price)																																				
Datatype	INT32_T																																			
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals																																			
deal_quantity_i (Quantity, Deal)																																				
Datatype	INT64_T																																			
Description	Defines number of contracts in a deal.																																			
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<b>name</b>	<b>value</b>	<b>description</b>
deal_source_swap_box_inter- nal	10	Deal in a Swap Box instru- ment, member internal.
deal_source_after_out- side_diff	11	After market closure, outside system, different brokers
deal_source_after_out- side_diff_om	12	After market closure, outside system, different brokers, registered by the exchange.
deal_source_after_out- side_same	13	After market closure, outside system, one broker
deal_source_after_out- side_same_om	14	After market closure, outside system, one broker, regis- tered by the exchange.
deal_source_internally_basis	15	Internally created basis trade.
deal_source_manual_revers- ing	16	Reversing deal made by the exchange manually.
deal_source_basis_trade	17	Basis trade.
deal_source_correction	18	Correction of trade.
deal_source_internally_creat- ed	19	Internally created.
deal_source_open_allocation	20	Deal made at the end of an auction.
deal_source_pqr	21	Private request for quote.
deal_source_pqr_package	22	Package private request for quote.
deal_source_internal_combo	23	Internally from combo.
deal_source_internal_tm	24	Internally from TM.
deal_source_internal_aver- age	25	Internally from average.
deal_source_internal_strip	26	Internally from strip.
deal_source_delta_hedge	27	Delta hedge.
deal_source_internal_bundle	28	CL bundle deal.
deal_source_bb_trade	32	Trade from Bulletin Board.
deal_source_bb_trade_st_com- bo	33	Trade from Bulletin Board, standard combo.
deal_source_bb_trade_nost_com- bo	34	Trade from Bulletin Board, non-standard combo.
deal_source_bb_trade_nost_com- bo_e	35	Trade from Bulletin Board, non-standard combo.
deal_source_tm_combo	36	Tailor-made combination.
deal_source_non_std_combo	37	Non-standard combination.
deal_source_block_trade_fac	38	Outside the Exchange, block trade facility.

<b>name</b>	<b>value</b>	<b>description</b>
deal_source_outside_combo	39	Matched outside the Exchange, combinations.
deal_source_external_vendor	40	Outside the Exchange, block trade facility.
deal_source_no_price	41	No Deal Price.
deal_source_priority_crossing	42	Priority crossing.
deal_source_combo_vs_outright	43	Combination matched outright legs.
deal_source_outside_otc	44	Matched outside exchange, broker.
deal_source_imp_rotation	100	
deal_source_imp_normal	101	
deal_source_imp_out_of_sequence	102	
deal_source_imp_cab_trade	103	
deal_source_imp_combo_single	104	
deal_source_imp_combo_mix	105	
deal_source_fac_orig_order	110	
deal_source_fac_counter_order	111	
deal_source_exp_orig_order	112	
deal_source_exp_counter_order	113	
deal_source_unsolicited_order	114	
deal_source_solicited_order	115	
deal_source_block_order	116	
deal_source_trade_rep	117	
deal_source_trade_rep_no_settl	118	
deal_source_imp_combo_buy_write	122	
deal_source_av_price_trade	128	Trade resulting from an Average Price Trade transaction.
deal_source_intermediate_apt	129	Intermediate trade created in an Average Price Trade transaction.
deal_source_give_up	130	Trade resulting from a give-up transaction.

	<b>name</b>	<b>value</b>	<b>description</b>
	deal_source_transfer_with_price	131	Trade transfer.
	deal_source_transfer_misclear	132	Misclear.
	deal_source_efp	133	Exchange for physical (EFP).
	deal_source_spread	134	Spread trade.
	deal_source_aps	135	Average price system (APS).
	deal_source_adjust_wo_price	136	Adjustment without price.
	deal_source_adjust_with_price	137	Adjustment with price.
	deal_source_ctrade	138	Deal executed at CTrade.
	deal_source_cross_product_netting	139	Cross product netting.
<b>deal_source_n (Deal Source)</b>			
Datatype	INT16_T		
Description	This is used when retrieving translations of deal source values (see DEAL_SOURCE_C).		
<b>dec_in_contr_size_n (Decimals, Contract Size)</b>			
Datatype	UINT16_T		
Description	Number of implicit decimals in the Contract Size and the Price Quotation Factor fields.		
<b>dec_in_deliv_n (Decimals, Delivery)</b>			
Datatype	UINT16_T		
Description	Number of implicit decimals used in the delivery quantity.		
<b>dec_in_fixing_n (Decimals, Fixing)</b>			
Datatype	UINT16_T		
Description	Number of implicit decimals in Fixing.		
<b>dec_in_index_n (DEC_IN_INDEX_N)</b>			
Datatype	UINT16_T		
Description	Number of decimals used when calculating index.		
<b>dec_in_nominal_n (Decimals, Nominal)</b>			
Datatype	UINT16_T		
Description	Number of implicit decimals in the Nominal Value.		
<b>dec_in_premium_n (Decimals, Premium)</b>			
Datatype	UINT16_T		
Description	Number of implicit decimals in the premium/price.		
<b>dec_in_price_n (Decimals, Price)</b>			
Datatype	UINT16_T		

Description	Number of implicit decimals in the underlying price received from external sources.																													
dec_in_strike_price_n (Decimals, Strike Price)																														
Datatype	UINT16_T																													
Description	Number of implicit decimals in the strike price.																													
deliverable_c (Deliverable)																														
Datatype	UINT8_T																													
Description	Defines if a series can be delivered or not (Cash settlement):																													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No																						
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1	Yes																													
2	No																													
delivery_number_i (Delivery, Number)																														
Datatype	INT32_T																													
Description	The delivery number for this delivery. Together with key number and series it is a unique number.																													
delivery_origin_i (Delivery Origin)																														
Datatype	INT32_T																													
Description	The trade number for the trade that this delivery originates from. Together with Series it forms a unique trade identification.																													
delivery_properties_u (Delivery Properties)																														
Datatype	UINT32_T																													
Description	Bit mask provides specific information about the delivery.																													
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8192	Do not reverse the sign of this delivery item																													



delivery_quantity_q (Quantity, Delivery)											
Datatype	INT64_T										
Description	Defines the quantity the delivery is based on.										
delivery_state_c (Delivery, State)											
Datatype	UINT8_T										
Description	Defines what state the delivery is in.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>Rectified The delivery is rolled back. There exists another rollback delivery that points to this delivery.</td> </tr> </tbody> </table>	value	description	1	Normal	2	Rectified The delivery is rolled back. There exists another rollback delivery that points to this delivery.				
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delivery_type_c (Delivery, Type)											
Datatype	UINT8_T										
Description	Defines what type the delivery is.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>Rollback The delivery offsets a previous delivery that is no longer valid. The original delivery is identified by the instrument type of the series in combination with original delivery number and original key number. The quantity delivery base reverse the original delivery.</td> </tr> <tr> <td>3</td> <td>Overtaking The delivery supersedes a previous delivery that is no longer valid. The original delivery is identified by the instrument type of the series in combination with original delivery number and original key number.</td> </tr> <tr> <td>4</td> <td>Backdated The delivery is backdated which entails that it concerns an event occurring on a previous clearing date.</td> </tr> </tbody> </table>	value	description	1	Normal	2	Rollback The delivery offsets a previous delivery that is no longer valid. The original delivery is identified by the instrument type of the series in combination with original delivery number and original key number. The quantity delivery base reverse the original delivery.	3	Overtaking The delivery supersedes a previous delivery that is no longer valid. The original delivery is identified by the instrument type of the series in combination with original delivery number and original key number.	4	Backdated The delivery is backdated which entails that it concerns an event occurring on a previous clearing date.
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delivery_unit_u (Delivery Unit)											
Datatype	UINT32_T										
Description	Trade reports, delivery items and dvp-instructions belong to a delivery unit.										
deliv_base_quantity_q (Quantity, Delivery Base)											
Datatype	INT64_T										
Description	Defines the quantity of the delivery base that is delivered.										
delta_alloc_time_n (Time, Allocation)											

Datatype	UINT16_T									
Description	Delta allocation time in minutes after last trading time									
deny_exercise_q (Deny Exercise)										
Datatype	INT64_T									
Description	The number of held position that will NOT participate in exercise.									
derivate_level_n (Derivate Level)										
Datatype	UINT16_T									
Description	The derivate level of the instrument:									
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Spot</td> <td>0</td> </tr> <tr> <td>Derivate based on spot.</td> <td>1</td> </tr> <tr> <td>Derivative based on instrument level 1.</td> <td>2</td> </tr> </tbody> </table>		name	value	Spot	0	Derivate based on spot.	1	Derivative based on instrument level 1.	2
name	value									
Spot	0									
Derivate based on spot.	1									
Derivative based on instrument level 1.	2									
derived_from_s (Derived From)										
Datatype	char[128]									
Description	Defines what the underlying is derived from.									
derived_percentage_u (Derived Percentage)										
Datatype	UINT32_T									
Description	Defined how many percent the Derived From represent. Expressed with six implicit decimals.									
description_s (Description)										
Datatype	char[40]									
Description	Description field.									
desc_abbreviated_s (Description, Abbreviated)										
Datatype	char[32]									
Description	An abbreviated textual description.									
desc_long_s (Description, Long)										
Datatype	char[128]									
Description	A textual description.									
diary_number_s (Diary Number)										
Datatype	char[15]									
Description	The diary number for this account.									
directed_trade_information_c (Directed Trade Information)										
Datatype	UINT8_T									
Description	Specifies how the directed trade broadcast is distributed.									
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Without Counterparty</td> <td>1</td> </tr> </tbody> </table>		name	value	Without Counterparty	1				
name	value									
Without Counterparty	1									

	<b>name</b>	<b>value</b>
	With Counterparty	2
<b>dividend_i (Dividend)</b>		
Datatype	UINT32_T	
Description	The dividend for the stock.	
<b>download_ref_number_q (Download Reference Number)</b>		
Datatype	INT64_T	
Description	<p>Reference number to use in delta queries and answers.</p> <p>To receive the delta use the latest received number from the answer of this query or the latest broadcast related to the query.</p> <p>To enforce a full answer use "no value" in the query to indicate this.</p> <p>This number is always increasing, but may contain gaps.</p>	
<b>ds_attribute_q (Deal Source Attribute)</b>		
Datatype	INT64_T	
Description	<p>Defines the attribute of the deal source, different behaviors may be controlled by the attribute.</p> <p>0 = Unassigned</p> <p>Bit 1 = Trade Report</p> <p>Bit 2 = Bulletin board</p> <p>Bit 3 = Excluded from Trade Statistics</p> <p>Bit 4 = Outside exchange</p>	
<b>dvp_account_s (DVP Account)</b>		
Datatype	char[24]	
Description	Sub account/Security account or Cash record/Cash account identification designated for deliveries.	
<b>effective_exp_date_s (Effective Expiration Date)</b>		
Datatype	char[8]	
Description	<p>The effective expiration date is the actual expiration date of the series and will normally be the same as expiration_date_n in the series binary code. The effective expiration date can be changed during the lifetime of the series whereas expiration_date_n will continue to hold the original expiration date.</p> <p>Format: YYYYMMDD.</p>	
<b>end_date_s (Date, End)</b>		
Datatype	char[8]	
Description	End date. Format: YYYYMMDD.	
<b>eom_count_conv_c (End of Month Count Convention)</b>		
Datatype	UINT8_T	
Description	End of Month Count Convention	
Value Set	<b>name</b>	<b>value</b>
	SAME	1

		<b>name</b>	<b>value</b>
		LAST360	2
		LAST	3
<b>error_id_u (Error Identity)</b>			
Datatype	UINT32_T		
Description	An identity that refers to the source for error. For trade errors, this is the trade number.		
<b>error_operation_s (Error, Operation)</b>			
Datatype	char[10]		
Description	Defines what type of operation caused the error message.		
<b>error_problem_s (Error, Problem)</b>			
Datatype	char[40]		
Description	The error message.		
<b>event_type_i (Stimuli Event)</b>			
Datatype	INT32_T		
Description	Defines the reason that caused the contractual event.		
Value Set			
	<b>value</b>	<b>description</b>	
	1	Trade	
	2	Transfer	
	3	Rectify	
	4	Mark to Market	
	5	Closing	
	6	Exercise	
	7	Assign	
	8	Dividend	
	9	New Contract Trade	
	10	Give Up	
	11	Closing Trade	
	12	Delivery Flow	
	13	DVP Settled	
<b>exchange_info_s (Exchange, Information)</b>			
Datatype	CHAR[32]		
Description	This is an exchange specific field and can be used for different purposes, e.g. as a free text field.		
<b>exchange_short_s (Exchange, Short Name)</b>			
Datatype	char[4]		

Description	Short name for exchange																																						
exch_order_type_n (Order Type, Exchange)																																							
Datatype	UINT16_T																																						
Description	This is bit-coded field for exchange specific order types and attributes.																																						
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>EXCH_ORDER_TYPE_NOT_DEFINED</td> <td>0</td> <td>Not applicable.</td> </tr> <tr> <td>EXCH_ORDER_TYPE_FORCE</td> <td>1</td> <td>Force</td> </tr> <tr> <td>EXCH_ORDER_TYPE_SHORT_SELL</td> <td>2</td> <td>Short Sell Short sell order condition.</td> </tr> <tr> <td>EXCH_ORDER_TYPE_MARKET_BID</td> <td>4</td> <td>Market Bid Market bid order condition(exchange specific).</td> </tr> <tr> <td>EXCH_ORDER_TYPE_PRICE_STAB</td> <td>8</td> <td>Price Stabilization Price stabilization order condition (exchange specific).</td> </tr> <tr> <td>EXCH_ORDER_TYPE_OVERRIDE_CRS</td> <td>16</td> <td>Override Crossing Override crossing condition (exchange specific).</td> </tr> <tr> <td>EXCH_ORDER_TYPE_UNDISCLOSED</td> <td>32</td> <td>Undisclosed</td> </tr> <tr> <td>EXCH_ORDER_TYPE_CENTRE_POINT</td> <td>64</td> <td>Centre Point</td> </tr> <tr> <td>EXCH_ORDER_TYPE_ALWAYS_INACTIVE</td> <td>128</td> <td>Always Inactive Always centrally inactive order, not possible to activate. Only valid for transactions to enter inactive orders (exchange specific).</td> </tr> <tr> <td>EXCH_ORDER_TYPE_CENTRE_POINT_PRIORITY_CROSSING</td> <td>256</td> <td>Centre Point Priority Crossing</td> </tr> <tr> <td>EXCH_ORDER_TYPE_SESSION_STATE</td> <td>512</td> <td>Sleeping order on entry When the active Session State is changed to the one given in the order, the order is triggered and entered into the order book</td> </tr> </tbody> </table>			name	value	description	EXCH_ORDER_TYPE_NOT_DEFINED	0	Not applicable.	EXCH_ORDER_TYPE_FORCE	1	Force	EXCH_ORDER_TYPE_SHORT_SELL	2	Short Sell Short sell order condition.	EXCH_ORDER_TYPE_MARKET_BID	4	Market Bid Market bid order condition(exchange specific).	EXCH_ORDER_TYPE_PRICE_STAB	8	Price Stabilization Price stabilization order condition (exchange specific).	EXCH_ORDER_TYPE_OVERRIDE_CRS	16	Override Crossing Override crossing condition (exchange specific).	EXCH_ORDER_TYPE_UNDISCLOSED	32	Undisclosed	EXCH_ORDER_TYPE_CENTRE_POINT	64	Centre Point	EXCH_ORDER_TYPE_ALWAYS_INACTIVE	128	Always Inactive Always centrally inactive order, not possible to activate. Only valid for transactions to enter inactive orders (exchange specific).	EXCH_ORDER_TYPE_CENTRE_POINT_PRIORITY_CROSSING	256	Centre Point Priority Crossing	EXCH_ORDER_TYPE_SESSION_STATE	512	Sleeping order on entry When the active Session State is changed to the one given in the order, the order is triggered and entered into the order book
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exclusive_opening_sell_c (Exclusive Opening Sell)																																							
Datatype	UINT8_T																																						
Description	Is the account allowed to exclusive opening sell?																																						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> </tbody> </table>			value	description	1	Yes																																
value	description																																						
1	Yes																																						

	<b>value</b>	<b>description</b>					
	2	No					
<b>execution_event_nbr_u (Execution number)</b>							
Datatype	UINT64_T						
Description	An ever increasing number per partition, assigned to an execution event.						
<b>exercisenum (EXERCISENUMBER)</b>							
Datatype	INT32_T						
Description	intermediate field.						
<b>exercise_number_i (Exercise, Request Number)</b>							
Datatype	INT32_T						
Description	Identifies each part in an exercise request.						
<b>exerc_limit_i (Exercise, Limit)</b>							
Datatype	INT32_T						
Description	The limit from the at-the-money value when an automatic exercise is done. If the Unit is Percent, this value is stored with 6 implicit decimals. E.g. 10 % is stored as 10000. If the unit is an absolute value this value is stored with 3 implicit decimals.						
<b>exerc_limit_unit_c (Exercise, Limit Unit)</b>							
Datatype	UINT8_T						
Description	What type is the Exercise Limit Unit?						
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Absolute Value</td> </tr> <tr> <td>2</td> <td>Percentage (%)</td> </tr> </tbody> </table>	<b>value</b>	<b>description</b>	1	Absolute Value	2	Percentage (%)
<b>value</b>	<b>description</b>						
1	Absolute Value						
2	Percentage (%)						
<b>expiration_date_n (Date, Expiration)</b>							
Datatype	UINT16_T						
Description	<p>Expiration date of financial instrument.</p> <p>A bit pattern is used. The seven most significant bits are used for year, the next four for month and the five least significant bits for day. All these bits make up an unsigned word.</p> <p>The year-field starts counting from 1990. Thus, 1990=1, 1991=2 ... 2001=12.</p> <p>Example: January 1, 1990: Binary: 0000001 0001 00001 year month day 7 bits 4 bits 5 bits                      Decimal: 545</p>						
<b>extended_info_n (Extended Information)</b>							
Datatype	UINT16_T						
Description	Not applicable.						
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not Applicable</td> </tr> </tbody> </table>	<b>value</b>	<b>description</b>	0	Not Applicable		
<b>value</b>	<b>description</b>						
0	Not Applicable						
<b>external_id_s (External Price Feed Identity)</b>							

Datatype	char[40]																		
Description	External Price feed identity																		
ext_acc_controller_s (External Account Controller)																			
Datatype	char[15]																		
Description	External account controller. May hold BIC, CSD member id etc.																		
ext_acc_id_s (External Account ID)																			
Datatype	char[34]																		
Description	External account id. A bank or CSD account number.																		
ext_acc_registrar_s (External Account Registrar)																			
Datatype	char[12]																		
Description	External account registrar. May hold names like VPS, SWIFT etc.																		
ext_info_source_c (External Information Source)																			
Datatype	UINT8_T																		
Description	Specifies whether or not the data source for distributed prices is sent into the system with an external transaction.																		
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2												
name	value																		
Yes	1																		
No	2																		
ext_provider_c (External Price Feed Provider)																			
Datatype	CHAR																		
Description	External Price feed provider																		
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>NMF</td> <td>N</td> </tr> <tr> <td>Six</td> <td>S</td> </tr> <tr> <td>Six OMX</td> <td>O</td> </tr> <tr> <td>Direct Feed</td> <td>F</td> </tr> <tr> <td>Direct Feed OPRA</td> <td>R</td> </tr> <tr> <td>Transaction</td> <td>T</td> </tr> <tr> <td>LMIL</td> <td>L</td> </tr> <tr> <td>Reuter SSL</td> <td>E</td> </tr> </tbody> </table>	name	value	NMF	N	Six	S	Six OMX	O	Direct Feed	F	Direct Feed OPRA	R	Transaction	T	LMIL	L	Reuter SSL	E
name	value																		
NMF	N																		
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Direct Feed	F																		
Direct Feed OPRA	R																		
Transaction	T																		
LMIL	L																		
Reuter SSL	E																		
ext_seq_nbr_i (External Clearinghouse, Sequence Number)																			
Datatype	INT32_T																		
Description	An identity that the clearinghouse or exchange can assign to a trade. Exchange specific.																		
ext_status_i (Return Status)																			
Datatype	INT32_T																		

Description	Defines return status, configuration specific.											
ext_trade_fee_type_c (External Trade, Fee Type)												
Datatype	CHAR											
Description	The external fee type is used to look up the fee table that will be used to calculate the fee for the trade.											
ext_trade_number_u (Trade Number, External)												
Datatype	UINT32_T											
Description	Trade number assigned by external system											
ext_t_state_c (Trade Report Type)												
Datatype	UINT8_T											
Description	Defines the type of Trade Report. The available types can be retrieved by Query Trade Report. This field also contains cancellation status for TM report.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable.</td> </tr> <tr> <td>253</td> <td>TM report cancelled by exchange Valid for answers only.</td> </tr> <tr> <td>254</td> <td>TM report cancelled by own customer Valid for answers only.</td> </tr> <tr> <td>255</td> <td>TM report cancelled by owner Valid for answers only.</td> </tr> </tbody> </table>		value	description	0	Not applicable.	253	TM report cancelled by exchange Valid for answers only.	254	TM report cancelled by own customer Valid for answers only.	255	TM report cancelled by owner Valid for answers only.
value	description											
0	Not applicable.											
253	TM report cancelled by exchange Valid for answers only.											
254	TM report cancelled by own customer Valid for answers only.											
255	TM report cancelled by owner Valid for answers only.											
ex_client_s (Client)												
Datatype	char[10]											
Description	Exchange client is the name of the participant's client.											
ex_coupon_calc_type_c (Ex-coupon calculation type)												
Datatype	UINT8_T											
Description	Specifies if the ex-coupon period is stated in business days or calendar days.											
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Business Days</td> <td>1</td> </tr> <tr> <td>Calendar Days</td> <td>2</td> </tr> </tbody> </table>		name	value	Business Days	1	Calendar Days	2				
name	value											
Business Days	1											
Calendar Days	2											
ex_coupon_n (Period, Ex Coupon)												
Datatype	UINT16_T											
Description	Ex Coupon period											
ex_customer_s (Customer, Identity)												
Datatype	char[5]											
Description	This field together with Country Name, identifies a member/participant of the exchange (such as a bank or broker firm).											



<b>fee_type_s (Account Fee Type)</b>																			
Datatype	char[12]																		
Description	Defines the account fee type for an account.																		
<b>file_type_s (File Type)</b>																			
Datatype	char[8]																		
Description	The string representing the file type, i.e. suffix.																		
<b>filler_1_s (Filler)</b>																			
Datatype	CHAR																		
Description	Filler for alignment.																		
<b>filler_2_s (Filler)</b>																			
Datatype	char[2]																		
Description	Filler for alignment.																		
<b>filler_3_s (Filler)</b>																			
Datatype	char[3]																		
Description	Filler for alignment.																		
<b>final_held_q (Held/Long position, After closeout)</b>																			
Datatype	INT64_T																		
Description	The requested held/long position after position closeout																		
<b>final_open_interest_q (Final Open Interest)</b>																			
Datatype	UINT64_T																		
Description	The number of outstanding contracts at end of the business day.																		
<b>first_settlement_date_s (Date, First Settlement)</b>																			
Datatype	char[8]																		
Description	First Settlement Date in format YYYYMMDD.																		
<b>fixed_income_type_c (Fixed Income Type)</b>																			
Datatype	UINT8_T																		
Description	Type of fixed income security:																		
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Bill</td> </tr> <tr> <td>2</td> <td>Bond</td> </tr> <tr> <td>3</td> <td>Index Linked Bonds</td> </tr> <tr> <td>4</td> <td>Bond Floating</td> </tr> <tr> <td>5</td> <td>Lottery Bond</td> </tr> <tr> <td>6</td> <td>Convertible Bond</td> </tr> <tr> <td>7</td> <td>Structured Bond</td> </tr> </tbody> </table>	value	description	0	Not applicable	1	Bill	2	Bond	3	Index Linked Bonds	4	Bond Floating	5	Lottery Bond	6	Convertible Bond	7	Structured Bond
value	description																		
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	<b>value</b>	<b>description</b>								
	8	Fixing								
	9	Credit Certificates								
	10	Deposit								
	11	RIBA								
<b>fixed_or_float_c (Fixed or Float)</b>										
Datatype	UINT8_T									
Description	Fixed or float rate									
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Fixed</td> <td>1</td> </tr> <tr> <td>Float</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Fixed	1	Float	2		
<b>name</b>	<b>value</b>									
Fixed	1									
Float	2									
<b>fixing_req_c (FIXING_REQ_C)</b>										
Datatype	UINT8_T									
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Yes	1	No	2		
<b>name</b>	<b>value</b>									
Yes	1									
No	2									
<b>fixing_value_i (Fixing Value)</b>										
Datatype	INT32_T									
Description	A value defined for a series a given date, used for clearing purposes. The Decimals, Fixing field defines the number decimals used.									
<b>forward_style_c (Style, Forward)</b>										
Datatype	UINT8_T									
Description	Defines if this an Instrument Group where corresponding Instrument Series are forward styled.									
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>CfD</td> </tr> </tbody> </table>		<b>value</b>	<b>description</b>	0	Not applicable	1	Normal	2	CfD
<b>value</b>	<b>description</b>									
0	Not applicable									
1	Normal									
2	CfD									
<b>free_text_80_s (Text , Free)</b>										
Datatype	char[80]									
Description	Defines a free text buffer.									
<b>from_date_s (Date, From)</b>										
Datatype	char[8]									
Description	From date. Format: YYYYMMDD.									

from_time_s (Time, From)																	
Datatype	char[6]																
Description	Defines the from time. Format: HHMMSS.																
full_answer_c (Full Answer)																	
Datatype	UINT8_T																
Description	A full answer is enforced in the delta query.																
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2										
name	value																
Yes	1																
No	2																
future_styled_c (Option, Future Styled)																	
Datatype	UINT8_T																
Description	If the option is a future styled option:																
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No										
value	description																
1	Yes																
2	No																
give_up_number_i (Give Up, Number)																	
Datatype	INT32_T																
Description	Unique, within each instrument type (country, market, instrument group) system generated number, for a give-up.																
give_up_state_c (Give Up, State)																	
Datatype	UINT8_T																
Description	Indicates the state of the give up the trade may be subject to. The value is a bit mask and can be one of the following:																
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None</td> </tr> <tr> <td>1</td> <td>Holding</td> </tr> <tr> <td>2</td> <td>Confirmed</td> </tr> <tr> <td>4</td> <td>Rejected</td> </tr> <tr> <td>8</td> <td>Holding Rectify Trade</td> </tr> <tr> <td>16</td> <td>Holding Rectify Deal</td> </tr> <tr> <td>32</td> <td>Deleted</td> </tr> </tbody> </table>	value	description	0	None	1	Holding	2	Confirmed	4	Rejected	8	Holding Rectify Trade	16	Holding Rectify Deal	32	Deleted
value	description																
0	None																
1	Holding																
2	Confirmed																
4	Rejected																
8	Holding Rectify Trade																
16	Holding Rectify Deal																
32	Deleted																

	<b>value</b>	<b>description</b>																																							
	64	Delete Holding																																							
<b>give_up_text_s (Give Up, Free Text)</b>																																									
Datatype	char[30]																																								
Description	User-supplied information to a give-up request. This information is passed through the clearing system without any processing or validation.																																								
<b>giving_up_exchange_s (Giving Up Exchange)</b>																																									
Datatype	char[2]																																								
Description	The exchange of the owner of the trade that was given up.																																								
<b>global_deal_no_u (Global Deal Number)</b>																																									
Datatype	UINT32_T																																								
Description	A number that together with series identifies a specific deal. The number is used as reference from outside clearing system.																																								
<b>gross_open_interest_q (Gross Open Interest)</b>																																									
Datatype	UINT64_T																																								
Description	Defines gross open interest.																																								
<b>group_short_name_s (Short Name, Instrument Group)</b>																																									
Datatype	char[15]																																								
Description	Defines a short description of the instrument group.																																								
<b>group_type_c (Group, Type)</b>																																									
Datatype	UINT8_T																																								
Description	Defines the type of instrument group.																																								
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>group_type_undefined</td> <td>0</td> <td>Undefined</td> </tr> <tr> <td>group_type_option</td> <td>1</td> <td>Option</td> </tr> <tr> <td>group_type_forward</td> <td>2</td> <td>Forward</td> </tr> <tr> <td>group_type_future</td> <td>3</td> <td>Future</td> </tr> <tr> <td>group_type_fra</td> <td>4</td> <td>FRA</td> </tr> <tr> <td>group_type_cash</td> <td>5</td> <td>Cash</td> </tr> <tr> <td>group_type_payment</td> <td>6</td> <td>Payment</td> </tr> <tr> <td>group_type_exchange_rate</td> <td>7</td> <td>Exchange Rate</td> </tr> <tr> <td>group_type_interest_rate_swap</td> <td>8</td> <td>Interest Rate Swap</td> </tr> <tr> <td>group_type_repo</td> <td>9</td> <td>REPO</td> </tr> <tr> <td>group_type_synth_box_leg</td> <td>10</td> <td>Synthetic Box Leg/Reference</td> </tr> <tr> <td>group_type_standard_combo</td> <td>11</td> <td>Standard Combination</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	<b>description</b>	group_type_undefined	0	Undefined	group_type_option	1	Option	group_type_forward	2	Forward	group_type_future	3	Future	group_type_fra	4	FRA	group_type_cash	5	Cash	group_type_payment	6	Payment	group_type_exchange_rate	7	Exchange Rate	group_type_interest_rate_swap	8	Interest Rate Swap	group_type_repo	9	REPO	group_type_synth_box_leg	10	Synthetic Box Leg/Reference	group_type_standard_combo	11	Standard Combination
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	<b>name</b>	<b>value</b>	<b>description</b>
	group_type_guarantee	12	Guarantee
	group_type_otc_general	13	OTC General
	group_type_equity_warrant	14	Equity Warrant
	group_type_security_lending	15	Security Lending
<b>gup_reason_i (Give Up, Broadcast Reason)</b>			
Datatype	INT32_T		
Description	Defines the reason why the Directed Give Up broadcast was sent.		
Value Set	<b>value</b>	<b>description</b>	
	1	Holding	
	2	Confirmed	
	3	Rejected	
	4	Delete Holding	
	5	Deleted	
	6	Extended	
<b>has_amortization_c (Has Amortization)</b>			
Datatype	UINT8_T		
Description	Defines if the underlying has amortization or not.		
Value Set	<b>name</b>	<b>value</b>	
	Yes	1	
	No	2	
<b>hmmss_s (Time, External)</b>			
Datatype	char[6]		
Description	Time in ASCII. Format: HHMMSS.		
<b>hidden_vol_meth_n (Method, Hidden Volume)</b>			
Datatype	UINT16_T		
Description	Hidden Volume Method:		
Value Set	<b>value</b>	<b>description</b>	
	0	No hidden used	

	<b>value</b>	<b>description</b>						
	1	Normal						
	2	Additional						
<b>history_ex_i (HISTORY_EX_I)</b>								
Datatype	INT32_T							
Description	History exercised							
<b>identity (IDENTITY)</b>								
Datatype	char[5]							
Description	Intermediate field.							
<b>inc_id (INC_ID)</b>								
Datatype	char[14]							
Description	Intermediate field.							
<b>inc_id_s (Instrument Class, Identity)</b>								
Datatype	char[14]							
Description	The ASCII representation of the instrument class.							
<b>index_at_dated_i (INDEX_AT_DATED_I)</b>								
Datatype	INT32_T							
Description	Index Value at Dated Date, 2 decimals							
<b>index_market_c (Index Market)</b>								
Datatype	UINT8_T							
Description	Indicates if the market is an index market or not							
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		<b>value</b>	<b>description</b>	1	Yes	2	No
<b>value</b>	<b>description</b>							
1	Yes							
2	No							
<b>index_value_i (INDEX_VALUE_I)</b>								
Datatype	INT32_T							
Description	Index Value, 2 decimals							
<b>indicative_prices_c (Indicative Prices)</b>								
Datatype	UINT8_T							
Description	Indicative Prices							
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Yes	1	No	2
<b>name</b>	<b>value</b>							
Yes	1							
No	2							
<b>info_type_i (Information Type)</b>								

Datatype	INT32_T																																																																		
Description	The type of information ready:																																																																		
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46	Recalculated margin for previous day ready																																																																		

value	description
47	Margin information from Lateevening ready
48	Margin summary information from Lateevening ready
49	API data from Intra Day Margin Calculation ready
52	Margin summary information from old dateready
53	Start owl cycle
54	Intra Day Margin Calculation product area ready
64	Expiration information
98	Final Fixing value established
100	Daily Trade statistics information
101	Revised Daily Trade statistics information
128	Paynote information
200	Official price ready (LME only)
201	Evening margin file ready (KOFEX specific)
202	Intra day margin file ready (KOFEX specific)
256	Used in queries to get possible reports
257	Vector files ready
260	Settlement note
261	Trades on trading account zero days forward
263	Settlement note futures
265	Settlement note ELEX
280	Cancellation note
285	Settlement notes, overtaking trades older than 1 day
290	Settlement note (position accounts)
291	Cancellation note (position accounts)
292	Settlement notes, overtaking... (position account)
293	Settlement note futures (position accounts)
300	Daily cash settlement futures
320	Error deals
325	Dividends, security lending
340	Exercise transaction list
341	Restoration, security lending
342	Trades per clearing account



value	description
344	Monthly cash settlement, security lending
350	Cash settlement options
351	Cash settlement forwards
352	Cash settlement forwards trading accounts
353	Cash settlement swaps
355	Monthly cash settlement forwards & IMM-FRA, detailed
356	Monthly cash settlement forwards & IMM-FRA
357	Expiration cash settlement forwards & IMM-FRA
358	Expiration cash settlement forwards & IMM-FRA/summary on account
359	Expiration cash settlement forwards & IMM-FRA/summary on member
360	Expiration settlement FX Forwards
361	Expiration Tailor-Made Bond Forward
362	Cash settlement STINA
363	Accumulated Compound Rate STINA
370	Delivery
371	Delivery instruction security lending
373	Delivery advice summary
374	Delivery instruction collect note security lending
375	Delivery summary
376	Delivery fees new contracts
377	Delivery fees new contracts, summary on customer
379	DPMON Clearing Mgr Total Margin Req Summary
380	DPMON Product Area Collateral Summary
381	Margin and position listing
382	Margin requirement summary
383	Data used for margin calculation
384	Product area total collateral summary
385	Product area collateral summary
386	Security bank summary
387	Clearing manager summary
388	Clearing manager product area margin requirement summary

value	description
389	Clearing manager total margin requirement summary
390	Position and position overview
391	Non-propagated Margin and position listing
392	Member product area collateral summary
393	Evening Risk Parameter File, Central, Exchange 1
394	Evening Risk Parameter File, Central, Exchange 2
395	Intra Day Risk Parameter File, Central, Exchange 1
396	Intra Day Risk Parameter File, Central, Exchange 2
397	Preliminary Risk Parameter File, Central, Exchange 1
398	Preliminary Risk Parameter File, Central, Exchange 2
400	Delivery instruction stocks (net)
401	Delivery instruction bonds
403	Evening Risk Parameter File, Member, Exchange 1
404	Evening Risk Parameter File, Member, Exchange 2
405	Intra Day Risk Parameter File, Member, Exchange 1
406	Intra Day Risk Parameter File, Member, Exchange 2
407	Preliminary Risk Parameter File, Member, Exchange 1
408	Preliminary Risk Parameter File, Member, Exchange 2
410	Payment notes
411	Settlement amounts, customer
412	Separate fees
420	Changes of position
421	Accumulated amounts clearing accounts
422	In the money
423	Out of the money
424	Open Balance
426	Valid accounts
429	Accumulated amounts trading accounts

value	description
430	Trades/daily account
431	Rectified trades during the day
432	Position transfer trades during the day
433	Forecast closing
434	Forecast closing, summary
436	After hours trades
437	Customer Position Exceeding the Limits
438	Rebate per customer
439	FX clearing
440	FX expiration
441	Total margin requirements
442	Total settlement amounts
443	Power positions
444	Cascade options
445	Cascade forwards
446	Trades with counterparts
447	Trades per customer account with fees
448	Position not assign in exercise
449	FX Clearing, sorted by counterparts
450	Nord pool daily trade list
451	Nord pool clearing list summary for brokers
452	Nord pool clearing list
453	Pulpex option exercise note
454	Pulpex future expiration note
455	Clearing information on exercise, closing & markto-market
456	Discount per customer, rule and account
457	NOS fee list
458	Delivery note, zero-day forwards
459	Delivery note, summary
460	Trade counterparty report
501	Collateral held and activity
502	Option open positions
503	Futures open positions
504	Intra day risk - upside (Net)
505	Intra day risk - downside (Net)

value	description
506	Daily settlement reports (general clearing members)
507	Daily settlement reports
508	Margin activity reports
509	Cash transfer instructions (credit)
510	Cash transfer instructions (debit)
511	Options exercised and assigns
512	Consolidated positions activity (options)
513	Final contract reports (options)
514	Consolidated positions activity (futures)
515	Final contract reports (futures)
516	Monthly interest and accommodation
517	Monthly fees reports
518	Unsettled delivery report
519	Deliver/Receive reports
520	Exercise by exceptions
521	Options expired positions
522	Intra day margin activity reports
523	Give-up trades for executor
524	Give-up trades for clearing broker
525	Exercised/Expired options to be settled
541	DPMON margin and position
542	DPMON margin requirement summary
543	DPMON data used for margin calc
544	DPMON data used for margin calc CO
545	DPMON security bank summary
546	DPMON clearing manager summary
547	DPMON non-prop margin and position
548	DPMON margins
549	DPMON price alarm limit
550	DPMON price dump
551	SIMSRV price dump
552	IDMON margin and position
553	IDMON margin requirement summary
554	IDMON data used for margin calc
555	IDMON data used for margin calc CO

value	description
556	IDMON security bank summary
557	IDMON clearing manager summary
558	IDMON non-prop margin and position
559	IDMON margin report
560	IDMON price dump
561	RCAR worst
562	RCAR final scenario
563	RCAR top 10
564	RCAR detailed
566	DPMON Margin alarm limits
567	IDMON Margin alarm report
568	Risk parameter report
566	DPMON Margin alarm limits
590	DPMON Margin and position external
591	DPMON Data used for margin calc external
592	Data used for margin calc CO
593	Margin evening prices
594	Intray Param Change Report
595	Parameter Value Report
596	Window class Value Report
597	DPMON Parameter Value Report
598	DPMON Window class Value Report
600	Member order list report (CED only)
601	Member trade list report (CED only)
602	Market trades
603	Option Give up (for the executor member)
604	Option Give up (for the clearing broker member)
605	MS33 (CASSA report id)
606	MS59 (CASSA report id)
607	MS60 (CASSA report id)
608	Member stop order list report (CED only)
701	Assign ready (CED)
702	Theoretical ready (CED)
703	Class file ready (CED)
1381	Margin and position listing for Late Evening1

value	description
1382	Margin requirement summary for Late Evening1
1383	Data used for margin calculation for Late Evening1
1384	Product area total collateral summary for Late Evening1
1385	Product area collateral summary for Late Evening1
1386	Security bank summary for Late Evening1
1387	Clearing manager summary for Late Evening1
1388	Clearing manager product area margin requirement summary for Late Evening1
1389	Clearing manager total margin requirement summary for Late Evening1
1390	Position and position overview for Late Evening1
1391	Non-propagated Margin and position listing for Late Evening1
1392	Member product area collateral summary for Late Evening1
1561	RCAR worst for Late Evening1
1562	RCAR final scenario for Late Evening1
1563	RCAR top 10 for Late Evening1
1564	RCAR detailed for Late Evening1
1592	Data used for margin calc CO for Late Evening1

<b>ing_id_s (Instrument Group Identity)</b>	
Datatype	char[3]
Description	The ASCII representation of the instrument group.
<b>initial_trr_min_value_u (Initial Trade Report, Minimum Order Value.)</b>	
Datatype	INT64_T
Description	Not applicable.
<b>instance_c (Instance, Number)</b>	
Datatype	UINT8_T
Description	Defines one specific instance for multiple processes.
<b>instance_next_c (Next Instance Number)</b>	
Datatype	UINT8_T
Description	Next instance number for multiple processes.
<b>instigant_c (Instigant)</b>	

Datatype	UINT8_T									
Description	Specifies whether a trade in a deal is the instigating party. A trade is considered instigant in the following cases: <ul style="list-style-type: none"> <li>- Active/aggressive part in deal matched in electronic order book.</li> <li>- Source side in position transfer.</li> <li>- Source side in APS (average price system) deal.</li> </ul>									
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not instigating part</td> </tr> <tr> <td>1</td> <td>Instigating part</td> </tr> <tr> <td>2</td> <td>Instigating part unknown or N/A</td> </tr> </tbody> </table>		value	description	0	Not instigating part	1	Instigating part	2	Instigating part unknown or N/A
value	description									
0	Not instigating part									
1	Instigating part									
2	Instigating part unknown or N/A									
instrument_group_c (Instrument Group)										
Datatype	UINT8_T									
Description	A unique binary representation of the instrument group.									
ins_id (INS_ID)										
Datatype	char[32]									
Description	Intermediate field.									
ins_id_s (Series, Identity)										
Datatype	char[32]									
Description	Instrument Series name is ASCII.									
interest_rate_i (Interest Rate)										
Datatype	INT32_T									
Description	Defines the Interest Rate for the underlying. Decimal value stored with 6 implicit decimal, e.g. 11% is stored as 110000.									
int_id (INT_ID)										
Datatype	char[8]									
Description	Intermediate field.									
int_id_s (Instrument, Identity)										
Datatype	char[8]									
Description	The ASCII representation of the instrument type.									
investor_type_s (Investor Type)										
Datatype	char[4]									
Description	Defines the investor type for the account.									
inv_scheme_c (Investment Scheme)										
Datatype	CHAR									
Description	Not applicable.									
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>Blank</td> <td>Not Applicable</td> </tr> </tbody> </table>		value	description	Blank	Not Applicable				
value	description									
Blank	Not Applicable									

isin_code_old_s (ISIN Code, Old Series)							
Datatype	char[12]						
Description	This is the old ISIN Code if a new code was assigned to the series after a recapitalization.						
isin_code_s (ISIN Code)							
Datatype	char[12]						
Description	A code which uniquely identifies a specific securities issue (International Securities Identification Number). The ISIN shall consist of: a) A prefix, which is the alpha-2 country code b) The basic number, which is nine characters c) A check digit For more information about ISIN code, see the international standard ISO 3166.						
issued_price_u (Issued Price)							
Datatype	UINT32_T						
Description	Defined the issued price for the underlying with three implicit decimals.						
is_exclusive_opening_sell_c (Exclusive Open Sell)							
Datatype	UINT8_T						
Description	Defines if this is an Instrument Group where corresponding Instrument Series has Exclusive Open-Sell. If Exclusive Open-Sell, then it is only possible to do buy-open or sell-close.						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
is_fractions_c (Fraction, Premium)							
Datatype	CHAR						
Description	Is the premium internally represented as fractions?						
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>Y</td> </tr> <tr> <td>No</td> <td>N</td> </tr> </tbody> </table>	name	value	Yes	Y	No	N
name	value						
Yes	Y						
No	N						
items_block_n (Item, Block)							
Datatype	UINT16_T						
Description	Number of items.						
items_c (Item)							
Datatype	UINT8_T						
Description	Number of items.						
items_n (Items)							
Datatype	UINT16_T						
Description	Number of items.						



	This field used in a variable message counts the number of sub items provided in the variable message.													
<b>ixv_id_s (IXV_ID_S)</b>														
Datatype	char[16]													
Description	Index Value Id													
<b>key_number_i (Key Number)</b>														
Datatype	INT32_T													
Description	The key number within one delivery number.													
<b>knock_variant_c (Knock Variant)</b>														
Datatype	UINT8_T													
Description	<p>Knock in/out variant.</p> <p>A Knock In option is an option that comes alive, i.e. Knocks In, when a certain barrier is reached. If the barrier is never reached, the option will automatically expire worthless, as without reaching the barrier, it never exists. If the barrier is reached, the option knocks in and its final value will depend on where the spot rate settles in relation to the strike. They are therefore substantially cheaper than ordinary options.</p> <p>With the Knockout feature, if at any time up to and including the maturity, the Knockout level is reached the option will expire worthless.</p>													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Down</td> </tr> <tr> <td>2</td> <td>Up</td> </tr> </tbody> </table>		value	description	0	Not applicable	1	Down	2	Up				
value	description													
0	Not applicable													
1	Down													
2	Up													
<b>lag_in_index_n (LAG_IN_INDEX_N)</b>														
Datatype	UINT16_T													
Description	Number of month the index is lagging													
<b>last_paid_i (Last, Paid)</b>														
Datatype	INT32_T													
Description	Last paid for the Instrument Series.													
<b>last_theo_c (Last Paid, Theoretical Mark)</b>														
Datatype	UINT8_T													
Description	Defines the origin of the price.													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Missing</td> </tr> <tr> <td>1</td> <td>Theoretically calculated</td> </tr> <tr> <td>2</td> <td>From the order book</td> </tr> <tr> <td>3</td> <td>Manually updated</td> </tr> <tr> <td>4</td> <td>Artificial</td> </tr> </tbody> </table>		value	description	0	Missing	1	Theoretically calculated	2	From the order book	3	Manually updated	4	Artificial
value	description													
0	Missing													
1	Theoretically calculated													
2	From the order book													
3	Manually updated													
4	Artificial													
<b>lead_manager_country_id_s (Lead Manager, Country)</b>														

Datatype	char[2]																				
Description	The exchange identity that together with Lead Manager, Customer represents the lead manager.																				
lead_manager_ex_customer_s (Lead Manager, Customer)																					
Datatype	char[5]																				
Description	This field together with Lead Manager, Country, identifies the member/participant that represents the lead manager.																				
leg_number_c (Leg Number)																					
Datatype	UINT8_T																				
Description	Member or Party leg.																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>0</td> </tr> <tr> <td>Member leg</td> <td>1</td> </tr> <tr> <td>Party leg</td> <td>2</td> </tr> </tbody> </table>			name	value	None	0	Member leg	1	Party leg	2										
name	value																				
None	0																				
Member leg	1																				
Party leg	2																				
level_type_i (Level Type)																					
Datatype	INT32_T																				
Description	Position to be retrieved at what level?																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Origin</td> </tr> <tr> <td>2</td> <td>Margin</td> </tr> </tbody> </table>			value	description	1	Origin	2	Margin												
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1	Origin																				
2	Margin																				
le_state_c (Type, Legal Event)																					
Datatype	UINT8_T																				
Description	<p>In principle, any object related to the clearing oriented part of the system, may be assigned a Legal Event State, or Le state for short. The field is not relevant to exchanges not using the clearing functionality; the value will in these cases always be 4, Active.</p> <p>Legal Event type:</p>																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>0</td> <td>None</td> </tr> <tr> <td>holding</td> <td>1</td> <td>Holding Object is holding and awaits countersign.</td> </tr> <tr> <td>holding_indirectly</td> <td>2</td> <td>Holding Indirectly Object is awaiting a holding object.</td> </tr> <tr> <td>pending</td> <td>3</td> <td>Pending Object is awaiting a later operation.</td> </tr> <tr> <td>active</td> <td>4</td> <td>Active</td> </tr> </tbody> </table>			name	value	description	None	0	None	holding	1	Holding Object is holding and awaits countersign.	holding_indirectly	2	Holding Indirectly Object is awaiting a holding object.	pending	3	Pending Object is awaiting a later operation.	active	4	Active
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active	4	Active																			

	<b>name</b>	<b>value</b>	<b>description</b>
			Object has been confirmed, if it was originally holding.
	completed	5	Completed A pending object has been completed.
	rejected	6	Rejected Object has been rejected.
	business_completed	7	Business Completed Realtime events done. This value is logically between Active and Completed.
	delivered	8	Delivered Object has been completed due to delivery.
	rectified	9	Rectified
	deleted	10	Deleted
	pending_rectify	11	Pending Rectify
	expired	12	Expired
	pending_authorize	13	Pending Authorize
<b>linked_commodity_n (Linked Commodity Code)</b>			
Datatype	UINT16_T		
Description	<p>If one or several underlying entries are linked together they are referenced to the real underlying by a pointer to the linked underlying code.</p> <p>If the underlyings are linked this code contains another Commodity Code distributed as another entry.</p> <p>0 means that the underlyings are not linked.</p>		
<b>list_name_s (Name, List)</b>			
Datatype	char[40]		
Description	List file name		
<b>loan_number_s (Loan Number)</b>			
Datatype	char[9]		
Description	Defines the loan number for the underlying.		
<b>long_adjustment_i (Long Adjustment)</b>			
Datatype	INT32_T		
Description	The number of contracts to net.		
<b>long_free_text_s (Free Text, Long)</b>			
Datatype	char[64]		
Description	Specifies a free text field for the underlying.		
<b>long_ins_id_s (Series Name, Long)</b>			

Datatype	char[32]											
Description	Defines an additional instrument information to an instrument series.											
long_name (LONG_NAME)												
Datatype	char[32]											
Description	Intermediate field.											
long_underlying_id_s (Long Underlying Id)												
Datatype	char[32]											
Description	Specifies an additional the long name for the underlying.											
lot_type_c (Lot, Type)												
Datatype	UINT8_T											
Description	Specifies the lot type per block size.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Odd Lot</td> </tr> <tr> <td>2</td> <td>Round Lot</td> </tr> <tr> <td>3</td> <td>Block Lot</td> </tr> <tr> <td>4</td> <td>All or None Lot Used to define which multiple of the order quantity that is allowed for All or None orders. In order transactions an All or None order is sent with block size = 0.</td> </tr> </tbody> </table>		value	description	1	Odd Lot	2	Round Lot	3	Block Lot	4	All or None Lot Used to define which multiple of the order quantity that is allowed for All or None orders. In order transactions an All or None order is sent with block size = 0.
value	description											
1	Odd Lot											
2	Round Lot											
3	Block Lot											
4	All or None Lot Used to define which multiple of the order quantity that is allowed for All or None orders. In order transactions an All or None order is sent with block size = 0.											
lower_limit_i (Premium/Price, Low Limit)												
Datatype	INT32_T											
Description	The lower limit in the price interval.											
maintain_positions_c (Maintain Positions)												
Datatype	UINT8_T											
Description	Maintain positions?											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Keep Position</td> </tr> <tr> <td>2</td> <td>No Keep Position</td> </tr> </tbody> </table>		value	description	1	Keep Position	2	No Keep Position				
value	description											
1	Keep Position											
2	No Keep Position											
market_c (Market Code)												
Datatype	UINT8_T											
Description	Binary representation of the market. Unique together with COUNTRY_C.											
market_maker_c (Market Maker)												
Datatype	UINT8_T											
Description	Is the account a market maker account?											

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No														
value	description																				
1	Yes																				
2	No																				
<b>market_type_c (Market, Type)</b>																					
Datatype	UINT8_T																				
Description	Defines the type of market.																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Generic</td> </tr> <tr> <td>1</td> <td>Stock</td> </tr> <tr> <td>2</td> <td>Fixed Income</td> </tr> <tr> <td>3</td> <td>Currency</td> </tr> <tr> <td>4</td> <td>Power/Energy</td> </tr> <tr> <td>5</td> <td>Commodity</td> </tr> <tr> <td>6</td> <td>Payment</td> </tr> <tr> <td>7</td> <td>Index</td> </tr> <tr> <td>8</td> <td>General</td> </tr> </tbody> </table>	value	description	0	Generic	1	Stock	2	Fixed Income	3	Currency	4	Power/Energy	5	Commodity	6	Payment	7	Index	8	General
value	description																				
0	Generic																				
1	Stock																				
2	Fixed Income																				
3	Currency																				
4	Power/Energy																				
5	Commodity																				
6	Payment																				
7	Index																				
8	General																				
<b>mar_id_s (Market, Identity)</b>																					
Datatype	char[5]																				
Description	The ASCII representation of the market.																				
<b>master_clh_id_s (Master CLH, Identity)</b>																					
Datatype	char[12]																				
Description	The master clearinghouse for the exchange.																				
<b>match_group_nbr_u (Match group number, group inside an execution)</b>																					
Datatype	UINT32_T																				
Description	A sequential number of an execution sequence number.																				
<b>match_item_nbr_u (Match Item Number)</b>																					
Datatype	UINT32_T																				
Description	Match item number inside a match group number.																				
<b>maturity_c (Maturity)</b>																					
Datatype	UINT8_T																				
Description	Defines if this an Instrument Group where corresponding Instrument Series has an Expiration Date defined.																				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2														
name	value																				
Yes	1																				
No	2																				

maximum_size_u (Block Size, Maximum Volume)	
Datatype	INT64_T
Description	The maximum volume allowed for the order per block size. Note! A value of 0 means no limit.
mbs_id_s (Minimum Bid Schedule)	
Datatype	CHAR[2]
Description	Not applicable.
member_circ_num_b_s (Member, Circular Number)	
Datatype	char[4]
Description	Not applicable.
member_net_open_interest_q (Net Open interest, Member)	
Datatype	UINT64_T
Description	Defines the member net open interest.
mic_code_s (MIC Code)	
Datatype	char[8]
Description	Specifies the MIC Code for the market.
minimum_size_n (Block Size, Minimum Volume)	
Datatype	UINT32_T
Description	The minimum volume required for the order per block size. Note! A value of 0 means no limit.
min_qty_increment_i (Minimum Quantity Increment)	
Datatype	INT32_T
Description	Not applicable.
min_show_vol_u (Order, Min Show Volume)	
Datatype	UINT32_T
Description	Minimum visible volume that must be specified in hidden orders.
modified_date_s (Date, Modified)	
Datatype	char[8]
Description	Date what the item was modified in ASCII. Format: YYYYMMDD.
modified_time_s (Time, Modified)	
Datatype	char[6]
Description	Defines what time the item was last changed. Format: HHMMSS.
modifier_c (Modifier)	
Datatype	UINT8_T
Description	Expiration date modifier. This value is set to zero when the instrument is new. The value is incremented by one each time the instrument is involved in an issue, split, etc. Note that the modifier value can be different for bid and ask options in the same Series.
money_or_par_c (Money or Par)	

Datatype	UINT8_T							
Description	Money or Par filled repo							
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Money</td> <td>1</td> </tr> <tr> <td>Par</td> <td>2</td> </tr> </tbody> </table>		name	value	Money	1	Par	2
name	value							
Money	1							
Par	2							
named_struct_n (Named Struct, Number)								
Datatype	UINT16_T							
Description	In order to use variable messages, the structs that are potential members of such messages must have unique numbers. For detailed information refer to the "Named Structs Involved in VIMS" section.							
name_s (Name)								
Datatype	char[32]							
Description	The full ASCII representation.							
name_short (NAME_SHORT)								
Datatype	char[10]							
Description	intermediate field.							
nationality_s (Nationality)								
Datatype	char[4]							
Description	Defined the nationality for the account.							
nbr_held_q (Held)								
Datatype	INT64_T							
Description	Number of held (long) contracts							
nbr_written_q (Written)								
Datatype	INT64_T							
Description	Number of written (short) contracts							
net_open_interest_q (Net Open Interest)								
Datatype	UINT64_T							
Description	Defines the net open interest.							
new_commodity_n (Commodity Code, New)								
Datatype	UINT16_T							
Description	Specified if the adjusted series are moved to a new underlying compared to the original series. If keeping the original underlying, the value is zero.							
new_deal_price_i (Price, New Deal)								
Datatype	INT32_T							
Description	Defines the new deal price on a rectified deal..							
next_clearing_date_s (Clearing Date, Next)								
Datatype	char[8]							

Description	Date in ASCII for clearing trade, format is YYYYMMDD.					
next_planned_start_date_s (Planned Start Date, Next)						
Datatype	char[8]					
Description	<p>Defines planned start date for next planned state change. Distributed in UTC together with Planned Start Time, Next. Format: YYYYMMDD.</p> <p>If specified it is a warning and defines the next planned state.</p> <p>If not specified it is a state change.</p>					
next_planned_start_time_s (Planned Start Time, Next)						
Datatype	char[6]					
Description	<p>Defines planned start time for next planned state change. Distributed in UTC together with Planned Start Date, Next. Format: HHMMSS.</p> <p>If specified it is a warning and defines the next planned state.</p> <p>If not specified it is a state change.</p>					
nominal_value_q (Nominal Value)						
Datatype	INT64_T					
Description	Nominal value for the underlying.					
non_traded_ref_c (Non Traded Reference)						
Datatype	UINT8_T					
Description	Not applicable.					
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	2	No
value	description					
2	No					
normal_clearing_days_n (Normal Clearing Days)						
Datatype	UINT16_T					
Description	This field describes the normal week days which is open for clearing. The field is a bit map, where each bit corresponds to a day in the week. If the bit is set to 1 the day is open, otherwise it is closed. The lowest bit is Monday, next Tuesday and so on.					
normal_settl_days_n (Normal Settlement Days)						
Datatype	UINT16_T					
Description	This field describes the normal week days which is open for settlement. The field is a bit map, where each bit corresponds to a day in the week. If the bit is set to 1 the day is open, otherwise it is closed. The lowest bit is Monday, next Tuesday and so on.					
normal_trading_days_n (Normal Trading Days)						
Datatype	UINT16_T					
Description	This field describes the normal week days which is open for trading. The field is a bit map, where each bit corresponds to a day in the week. If the bit is set to 1 the day is open, otherwise it is closed. The lowest bit is Monday, next Tuesday and so on.					
no_of_sub_n (Substitution, Max Number)						
Datatype	UINT16_T					
Description	Maximum allowed number of substitutions					
ntd_id_s (Non-trading Days, Identity)						



Datatype	char[5]											
Description	Defines the identity of holiday table.											
number_short (NUMBER_SHORT)												
Datatype	UINT16_T											
Description	Intermediate field.											
old_trade_c (Old Trade Indicator)												
Datatype	UINT8_T											
Description	Indicates whether the trade emanates from a deal cleared prior to the current clearing date.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No Given up trade cleared today</td> </tr> </tbody> </table>		value	description	1	Yes	2	No Given up trade cleared today				
value	description											
1	Yes											
2	No Given up trade cleared today											
omex_version_s (OMEX Version)												
Datatype	char[16]											
Description	This is the current Genium INET version running on the system.											
on_off_c (On or Off)												
Datatype	UINT8_T											
Description	Status field for Suspend, Resume. Resume=On, Suspend=Off											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>On, keep orders</td> </tr> <tr> <td>2</td> <td>Off, remove orders</td> </tr> <tr> <td>3</td> <td>On, remove orders</td> </tr> <tr> <td>4</td> <td>Off, keep orders</td> </tr> </tbody> </table>		value	description	1	On, keep orders	2	Off, remove orders	3	On, remove orders	4	Off, keep orders
value	description											
1	On, keep orders											
2	Off, remove orders											
3	On, remove orders											
4	Off, keep orders											
open_close_c (Open or Closed)												
Datatype	UINT8_T											
Description	Defines the position update for the account. None if positions not maintained or not applicable for instrument.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None No position update</td> </tr> <tr> <td>1</td> <td>Open</td> </tr> <tr> <td>2</td> <td>Closed</td> </tr> </tbody> </table>		value	description	0	None No position update	1	Open	2	Closed		
value	description											
0	None No position update											
1	Open											
2	Closed											
open_close_req_c (Open Close Request)												
Datatype	UINT8_T											

Description	Describes how the requested position account should be updated:		
Value Set	<b>name</b>	<b>value</b>	<b>description</b>
	OPEN_CLOSE_REQ_DE-F FAULT	0	Default for the account
	OPEN_CLOSE_REQ_OPEN	1	Open
	OPEN_CLOSE_REQ_CLOSE	2	Close/net
	OPEN_CLOSE_REQ_MND_CLOSE	3	Mandatory close
	OPEN_CLOSE_REQ_RE- SET	4	Set to default to the account (valid only for alter order)
<b>operation_c (Operation)</b>			
Datatype	UINT8_T		
Description	Used for two purposes: 1. Tells if the Rectify Deal is a Delete part, Create part or combined. 2. Defines the operation in external write transactions. 3. Logout request. Only value Logout is allowed.		
Value Set	<b>value</b>	<b>description</b>	
	1	Delete Purpose 1	
	2	Create Purpose 1	
	3	Delete and Create Purpose 1	
	1	Add Purpose 2	
	2	Change Purpose 2	
	3	Delete Purpose 2	
	2	Logout Purpose 3	
<b>opra_indicator_c (OPRA Indicator)</b>			
Datatype	CHAR		
Description	Not applicable.		
<b>option_style_c (Option, Style)</b>			
Datatype	UINT8_T		
Description	Defines the style of the option.		

Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>option_style_undefined</td> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>american</td> <td>1</td> <td>American</td> </tr> <tr> <td>european</td> <td>2</td> <td>European</td> </tr> <tr> <td>asian</td> <td>3</td> <td>Asian</td> </tr> <tr> <td>bermudan</td> <td>4</td> <td>Bermudan</td> </tr> <tr> <td>knock_in</td> <td>5</td> <td>Knock-in</td> </tr> <tr> <td>knock_out</td> <td>6</td> <td>Knock-out</td> </tr> <tr> <td>binary</td> <td>7</td> <td>Binary</td> </tr> <tr> <td>ratchet</td> <td>8</td> <td>Ratchet</td> </tr> </tbody> </table>	name	value	description	option_style_undefined	0	Not applicable	american	1	American	european	2	European	asian	3	Asian	bermudan	4	Bermudan	knock_in	5	Knock-in	knock_out	6	Knock-out	binary	7	Binary	ratchet	8	Ratchet
name	value	description																													
option_style_undefined	0	Not applicable																													
american	1	American																													
european	2	European																													
asian	3	Asian																													
bermudan	4	Bermudan																													
knock_in	5	Knock-in																													
knock_out	6	Knock-out																													
binary	7	Binary																													
ratchet	8	Ratchet																													
option_type_c (Option, Type)																															
Datatype	UINT8_T																														
Description	Defines the type of the option.																														
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>option_type_undefined</td> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>option_type_call</td> <td>1</td> <td>Call</td> </tr> <tr> <td>option_type_put</td> <td>2</td> <td>Put</td> </tr> </tbody> </table>	name	value	description	option_type_undefined	0	Not applicable	option_type_call	1	Call	option_type_put	2	Put																		
name	value	description																													
option_type_undefined	0	Not applicable																													
option_type_call	1	Call																													
option_type_put	2	Put																													
option_variant_c (Option, Variant)																															
Datatype	UINT8_T																														
Description	Defines the option variant.																														
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>Cap</td> </tr> <tr> <td>3</td> <td>Floor</td> </tr> </tbody> </table>	value	description	0	Not applicable	1	Normal	2	Cap	3	Floor																				
value	description																														
0	Not applicable																														
1	Normal																														
2	Cap																														
3	Floor																														
opt_min_ord_val_i (Optional minimum order value)																															
Datatype	INT32_T																														
Description	Optional minimum order value. The value is always expressed in the primary currency unit. The value is defined as quantity*price*price quotation factor.																														
opt_min_trade_val_i (Optional minimum trade value)																															
Datatype	INT32_T																														
Description	Optional minimum trade value. The value is always expressed in the primary currency unit.																														

	The value is defined as quantity*price*price quotation factor.							
<b>order_number_u (Order Number)</b>								
Datatype	QUAD_WORD							
Description	A unique identity for each order transaction.							
<b>org_number_s (Organization number)</b>								
Datatype	char[16]							
Description	Organization number for owner of account.							
<b>original_date_s (Original Date)</b>								
Datatype	char[8]							
Description	As of date for delivery. Format is YYYYMMDD							
<b>original_delivery_number_i (Original, Delivery Number)</b>								
Datatype	INT32_T							
Description	When not zero, it is used to point out another delivery together with fields Series and Original, Key Number.							
<b>original_key_number_i (Original, Key Number)</b>								
Datatype	INT32_T							
Description	When not zero, it is used to point out another delivery together with fields Series and Original, Delivery Number.							
<b>originator_type_c (Originator Type)</b>								
Datatype	UINT8_T							
Description	Defines the type of originator for the delivery.							
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Normal</td> </tr> <tr> <td>2</td> <td>Reversing This delivery is created from a reversing trade</td> </tr> </tbody> </table>		value	description	1	Normal	2	Reversing This delivery is created from a reversing trade
value	description							
1	Normal							
2	Reversing This delivery is created from a reversing trade							
<b>origin_c (Origin, Account Type)</b>								
Datatype	CHAR							
Description	Defines how trading activities on accounts of the account type are to be classified.							
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>House</td> <td>H</td> </tr> <tr> <td>Client</td> <td>C</td> </tr> </tbody> </table>		name	value	House	H	Client	C
name	value							
House	H							
Client	C							
<b>orig_clearing_date_s (Clearing Date, Original)</b>								
Datatype	char[8]							
Description	The date the deal was originally cleared. Date in ASCII, format is YYYYMMDD							
<b>orig_ext_trade_number_u (Trade Number, Original External)</b>								
Datatype	UINT32_T							

Description	Original trade number assigned by external system.							
orig_trade_number_i (Trade Number, Original)								
Datatype	INT32_T							
Description	For an overtaking trade, this field references the original trade.							
orig_trade_type_c (Trade Type, Original)								
Datatype	UINT8_T							
Description	Defines the original trade type, for further description see Trade Type.							
outstanding_amount_q (Outstanding Amount)								
Datatype	INT64_T							
Description	The outstanding amount for the underlying.							
own_inventory_c (Own Inventory)								
Datatype	UINT8_T							
Description	Is the account an own inventory account?							
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No
value	description							
1	Yes							
2	No							
passthrough_s (Passthrough Information)								
Datatype	char[32]							
Description	A reserved field for information sent from external sources to be passed through the clearing system without any processing or validation.							
payment_set_c (Payment Set)								
Datatype	UINT8_T							
Description	Decides if payment should occur in the beginning or in the end of a period.							
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>First</td> <td>1</td> </tr> <tr> <td>Last</td> <td>2</td> </tr> </tbody> </table>		name	value	First	1	Last	2
name	value							
First	1							
Last	2							
physical_delivery_c (Physical Delivery)								
Datatype	UINT8_T							
Description	Defines if this an Instrument Group where corresponding Instrument Series are physically delivered.							
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No
value	description							
1	Yes							
2	No							
positions_allowed_c (Positions, Allowed)								
Datatype	UINT8_T							

Description	Is it allowed to hold positions on the account?											
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2					
name	value											
Yes	1											
No	2											
post_trade_proc_c (Post Trade processed)												
Datatype	UINT8_T											
Description	Specifies if instrument series connected to the instrument type is processed in the Clearing System.											
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2					
name	value											
Yes	1											
No	2											
pos_handling_c (Position handling)												
Datatype	UINT8_T											
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>No position keeping</td> <td>1</td> </tr> <tr> <td>Single session position keeping</td> <td>2</td> </tr> <tr> <td>Invariant dual session position keeping</td> <td>3</td> </tr> <tr> <td>Sequential dual session position keeping</td> <td>4</td> </tr> </tbody> </table>	name	value	No position keeping	1	Single session position keeping	2	Invariant dual session position keeping	3	Sequential dual session position keeping	4	
name	value											
No position keeping	1											
Single session position keeping	2											
Invariant dual session position keeping	3											
Sequential dual session position keeping	4											
pqf_modifier_c (Modifier, Price Quotation Factor)												
Datatype	UINT8_T											
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> <tr> <td>2</td> <td>Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td>Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td>The item is divided by the modifier factor</td> </tr> </tbody> </table>	value	description	1	Modifier is added to the item	2	Modifier is subtracted from the item	3	Modifier is multiplied with the item	4	The item is divided by the modifier factor	
value	description											
1	Modifier is added to the item											
2	Modifier is subtracted from the item											
3	Modifier is multiplied with the item											
4	The item is divided by the modifier factor											
pqf_mod_factor_i (Modifier Factor, Price Quotation Factor)												
Datatype	INT32_T											
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals											
prev_clearing_date_s (Clearing Date, Previous)												
Datatype	char[8]											
Description	Date in ASCII for clearing trade, format is YYYYMMDD.											

price (PRICE)																					
Datatype	INT32_T																				
Description	Intermediate field.																				
price_format_c (Premium/Price Format)																					
Datatype	UINT8_T																				
Description	Not applicable.																				
price_quot_factor_i (Price, Quotation Factor)																					
Datatype	INT32_T																				
Description	Defines the price quotation factor used to calculate the trade price from the order.																				
price_unit_c (Price Unit, Underlying)																					
Datatype	UINT8_T																				
Description	The price unit for the underlying can be one of the following:																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Price</td> </tr> <tr> <td>2</td> <td>Yield</td> </tr> <tr> <td>3</td> <td>Points</td> </tr> <tr> <td>4</td> <td>Yield Diff</td> </tr> <tr> <td>5</td> <td>IMM Index</td> </tr> <tr> <td>6</td> <td>Basis Points</td> </tr> <tr> <td>7</td> <td>Inverted Yield</td> </tr> <tr> <td>8</td> <td>Percentage of Nominal</td> </tr> <tr> <td>9</td> <td>Dirty Price</td> </tr> </tbody> </table>	value	description	1	Price	2	Yield	3	Points	4	Yield Diff	5	IMM Index	6	Basis Points	7	Inverted Yield	8	Percentage of Nominal	9	Dirty Price
value	description																				
1	Price																				
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5	IMM Index																				
6	Basis Points																				
7	Inverted Yield																				
8	Percentage of Nominal																				
9	Dirty Price																				
price_unit_premium_c (Price Unit, Premium)																					
Datatype	UINT8_T																				
Description	The premium unit that describes the price unit in the order.																				
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Price</td> </tr> <tr> <td>2</td> <td>Yield</td> </tr> <tr> <td>3</td> <td>Points</td> </tr> <tr> <td>4</td> <td>Yield Diff</td> </tr> <tr> <td>5</td> <td>IMM Index</td> </tr> <tr> <td>6</td> <td>Basis Points</td> </tr> <tr> <td>7</td> <td>Inverted Yield</td> </tr> <tr> <td>8</td> <td>Percentage of Nominal</td> </tr> <tr> <td>9</td> <td>Dirty Price</td> </tr> </tbody> </table>	value	description	1	Price	2	Yield	3	Points	4	Yield Diff	5	IMM Index	6	Basis Points	7	Inverted Yield	8	Percentage of Nominal	9	Dirty Price
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7	Inverted Yield																				
8	Percentage of Nominal																				
9	Dirty Price																				

price_unit_strike_c (Price Unit, Strike)																						
Datatype	UINT8_T																					
Description	The strike price unit for the class can be one of the following:																					
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Price</td> </tr> <tr> <td>2</td> <td>Yield</td> </tr> <tr> <td>3</td> <td>Points</td> </tr> <tr> <td>4</td> <td>Yield Diff</td> </tr> <tr> <td>5</td> <td>IMM Index</td> </tr> <tr> <td>6</td> <td>Basis Points</td> </tr> <tr> <td>7</td> <td>Inverted Yield</td> </tr> </tbody> </table>	value	description	1	Price	2	Yield	3	Points	4	Yield Diff	5	IMM Index	6	Basis Points	7	Inverted Yield					
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2	Yield																					
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5	IMM Index																					
6	Basis Points																					
7	Inverted Yield																					
program_trader_c (Program Trader)																						
Datatype	UINT8_T																					
Description	Defines if the User is a program trader or not:																					
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No															
value	description																					
1	Yes																					
2	No																					
propagation_u (Propagation)																						
Datatype	UINT32_T																					
Description	States from what event the propagation is generated, e.g. Trade.																					
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>Propagate_none</td> <td>0</td> <td></td> </tr> <tr> <td>Propagate_trade</td> <td>1</td> <td></td> </tr> <tr> <td>Propagate_net_position</td> <td>2</td> <td></td> </tr> <tr> <td>Propagate_gross_position</td> <td>3</td> <td></td> </tr> <tr> <td>Propagate_delivery_flow</td> <td>4</td> <td></td> </tr> <tr> <td>Propagate_accrued</td> <td>5</td> <td></td> </tr> </tbody> </table>	name	value	description	Propagate_none	0		Propagate_trade	1		Propagate_net_position	2		Propagate_gross_position	3		Propagate_delivery_flow	4		Propagate_accrued	5	
name	value	description																				
Propagate_none	0																					
Propagate_trade	1																					
Propagate_net_position	2																					
Propagate_gross_position	3																					
Propagate_delivery_flow	4																					
Propagate_accrued	5																					
prop_type_c (Type of Propagation)																						
Datatype	UINT8_T																					
Description	Defines the type of account propagation.																					
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Trade</td> </tr> <tr> <td>2</td> <td>Position</td> </tr> <tr> <td>3</td> <td>Margin</td> </tr> </tbody> </table>	value	description	1	Trade	2	Position	3	Margin													
value	description																					
1	Trade																					
2	Position																					
3	Margin																					



	<b>value</b>	<b>description</b>	
	4	Settlement	
	5	Origin	
<b>protect_coupon_c (PROTECT_COUPON_C)</b>			
Datatype	UINT8_T		
Description	Protect index from beeing negative for coupons		
Value Set	<b>name</b>	<b>value</b>	
	Yes	1	
	No	2	
<b>protect_redempt_c (PROTECT_REDEMPT_C)</b>			
Datatype	UINT8_T		
Description	Protect index from beeing negative for redempt.		
Value Set	<b>name</b>	<b>value</b>	
	Yes	1	
	No	2	
<b>public_deal_information_c (Public Deal Information)</b>			
Datatype	UINT8_T		
Description	Specifies how the post trade public deal information is distributed.		
Value Set	<b>name</b>	<b>value</b>	
	No information	0	
	Without identity	1	
	With identity	2	
<b>pub_inf_id_n (Public Order Info)</b>			
Datatype	UINT16_T		
Description	Specifies how order information is distributed		
Value Set	<b>name</b>	<b>value</b>	<b>description</b>
	Without identity	1	The order information is distributed with broadcast BO2 and the answer of query MQ7 is without identity.
	With identity	2	The order information is distributed with broadcast BO1 and the answer of query MQ7 is with identity.

		<b>name</b>	<b>value</b>	<b>description</b>
		Query information without identity	3	The answer of MQ7 is without identity. No BO2 generated.
		Query information with identity	4	The answer of MQ7 is with identity. No BO1 generated.
		No information	5	No MQ7 generated, No BO1 or BO2 generated.
<b>qty_closed_out_q (Quantity, Closed out)</b>				
Datatype	INT64_T			
Description	Quantity closed out on position			
<b>quantity_cover_u (Quantity Cover)</b>				
Datatype	UINT32_T			
Description	Defines the number of underlying shares used as cover for a short position.			
<b>quantity_i (Quantity)</b>				
Datatype	INT64_T			
Description	Defines the quantity.			
<b>query_on_date_c (Query on Date)</b>				
Datatype	UINT8_T			
Description	Defines whether date is part of the search criteria.			
Value Set			<b>value</b>	<b>description</b>
			0	No
			1	Yes
<b>rank_class_i (Risk Ranking Class)</b>				
Datatype	INT32_T			
Description	The risk ranking class of an account or member.			
<b>rate_determ_days_n (Rate Determination Days)</b>				
Datatype	UINT16_T			
Description	Specifies number of rate determination days.			
<b>rate_i (Rate)</b>				
Datatype	INT32_T			
Description	Specifies the rate value for the reference rate and date. Given with 4 decimals.			
<b>read_access_c (Read Access)</b>				
Datatype	UINT8_T			
Description	Defines what type of data the owner of the account can read.			

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None</td> </tr> <tr> <td>1</td> <td>Position</td> </tr> <tr> <td>2</td> <td>Trade</td> </tr> </tbody> </table>	value	description	0	None	1	Position	2	Trade
value	description								
0	None								
1	Position								
2	Trade								
<b>rectify_deal_number_q (Rectify Deal Number)</b>									
Datatype	INT64_T								
Description	A number that together with series identifies a specific rectified deal.								
<b>rectify_trade_number_i (Rectify Trade Number)</b>									
Datatype	INT32_T								
Description	A number that together with series identifies a specific rectified trade.								
<b>redemption_value_i (Redemption Value)</b>									
Datatype	INT32_T								
Description	Redemption value equals the amount paid at the maturity. The redemption value will be equal to the nominal value except for securities with amortization or options. The redemption value is expressed in percentage of Nominal Value. The value is a decimal value stored with 6 decimals, e.g. 100% is stored as 1000000.								
<b>rem_quantity_i (Quantity, Remaining)</b>									
Datatype	INT64_T								
Description	Number of contracts, etc. Depending of instrument type. It reflects: Quantity still to be transferred from a transitory trade, for example, if a buy trade is created with quantity 25 on a transitory account, then rem_quantity_i will contain 25, as this quantity is still remaining to be moved to a position account. Quantity still to be exercised for trade with an instrument type that has trade exercise ability, for example if a trade is created with quantity 25 on a option series then rem_quantity_i will contain 25, as this quantity is still remaining to be exercised.								
<b>report_owner_s (Report owner)</b>									
Datatype	char[12]								
Description	Name of member or customer that is the owner of the report.								
<b>report_version_s (Report Version)</b>									
Datatype	char[3]								
Description	Zero padded sequence number of the report.								
<b>repo_type_c (Repo Type)</b>									
Datatype	UINT8_T								
Description	Defines the type of the REPO.								
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>GC</td> </tr> </tbody> </table>	value	description	0	Not applicable	1	GC		
value	description								
0	Not applicable								
1	GC								

	<b>value</b>	<b>description</b>						
	2	GCF						
	3	Special						
	4	Security Lending						
	5	IR Swap						
<b>reserved_1_c (Reserved)</b>								
Datatype	CHAR							
Description	Filler for alignment.							
<b>reserved_2_s (Reserved)</b>								
Datatype	char[2]							
Description	Filler for alignment.							
<b>reserved_prop_c (Reserved Properties)</b>								
Datatype	UINT8_T							
Description	Generic bit mask flag dependant on the specific configuration or installation.							
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>None</td> <td>0</td> </tr> <tr> <td>Anonymized</td> <td>1</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	None	0	Anonymized	1
<b>name</b>	<b>value</b>							
None	0							
Anonymized	1							
<b>reset_days_c (Reset Days)</b>								
Datatype	UINT8_T							
Description	Specifies the number of reset days to use for a leg							
<b>reset_days_type_c (Reset days type)</b>								
Datatype	UINT8_T							
Description	The day type for the Reset Days. The business day convention is always following for the reset days.							
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Trading Days</td> <td>1</td> </tr> <tr> <td>Calendar Days</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Trading Days	1	Calendar Days	2
<b>name</b>	<b>value</b>							
Trading Days	1							
Calendar Days	2							
<b>residual_i (Residual)</b>								
Datatype	INT32_T							
Description	Residual due to rounding in average price trade.							
<b>risk_currency_s (Currency, Risk)</b>								
Datatype	char[3]							
Description	Currency after currency conversion.							
<b>risk_cur_conv_c (Risk, Currency Conversion)</b>								

Datatype	UINT8_T													
Description	Condition for currency conversion for margin requirements.													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Default</td> </tr> <tr> <td>1</td> <td>Only Positive Only convert margin gains to risk currency</td> </tr> <tr> <td>2</td> <td>Always Always convert margin to risk currency</td> </tr> <tr> <td>3</td> <td>None Do not convert margin to risk currency</td> </tr> </tbody> </table>		value	description	0	Default	1	Only Positive Only convert margin gains to risk currency	2	Always Always convert margin to risk currency	3	None Do not convert margin to risk currency		
value	description													
0	Default													
1	Only Positive Only convert margin gains to risk currency													
2	Always Always convert margin to risk currency													
3	None Do not convert margin to risk currency													
risk_margin_net_c (Risk, Margin Net)														
Datatype	UINT8_T													
Description	Net margin requirements between markets.													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Do not Net</td> </tr> <tr> <td>2</td> <td>Net</td> </tr> </tbody> </table>		value	description	1	Do not Net	2	Net						
value	description													
1	Do not Net													
2	Net													
rnt_id_n (Ranking Type)														
Datatype	UINT16_T													
Description	This identifies how the instrument is ranked.													
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Rule 1 1. Price 2. Time</td> </tr> <tr> <td>2</td> <td>Rule 2 1. Inverted Price 2. Time</td> </tr> <tr> <td>3</td> <td>Rule 3 1. Price 2. Traders before MM 3. Time</td> </tr> <tr> <td>4</td> <td>Rule 4 1. Inverted Price 2. Traders before MM 3. Time</td> </tr> <tr> <td>5</td> <td>Rule 5 1. Price 2. MM before Traders</td> </tr> </tbody> </table>		value	description	1	Rule 1 1. Price 2. Time	2	Rule 2 1. Inverted Price 2. Time	3	Rule 3 1. Price 2. Traders before MM 3. Time	4	Rule 4 1. Inverted Price 2. Traders before MM 3. Time	5	Rule 5 1. Price 2. MM before Traders
value	description													
1	Rule 1 1. Price 2. Time													
2	Rule 2 1. Inverted Price 2. Time													
3	Rule 3 1. Price 2. Traders before MM 3. Time													
4	Rule 4 1. Inverted Price 2. Traders before MM 3. Time													
5	Rule 5 1. Price 2. MM before Traders													

value	description
	3. Time
6	Rule 6 1. Inverted Price 2. MM before Traders 3. Time
7	Rule 7 1. Price 2. Bait before Normal Orders 3. Time
8	Rule 8 1. Inverted Price 2. Bait before Normal Orders 3. Time
11	Rule 11 1. Price 2. Own Orders 3. Time
12	Rule 12 1. Inverted Price 2. Own Orders 3. Time

rollover_period_c (Rollover Period)															
Datatype	UINT8_T														
Description	Length of the rollover period														
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>0</td> </tr> <tr> <td>1 Month</td> <td>1</td> </tr> <tr> <td>3 Month</td> <td>3</td> </tr> <tr> <td>6 Month</td> <td>6</td> </tr> <tr> <td>12 Month</td> <td>12</td> </tr> <tr> <td>1 Week</td> <td>21</td> </tr> </tbody> </table>	name	value	None	0	1 Month	1	3 Month	3	6 Month	6	12 Month	12	1 Week	21
name	value														
None	0														
1 Month	1														
3 Month	3														
6 Month	6														
12 Month	12														
1 Week	21														

rounding_before_index_c (Rounding before index)					
Datatype	UINT8_T				
Description	Specifies if the rounding of the price is done before the index value is multiplied with the price.				
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> </tbody> </table>	name	value	Yes	1
name	value				
Yes	1				

		<b>name</b>	<b>value</b>
		No	2
<b>rqst_type_i (RQST_TYPE_I)</b>			
Datatype	INT32_T		
Value Set	<b>name</b>		<b>value</b>
		Exercise by exception	2
<b>seconds_to_state_change_n (State Change, Seconds)</b>			
Datatype	UINT16_T		
Description	<p>This identifies how many seconds that are left until a change of state.</p> <p>If the value is larger than zero it is a warning. If the value is zero it means that it is the actual state change.</p> <p>Value = 0 State Change</p> <p>Value larger than 0 Warning</p>		
<b>sector_code_s (Sector Code)</b>			
Datatype	char[4]		
Description	The sector code that the underlying is connected to.		
<b>segment_number_n (Segment Number)</b>			
Datatype	UINT16_T		
Description	Each part of a big data transfer has a segment number. In a query the segment to fetch is specified and the received answer contains the same segment number. The last answer message is indicated by segment number 0.		
<b>send_or_receive_c (Send or Receive)</b>			
Datatype	UINT8_T		
Description	Indicates if a commission rule should be used while sending or receiving a give-up.		
Value Set	<b>value</b>	<b>description</b>	
		0	None
		1	Send
		2	Receive
<b>sent_date_s (Date, Sent)</b>			
Datatype	char[8]		
Description	Defines the sent date. Format: YYYYMMDD.		
<b>sent_time_s (Time, Sent)</b>			
Datatype	char[6]		
Description	Defines the sent time. Format: HHMMSS		
<b>sequence (SEQUENCE)</b>			

Datatype	INT32_T										
Description	intermediate field.										
sequence_first_i (Number, First Sequential)											
Datatype	INT32_T										
Description	First number in a sequence.										
sequence_last_i (Number, Last Sequential)											
Datatype	INT32_T										
Description	Last number in a sequence.										
sequence_number_i (Sequence Number)											
Datatype	INT32_T										
Description	Define a sequence number.										
seq_num_srm_n (Sequence number for SRM)											
Datatype	UINT16_T										
Description	An unique sequence number used by SRM										
series_id_s (Series, Identity)											
Datatype	char[32]										
Description	Instrument Series name is ASCII.										
series_sequence_number_u (Series, Sequence Number)											
Datatype	UINT32_T										
Description	Not applicable.										
series_status_c (Series, Status)											
Datatype	UINT8_T										
Description	The actual status of the series:										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Active (both expired and not expired)</td> </tr> <tr> <td>2</td> <td>Suspended (temporarily stopped)</td> </tr> <tr> <td>3</td> <td>Issued</td> </tr> <tr> <td>4</td> <td>Delisted</td> </tr> </tbody> </table>	value	description	1	Active (both expired and not expired)	2	Suspended (temporarily stopped)	3	Issued	4	Delisted
value	description										
1	Active (both expired and not expired)										
2	Suspended (temporarily stopped)										
3	Issued										
4	Delisted										
server_type_c (Server Type)											
Datatype	CHAR										
Description	The server type at the central Exchange. Different target servers exist for different tasks. The values below are only examples.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Order</td> </tr> <tr> <td>Q</td> <td>Query</td> </tr> <tr> <td>D</td> <td>Deal</td> </tr> </tbody> </table>	value	description	O	Order	Q	Query	D	Deal		
value	description										
O	Order										
Q	Query										
D	Deal										



	<b>value</b>	<b>description</b>								
	A	Answer (only from the Central System)								
	I	Information								
<b>settlement_date_s (Date, Settlement)</b>										
Datatype	char[8]									
Description	Settlement date for delivery or payment. Format YYYYMMDD.									
<b>settlement_days_n (Settlement, Days or Month)</b>										
Datatype	UINT16_T									
Description	Number of settlement days (or month) calculation rule.									
<b>settlement_instr_date_s (Date, Settlement instruction)</b>										
Datatype	char[8]									
Description	Date for generating instructions for settlement in external settlement systems. Format: YYYYMMDD.									
<b>settl_cur_id_s (Currency, Settlement)</b>										
Datatype	char[32]									
Description	Defines the settlement currency for the instrument. The representation of the currency follows the S.W.I.F.T. handbook and ISO 3166 standard, e.g. SEK, GBP, USD and ATS.									
<b>settl_day_unit_c (Settlement Day Unit)</b>										
Datatype	UINT8_T									
Description	Describes the unit of the number of Settlement Days Rule for the instrument class									
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Not applicable</td> <td>0</td> </tr> <tr> <td>Days</td> <td>1</td> </tr> <tr> <td>Month</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Not applicable	0	Days	1	Month	2
<b>name</b>	<b>value</b>									
Not applicable	0									
Days	1									
Month	2									
<b>set_end_consider_c (Set End Consideration)</b>										
Datatype	UINT8_T									
Description	End Consideration									
Value Set	<table border="1"> <thead> <tr> <th><b>name</b></th> <th><b>value</b></th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		<b>name</b>	<b>value</b>	Yes	1	No	2		
<b>name</b>	<b>value</b>									
Yes	1									
No	2									
<b>set_start_consider_c (Calculate Settlement Amount)</b>										
Datatype	UINT8_T									
Description	Specifies if settlement amount should be calculated in the post trade message.									

Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2				
name	value										
Yes	1										
No	2										
short_code (SHORT_CODE)											
Datatype	CHAR										
Description	Intermediate field.										
size_n (Size)											
Datatype	UINT16_T										
Description	Size of following struct including header where size resides.										
so_commodity_n (Commodity code, Spin Off)											
Datatype	UINT16_T										
Description	Specified if the adjusted series are moved to a new underlying compared to the original series. If keeping the original underlying, the value is zero.										
so_contract_size_modifier_c (Modifier, Contract Size)											
Datatype	UINT8_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> <tr> <td>2</td> <td>Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td>Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td>The item is divided by the modifier factor</td> </tr> </tbody> </table>	value	description	1	Modifier is added to the item	2	Modifier is subtracted from the item	3	Modifier is multiplied with the item	4	The item is divided by the modifier factor
value	description										
1	Modifier is added to the item										
2	Modifier is subtracted from the item										
3	Modifier is multiplied with the item										
4	The item is divided by the modifier factor										
so_contr_size_mod_factor_i (Modifier Factor, Spin Off Contract Size)											
Datatype	INT32_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 5 implicit decimals.										
so_country_c (Market, Spin Off)											
Datatype	UINT8_T										
Description	Is defined if the Spin off series is moved to a new market compared to the original series. If the original market is kept, the field is 0.										
so_deal_price_modifier_c (Modifier, Spin Off Deal Price)											
Datatype	UINT8_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> </tbody> </table>	value	description	1	Modifier is added to the item						
value	description										
1	Modifier is added to the item										

	<b>value</b>	<b>description</b>
	2	Modifier is subtracted from the item
	3	Modifier is multiplied with the item
	4	The item is divided by the modifier factor
<b>so_deal_price_mod_factor_i (Modifier Factor, Spin Off Deal Price)</b>		
Datatype	INT32_T	
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals	
<b>so_market_c (Market, Spin Off)</b>		
Datatype	UINT8_T	
Description	Is defined if the Spin off series is moved to a new market compared to the original series. If the the original market is kept, the field is 0.	
<b>so_pqf_modifier_c (Modifier, Spin Off Price Quotation Factor)</b>		
Datatype	UINT8_T	
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.	
Value Set	<b>value</b>	<b>description</b>
	1	Modifier is added to the item
	2	Modifier is subtracted from the item
	3	Modifier is multiplied with the item
	4	The item is divided by the modifier factor
<b>so_pqf_mod_factor_i (Modifier Factor, Spin Off Price Quotation Factor)</b>		
Datatype	INT32_T	
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals	
<b>so_strike_price_modifier_c (Modifier, Spin Off Strike Price)</b>		
Datatype	UINT8_T	
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.	
Value Set	<b>value</b>	<b>description</b>
	1	Modifier is added to the item
	2	Modifier is subtracted from the item
	3	Modifier is multiplied with the item
	4	The item is divided by the modifier factor
<b>so_strike_price_mod_factor_i (Modifier Factor, Spin Off Strike Price)</b>		
Datatype	INT32_T	

Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals		
spinoff_c (Spinoff)			
Datatype	UINT8_T		
Description	Is the actual adjustment containing also Spin off series?		
Value Set	<b>value</b>		<b>description</b>
	1		Yes
	2		No
start_date_s (Date, Start)			
Datatype	char[8]		
Description	Start date. Format: YYYYMMDD.		
state_c (State)			
Datatype	UINT8_T		
Description	Defines the state of a request.		
Value Set	<b>name</b>	<b>value</b>	<b>description</b>
	None	0	None
	holding	1	Holding Object is holding and awaits countersign.
	holding_indirectly	2	Holding Indirectly Object is awaiting a holding object.
	pending	3	Pending Object is awaiting a later operation.
	active	4	Active Object has been confirmed, if it was originally holding.
	completed	5	Completed A pending object has been completed.
	rejected	6	Rejected Object has been rejected.
	business_completed	7	Business Completed Realtime events done. This value is logically between Active and Completed.
	delivered	8	Delivered Object has been completed due to delivery.
rectified	9	Rectified	

<b>name</b>	<b>value</b>	<b>description</b>
deleted	10	Deleted
pending_rectify	11	Pending Rectify
expired	12	Expired
pending_authorize	13	Pending Authorize
delete_holding	14	Delete Holding Object is holding for delete and awaits countersign.

state_i (State, Product)																	
Datatype	INT32_T																
Description	Defines the system state of the product.																
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>None</td> </tr> <tr> <td>1</td> <td>Business</td> </tr> <tr> <td>2</td> <td>Close of Business</td> </tr> <tr> <td>3</td> <td>After Business</td> </tr> <tr> <td>4</td> <td>Next Business Day</td> </tr> <tr> <td>5</td> <td>Deleted</td> </tr> <tr> <td>6</td> <td>Repair</td> </tr> </tbody> </table>	<b>value</b>	<b>description</b>	0	None	1	Business	2	Close of Business	3	After Business	4	Next Business Day	5	Deleted	6	Repair
<b>value</b>	<b>description</b>																
0	None																
1	Business																
2	Close of Business																
3	After Business																
4	Next Business Day																
5	Deleted																
6	Repair																

state_level_e (Level)															
Datatype	UINT16_T														
Description	Indicates the level which a state applies to:														
Value Set	<table border="1"> <thead> <tr> <th><b>value</b></th> <th><b>description</b></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>All_Levels</td> </tr> <tr> <td>1</td> <td>Market</td> </tr> <tr> <td>2</td> <td>Instrument_Type</td> </tr> <tr> <td>3</td> <td>Instrument_Class</td> </tr> <tr> <td>4</td> <td>Instrument_Series</td> </tr> <tr> <td>5</td> <td>Underlying</td> </tr> </tbody> </table>	<b>value</b>	<b>description</b>	0	All_Levels	1	Market	2	Instrument_Type	3	Instrument_Class	4	Instrument_Series	5	Underlying
<b>value</b>	<b>description</b>														
0	All_Levels														
1	Market														
2	Instrument_Type														
3	Instrument_Class														
4	Instrument_Series														
5	Underlying														

state_number_n (Trading State Number)	
Datatype	UINT16_T
Description	The binary representation of the Trading State or Instrument Session State. Available values can be fetched by means of the Query Trading State. Value 0 is distributed when an Instrument Session State ends.

<b>step_size_i (Tick Size)</b>											
Datatype	INT32_T										
Description	The tick size is the minimum valid step in the Premium or Price.										
<b>step_size_multiple_n (Tick Size, Multiple)</b>											
Datatype	UINT16_T										
Description	Tick size multiple is used to calculate the tick size for the instrument. The tick size itself is distributed in the instrument class. If the same tick size is used for all expirations, the value in this field will be 1 for all instruments.										
<b>stock_code_s (Stock Code)</b>											
Datatype	char[6]										
Description	Not applicable.										
<b>stopped_by_issue_c (Stopped By Issue)</b>											
Datatype	UINT8_T										
Description	The series is stopped from trading depending on an issue.										
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>	name	value	Yes	1	No	2				
name	value										
Yes	1										
No	2										
<b>strike_price_format_c (Strike Price, Format)</b>											
Datatype	UINT8_T										
Description	Not applicable.										
<b>strike_price_i (Strike Price)</b>											
Datatype	INT32_T										
Description	The Strike Price is a part of the binary Series for options. If the Strike Price is equal to zero, it implies that the Strike Price is not applicable. This is always an integer. The implicit number of decimals is given in the decimals, strike price field.										
<b>strike_price_modifier_c (Modifier, Strike Price)</b>											
Datatype	UINT8_T										
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.										
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> <tr> <td>2</td> <td>Modifier is subtracted from the item</td> </tr> <tr> <td>3</td> <td>Modifier is multiplied with the item</td> </tr> <tr> <td>4</td> <td>The item is divided by the modifier factor</td> </tr> </tbody> </table>	value	description	1	Modifier is added to the item	2	Modifier is subtracted from the item	3	Modifier is multiplied with the item	4	The item is divided by the modifier factor
value	description										
1	Modifier is added to the item										
2	Modifier is subtracted from the item										
3	Modifier is multiplied with the item										
4	The item is divided by the modifier factor										
<b>strike_price_mod_factor_i (Modifier Factor, Strike Price)</b>											
Datatype	INT32_T										

Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals.															
subscription_price_i (Subscription, Price)																
Datatype	INT32_T															
Description	Not applicable.															
sub_fix_income_type_s (Sub Fixed Income Type)																
Datatype	char[32]															
Description	Defines any additional categorization of the Underlying, e.g. Callable or Putable.															
summary_i (Summary)																
Datatype	INT32_T															
Description	Defines whether or not to aggregate positions by the account level selected.															
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No								
value	description															
1	Yes															
2	No															
suspended_c (Suspended)																
Datatype	UINT8_T															
Description	Defines if the series is suspended or not.															
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No								
value	description															
1	Yes															
2	No															
swap_style_c (Style, Swap)																
Datatype	UINT8_T															
Description	Defines if this an Instrument Group where corresponding Instrument Series are swap styled.															
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> <tr> <td>1</td> <td>Fixed-Fixed</td> </tr> <tr> <td>2</td> <td>Fixed-Float</td> </tr> <tr> <td>3</td> <td>Float-Float</td> </tr> <tr> <td>4</td> <td>TOM next</td> </tr> <tr> <td>5</td> <td>Generic</td> </tr> </tbody> </table>		value	description	0	Not applicable	1	Fixed-Fixed	2	Fixed-Float	3	Float-Float	4	TOM next	5	Generic
value	description															
0	Not applicable															
1	Fixed-Fixed															
2	Fixed-Float															
3	Float-Float															
4	TOM next															
5	Generic															
synthetic_type_c (Type, Synthetic)																
Datatype	UINT8_T															
Description	Not Applicable.															

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Not applicable</td> </tr> </tbody> </table>	value	description	0	Not applicable		
value	description						
0	Not applicable						
<b>tailor_made_c (Tailor Made)</b>							
Datatype	UINT8_T						
Description	Is the instrument group used for tailor made created series:						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
<b>term_code_s (TERM_CODE_S)</b>							
Datatype	char[12]						
Description	Term Code desc. for REPO instruments						
<b>text_buffer_s (Text, Buffer)</b>							
Datatype	char[50000]						
Description	The text buffer contains text records with an uint16 followed by the text line. The records are word aligned in the text buffer.						
<b>text_id (TEXT_ID)</b>							
Datatype	char[12]						
Description	Intermediate field.						
<b>text_line (TEXT_LINE)</b>							
Datatype	char[80]						
Description	intermediate field.						
<b>text_line_s (Text, Line)</b>							
Datatype	char[80]						
Description	One line of text information.						
<b>time_delivery_start_s (Time, Delivery Start)</b>							
Datatype	char[6]						
Description	Delivery start time. Format: HHMMSS.						
<b>time_delivery_stop_s (Time, Delivery Stop)</b>							
Datatype	char[6]						
Description	Delivery stop time. Format: HHMMSS.						
<b>time_first_trading_s (Time, First Trading)</b>							
Datatype	char[6]						
Description	The first valid trading time of the series. The time is together with DATE, FIRST TRADING distributed as UTC. Time in ASCII, format is HHMMSS.						
<b>time_last_trading_s (Time, Last Trading)</b>							



Datatype	char[6]													
Description	The last valid trading time of the series. The time is together with DATE, LAST TRADING distributed as UTC. Time in ASCII, format is HHMMSS.													
time_of_agree_gran_c (Time of agreement granularity)														
Datatype	UINT8_T													
Description	Specifies if the time of agreement contains date or both date and time.													
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Not applicable</td> <td>0</td> </tr> <tr> <td>Date</td> <td>1</td> </tr> <tr> <td>Date and Time</td> <td>2</td> </tr> </tbody> </table>		name	value	Not applicable	0	Date	1	Date and Time	2				
name	value													
Not applicable	0													
Date	1													
Date and Time	2													
time_of_agree_req_c (Time of agreement required)														
Datatype	UINT8_T													
Description	Specifies how time of agreement is specified and validated in the trade report.													
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Not required</td> <td>0</td> </tr> <tr> <td>On first reported</td> <td>1</td> </tr> <tr> <td>On both sides - not matched</td> <td>2</td> </tr> <tr> <td>On both sides - must match</td> <td>3</td> </tr> <tr> <td>On both sides - must match on date</td> <td>4</td> </tr> </tbody> </table>		name	value	Not required	0	On first reported	1	On both sides - not matched	2	On both sides - must match	3	On both sides - must match on date	4
name	value													
Not required	0													
On first reported	1													
On both sides - not matched	2													
On both sides - must match	3													
On both sides - must match on date	4													
tm_series_c (Tailor Made Series)														
Datatype	UINT8_T													
Description	Not applicable.													
tm_template_c (Template Series)														
Datatype	UINT8_T													
Description	Defines if this a template series.													
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		name	value	Yes	1	No	2						
name	value													
Yes	1													
No	2													
total_ex_day_i (TOTAL_EX_DAY_I)														
Datatype	INT32_T													
Description	Totally exercised in the day													
total_held_q (Held, Total)														
Datatype	INT64_T													

Description	The total number of held in position, i.e. including any trades for the following clearing date.							
total_written_q (Written Total)								
Datatype	INT64_T							
Description	The total number of written in position, i.e. including any trades for the following clearing date.							
to_date_s (Date, To)								
Datatype	char[8]							
Description	To date. Format: YYYYMMDD.							
to_time_s (Time, To)								
Datatype	char[6]							
Description	Defines the to time. Format: HHMMSS.							
traded_c (Traded)								
Datatype	UINT8_T							
Description	Defines if the instrument is a tradable instrument or not.							
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		name	value	Yes	1	No	2
name	value							
Yes	1							
No	2							
traded_in_click_c (Traded in GENIUM)								
Datatype	UINT8_T							
Description	Specifies whether the series is traded in the system or not.							
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No
value	description							
1	Yes							
2	No							
tradenumber (TRADENUMBER)								
Datatype	INT32_T							
Description	intermediate field.							
trades_allowed_c (Trades, Allowed)								
Datatype	UINT8_T							
Description	Is it allowed to store trades on the account							
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>1</td> </tr> <tr> <td>No</td> <td>2</td> </tr> </tbody> </table>		name	value	Yes	1	No	2
name	value							
Yes	1							
No	2							
trade_number_i (Trade Number)								
Datatype	INT32_T							

Description	An increasing sequence number assigned to each trade. Trade number is unique within Instrument type											
trade_quantity_i (Quantity, Trade)												
Datatype	INT64_T											
Description	Define the number of contracts in the trade.											
trade_reporting_only_c (Only trade reports allowed)												
Datatype	UINT8_T											
Description	Specifies whether the series only allows trade reporting.											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>		value	description	1	Yes	2	No				
value	description											
1	Yes											
2	No											
trade_rep_code_n (Trade Report Code)												
Datatype	UINT16_T											
Description	Defines the trade report type.											
trade_state_c (Trade, State)												
Datatype	UINT8_T											
Description	In what state is the trade?											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Active. The trade is active.</td> </tr> <tr> <td>2</td> <td>Rectified. The trade has been rectified.</td> </tr> <tr> <td>3</td> <td>Deleted. The trade has been deleted.</td> </tr> <tr> <td>4</td> <td>Transferred. The trade has been transferred.</td> </tr> </tbody> </table>		value	description	1	Active. The trade is active.	2	Rectified. The trade has been rectified.	3	Deleted. The trade has been deleted.	4	Transferred. The trade has been transferred.
value	description											
1	Active. The trade is active.											
2	Rectified. The trade has been rectified.											
3	Deleted. The trade has been deleted.											
4	Transferred. The trade has been transferred.											
trade_type_c (Type, Trade)												
Datatype	UINT8_T											
Description	What type of trade is it?											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Standard The trade is a normally registered trade.</td> </tr> <tr> <td>2</td> <td>Transitory Transitory. The trade is placed on a transitory account.</td> </tr> <tr> <td>3</td> <td>Overtaking Overtaking. The trade is a result of a rectify operation.</td> </tr> <tr> <td>4</td> <td>Reversing Reversing. The trade is a result of a rectify operation.</td> </tr> </tbody> </table>		value	description	1	Standard The trade is a normally registered trade.	2	Transitory Transitory. The trade is placed on a transitory account.	3	Overtaking Overtaking. The trade is a result of a rectify operation.	4	Reversing Reversing. The trade is a result of a rectify operation.
value	description											
1	Standard The trade is a normally registered trade.											
2	Transitory Transitory. The trade is placed on a transitory account.											
3	Overtaking Overtaking. The trade is a result of a rectify operation.											
4	Reversing Reversing. The trade is a result of a rectify operation.											

value	description
5	Transfer Transfer. The trade is a result of a transfer from a daily account
6	Exercise Exercise. The trade is an exercising part in an exercise operation
7	Assign Assign. The trade is an assign part in an exercise operation.
8	Closing Closing. The trade is a result of a closing series operation.
9	Issue
10	New_contract New_contract. The trade is a result where delivery is new contract
11	Delivery
12	Dummy_trade
13	Alias
14	Offsetting
15	Superseding
16	State_change
17	Give_up
18	Take_up

trade_venue_c (Trade venue)	
Datatype	UINT8_T
Description	Defines the Trade venue, i.e from where the trade emanates.

transaction_number_n (Transaction Type Number)	
Datatype	UINT16_T
Description	A number used to distinguish between different transactions to the same central subsystem.

transitory_c (Transitory)							
Datatype	UINT8_T						
Description	Is the account a transitory account?						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						

tra_cl_next_day_c (Cleared Next Day)	
--------------------------------------	--

Datatype	CHAR								
Description	Indicates whether the clearing date has been switched over to next clearing date or not for the instrument type.								
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Yes</td> </tr> <tr> <td>N</td> <td>No</td> </tr> </tbody> </table>	value	description	Y	Yes	N	No		
value	description								
Y	Yes								
N	No								
trc_id_s (Trade Report Class)									
Datatype	char[10]								
Description	The ID string for a trade report class. The trade report class contains a list of Trade Report Types.								
trd_cur_unit_c (Traded Currency Unit)									
Datatype	UINT8_T								
Description	Specifies the currency unit the instrument is traded in.								
Value Set	<table border="1"> <thead> <tr> <th>name</th> <th>value</th> </tr> </thead> <tbody> <tr> <td>Primary Unit</td> <td>1</td> </tr> <tr> <td>Secondary Unit</td> <td>2</td> </tr> <tr> <td>Tertiary Unit</td> <td>3</td> </tr> </tbody> </table>	name	value	Primary Unit	1	Secondary Unit	2	Tertiary Unit	3
name	value								
Primary Unit	1								
Secondary Unit	2								
Tertiary Unit	3								
trr_id_s (Trade Report, Identity)									
Datatype	char[4]								
Description	The ID string for a trade report type.								
tv_nsec (Time in nanoseconds)									
Datatype	INT32_T								
Description	Elapsed time since the time in tv_sec, expressed in nanoseconds.								
tv_sec (Time in seconds)									
Datatype	UINT32_T								
Description	Elapsed time in seconds since the Epoch (1970-01-01 00:00:00 UTC).								
tz_exchange_s (Time Zone, Exchange)									
Datatype	char[40]								
Description	The time zone environment variable for the exchange. (POSIX standard) e.g. MET-1MET_DST-2,M3.5.0/2,M10.5.0/3								
tz_variable_s (TZ-Variable)									
Datatype	char[40]								
Description	The TZ environment variable for the exchange (POSIX standard). e.g. MET-1MET_DST-2,M3.5.0/2,M10.5.0/3								
underlying_issuer_s (Underlying Issuer)									

Datatype	char[6]																											
Description	Defines the issuer of the underlying.																											
underlying_status_c (Underlying Status)																												
Datatype	UINT8_T																											
Description	Define the status of the underlying.																											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Active</td> </tr> <tr> <td>2</td> <td>Delisted</td> </tr> </tbody> </table>		value	description	1	Active	2	Delisted																				
value	description																											
1	Active																											
2	Delisted																											
underlying_type_c (Type, Underlying)																												
Datatype	UINT8_T																											
Description	What type of underlying is it?																											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Stock</td> </tr> <tr> <td>2</td> <td>Currency</td> </tr> <tr> <td>3</td> <td>Interest rate</td> </tr> <tr> <td>4</td> <td>Energy</td> </tr> <tr> <td>5</td> <td>Soft and Agrics</td> </tr> <tr> <td>6</td> <td>Metal</td> </tr> <tr> <td>7</td> <td>Stock Index</td> </tr> <tr> <td>8</td> <td>Currency Index</td> </tr> <tr> <td>9</td> <td>Interest Rate Index</td> </tr> <tr> <td>10</td> <td>Energy Index</td> </tr> <tr> <td>11</td> <td>Softs and Agrics Index</td> </tr> <tr> <td>12</td> <td>Metal Index</td> </tr> </tbody> </table>		value	description	1	Stock	2	Currency	3	Interest rate	4	Energy	5	Soft and Agrics	6	Metal	7	Stock Index	8	Currency Index	9	Interest Rate Index	10	Energy Index	11	Softs and Agrics Index	12	Metal Index
value	description																											
1	Stock																											
2	Currency																											
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5	Soft and Agrics																											
6	Metal																											
7	Stock Index																											
8	Currency Index																											
9	Interest Rate Index																											
10	Energy Index																											
11	Softs and Agrics Index																											
12	Metal Index																											
undisclosed_min_ord_val_i (Minimum Order Value, Undisclosed Quantity)																												
Datatype	INT32_T																											
Description	<p>Minimum order value for undisclosed quantity orders.</p> <p>The value is always expressed in the primary currency unit.</p> <p>The value is defined as quantity*price*price quotation factor.</p>																											
und_price_modifier_c (Modifier, Underlying Price)																												
Datatype	UINT8_T																											
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 3 implicit decimals.																											
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Modifier is added to the item</td> </tr> </tbody> </table>		value	description	1	Modifier is added to the item																						
value	description																											
1	Modifier is added to the item																											

	<b>value</b>	<b>description</b>
	2	Modifier is subtracted from the item
	3	Modifier is multiplied with the item
	4	The item is divided by the modifier factor
<b>und_price_mod_factor_i (Modifier Factor, Underlying Price)</b>		
Datatype	INT32_T	
Description	The modifier is used to recalculate the item after an underlying adjustment. The field is stored with 7 implicit decimals	
<b>upper_limit_i (Premium/Price, High Limit)</b>		
Datatype	INT32_T	
Description	The upper limit in the price interval.	
<b>user_code_s (User Code)</b>		
Datatype	char[12]	
Description	Defines a unique user in the system.	
<b>user_id_s (User)</b>		
Datatype	char[5]	
Description	Defines the user signature.	
<b>usr_id_n (User, Number)</b>		
Datatype	UINT16_T	
Description	A unique number that identified the user, used when subscribing for directed broadcast information.	
<b>utc_date_s (UTC, Date)</b>		
Datatype	char[8]	
Description	UTC date, format: YYYYMMDD.	
<b>utc_offset_i (UTC, Offset)</b>		
Datatype	INT32_T	
Description	Current offset between UTC and the local time specified in the TZ-variable.	
<b>utc_time_s (UTC, Time)</b>		
Datatype	char[6]	
Description	UTC time, format: HHMMSS.	
<b>vag_id_s (VAG, Identity)</b>		
Datatype	char[12]	
Description	Collateral valuation group ID	
<b>virtual_c (Virtual)</b>		
Datatype	UINT8_T	
Description	Is the underlying a virtual underlying?	

Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
virt_commodity_n (Virtual Underlying)							
Datatype	UINT16_T						
Description	<p>When distributing broadcasts classified with information type "Instrument Class", a virtual underlying can be used to group a number of instrument classes together. The virtual underlying is used in these broadcast subscriptions.</p> <p>If zero, no virtual underlying is used but the real underlying code is used in broadcast subscriptions.</p>						
warning_msg_s (Warning Message)							
Datatype	char[80]						
Description	This is a warning message that will be shown at a trading state change.						
warrant_c (Warrant)							
Datatype	UINT8_T						
Description	If the instrument is a warrant:						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Yes</td> </tr> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	1	Yes	2	No
value	description						
1	Yes						
2	No						
when_issued_c (When Issued)							
Datatype	UINT8_T						
Description	Not applicable.						
Value Set	<table border="1"> <thead> <tr> <th>value</th> <th>description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>No</td> </tr> </tbody> </table>	value	description	2	No		
value	description						
2	No						
yield_conv_n (Yield Convention)							
Datatype	UINT16_T						
Description	Yield Convention Number of month						
yyyymmdd (YYYYMMDD)							
Datatype	char[8]						
Description	Intermediate field for date in YYYYMMDD format.						
yyyymmdd_s (Date)							
Datatype	char[8]						
Description	Date in ASCII. Format: YYYYMMDD						



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