

# DEMATERIALIZED SECURITIES SYSTEM APPLICATION PROGRAMMING INTERFACE

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*Technical Specifications*

*Volume 1*

*21/10/2015*

## REVISION LIST

Ver.	Paragraph	Revision Information - Reason for Change
1		1 <sup>st</sup> version
1.0.1	4.3	Removal of tag <b>ValidityStatus</b> from the message depicted in <b>Figure 2</b> . The tag is not needed and not described in the specifications of the depicted service
	7.1.1.1, 7.1.2.1, 7.1.2.2, 7.2.1.1, 7.2.2.1, 7.4.1.1, 7.4.2.1, 7.5.1.1, 7.5.2.1	Renaming of field TradingCodeInSecuritiesVenue to <b>InvestorCodeInTradingVenue</b> to match the respective XSD tag name.
	7.3.2.1	Addition of type specifier for tag <b>RequestId</b> .
	7.11.1.1.1, 7.11.1.2.1, 7.11.2.1.1, 7.11.2.2.1, 7.11.3.1.1, 7.11.3.2.1, 7.11.4.1.1, 7.11.4.2.1	Addition of remarks in column " <b>Applicable Values</b> " for tag <b>OutputFormat</b>
	7.11.3.2.1	Type specifier for tag <b>RequestId</b> amended from <b>Numeric10x</b> to <b>Alphanumeric15x</b> .
	7.11.1.1.3	Addition of row with element <b>Query0008Result</b> in the specifications table
	7.11.2.1.3	Addition of row with element <b>Query0013Result</b> in the specifications table
	7.11.3.1.3	Addition of row with element <b>Query0010Result</b> in the specifications table
	7.11.4.1.3	Addition of row with element <b>Query0009Result</b> in the specifications table
	7.11.1.1.3	Tag <b>RelievedFromBondTaxes</b> renamed to <b>TaxEligible</b> in the specifications table
1.0.2	7	Add description of <b>GeneralErrorMessage</b> usage.
	Appendix III	Add description of <b>GeneralErrorMessage</b> elements.
1.0.3	6.5	Addition of new paragraph <b>DSSRequest Service attribute</b>
1.0.3	7.1.1.1	Type amendment for element <b>RegistrationApplicationId</b> . Type changed from <b>Alphanumeric15x</b> to <b>Numeric15x</b> .
		Change of indication <b>DOES NOT EXIST</b> to <b>NOT EXISTING</b> for element <b>TIN</b>
		Addition of indication <b>NOT EXISTING</b> for elements <b>TaxationDepartment</b> , <b>Identification→Code</b> , <b>Identification→IssuingAuthority</b>

Ver.	Paragraph	Revision Information - Reason for Change
1.0.3	7.1.2.1	Type amendment for element <b>RegistrationApplicationId</b> . Type changed from <b>Alphanumeric15x</b> to <b>Numeric15x</b> .  Change of indication <b>DOES NOT EXIST</b> to <b>NOT EXISTING</b> for element <b>TIN</b>  Addition of indication <b>NOT EXISTING</b> for elements <b>TaxationDepartment</b> , <b>IDCertificateCode</b> , <b>IDCertificateIssuingAuthority</b>
1.0.3	7.1.2.2	Type amendment for element <b>RegistrationApplicationId</b> . Type changed from <b>Alphanumeric 15x</b> to <b>Numeric 15x</b> .  Change of indication <b>DOES NOT EXIST</b> to <b>NOT EXISTING</b> for element <b>TIN</b>  Addition of indication <b>NOT EXISTING</b> for elements <b>TaxationDepartment</b> , <b>IDCertificateCode</b> , <b>IDCertificateIssuingAuthority</b>
1.0.3	7.2.1.1	Type amendment for element <b>RegistrationApplicationId</b> . Type changed from <b>Alphanumeric15x</b> to <b>Numeric15x</b> .  Placement of elements <b>NumberOfOwners</b> and <b>OwnershipRank</b> in specific place inside the message specifications so as to reflect the current XSD specifications version
1.0.3	7.2.2.1	Type amendment for element <b>RegistrationApplicationId</b> . Type changed from <b>Alphanumeric15x</b> to <b>Numeric15x</b> .
1.0.3	7.3.1.2	Addition of element <b>NumberOfOwners</b> inside element <b>Shared</b> to align with current XSD version
1.0.3	7.4.1.1	Corrected type of element <b>InvestorCodeInTradingVenue</b> from <b>Alphanumeric15x</b> to <b>Alphanumeric12x</b> , as is declared in the respective XSDs
1.0.3	7.4.1.2	Indicator value change in column <b>Mandatory</b> for element <b>InvestorCode</b> , to align with current XSD version
1.0.3	7.4.2.1 7.5.1.1 7.5.2.1	Corrected type of element <b>InvestorCodeInTradingVenue</b> from <b>Alphanumeric15x</b> to <b>Alphanumeric12x</b> , as is declared in the respective XSDs
1.0.3	7.6.1.1	Value change in column <b>Mandatory</b> for elements <b>ISIN</b> , <b>Quantity</b> from <b>Y</b> to <b>Y/N</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType</b> , <b>ISIN</b> , <b>Quantity</b> , <b>TransferReason</b> .  Elimination of element <b>CashProceedsViaParticipant</b> .

Ver.	Paragraph	Revision Information - Reason for Change
1.0.3	7.6.2.1	Value change in column <b>Mandatory</b> for elements <b>ISIN , Quantity</b> from <b>Y</b> to <b>Y/N</b> and for element <b>TransferApplicationId</b> from <b>N</b> to <b>Y</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN , Quantity, TransferApplicationId, TransferReason.</b>  Elimination of element <b>CashProceedsViaParticipant.</b>
1.0.3	7.6.2.2	Value change in column <b>Mandatory</b> for elements <b>TransferApplicationId</b> from <b>N</b> to <b>Y</b>
1.0.3	7.7.1.1	Value change in column <b>Mandatory</b> for elements <b>ISIN , Quantity</b> from <b>Y</b> to <b>Y/N</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN , Quantity, TransferReason.</b>
1.0.3	7.7.1.2	Value change in column <b>Mandatory</b> for element <b>DSSProvidedTransferId</b> from <b>Y</b> to <b>N</b>
1.0.3	7.7.2.1	Value change in column <b>Mandatory</b> for elements <b>ISIN , Quantity</b> from <b>Y</b> to <b>Y/N</b> and for elements <b>TransactionType, TransferApplicationId</b> from <b>N</b> to <b>Y</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN, Quantity, TransferReason.</b>
1.0.3	7.7.2.2	Value change in column <b>Mandatory</b> for elements <b>DSSProvidedTransferId, DSSProvidedTransactionId</b> from <b>Y</b> to <b>N</b>
1.0.3	7.8.1.1	Value change in column <b>Mandatory</b> for elements <b>ISIN , Quantity</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN, Quantity, TransferReason.</b>
1.0.3	7.8.1.2	Value assignment in column <b>Mandatory</b> for elements <b>TransferRequestDate, DSSProvidedTransferId, DSSProvidedTransactionId, ErrorDescription</b>
1.0.3	7.8.2.1	Value change in column <b>Mandatory</b> for elements <b>ISIN, Quantity</b> from <b>Y</b> to <b>Y/N</b> and for elements <b>TransactionType, TransferApplicationId</b> from <b>N</b> to <b>Y</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN, Quantity, TransferReason.</b>
1.0.3	7.8.2.2	Value change in column <b>Mandatory</b> for elements <b>DSSProvidedTransferId, DSSProvidedTransactionId</b> from <b>Y</b> to <b>N</b>
1.0.3	7.9.1.2	<b>Description</b> amendment and value assignment in column <b>Mandatory</b> for element <b>CancellationRequestDate</b>  Value assignment in column <b>Mandatory</b> for element <b>ErrorDescription</b>

Ver.	Paragraph	Revision Information - Reason for Change
1.0.3	7.10.1.1	Value change in column <b>Mandatory</b> for elements <b>ISIN, Quantity</b> from <b>Y</b> to <b>Y/N</b> and for element <b>LegalDocument</b> from <b>Y</b> to <b>N</b>  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN, Quantity, TransferReason</b> .
1.0.3	7.10.1.2	Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for elements <b>TransferDate, TransferApplicationId</b> .
1.0.3	7.10.2.1	Value change in column <b>Mandatory</b> for elements <b>ISIN, Quantity</b> from <b>Y</b> to <b>Y/N</b> , for element <b>LegalDocument</b> from <b>Y</b> to <b>N</b> and for elements <b>TransactionType, TransferApplicationId</b> from <b>N</b> to <b>Y</b> .  Amendments at column <b>Applicable Values</b> for elements <b>TransactionType, ISIN, Quantity, TransferReason</b> .
1.0.3	7.10.2.2	Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for element <b>TransferApplicationId</b> .
1.0.3	7.11.5	Addition of paragraph <b>Responses of the Query service</b>
1.0.3	10	Addition of error codes <b>CSD-01085, CSD-04010, CSD-04017, CSD-04018, CSD-04025, CSD-04026, CSD-04032, CSD-04046, CSD-04052, CSD-08002, CSD-08003, CSD-08004, CSD-08005, CSD-08006, CSD-08007</b>
1.0.4	7.1.1.1	Value change in column <b>Mandatory</b> from <b>Y</b> to <b>N</b> for elements <b>RegisterInvestorRequest→Investor→Organization→OrganizationNameAbbreviation, RegisterInvestorRequest→ContactAddress →MailRecipient</b>  Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for elements <b>RegisterInvestorRequest→Investor→Individual→FatherName, RegisterInvestorRequest→Investor→Organization→OrganizationType., RegisterInvestorRequest→Investor→Organization→Domicile, RegisterInvestorRequest→Investor→Organization→ContactName, RegisterInvestorRequest→TIN, RegisterInvestorRequest→TaxationDepartment, RegisterInvestorRequest→TaxationCountry, RegisterInvestorRequest→Citizenship, RegisterInvestorRequest→RelievedFromBondTaxes, RegisterInvestorRequest→CashProceedsViaParticipant</b>  Correction of size from 20 to 25 in column <b>Applicable Values</b> for element <b>RegisterInvestorRequest →Identification→ Code</b>  Addition of elements <b>RegisterInvestorRequest →StatsCatIncorporationCountry, RegisterInvestorRequest →StatsCatMainCategory, RegisterInvestorRequest →StatsCatSubcategory</b>

Ver.	Paragraph	Revision Information - Reason for Change
1.0.4	7.1.2.1	<p>Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for elements <b>Name, FatherName, TIN, TaxationDepartment, TaxationCountry, Citizenship, CashProceedsViaParticipant, RelievedFromBondTaxes</b></p> <p>Correction of size from <b>20</b> to <b>25</b> in column <b>Applicable Values</b> for element <b>IDCertificateCode</b></p> <p>Addition of elements : <b>StatsCatIncorporationCountry, StatsCatMainCategory, StatsCatSubcategory</b></p>
1.0.4	7.1.2.2	<p>Value change in column <b>Mandatory</b> from <b>Y</b> to <b>N</b> for elements <b>OrganizationNameAbbreviation , ContactAddressMailRecipient.</b></p> <p>Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for elements <b>TIN, TaxationDepartment, TaxationCountry, OrganizationType, Domicile, ContactName, Citizenship, CashProceedsViaParticipant, RelievedFromBondTaxes</b></p> <p>Correction of size from <b>20</b> to <b>25</b> in column <b>Applicable Values</b> for element <b>IDCertificateCode</b></p> <p>Addition of elements <b>StatsCatIncorporationCountry, StatsCatMainCategory, StatsCatSubcategory</b></p>
1.0.4	7.2.1.1	<p>Value change in column <b>Mandatory</b> from <b>Y</b> to <b>N</b> for elements <b>RegisterCoownershipRequest→ContactAddress →MailRecipient,</b></p> <p>Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for elements <b>RegisterCoownershipRequest→GroupName</b></p> <p>RegisterCoownershipRequest→CashProceedsViaParticipant</p> <p>Addition of elements <b>StatsCatMainCategory, StatsCatSubcategory</b></p>
1.0.4	7.2.2.1	<p>Value change in column <b>Mandatory</b> from <b>Y</b> to <b>N</b> for element <b>ContactAddressMailRecipient</b></p> <p>Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for element <b>CashProceedsViaParticipant</b></p> <p>Addition of elements <b>StatsCatMainCategory, StatsCatSubcategory</b></p> <p>Change of values in column Positions for elements following the newly added elements <b>StatsCatMainCategory, StatsCatSubcategory</b></p>
1.0.4	7.4.1.1	Update in column <b>Applicable Values</b> for element <b>SafekeepingAccountUsageOperatorAuthorizationRequest→CashProceedsViaParticipant</b>
1.0.4	7.4.2.1	Update in column <b>Applicable Values</b> for element <b>CashProceedsViaParticipant</b>
1.0.4	7.5.1.1	Update in column <b>Applicable Values</b> for element <b>SafekeepingAccountUsageOperatorDeauthorizationRequest→CashProceedsViaParticipant</b>
1.0.4	7.5.2.1	Update in column <b>Applicable Values</b> for element <b>CashProceedsViaParticipant</b>
1.0.5	7.1.1.1, 7.1.2.1	Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for element <b>DateOfBirth</b>

Ver.	Paragraph	Revision Information - Reason for Change
1.0.5	7.1.1.1, 7.1.2.1, 7.1.2.2, 7.2.1.1, 7.2.2.1	Value change in column <b>Mandatory</b> from <b>N</b> to <b>Y</b> for element <b>StatsCatMainCategory</b>
1.0.5	7.2.2	Further explanations on how investor codes are aligned in a request message for registering a common share.
1.0.5	7.2.2.1	Correction of value in column Applicable Values for element ServiceCode: <b>0001</b> changed to <b>0014</b>
1.0.5	7.2.2.2	Correction of value in column Applicable Values for element ServiceCode: <b>0001</b> changed to <b>0014</b>
1.0.6	5	Addition of bullets for the new services
1.0.6	6.5	Addition of references to the new services in the service list
1.0.6	7.1.1.1	Addition of value <b>4 = Commercial Registry Number</b> for element <b>RegisterInvestorRequest→ Identification→ CertificateType</b>
1.0.6	7.1.2.2	Addition of value <b>4 = Commercial Registry Number</b> for element <b>IDCertificateType</b>
1.0.6	7.2.1.1	Repositioning of element <b>GroupName</b> according to the existing XSD  Type amendment for element <b>OwnershipPercentage</b> from <b>Alphanumeric</b> to <b>Numeric</b>  Removal of element <b>TaxationCountry</b>
1.0.6	7.2.2.1	Removal of element <b>TaxationCountry</b> and subsequent field repositioning
1.0.6	7.3.1.2, 7.3.2.2	Type amendment for element <b>OwnershipPercentage</b> from <b>Alphanumeric</b> to <b>Numeric</b>
1.0.6	7.9	Text addition
1.0.6	7.11, 7.12, 7.13, 7.14, 7.15	Addition of the whole paragraph
1.0.6	7.16.1.1.3	Addition of value 4 = Commercial Registry Number for element QueryResult <b>→Query0008Result →Line →IDCertificateType</b>
1.0.6	7.16.5	Addition of the whole paragraph
<u>1.0.7</u>	<u>7.16</u>	<u>Addition of the whole paragraph</u>

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## 1 Introduction

This document provides the information needed to implement the interconnection between a third-party system and HELEX's **clearing, settlement and registration systems**, which will hereinafter be referred to collectively as the **Dematerialized Securities System (DSS)**, by using the new Application Programming Interface offered by HELEX.

The text is aimed at **programmers-analysts** who will be called upon to implement such an interface. Prerequisites are knowledge of **XML** and **XSD standards** and of the **financial messaging ISO 15022 standard**.

## 2 Acronyms and terms

The following acronyms and terms are used in the text:

<b>ATHEX</b>	The Athens Exchange.
<b>Participant</b>	Every company that participates with one or more roles in the functions of the ATHEX markets during and/or after trading, according to the regulation governing the particular market.
<b>API</b>	Application Programming Interface
<b>DSS</b>	Dematerialized Securities System The set of systems of the IT infrastructure of HELEX that serves amongst other things the functions of <b>Clearing, Settlement and Registry</b> .
<b>Client</b>	The application that is hosted on the premises of the Participant and through which communication between the Participant and API is routed
<b>JIC</b>	Joint Investor Share
<b>CIS</b>	Co-Owners Investor Share

### 3 Communication Architecture

The implementation of the **API** adopts an **asynchronous messaging model**. Practically for each service offered, the user sends a **request message** that contains all the information needed in order to be adequately served by the DSS. Upon receiving the request, the API assigns to it an **internal message ID** which it notifies to the user. At some time after receiving the request and executing the service requested by the client, the API generates one or more **response messages** containing the response information. These messages are associated with the original request message via the internal ID mentioned above.

In the majority of services the request and the response to it are contained, each, in a single message. Additionally, **each answer** sent by the API is **contained in one or more messages of the same type** as the type used for **the request**.

The **exchange of messages** between the API and the respective User takes place **via one or more access points**, each of which is the User's "representative" in the API with specific interconnection characteristics such as the communication channel, the User's address on that channel, etc.. So, in terms of contact with the outside world, the API "knows" only of Access Points and each User can connect to it simultaneously, in different ways.

Possible channels of interconnection with the API in the current implementation are the **ODL Gateway** and the **secure FTP server** of HELEX and on a future release the **SWIFTNet** network. More information is given under [How to connect](#).

The base format of the messages the API receives and processes is based on the **XML** standard. However, for reasons of economy of scale for Participants who have already deployed in their systems a functionality of generating/sending/receiving ISO 15022 (SWIFT FIN) messages, such messages are supported either directly or nested inside XML messages. More details on this feature are given under [Message Types](#).

Besides response messages, the API is able to generate **unsolicited notifications** to Access Points without prior request by their Users. These messages contain information potentially of interest to the User and are created as a result of some "events" that take place during the execution of DSS daily tasks. These messages (**DSS events**) are created and sent to an Access Point, provided that such point has been "registered" as a subscriber to such events.



## 4 Connectivity, message types and transmission modes

### 4.1 How to Connect

There are three ways in which an application can communicate with the DSS through the API:

- By using **calls** offered by a **DLL** file that handles messaging with the DSS through the **ODL Gateway**
- By **message file exchange** through file transfer via the **secure FTP server** of HELEX
- Via **SWIFTNet** (only for **ISO 15022** messages). This feature will be available on a future release of the API

### 4.2 Message Types

Two types of messages are supported:

- XML messages
- ISO 15022 (SWIFT FIN) messages whose management is provided as a value-added service for Participants already using software generating/sending this type of messages.

In the general case, the API processes and communicates with XML messages whose specifications are provided within this document. ISO 15022 messages are supported either as nested text (**CDATA**) within XML messages or as-is but, in the latter case only if they are sent via the SWIFTNet network or via the secure FTP server.

#### 4.2.1 XML messages

In general, a message represents either a request (forwarded from the Access Point to the API) or a response or part of a response (from the API towards the Access Point). As regards the request, the message carries all of the necessary information for its processing, while a response message may contain the whole or part of the response information, resulting from the processing of the request. In the latter case, the entire response is delivered by sending successive messages containing portions of the response information. The API chooses whether to send one or more messages in response based on the size of the response and the requested service.

In the case of XML messages, they always consist of 2 parts:

- the **Command** part that contains the information necessary to communicate with the API; and
- the **Document** part that carries either the necessary information required for performing a service or its results.

Each XML message sent to the API must obey the **DSSRequest** format while in the general case a response message obeys the **DSSResponse** format. Messages in the **DSSResponse** format inform the User of any outcome of the request, even if it were unsuccessful. Each message from the API, which informs on some "DSS event" will obey the **DSSEvent** format. These general messages contain an abstract element that can be replaced with any of the concrete implementations of the service messages (XML documents or nested ISO 15022 messages), and various parameters associated with the service to which the request relates. In the case of message exchange through the ODL Gateway, two additional messages are utilized to confirm the successful or unsuccessful receipt of **DSSRequest** messages by the API. These messages are **DSSACK** and **DSSNAK**.

The structure and Applicable Values of the fields of the XML documents, as well as of the DSSACK and DSSNAK messages are defined in XSDs accompanying the release of the API. For example, requests and responses for the "Investor registration" are based on XML documents **RegisterInvestorRequest** and **RegisterInvestorResponse** respectively. For the above two documents the XSDs **RegisterInvestorRequest** and **RegisterInvestorResponse** are provided respectively.

Upon receiving a **DSSRequest**, the system assigns to the received message a globally unique ID for that day. In the case of the ODL Gateway, this ID is returned to the sender via the **DSSACK** message. The **DSSResponse** to follow in response to the above message will include, in addition to the response, this internal ID for matching purposes.

#### 4.2.2 ISO 15022 (FIN) Messages

The primary type of messages used for all services is XML. However, to facilitate Participants who already have installed infrastructure generating and/or sending/receiving ISO 15022 (FIN) messages, as mentioned above, HELEX provides support for MT5xx messages so that requests to the system and responses can be sent either as simple XML messages or as ISO 15022 messages. For a set of services the MT599 message is used whereas for another set specific messages established in the ISO 15022 protocol are used.

The ISO 15022 message types supported are: **MT599, MT540, MT541, MT542, MT543, MT544, MT545, MT546, MT547, MT548, MT578**. Each of these messages, depending on the transmission channel, can be exchanged either as nested within an XML message (see [XML Messages](#)) or as-is (see [how to send messages depending on the transmission channel](#)).

Messages **MT540, MT541, MT542, MT543, MT544, MT545, MT546, MT547, MT548, MT578** are intended to facilitate services related to **the settlement of OTC transactions**. The flow of these messages complies with respective flow described in the ISO 15022 (SWIFT) protocol and summarized below, along with the individual messages.

Where messages are nested in an XML message the following apply:

- For each DSS Request XML message containing a MT540-MT543 message, the API finally responds with a DSS Response XML message that contains the corresponding MT548 message.
- MT544 - MT547 messages sent during the settlement, MT548 messages reflecting changes in the status settlement instructions and MT578 messages are all sent (inside DSS Event XML messages) by the API if and only if there is an active subscription to an Access Point of the Participant concerned.

The logic of the direction indicators and the corresponding placement of addresses in ISO 15022 message headers are such as if the API were the Participant's SWIFT receiving "engine". Particularly:

When ISO 15022 messages towards the API are nested in XML messages or in files (case of secure FTP), the direction index indicator (I/O) located in the third place of Block 2 should be set to I. The address of the sender (Participant) should be located in Block 1 as the "transmitting logical terminal" and of the recipient (API BIC address) in Block 2. In response messages originating from the API, the direction indicator will be set to O, while the address of the sender (API BIC address) will be located in Block 2 and that of the recipient (Participant) in Block 1 as the "receiving logical terminal". The BIC address of the API, used for exchanging FIN messages nested in XML messages in the test environment is HCSDGRA0API while for the production environment is HCSDGRAAPI. The BIC address of the Participant for building the logical terminal is the one that has been declared and entered in the DSS for this Participant.

In cases where SWIFTNet is to be used by the Participant, the transmission method between its back-office and its SWIFT infrastructure is expected to remain intact.

XML messages replace the character sequence carriage return-line feed with a line feed (See: <http://www.w3.org/TR/REC-xml/#sec-line-ends>). In cases, nested ISO 15022 messages are used, it is expected that the developer to apply the correct format so that the message will be parsed successfully.

**MT599** messages are used in the provisioning of Registration and Reporting services, described under [Services](#). They are used either as request messages (towards the API) or as response messages (originating from the API) and in both cases they carry information in the form of fixed-length records. Records are placed in the narrative field 79 of this message.

The number of records contained in field 79 depends on the size of the record and the service, but in general MT599 messages contain single records unless otherwise indicated in the specifications. The specifications of the fields of records are provided under [Services](#).

Lastly, it should be noted that in the current implementation, settlement instructions (OTC) are supported only through nested or standalone ISO 15022 messages and no corresponding proprietary XML messages exist.

### 4.3 Message formats and structure per channel

The following table shows the type of messages that can be exchanged with the API depending on the transmission channel.

Transmission channel	XML	ISO 15022 (FIN) Messages
ODL Gateway	✓	✓ (Nested in XML messages)
Secure FTP Server	✓	✓ (either as standalone or nested in XML messages)
SWIFTNet	✗	✓

The general structure of the different message types is described schematically in the following figure. Figures follow with additional examples.

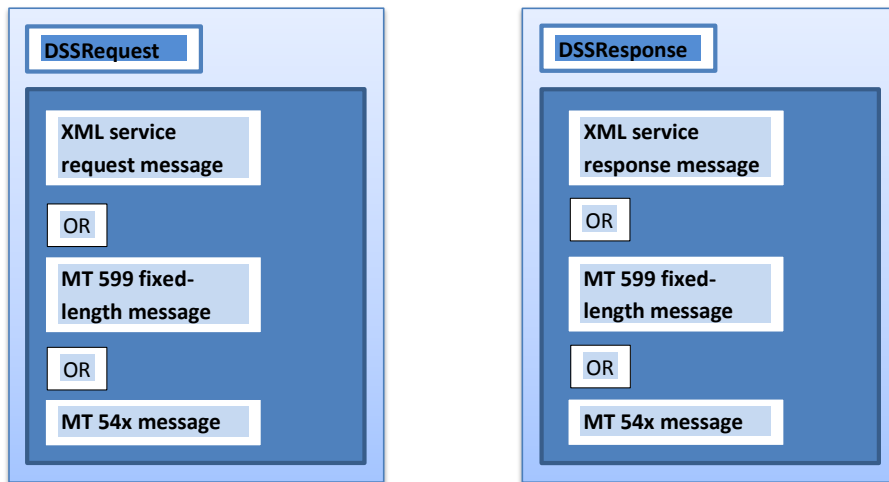


Figure 1 - XML command message structure for requests and responses

```

<?xml version="1.0" encoding="iso-8859-7"?>
<DSSRequest xmlns="http://www.helex.gr/dss/services" Service="query" PayloadFormat="XML">
  <QueryRequest>
    <RequestId>51</RequestId>
    <ParticipantId>0000000101</ParticipantId>
    <QueryType>0008</QueryType>
    <OutputFormat>0</OutputFormat>
    <OutputDestination>0</OutputDestination>
    <QueryCriteria>
      <Query0008Criteria>
        <InvestorCode>0002224134</InvestorCode>
        <SafekeepingAccount>0467732236</SafekeepingAccount>
        <RegistrationDate>%</RegistrationDate>
      </Query0008Criteria>
    </QueryCriteria>
  </QueryRequest>
</DSSRequest>

```

Figure 2 – DSS Request command XML containing a query request document XML

```

<?xml version="1.0" encoding="iso-8859-7"?>
<DSSResponse xmlns="http://www.helex.gr/dss/services" MessageID="393477" Service="query"
  DateCreated="04/04/2013 14:52:31" PayloadFormat="XML">
  <QueryResponse>
    <RequestId>51</RequestId>
    <ParticipantId>0000000101</ParticipantId>
    <ErrorCode>SUCCESS</ErrorCode>
    <ResponseEnvelopeIdentifier>
      qry0008_101_348_20130404020431.lgc
    </ResponseEnvelopeIdentifier>
  </QueryResponse>
</DSSResponse>

```

Figure 3 – DSS Response command XML that includes a query response document XML

Example for the same service using MT599 messages

```
<?xml version="1.0" encoding="iso-8859-7"?>
<DSSRequest xmlns="http://www.helex.gr/dss/services" PayloadFormat="FIN">
  <FIN>
    <![CDATA[{1:F01BBBBBBBXXXX1234123456}{2:I5991052100510HCSDGRAAXAPI00000000010051
01052N}{4:
:20:TESTSEME050c
:21:201304041502
:79:0050      530000000101001000      GRS
320313000
-}]]>
  </FIN>
</DSSRequest>
```

Figure 4 – DSS Request command XML with nested MT599 message

```
<?xml version="1.0" encoding="iso-8859-7"?>
<DSSResponse xmlns="http://www.helex.gr/dss/services" MessageID="393494"
DateCreated="04/04/2013 15:02:51" PayloadFormat="FIN">
  <FIN>
    <![CDATA[{1:F01BBBBBBBXXXX0000100001}{2:O5991502130404HCSDGRAAXAPI00001000011304
041502N}{4:
:20:A201304040024171
:21:TESTSEME050c
:79:12      530000000101SUCCESS      qry001
0_101_350_20130404030451.lgc
-}]]>
  </FIN>
</DSSResponse>
```

Figure 5 – DSS Response command XML with nested MT599 message

```
<?xml version="1.0" encoding="ISO-8859-7"?>
<DSSRequest xmlns="http://www.helex.gr/dss/services" PayloadFormat="FIN">
  <FIN>
    <![CDATA[{1:F01BBBBBBBxBBB0000100001}{2:I541HCSDGRAAXAPIN}{4:
      :16R:GENL
      :20C::SEME//00003
      :23G:NEWM
      :16R:LINK
      :20C::PREV//00001
      :16S:LINK
      :16S:GENL
      :16R:TRADDET
      :94B::TRAD//EXCH/XATH
      :98A::SETT//20130507
      :98A::TRAD//20130502
      :90B::DEAL//ACTU/EUR13,06
      :35B:ISIN GRSRRRRRRRRR
      :16S:TRADDET
      :16R:FIAC
      :36B::SETT//UNIT/3067,
      :97A::SAFE//0000000000
      :16S:FIAC
      :16R:SETDET
      :22F::SETR//TRAD
      :16R:SETPRTY
      :95P::DEAG//RRRRRRRRRRR
      :16S:SETPRTY
      :16R:SETPRTY
      :95P::DECU//YYYYYYYYYYY
      :16S:SETPRTY
      :16R:SETPRTY
      :95P::PSET//HCSDGRAAXXX
      :16S:SETPRTY
      :16R:AMT
      :19A::SETT//EUR40068,79
      :16S:AMT
      :16S:SETDET
    -}]]>
  </FIN>
</DSSRequest>
```

Figure 6 – DSS Request command XML with nested MT541 ISO 15022 message

```

<?xml version="1.0" encoding="ISO-8859-7"?>
<DSSResponse xmlns="http://www.helex.gr/dss/services" MessageID="405710"
DateCreated="5/2/2013 11:57:24 AM" PayloadFormat="FIN">
  <FIN>
    <![CDATA[{1:F01BBBBBBBBB0000100001}
{2:O5481157130502HCSDGRAAXXX00001000011305021157N}{4:
:16R:GENL
:20C::SEME//A201305020024246
:23G:INST
:16R:LINK
:20C::RELA//00003
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRSRRRRRRRRR
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//0000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:98A::SETT//20130507
:98A::TRAD//20130502
:16R:SETPRTY
:95P::DEAG//RRRRRRRRRRR
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//YYYYYYYYYYY
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSDGRAAXXX
:16S:SETPRTY
:16S:SETTRAN
-}}]>
  </FIN>
</DSSResponse>

```

**Figure 7** – DSS Request command XML with nested MT541 ISO 15022 message

### 4.3.1 Transmission via the ODL Gateway

To connect to an Access Point via the ODL Gateway channel, all messages received by the API should be XML messages. However, sending 15022 messages is possible by nesting them in an appropriate manner, inside the document section of XML messages. The structure and fields of the document section of the messages are described under [Services](#). More information on how to connect via the ODL Gateway channel is available in the respective document ***Athex Gateway Architecture & Application Development Guidelines***.

### 4.3.2 Transmission via the Secure FTP Server

If the secure FTP channel is used, three directories are made available on the secure FTP server of HELEX for each Access Point. The name and usage of each of these directories is given below:

- Messages from the User to the API sent through secure ftp, should be placed in files. These files should be saved in the directory named “**in**” to be picked up by the API. Several messages can be saved in a single file;
- When the API needs to respond to messages sent via secure ftp, it stores the responses in files saved in the directory named “**out**”. This directory contains, only, files with response messages from the API to the User;
- Finally, there is a directory named **data** that contains data files generated by the API as a result of serving a request and are intended for reception by the User. Note that in the specific directory files are stored on the Access Point regardless of the channel that requested their creation.

In the case of messaging via this channel, two types of message files are supported:

- Files with the **.fin** extension, which may contain one or more ISO 15022 message but not XML messages.
- Files with the **.xml** extension, which may contain one or more XML files but not ISO 15022 messages, unless the latter are contained in the XML messages in the manner described in section [4.2](#)

If a message file contains several messages, then these are separated by the ASCII character \$ (decimal ASCII 36).

The API relies on the extension of each file to apply the appropriate rules on the messages contained in each file.

More information on connecting via the secure FTP channel can be found in the relevant document ***Connect to the DSS API via secure FTP***.

### 4.3.3 Transmission via SWIFTNet

In this case, Users of the API should use their own method to connect to SWIFTNet. The messages should be sent to HELEX's API BIC address (The exact address will be defined in another document). Messages intended for the test environment of DSS should denote as recipient address the corresponding HELEX's test BIC (to be announced).

For more information on connecting via the SWIFTNet channel, interested API users should consult the relevant literature and support provided to them by the SWIFT organization.



## 5 Services

The services offered by the API fall into three main categories depending on the DSS functionality utilized of the DSS offered by each service. These are:

- Registration
- Settlement - Clearing
- Reporting (in files or messages)

Registration services include the following:

- Investor Registration
- DSS Operator authorization
- DSS Operator authorization deactivation
- Direct Transfer of Securities
- Securities Transfer Release
- Securities Transfer Take-up
- Cancellation of pending transfer of securities
- Joint ownership /Co-ownership registration
- Joint ownership /Co-ownership membership query
- Transfer from/to Joint ownership /Co-ownership securities account
- Investor Code registration in Trading Venue
- Investor Code Update in Trading Venue
- Securities Lending ActionsInvestor details update
- TIN Management
- Securities Blocking

Clearing - settlement services include the following services:

- OTC transaction management through ISO 15022 (MT 54X) messages

Reporting services include the following services:

- Queries

The following table explains what type of messages can be used to request each of the above services.

Service	Message Type		
	XML	MT 599 (fixed-length)	MT54x
<b>Investor Registration</b>	✓	✓	✗
<b>Joint ownership /Co-ownership registration</b>	✓	✓	✗
<b>Joint ownership /Co-ownership membership query</b>	✓	✓	✗
<b>DSS Operator authorization</b>	✓	✓	✗
<b>DSS Operator authorization deactivation</b>	✓	✓	✗
<b>Securities Transfer Release</b>	✓	✓	✗
<b>Securities Transfer Take-up</b>	✓	✓	✗
<b>Direct Transfer of securities</b>	✓	✓	✗
<b>Cancellation of pending transfer of securities</b>	✓	✓	✗
<b>Transfer from/to Joint ownership /Co-ownership securities account</b>	✓	✓	✗
<b>Investor Code registration in trading Venue</b>	✓	✓	✗
<b>Investor Code Update in Trading Venue</b>	✓	✓	✗

Securities Lending Actions	✓	✓	x
Investor details update	✓	✓	x
TIN Management	✓	✓	x
Securities Blocking	✓	✓	x
Queries	✓	✓	x
OTC settlement instruction registration	x	x	✓
OTC settlement instruction release	x	x	✓
OTC settlement instruction status advice	x	x	✓
OTC settlement instruction cancellation	x	x	✓

## 6 Specifications of communication messages

The following two chapters provide a presentation of the messages exchanged between the DSS and third-party applications. The xml schema documents (XSD) that determine the content of the messages are given in tabular form. The following conventions are followed for ease of reading:

- The names of the message elements and attributes are listed in bold. The attributes are distinguished by the use of the '@' sign as a prefix.
- The names of abstract elements are given in italics. These elements cannot be used in instance documents, but are replaced by a concrete implementation.
- The arrow (→) indicates the nesting of elements.
- The column "Field description" provides a brief description of the information represented by each field.
- In the column "Required", a "Y" (Yes) means that the presence of an element is required while a "N" (No) means that its presence is optional.
- The column "Applicable Values" provides a description of the type and limitations that may apply in respect of the values of the elements.

All API XML messages use the namespace "*http://www.helex.gr/dss/services*".

### 6.1 DSSRequest

In order to send messages to the API, an XML instance of type **DSSRequest** has to be used. The information included within is the name of the service to be called and the format of the request message contained inside the request payload.

	Field Name	Field Description	Mandatory	Applicable Values
	<b>DSSRequest</b>		Y	
	<b>@Service</b>	The name of the requested service	Y	Alphanumeric
	<b>@ PayloadFormat</b>	The format of the service message that follows	Y	XML, FIN
→	<b>RequestPayload</b>	The XML document which can substitute the abstract element <i>RequestPayload</i>	Y	See <b>Error! Not a valid result for table.</b>

### 6.2 DSSResponse

The messages received from the API, are XML instances of **DSSResponse** type. The information included are the creation timestamp of the message, the name of the requested service and the format of the response contained inside the response payload.

		Field description	Required	Applicable Values
	<b>DSSResponse</b>		Y	
	<b>@MessageID</b>	Internal message ID assigned to the request message		
	<b>@DateCreated</b>	Creation timestamp of the message	Y	Alphanumeric of the format DD / MM / YYYY HH24: MI: SS

	<b>@Service</b>	The name of the service (if it can be extracted from the request)	O	Alphanumeric
	<b>@ PayloadFormat</b>	The format of the service message that follows	Y	XML, FIN
→	<b>ResponsePayload</b>	The XML document which can substitute the abstract element <i>ResponsePayload</i>	Y	See <b>Error! Not a valid result for table.</b>

### 6.3 DSSEvent

Messages sent by the API conveying information related to DSS events, are instances of **DSSEvent** type. The structure of a **DSSEvent** is similar to that of a **DSSResponse**, however different implementations are used in order to facilitate the distinction of these two types of messages.

		Field description	Required	Applicable Values
<b>DSSEvent</b>			Y	
	<b>@DateCreated</b>	Creation timestamp of the message	Y	Alphanumeric of the format DD / MM / YYYY HH24: MI: SS
	<b>@Service</b>	The name of the service that generates the event	O	Alphanumeric
	<b>@ PayloadFormat</b>	The format of the service message that follows	Y	XML, FIN
→	<b>EventPayload</b>	The XML document which can substitute the abstract element <i>EventPayload</i>	Y	See Service Messages

### 6.4 DSSACK and DSSNAK

To confirm the correct receipt of API requests through the ODL Gateway, instances of **DSSACK** type are used. Where problematic messages are received, instances of **DSSNAK** type are used. Their format is described in the following tables:

		Field description	Required	Applicable Values
<b>DSSACK</b>			Y	
	<b>ClientOrderId</b>	External message ID (assigned by the API user)	Y	Numeric
	<b>NewOrderNumber</b>	Internal message matching code (assigned by the API)	Y	Numeric

		Field description	Required	Applicable Values
<b>DSSNAK</b>			Y	
	<b>ClientOrderId</b>	External message ID (assigned by the API user)	Y	Numeric
	<b>Reason</b>	Reason for the rejection of the message	Y	Alphanumeric

## 6.5 DSSRequest Service attribute

The following table contains the appropriate values for attribute **“Service”** in DSSRequest messages regarding the service requested.

Service	DSSRequest Service value
Investor Registration	“registerInvestor”
Joint ownership /Co-ownership registration	“registerCoownership”
Joint ownership /Co-ownership membership query	“getCoownershipInformation”
DSS Operator authorization	“safekeepingAccountUsageOperatorAuthorization”
DSS Operator authorization deactivation	“safekeepingAccountUsageOperatorDeauthorization”
Securities Transfer Release	“interOperatorSecuritiesTransferRelease”
Securities Transfer Take-up	“interOperatorSecuritiesTransferTakeUp”
Direct Transfer of securities	“interOperatorSecuritiesDirectTransfer”
Cancellation of pending transfer of securities	“interOperatorPendingSecuritiesTransferCancellation”
Transfer from/to Joint ownership /Co-ownership securities account	“jointAccountSecuritiesDirectTransfer”
Investor Code registration in trading Venue	“registerInvestorCodeInTradingVenue”
Investor Code Update in Trading Venue	“updateInvestorCodeInTradingVenue”
Securities Lending Actions	“securitiesLendingAction”
Investor Details Update	“updateInvestor”
TIN Management	“tinManagementAction”
<b>Securities Blocking</b>	<b>“securitiesBlocking”</b>
Queries	“query”

## 7 Specifications of service messages

This chapter provides an analytical description of the offered services. Each service description provides information on the field semantics, Applicable Values and validation rules in both XML and fixed-length format messages.

Responses to services requested with MT599s are provided by the API in one or more MT599s. The first message of each response contains a success/failure indicator placed in narrative field :79: position 25. This indicator is a string that takes either the **SUCCESS** value or, in cases of failure, any of the CSD error codes provided in [Appendix II: Error Messages](#). Further explanation to CSD error codes is always provided in position 200 of the same field (:79:). Upon successful service execution, the SUCCESS string, depending on the service specification, is immediately followed by the response data, having structure and contents according to the service specification.

In case the request is not valid according to the XML schemas or the requested service can not be determined, the API will respond with an XML message named "**GeneralErrorMessage**" ([see Appendix III: GeneralErrorMessage](#)).

## 7.1 Investor share registration

This service allows the user to register a new investor, along with its share and all relevant securities account. The investor can either be an individual or a legal entity. The fields of the service request are listed below. The request must contain either a segment for a physical or a legal entity investor.

### 7.1.1 XML

#### 7.1.1.1 Request

Field Name		Field Description		Mandatory Y(es)/N(o)	Applicable Values
<b>RegisterInvestorRequest</b>				Y	
→	<b>RequestId</b>		Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>		Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>RegistrationApplicationId</b>		Unique ID of the registration application.	Y	Numeric 15x
→	<b>Investor</b>			Y	
	→	<b>Individual</b>	Start of segment for a physical entity (individual)	N	

		→	<b>Surname</b>	The individual's Last name	Y	Alphanumeric 50x
		→	<b>Name</b>	The individual's first name	Y	Alphanumeric 30x
		→	<b>FatherName</b>	Father's name	Y	Alphanumeric 15x
		→	<b>Abbreviation</b>	Name abbreviation	N	Alphanumeric 15x
		→	<b>Occupation</b>	The individual's occupation	N	Alphanumeric 25x
		→	<b>DateOfBirth</b>	Date of birth	Y	Numeric of DDMMYYYY format
	→ <i>Or</i>	<b>Organization</b>		Start of segment for a legal entity (organization)	N	
		→	<b>OrganizationName</b>	The name of the legal entity	Y	Alphanumeric 200x
		→	<b>OrganizationNameAbbreviation</b>	Organization name abbreviation	N	Alphanumeric 15x
		→	<b>OrganizationType</b>	Form of the legal entity	Y	Alphanumeric 15x
		→	<b>BusinessDomain</b>	Business domain	N	Alphanumeric 25x
		→	<b>Domicile</b>	Domicile	Y	Alphanumeric 80x



		→	<b>ContactName</b>	Name of the contact person	Y	Alphanumeric 60x
		→	<b>DateOfFoundation</b>	Date of foundation	N	Numeric of DDMMYYYY format
→	<b>InvestorCodeInTradingVenue</b>			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>TIN</b>			Tax Identification Number	Y	Alphanumeric 15x or indication 'NOT EXISTING'
→	<b>TaxationDepartment</b>			Tax Office	Y	Alphanumeric 15x or indication 'NOT EXISTING'
→	<b>TaxationCountry</b>			Country of residence (country of taxation)	Y	Alphanumeric 2x (according to DSS coding scheme)
→	<b>Citizenship</b>			Citizenship	Y	Alphanumeric 2x (according to DSS coding scheme)
→	<b>Identification</b>			Identification Information	Y	
	→	<b>CertificateType</b>		Type of identification certificate	Y	1 = ID Card 2 = Passport 3 = Company Register Number 4 = Commercial

						Registry Number 9 = Other
	→	<b>Code</b>		Identification number	Y	Alphanumeric 25x or indication 'NOT EXISTING'
	→	<b>IssuingDate</b>		Issuing date	N	Numeric of DDMMYYYY format
	→	<b>IssuingAuthority</b>		Certificate Issuing Authority	Y	Alphanumeric 60x or indication 'NOT EXISTING'
	→	<b>IssuingCountry</b>		Certificate Issuing Country	Y	Alphanumeric 2x  (according to DSS coding scheme)
→	<b>EntityAddress</b>			Investor's address	Y	
	→	<b>NumberAndStreet</b>		Number and street	Y	Alphanumeric 40x
	→	<b>PostalCode</b>		Postal Code	Y	Alphanumeric 10x
	→	<b>City</b>		City/Town	Y	Alphanumeric 20x
	→	<b>Country</b>		Country	Y	Alphanumeric 2x  (according to DSS coding scheme)
	→	<b>Telephone</b>		Telephone	N	Alphanumeric 15x

	→	<b>Fax</b>		Fax	N	Alphanumeric 15x
	→	<b>Email</b>		Email	N	Alphanumeric 64x
→		<b>ContactAddress</b>		Contact Address	Y	
	→	<b>MailRecipient</b>		Mail Recipient	N	Alphanumeric 60x
	→	<b>NumberAndStreet</b>		Number and street	Y	Alphanumeric 40x
	→	<b>PostalCode</b>		Postal Code	Y	Alphanumeric 10x
	→	<b>City</b>		City/Town	Y	Alphanumeric 20x
	→	<b>Country</b>		Country	Y	Alphanumeric 2x (according to DSS coding scheme)
	→	<b>Telephone</b>		Telephone	N	Alphanumeric 15x
	→	<b>Fax</b>		Fax	N	Alphanumeric 15x
→		<b>Custodian</b>		Custodian	N	Alphanumeric 80x
→		<b>RelievedFromBondTaxes</b>		Indicates whether the investor is relieved from bond taxes	Y	Y = Yes N = No
→		<b>CashProceedsViaParticipant</b>		Indicates whether cash proceeds are distributed to the investor via this Participant	Y	Y = Yes N = No
→		<b>StatsCatIncorporationCountry</b>		Shares statistical categorization:	N	Alphanumeric 2x (according to DSS)

				Country of incorporation		coding scheme)  The field is required bby the DSS only in the case of organization investor registration.
→	<b>StatsCatMainCategory</b>			Shares statistical categorization:  Main category	Y	Alphanumeric 10x  (according to DSS coding scheme)
→	<b>StatsCatSubcategory</b>			Shares statistical categorization:  Subcategory	N	Alphanumeric 10x  (according to DSS coding scheme)

### 7.1.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>RegisterInvestorResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>InvestorCode</b>	Y	Alphanumeric 10x
→	<b>InvestorCodeCheckDigit</b>	Y	Alphanumeric 1x
→	<b>SafekeepingAccount</b>	Y	Alphanumeric 10x
→	<b>SafekeepingAccountCheckDigit</b>	Y	Alphanumeric 1x

→	<b>ErrorCode</b>	account in the DSS Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.1.2 ISO 15022

### 7.1.2.1 Request for individuals

Line	Field Name	Position	Size	Padding	Padding character	Field description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code	Y	0001
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
5	<b>RegistrationApplicationId</b>	30	15	L	<SPACE>	Unique ID of the registration application.	Y	Numeric 15x
4	<b>TypeOfInvestor</b>	45	1			Denotes that the investor is a physical entity	Y	1
6	<b>InvestorCodeInTradingVenue</b>	46	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
7	<b>Surname</b>	58	200			Surname	Y	Alphanumeric 50x
8	<b>Name</b>	258	30			Name	Y	Alphanumeric 30x
9	<b>FatherName</b>	288	15			Father's name	Y	Alphanumeric 15x
10	<b>TIN</b>	303	15			Tax Identification Number	Y	Alphanumeric 15x or indication 'NOT EXISTING'

11	<b>TaxationDepartment</b>	318	15			Taxation office	Y	Alphanumeric 15x or indication 'NOT EXISTING'
12	<b>TaxationCountry</b>	333	2			Country of residence (country of taxation)	Y	Alphanumeric 2x (From DSS Coding.)
13	<b>Occupation</b>	335	25			Occupation	N	Alphanumeric 25x
14	<b>DateOfBirth</b>	360	8			Birth Date	Y	Numeric form DDMMYYYY
15	<b>Citizenship</b>	368	2			Nationality	Y	Alphanumeric 2x (From DSS coding.)
16	<b>IDCertificateType</b>	370	1			Type of Identification	Y	1 = ID 2 = Passport 3 = Registration number of company 9 = other
17	<b>IDCertificateCode</b>	371	25			Certificate number	Y	Alphanumeric 25x or indication 'NOT EXISTING'
18	<b>IDCertificateIssuingDate</b>	396	8			Issuing Date of of identification certificate	N	Numeric form DDMMYYYY
19	<b>IDCertificateIssuingAuthority</b>	404	60			Issuing Authority of identification certificate	Y	Alphanumeric 60x or indication 'NOT EXISTING'
20	<b>IDCertificateIssuingCountry</b>	464	2			Issuing country of identification certificate	Y	Alphanumeric 2x (From DSS coding.)
21	<b>EntityAddressNumberAndStreet</b>	466	40			Investor's Address – Street and number	Y	Alphanumeric 40x
22	<b>EntityAddressPostalCode</b>	506	10			Investor's Address – postal code	Y	Alphanumeric 10x
23	<b>EntityAddressCity</b>	516	20			Investor's Address – City	Y	Alphanumeric 20x
24	<b>EntityAddressCountry</b>	536	2			Investor's Address - Country	Y	Alphanumeric 2x (From DSS coding.)
25	<b>EntityAddressTelephone</b>	538	15			Investor's Telephone	N	Alphanumeric 15x
26	<b>EntityAddressFax</b>	553	15			Investor's Fax	N	Alphanumeric 15x
27	<b>EntityAddressEmail</b>	568	64			Investor's Email	N	Alphanumeric 64x

28	ContactAddressMailRecipient	632	60			Contact Address - Recipient	N	Alphanumeric 60x
29	ContactAddressNumberAndStreet	692	40			Contact Address - Street and number	Y	Alphanumeric 40x
30	ContactAddressPostalCode	732	10			Contact Address - Postal code	Y	Alphanumeric 10x
31	ContactAddressCity	742	20			Contact Address - City	Y	Alphanumeric 20x
32	ContactAddressCountry	762	2			Contact Address - Country	Y	Alphanumeric 2x (From DSS coding)
33	ContactAddressTelephone	764	15			Contact Address - Telephone Number	N	Alphanumeric 15x
34	ContactAddressFax	779	15			Contact Address - Fax	N	Alphanumeric 15x
35	Custodian	794	80			Custodian	N	Alphanumeric 80x
36	CashProceedsViaParticipant	874	1			Indicates whether cash proceeds are distributed to the investor via this Participant	Y	Y = Yes N = No
37	RelievedFromBondTaxes	875	1			Indicates whether the investor is relieved from bond taxes	Y	Y = Yes N = No
38	StatsCatIncorporationCountry	876	2			Shares statistical categorization:  Country of incorporation	N	Alphanumeric 2x (according to DSS coding scheme)  The field is required by the DSS only in the case of organization investor registration.
39	StatsCatMainCategory	878	10			Shares statistical categorization:  Main category	Y	Alphanumeric 10x (according to DSS coding scheme)
40	StatsCatSubcategory	888	10			Shares statistical categorization:  Subcategory	N	Alphanumeric 10x (according to DSS coding scheme)

### 7.1.2.2 Request for legal entities

Line	Field Name	Positi	Size	Padding	Padding	Field Description	Mandatory	Applicable Values
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		on		Character			Y(es)/N(0)	
1	ServiceCode	1	4			Servive code	Y	0001
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
5	RegistrationApplicationId	30	15	L	<SPACE>	Unique ID of the registration application.	Y	Numeric 15x
4	TypeOfInvestor	45	1			Denotes that the investor is a legal entity	Y	2
6	InvestorCodeInTradingVenue	46	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
7	OrganizationName	58	200			Name	Y	Alphanumeric 200x
8	OrganizationNameAbbreviation	258	15			Name abbreviation	N	Alphanumeric 15x
9	TIN	273	15			VAT Number	Y	Alphanumeric 15x or indication 'NOT EXISTING'
10	TaxationDepartment	288	15			Taxation Office	Y	Alphanumeric 15x or indication 'NOT EXISTING'
11	TaxationCountry	303	2			Country of residence (country of taxation)	Y	Alphanumeric 2x (according to DSS coding scheme)
12	OrganizationType	305	15			Organization Type	Y	Alphanumeric 15x
13	BusinessDomain	320	25			Business domain	N	Alphanumeric 25x
14	Domicile	345	80			Headquarters	Y	Alphanumeric 80x
15	ContactName	425	60			Legal contacting Representative	Y	Alphanumeric 60x
16	DateOfFoundation	485	8			Foundation date	N	Numeric form DDMMYYYY
17	Citizenship	493	2			Nationality	Y	Alphanumeric 2x (according to DSS coding scheme)
18	IDCertificateType	495	1			Type of identification certificate	Y	1 = ID 2 = Passport 3 = Registration number of company



								4 = Commercial Registry Number 9 = Other
19	<b>IDCertificateCode</b>	496	25			Certificate number	Y	Alphanumeric 25x or indication 'NOT EXISTING'
20	<b>IDCertificateIssuingDate</b>	521	8			Issuing date of identification certificate	N	Numeric form DDMMYYYY
21	<b>IDCertificateIssuingAuthority</b>	529	60			Issuing authority of identification certificate	Y	Alphanumeric 60x or indication 'NOT EXISTING'
22	<b>IDCertificateIssuingCountry</b>	589	2			Issuing country of identification certificate	Y	Alphanumeric 2x (according to DSS coding scheme)
23	<b>EntityAddressNumberAndStreet</b>	591	40			Investor's Address – Street and Number	Y	Alphanumeric 40x
24	<b>EntityAddressPostalCode</b>	631	10			Investor's Address – Postal Code	Y	Alphanumeric 10x
25	<b>EntityAddressCity</b>	641	20			Investor's Address – City	Y	Alphanumeric 20x
26	<b>EntityAddressCountry</b>	661	2			Investor's Address - Country	Y	Alphanumeric 2x (according to DSS coding scheme)
27	<b>EntityAddressTelephone</b>	663	15			Investor's Telephone number	N	Alphanumeric 15x
28	<b>EntityAddressFax</b>	678	15			Investor's Fax	N	Alphanumeric 15x
29	<b>EntityAddressEmail</b>	693	64			Investor's Email	N	Alphanumeric 64x
30	<b>ContactAddressMailRecipient</b>	757	60			Contact Address - Recipient	N	Alphanumeric 60x
31	<b>ContactAddressNumberAndStreet</b>	817	40			Contact Address – Street and number	Y	Alphanumeric 40x
32	<b>ContactAddressPostalCode</b>	857	10			Contact Address – Postal Code	Y	Alphanumeric 10x
33	<b>ContactAddressCity</b>	867	20			Contact Address - City	Y	Alphanumeric 20x
34	<b>ContactAddressCountry</b>	887	2			Contact Address – Country	Y	Alphanumeric 2x (according to DSS coding scheme)
35	<b>ContactAddressTelephone</b>	889	15			Contact Address – Telephone number	N	Alphanumeric 15x
36	<b>ContactAddressFax</b>	904	15			Contact Address – Fax number	N	Alphanumeric 15x
37	<b>Custodian</b>	919	80			Custodian	N	Alphanumeric 80x
38	<b>CashProceedsViaParticipant</b>	999	1			Indicates whether cash proceeds are distributed to the investor via this Participant	Y	Y = Yes N = No

39	RelievedFromBondTaxes	1000	1			Indicates whether the investor is relieved from bond taxes	Y	Y = Yes N = No
40	StatsCatIncorporationCountry	1001	2			Shares statistical categorization:  Country of incorporation	N	Alphanumeric 2x (according to DSS coding scheme)  The field is required by the DSS only in the case of organization investor registration.
41	StatsCatMainCategory	1003	10			Shares statistical categorization:  Main category	Y	Alphanumeric 10x (according to DSS coding scheme)
42	StatsCatSubcategory	1013	10			Shares statistical categorization:  Subcategory	N	Alphanumeric 10x (according to DSS coding scheme)

### 7.1.2.3 Response (common in both cases)

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service Code	Y	0001
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x

3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
5	<b>ErrorCode</b>	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
6	<b>InvestorCode</b>	45	10			DSS Investor Code	Y	Alphanumeric 10x
6	<b>ErrorDescription</b>	45	200			Description and additional information for the <b>ErrorCode</b> field	O	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>
7	<b>InvestorCodeCheckDigit</b>	55	1			Investor's Share Code Digit Check	Y	Alphanumeric 1x
8	<b>SafekeepingAccount</b>	56	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
9	<b>SafekeepingAccountCheckDigit</b>	66	1			Check digit for the investor's Securities account	Y	Alphanumeric 10x

## 7.2 Registration of a Joint or Co-owner Investor Share and Securities Account

This service allows the user to create a new joint investor share and account or a new co-owners investor share and account.

### 7.2.1 XML

#### 7.2.1.1 Request

Field Name					Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>RegisterCoownership Request</b>						Y	
→	<b>RequestId</b>				Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>				Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>RegistrationApplicationId</b>				Unique ID of the registration application.	Y	Numeric 15x
→	<b>Investor</b>					Y	
	→	<b>Coholders</b>			Segment is used for co-	N	

					owned shares		
		→	<b>NumberOfOwners</b>		Number of owners	Y	Alphanumeric 2x
		(2..n) →	<b>Owner</b>			Y	
			→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric ó 10x
			→	<b>OwnershipPercentage</b>	Ownership percentage	N	Numeric 6x
	→ or	<b>Shared</b>			Segment is used for joint shares	N	
		→	<b>NumberOfOwners</b>		Number of owners	Y	Alphanumeric 2x
		(2..n) →	<b>Owner</b>			Y	
			→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
			→	<b>OwnershipRank</b>	Ownership rank	N	Numeric 3x
→	<b>InvestorCodeInTradingVenue</b>				Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>GroupName</b>				Account name	Y	Alphanumeric 200x
→	<b>ContactAddress</b>				Contact Address	Y	
	→	<b>MailRecipient</b>			Recipient	N	Alphanumeric 60x
	→	<b>NumberAndStreet</b>			Number and Street	Y	Alphanumeric 40x
	→	<b>PostalCode</b>			Postal Code	Y	Alphanumeric 10x
	→	<b>City</b>			City	Y	alphanumeric 20x

	→	<b>Country</b>			Country	Y	Alphanumeric 2x (From DSS Coding )
	→	<b>Telephone</b>			Telephone Number	N	Alphanumeric 15x
	→	<b>Fax</b>			Fax number	N	Alphanumeric 15x
→		<b>RelievedFromBondTaxes</b>			Indicates whether the investor is relieved from bond taxes	Y	Y = Yes N = No
→		<b>CashProceedsViaParticipant</b>			Indicates whether cash proceeds are distributed to the investor via this Participant	Y	Y = Yes N = No
→		<b>HeritageOption</b>			Inheritance Term (Applicable only to Joint Investor Shares) Applying the condition that in case of death of one of the joint owners, securities are	N	Y = Yes N = No

					distributed automatically to the rest of the share owners in accordance with paragraph 1 of Article 2 of Law 5638/1932.		
→	<b>StatsCatMainCategory</b>				Shares statistical categorization : Main category	Y	Alphanumeric 10x (according to DSS coding scheme)
→	<b>StatsCatSubcategory</b>				Shares statistical categorization : Subcategory	N	Alphanumeric 10x (according to DSS coding scheme)

### 7.2.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>RegisterCoownershipResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>InvestorCode</b> DSS Investor Code	Y	Alphanumeric 10x
→	<b>InvestorCodeCheckDigit</b> Investor's share code check digit	Y	Alphanumeric 1x

→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>SafekeepingAccountCheckDigit</b>	Investor's securities account check digit code		Alphanumeric 1x
→	<b>ErrorCode</b>	Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	O	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

### 7.2.2 ISO 15022

In the case of Co-owned shares, individual investor codes participating in a co-owned share, should be provided at the end of the message as **Investor Code-Ownership Percentage** pairs, starting from field 25. The same holds in the case of Joint Shares, except that the Ownership percentage fields should be filled with space characters. The rank by which the individual investor codes participate in the Joint Share is according to the the sequence by which they are aligned in the request message.

#### 7.2.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code	Y	0014
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>RegistrationApplicationId</b>	30	15	L	<SPACE>	Unique ID of the registration application.	Y	Numeric 15x
5	<b>InvestorCodeInTradingVenue</b>	45	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	<b>GroupName</b>	57	200			Account name	Y	Alphanumeric 200x
8	<b>ContactAddressMailRecipient</b>	257	60			Recipient	N	Alphanumeric 60x
9	<b>ContactAddressNumberAndStreet</b>	317	40			Number and street	Y	Alphanumeric 40x
10	<b>ContactAddressPostalCode</b>	357	10			Postal code	Y	Alphanumeric 10x



11	ContactAddressCity	367	20			City	Y	Alphanumeric 20x
12	ContactAddressCountry	387	2			Country	Y	Alphanumeric 2x (From DSS Coding )
13	ContactAddressTelephone	389	15			Telephone number	N	Alphanumeric 15x
14	ContactAddressFax	404	15			Fax Number	N	Alphanumeric 15x
18	RelievedFromBondTaxes	419	1			Indicates whether the investor is relieved from bond taxes	Y	Y = Yes N = No
19	CashProceedsViaParticipant	420	1			Indicates whether cash proceeds are distributed to the investor via this Participant	Y	Y = Yes N = No
20	HeritageOption	421	1			Inheritance Term (Applicable only to Joint Investor Shares) Applying the condition that in case of death of one of the joint owners, securities are distributed automatically to the rest of the share owners in accordance with paragraph 1 of Article 2 of Law 5638/1932.	N	Y = Yes N = No
21	StatsCatMainCategory	422	10			Shares statistical categorization: Main category	Y	Alphanumeric 10x  (according to DSS coding scheme)
22	StatsCatSubcategory	432	10			Shares statistical categorization: Subcategory	N	Alphanumeric 10x  (according to DSS coding scheme)
23	TypeOfCoownership	442	1			Account Indication type	Y	3 = Co-owners Investor Share (CIS) 5 = Joint Investor Share (JIS)
24	NumberOfOwners	443	2	L	0	Number of owners	Y	Numerical 2x
25	InvestorCode	445	10			DSS Investor Code	Y	Alphanumeric 10x
26	OwnershipPercentage	455	6			Shareholding	Y	Numerical 6x

						The value of the field is taken into account only for a account of co-owners		
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### 7.2.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0014
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	InvestorCode	45	10			DSS Investor Code	Y	Alphanumeric 10x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
6	InvestorCodeCheckDigit	55	1			Check digit of the investor's Share in the DSS	Y	Alphanumeric 1x
7	SafekeepingAccount	56	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
8	SafekeepingAccountCheckDigit	66	1			Check digit on the new securities account.	Y	Alphanumeric 1x

### 7.3 Joint investor share or co-owner share member lookup

This service allows the user to lookup the beneficiaries of a joint account or a co-owner account .

## 7.3.1 XML

## 7.3.1.1 Request

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>GetCoownershipInformationRequest</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x

## 7.3.1.2 Response

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>GetCoownershipInformationResponse</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
→	<b>Investor</b>		Y	
	→	<b>Coholders</b>	N	
		Segment used for co-owned shares		

		→	<b>NumberOfOwners</b>		Number of beneficiaries	Y	Alphanumeric 2x
		(2..n) →	<b>Owner</b>			Y	
			→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
			→	<b>OwnershipRank</b>	Ownership rank	N	Alphanumeric 3x
			→	<b>OwnershipPercentage</b>	Ownership percentage	N	Numeric 6x (E.g. 99% is expressed as 99000)
	→ or	<b>Shared</b>			Segment used for joint shares	N	
		→	<b>NumberOfOwners</b>		Number of beneficiaries	Y	Alphanumeric 2x
		(2..n) →	<b>Owner</b>			Y	
			→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
			→	<b>OwnershipRank</b>	Member rank	N	Alphanumeric 3x
→	<b>ErrorCode</b>				Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>				Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.3.2 ISO 15022

## 7.3.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service Code	Y	0028
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	InvestorCode	30	10			DSS Investor Code	Y	Alphanumeric 10x

## 7.3.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0028
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	InvestorCode	45	10			DSS Investor Code	Y	Alphanumeric 10x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or

								empty in case of <b>SUCCESS</b>
<b>6</b>	<b>TypeOfCoownership</b>	55	1			Share ownership indication type	Y	3 = Co-owners Investor Share (CIS) 5 = Joint Investor Share (JIS)
<b>7</b>	<b>NumberOfCoowners</b>	56	3	L	0	Number of Co-owners	Y	Numeric 2x
<b>8</b>	<b>InvestorCode</b>	59	10			DSS Investor Code	Y	Alphanumeric 10x
<b>9</b>	<b>OwnershipRank</b>	69	3	L	0	Ownership rank	N	Alphanumeric 10x
<b>10</b>	<b>OwnershipPercentage</b>	72	6	L	0	Ownership percentage	N	Numeric 6x
<b>11</b>	...	...	...	...	...	...	...	...

## 7.4 Operator authorization

This service allows the user to create one Sub-Account on an existing investor account that would be under the exclusive control of the DSS operator

### 7.4.1 XML

#### 7.4.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SafekeepingAccountUsageOperatorAuthorizationRequest</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Y	Alphanumeric 10x
→	<b>InvestorCodeInTradingVenue</b>	Y	Alphanumeric 12x
→	<b>ActivationDate</b>	Y	Numeric form DDMMYYYY (Only current date)
→	<b>Narrative</b>	N	Alphanumeric 512x
→	<b>CashProceedsViaParticipant</b>	N	Y = Yes N = No If the field is missing a default Y is stored in the DSS database

## 7.4.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SafekeepingAccountUsageOperatorAuthorizationResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
	Request identifier. Provided by the Participant in the request. Returned by the API in the response.		
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.		
→	<b>InvestorCode</b>	N	Alphanumeric 10x
	DSS Investor Code	Field appears only on success	
→	<b>ErrorCode</b>	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
	Error code		
→	<b>ErrorDescription</b>	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
	Description and additional information for the <b>ErrorCode</b> field		



## 7.4.2 ISO 15022

## 7.4.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0003
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	InvestorCodeInTradingVenue	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	ActivationDate	52	8			Date Added	Y	Numeric form DDMMYYYY (Only current date)
7	Narrative	60	512	R		Comments	N	Alphanumeric 512x
8	CashProceedsViaParticipant	572	1	R		Indicates whether cash proceeds are distributed to the investor via this Participant	N	Y = Yes N = No If the field is missing a default <b>Y</b> is stored in the DSS database

## 7.4.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0003

2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>ErrorCode</b>	30	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	<b>ErrorDescription</b>	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.5 Operator authorization deactivation

This service allows the user to deactivate an Operator authorization.

### 7.5.1 XML

#### 7.5.1.1 Request

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SafekeepingAccountUsageOperatorDeauthorizationRequest</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS	Y	Alphanumeric 12x

		trading system		
→	<b>DeactivationDate</b>	Deactivation date	Y	Numeric form DDMMYYYY (Only current date)
→	<b>Narrative</b>	Comments	N	Alphanumeric 512x
→	<b>CashProceedsViaParticipant</b>	Indicates whether cash proceeds are distributed to the investor via this Participant	N	Y = Yes N =No If the field is missing a default <b>Y</b> is stored in the DSS database

### 7.5.1.2 Response

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SafekeepingAccountUsageOperatorDeauthorizationResponse</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
→	<b>ErrorCode</b>	Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.5.2 ISO 15022

## 7.5.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service Code	Y	0004
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	InvestorCodeInTradingVenue	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	DeactivationDate	52	8			Deactivation date	Y	Numeric form DDMMYYYY (Only current date)
7	Narrative	60	512			Comments	N	Alphanumeric 512x
8	CashProceedsViaParticipant	575	1			Indicates whether cash proceeds are distributed to the investor via this Participant	N	Y = yes N = no If the field is missing a default Y is stored in the DSS database

## 7.5.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0004
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x

3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>ErrorCode</b>	30	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	<b>ErrorDescription</b>	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.6 Direct Transfer

This service allows for the user to directly transfer :

- A quantity of a particular security in a sub-account
- The total quantity of a particular security in a sub-account
- The total quantity of all securities in a sub-account

to another sub-account of the same securities account. The source sub-account should be under the requesting operator's control.

### 7.6.1 XML

#### 7.6.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesDirectTransferRequest</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>TransactionType</b>	Y	Alphanumeric 8x 31000001 = Transfer a specific quantity of a specific security

				32000001 = Transfer the total quantity of a specific security 33000001 = Transfer the total quantity of the securities account (of all securities)
→	<b>TransferDate</b>	Transfer date	Y	Numeric form DDMMYYYY (only current date)
→	<b>FromDSSParticipant</b>	Source participant code	Y	Alphanumeric 10x
→	<b>ToDSSParticipant</b>	Destination participant code	Y	Alphanumeric 10x
→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>ISIN</b>	Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
→	<b>Quantity</b>	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a security.
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x (Stored in the comments field)
→	<b>TransferReason</b>	Reason of Transfer	Y	1 – Notary Action 2 – Private Agreement 3 = Investor instruction O = (Latin capital) Other

### 7.6.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesDirectTransferResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x

→	<b>ParticipantId</b>	API in the response. Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>TransferDate</b>	Transfer date	Y	Numeric form DDMMYYYY (only current date)
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
→	<b>DSSProvidedTransferId</b>	DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x
→	<b>DSSProvidedTransactionId</b>	Transaction code (provided by the DSS)	N	Alphanumeric 10x
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.6.2 ISO 15022

### 7.6.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service Code	Y	0005
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is	Y	Alphanumeric 10x

						placed. This is a DSS operator's code.		
4	TransactionType	30	8			Transaction type	N	Alphanumeric 8x <b>31000001</b> = Transfer a specific quantity of a specific security <b>32000001</b> = Transfer the total quantity of a specific security <b>33000001</b> = Transfer the total quantity of the securities account (of all securities)
5	TransferDate	38	8			Transfer Date	Y	Numeric form DDMMYYYY (only current date)
6	FromDSSParticipant	46	10			Source participant code	Y	Alphanumeric 10x
7	ToDSSParticipant	56	10			Destination participant code. This is a DSS Operator code.	Y	Alphanumeric 10x
8	InvestorCode	66	10			DSS Investor Code	Y	Alphanumeric 10x
9	SafekeepingAccount	76	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
10	ISIN	86	12			Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
11	Quantity	98	15	L	0	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a security.
12	TransferApplicationId	113	10			Transfer application identifier provided by the Participant	Y	Alphanumeric 10x



13	TransferReason	123	1			Transfer reason	Y	1 = Notary Action 2 = Private Agreement 3 = Investorinstruction O = (Latin capital) Other
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## 7.6.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service Code	Y	0005
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	TransferDate	45	8			Transfer date	Y	Numeric Form DDMMYYYY
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>
6	TransferApplicationId	53	10			Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
7	DSSProvidedTransferId	63	7			DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x

8	DSSProvidedTransactionId	70	10		Transaction code (provided by the DSS)	N	Alphanumeric 10x
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## 7.7 Release of securities

This service allows a participant to indirectly transfer securities from a sub-account to another sub-account of the same securities account by releasing:

- A quantity of a particular security
- The total quantity of a particular security
- The total quantity of all securities in the sub-account

To complete the process a take-up action should be performed by the receiving participant.

### 7.7.1 XML

#### 7.7.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesTransferReleaseRequest</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>TransactionType</b>	Y	Alphanumeric 8x 31000001 = Transfer a specific quantity of a specific security

				32000001 = Transfer the total quantity of a specific security Value 33000001 = Transfer the total quantity of the securities account (of all securities)
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>ISIN</b>	Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
→	<b>Quantity</b>	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a security.
→	<b>CounterPartyDSSProvidedTransferId</b>	DSS code of counterparty take-up request (provided in the case that a counterparty take-up request has already taken place)	N	Alphanumeric 7x
→	<b>CounterPartyTransferRequestDate</b>	Date of counterparty take-up request ( provided in the case that a counterparty take-up request has already taken place)	N	Numeric DDMMYY
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
→	<b>TransferReason</b>	Transfer reason	Y	1 – Notary Action 2 – Private Agreement

				3 = Investor instruction O = (Latin capital) Other
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### 7.7.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesTransferReleaseResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>TransferRequestDate</b> Release Date	Y	Numeric form DDMMYYYY
→	<b>DSSProvidedTransferId</b> DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x
→	<b>DSSProvidedTransactionId</b> Transaction number (provided by the DSS)	N	Alphanumeric 10x
→	<b>ErrorCode</b> Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.7.2 ISO 15022

### 7.7.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
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1	ServiceCode	1	4			Service code	Y	0025
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	TransactionType	30	8			Transaction type	Y	Alphanumeric 8x <b>31000001</b> = Transfer a specific quantity of a specific security <b>32000001</b> = Transfer the total quantity of a specific security <b>33000001</b> = Transfer the total quantity of the securities account (of all securities)
5	SafekeepingAccount	38	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
6	ISIN	48	12			Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
7	Quantity	60	15	L	0	Transferred quantity	Y/N	Numeric 15x

								Required only when transferring a specific quantity of a security.
8	CounterPartyDSSProvidedTransferId	75	7			DSS counterparty take-up request code (provided in the case that a counterparty take-up request has already taken place)	N	Alphanumeric 7x
9	CounterPartyTransferRequestDate	82	8			Counterparty take-up request date (provided in the case that a counterparty take-up request has already taken place)	N	Numeric Type DDMMYYYY
10	TransferApplicationId	90	60			Transfer application identifier provided by the Participant	Y	Alphanumeric 60x
11	TransferReason	150	1			Transfer reason	Y	1 – Notary Action 2 – Private Agreement 3 = Investor's instruction O=other

### 7.7.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0025
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	TransferRequestDate	45	8			Release Date	Y	Numeric Form DDMMYYYY

5	<b>ErrorDescription</b>	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
6	<b>DSSProvidedTransferId</b>	53	7			DSS transfer request code (provided by the DSS)	N	Numeric 7x
7	<b>DSSProvidedTransactionId</b>	60	10			Transaction Number (Provided by the DSS)	N	Alphanumeric 10x



## 7.8 Take-up of securities

This service allows the user to indirectly receive securities to a sub-account from another sub-account of the same securities account by taking up:

- A quantity of a particular security
- The total quantity of a particular security
- The total quantity of all securities in the sub-account

To complete the process a release action should be performed by the transferring Participant.

### 7.8.1 XML

#### 7.8.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesTransferTakeUpRequest</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>TransactionType</b>	Y	Alphanumeric 8x <b>31000001</b> = Transfer a specific quantity of a specific security <b>32000001</b> = Transfer the total quantity of a specific security Value <b>33000001</b> = Transfer the total quantity of the

				securities account (of all securities)
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>ISIN</b>	Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
→	<b>Quantity</b>	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a security.
→	<b>CounterPartyDSSProvidedTransferId</b>	DSS code of the counterparty's release request (provided in the case that a counterparty release request has already taken place)	N	Alphanumeric 7x (used whenever a release has preceded)
→	<b>CounterPartyTransferRequestDate</b>	Counterparty release request date (provided in the case that a counterparty release request has already taken place)	N	Numeric Form DDMMYYYY (used whenever a release has preceded)
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
→	<b>TransferReason</b>	Transfer reason	Y	1 = Notary Action 2 = Private Agreement 3 = Investor's instruction O=Other (Latin Capital)

## 7.8.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorSecuritiesTransferTakeUpResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>TransferRequestDate</b> Take-up date	Y	Numeric Form DDMMYYYY
→	<b>DSSProvidedTransferId</b> DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x
→	<b>DSSProvidedTransactionId</b> Transaction number (provided by the DSS)	N	Alphanumeric 10x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.8.2 ISO 15022

## 7.8.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code	Y	0026
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x

<b>3</b>	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
<b>4</b>	<b>TransactionType</b>	30	8			Transaction type	Y	Alphanumeric 8x <b>31000001</b> = Transfer a specific quantity of a specific security <b>32000001</b> = Transfer the total quantity of a specific security <b>33000001</b> = Transfer the total quantity of the securities account (of all securities)
<b>5</b>	<b>SafekeepingAccount</b>	38	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
<b>6</b>	<b>ISIN</b>	48	12			Security ISIN	Y/N	Alphanumeric 12x Required when transferring any or the total quantity of a specific security.
<b>7</b>	<b>Quantity</b>	60	15	L	0	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a security.
<b>8</b>	<b>CounterPartyDSSProvidedTransferId</b>	75	7			DSS counterparty release request code (provided in the case that a counterparty release request has already taken place)	N	Alphanumeric 7x
<b>9</b>	<b>CounterPartyTransferRequestDate</b>	82	8			Counterparty release request date (provided in the case that a counterparty release request has already taken place)	N	Numeric Type DDMMYYYY
<b>10</b>	<b>TransferApplicationId</b>	90	60			Transfer application identifier provided by the Participant	Y	Alphanumeric 60x

11	TransferReason	150	1			Transfer reason	Y	1 = Notary Action 2 = Private Agreement 3 = Investor instruction O = (Latin capital) Other
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## 7.8.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0026
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	TransferRequestDate	45	8			Release Date	Y	Numeric Form DDMMYYYY
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
6	DSSProvidedTransferId	53	7		0	DSS transfer request code (provided by the DSS)	N	Numeric 7x
7	DSSProvidedTransactionId	60	10		0	Transaction code provided frm DSS)	N	Alphanumeric 10x

## 7.9 Cancellation of a pending transfer

This service is used to cancel a pending securities transfer release or take-up.

### 7.9.1 XML

#### 7.9.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorPendingSecuritiesTransferCancellationRequest</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b> Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>OriginalDSSTransferRequestId</b> Pending transfer request code	N	Alphanumeric 7x
→	<b>OriginalTransferRequestDate</b> Pending transfer request date	N	Numeric Form DDMMYYYY

#### 7.9.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>InterOperatorPendingSecuritiesTransferCancellationResponse</b>			
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which	Y	Alphanumeric 10x

		the request is placed. This is a DSS operator's code.		
→	<b>CancellationRequestDate</b>	Request date	N	Numeric Form DDMMYYYY
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.9.2 ISO 15022

### 7.9.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code		0027
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>		10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>SafekeepingAccount</b>	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	<b>OriginalDSSTransferRequestSn</b>	40	7			Pending transfer request code	N	Alphanumeric 7x
6	<b>OriginalTransferRequestDate</b>	47	8			Pending transfer request date	N	Numeric Form DDMMYYYY

## 7.9.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		0027
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	CancellationDate	45	8			Cancellation date	Y	Numeric Form DDMMYYYY
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>



## 7.10 Transfer from / to a Joint Investor Share

## 7.10.1 XML

## 7.10.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>JointAccountSecuritiesDirectTransferRequest</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>TransactionType</b> Transaction type	Y	Alphanumeric 8x <b>31000060</b> = Transfer a specific quantity of a specific security <b>33000002</b> = Transfer the total quantity of the securities account (of all securities)
→	<b>SafekeepingAccountFrom</b> Source Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>SafekeepingAccountTo</b> Destination Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>ISIN</b> Security ISIN	Y/N	Alphanumeric 12x Required when transferring a specific quantity of a specific security.
→	<b>Quantity</b> Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a specific security.
→	<b>LegalDocument</b>	N	Alphanumeric 60x (Recorded in the comments)

→	<b>TransferReason</b>	Transfer reason	Y	1 – Notary Action 2 – Private Agreement 3 = Investor’s instruction O (Latin capital) = Other
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x

### 7.10.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable values	
<b>JointAccountSecuritiesDirectTransferResponse</b>		Y		
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator’s code.	Y	Alphanumeric 10x
→	<b>TransferDate</b>	Transfer date	Y	Numeric Form DDMMYYYY (only current date)
→	<b>TransferApplicationId</b>	Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
→	<b>DSSProvidedTransferId</b>	DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x
→	<b>DSSProvidedTransactionId</b>	Transaction Number (provided by DSS)	N	Alphanumeric 10x
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.10.2 ISO 15022

## 7.10.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0040
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	TransactionType	30	8			Transaction type	Y	Alphanumeric 8x 31000060 = Transfer a specific quantity of a specific security 33000002 = Transfer the total quantity of the securities account (of all securities)
5	SafekeepingAccountFrom	38	10			Source Investor securities account number in the DSS	Y	Alphanumeric 10x
6	SafekeepingAccountTo	48	10			Destination Investor securities account number in the DSS	Y	Alphanumeric 10x
7	ISIN	58	12			Security ISIN	Y/N	Alphanumeric 12x Required when transferring a specific quantity of a specific security.
8	Quantity	70	15	L	0	Transferred quantity	Y/N	Numeric 15x Required only when transferring a specific quantity of a specific

								security.	
9	LegalDocument	85	60					N	
10	TransferReason	145	1			Transfer reason		Y	1 – Notary Action 2 – Private Agreement 3 = Investor’s instruction O (Latin capital) = Other
11	TransferApplicationId	146	10			Transfer application identifier provided by the Participant		Y	Alphanumeric 10x

### 7.10.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0040
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator’s code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	TransferDate	45	8			Transfer date	Y	Numeric Form

								DDMMYYYY
5	<b>ErrorDescription</b>	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>
6	<b>TransferApplicationId</b>	53	10			Transfer application identifier provided by the Participant	Y	Alphanumeric 10x
7	<b>DSSProvidedTransferId</b>	63	7			DSS transfer request code (provided by the DSS)	N	Alphanumeric 7x
8	<b>DSSProvidedTransactionId</b>	70	10			Transaction Number (provided by the DSS)	N	Alphanumeric 10x

### 7.11 Investor Code in Trading Venue registration

By utilizing this service a user can register, in the DSS, a unique **Investor Trading Code** for each **Securities Account-Trader DSS Id-Custodian DSS Id** combination. Currently, the only venue supported, is the Securities ATHEX Exchange

#### 7.11.1 XML

##### 7.11.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>RegisterInvestorCodeInTradingVenueRequest</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x

→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>TraderId</b>	DSS code of the Trading Member	Y	Alphanumeric 10x
→	<b>Narrative</b>	Comments	N	Alphanumeric 512x

### 7.11.1.2 Response

Field Name	Field description	Mandatory Y(es)/N(o)	Applicable Values	
<b>RegisterInvestorCodeInTradingVenueResponse</b>				
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>TraderId</b>	DSS code of the Trading Member	Y	Alphanumeric 10x
→	<b>ErrorCode</b>	Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

**7.11.2 ISO 15022***7.11.2.1 Request*

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1013
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	InvestorCodeInTradingVenue	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	TraderId	52	10			DSS code of the Trading Member	Y	Alphanumeric 10x
7	Narrative	62	512			Comments	N	Alphanumeric 512x

*7.11.2.2 Response*

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1013
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant	Y	Alphanumeric

						on behalf of which the request is placed. This is a DSS operator's code.		10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	InvestorCodeInTradingVenue	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	TraderId	52	10			DSS code of the Trading Member	Y	Alphanumeric 10x
7	ErrorCode	62	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
8	ErrorDescription	77	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.12 Investor Code in Trading Venue update

In its current version, this service is used to deactivate an active registration of an existing Securities Athens Exchange Investor Trading Code in the DSS

### 7.12.1 XML

#### 7.12.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
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<b>UpdateInvestorCodeInTradingVenueRequest</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>TraderId</b>	DSS code of the Trading Member	Y	Alphanumeric 10x
→	<b>DeactivationDate</b>	Deactivation date	Y	Numeric form DDMMYYYY (Only current date)
→	<b>Narrative</b>	Comments	N	Alphanumeric 512x

### 7.12.1.2 Response

<b>Field Name</b>		<b>Field Description</b>	<b>Mandatory Y(es)/N(o)</b>	<b>Applicable Values</b>
<b>UpdateInvestorCodeInTradingVenueResponse</b>				
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x

→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS trading system	Y	Alphanumeric 12x
→	<b>TraderId</b>	DSS code of the Trading Member	Y	Alphanumeric 10x
→	<b>DeactivationDate</b>	Deactivation date	Y	Numeric form DDMMYYYY
→	<b>ErrorCode</b>	Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.12.2 ISO 15022

### 7.12.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code		1014
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>SafekeepingAccount</b>	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	<b>InvestorCodeInTradingVenue</b>	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x

6	TraderId	52	10			DSS code of the Trading Member	Y	Alphanumeric 10x
7	DeactivationDate	62	8			Deactivation date	Y	Numeric form DDMMYYYY (Only current date)
8	Narrative	70	512			Comments	N	Alphanumeric 512x

### 7.12.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1014
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	InvestorCodeInTradingVenue	40	12			Investor's code in the OASIS trading system	Y	Alphanumeric 12x
6	TraderId	52	10			DSS code of the Trading Member	Y	Alphanumeric 10x
	DeactivationDate	62	8			Deactivation date	Y	Numeric form DDMMYYYY (Only current date)

7	<b>ErrorCode</b>	70	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
8	<b>ErrorDescription</b>	85	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

### 7.13 Securities Lending Action

A user can utilize this service to perform any of the following securities lending actions:

- Apply for lending securities
- Amend a pending securities lending application
- Withdraw a certain securities quantity from a pending securities application
- Lending exercise
- Alter the lender Custodian for a lending application

The size and structure of the request messages depends on the lending action requested, however the response messages have identical size and structure regardless of the requested action.

#### 7.13.1 Register a securities lending application

##### 7.13.1.1 XML

###### 7.13.1.1.1 Request

Field Name	Field	Mandatory	Applicable
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					Description	Y(es)/N(o)	Values
<b>SecuritiesLendingActionRequest</b>						Y	
→	<b>RequestId</b>				Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>				Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b>				Type of lending action	Y	Alphanumeric 2x <b>IA</b> = Securities lending application registration
	→	<b>LendingActionParameters</b>					
		→	<b>RegisterLendingApplicationParameters</b>				
			→	<b>Safekeeping Account</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
			→	<b>ISIN</b>	Security ISIN	Y	Alphanumeric 12x
			→	<b>Quantity</b>	Quantity for lending	Y	Numeric 15x

			→	<b>Application ValidUntil</b>	Application expiration date	Y	Numeric Form DDMMYYYY
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## 7.13.1.1.2 Response

Field Name	Field description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>LendingAction</b>	Y	Alphanumeric 2x
→	<b>ErrorCode</b>	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a>
→	<b>DSSProvidedRegistrationId</b>	N	Numeric 15x
→	<b>ErrorDescription</b>	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.13.1.2 ISO 15022

## 7.13.1.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code		1015
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the	Y	Alphanumeric 15x

						API in the response.		
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x IA = Securities lending application registration
5	SafekeepingAccount	32	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
6	ISIN	42	12			Security ISIN	Y	Alphanumeric 12x
7	Quantity	54	15			Quantity for lending	Y	Numeric 15x
8	ApplicationValidUntil	69	8			Application expiration date	Y	Numeric Form DDMMYYYY

## 7.13.1.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request	Y	Alphanumeric 10x

						is placed. This is a DSS operator's code.		
4	<b>LendingAction</b>	30	2			Type of lending action	Y	Alphanumeric 2x
5	<b>ErrorCode</b>	32	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
6	<b>DSSProvidedRegistrationId</b>	47	15			Application registration id, provided by the DSS	N	Numeric 15x
6	<b>ErrorDescription</b>	47	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>



**7.13.2 Update a pending securities lending application***7.13.2.1 XML*

## 7.13.2.1.1 Request

Field Name				Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingAction Request</b>					Y	
→	<b>RequestId</b>			Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b>			Type of lending action	Y	Alphanumeric 2x <b>UA</b> = Pending securities lending application update

	→	LendingActionParameters				Y	
		→	UpdateLendingApplicationParameters			Y	
			→	DSSProvidedRegistrationId	Application registration id, provided by the DSS	Y	Alphanumeric 10x
			→	ApplicationValidUntil	Application expiration date	Y	Numeric Form DDMMYYYY

## 7.13.2.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b> Type of lending action	Y	Alphanumeric 2x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
→	<b>DSSProvidedRegistrationId</b> Application registration id, provided by the DSS	N	Numeric 15x
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.13.2.2 ISO 15022

## 7.13.2.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x UA = Pending securities lending application update
5	DSSProvidedRegistrationId	32	15			Application registration id, provided by the DSS	Y	Numeric 15x
6	ApplicationValidUntil	47	8			Application expiration date	Y	Numeric Form DDMMYYYY

## 7.13.2.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request.	Y	Alphanumeric 15x

						Returned by the API in the response.		
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x
5	ErrorCode	32	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
6	DSSProvidedRegistrationId	47	15			Application registration id, provided by the DSS	N	Numeric 15x
6	ErrorDescription	47	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

### 7.13.3 Withdraw a securities quantity from a pending securities lending application

#### 7.13.3.1 XML

##### 7.13.3.1.1 Request

Field Name	Field description	Mandatory Y(es)/N(o)	Applicable Values
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<b>SecuritiesLendingActionRequest</b>						Y	
→	<b>RequestId</b>				Request identifier. Provided by the Participant . Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>				Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b>				Type of lending action	Y	Alphanumeric 2x <b>02</b> = Withdraw security quantity from pending securities lending application
	→	<b>LendingActionParameters</b>					

		→	<b>UnlockQuantityParameters</b>				
			→	<b>DSSProvidedRegistrationId</b>	Application registration id, provided by the DSS	Y	Numeric 15x
			→	<b>Quantity</b>	Quantity to withdraw	Y	Numeric 15x

## 7.13.3.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>LendingAction</b>	Y	Alphanumeric 2x
→	<b>ErrorCode</b>	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
→	<b>DSSProvidedRegistrationId</b>	N	Numeric 15x
→	<b>ErrorDescription</b>	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.13.3.215022

## 7.13.3.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x 02 = Withdraw security quantity from pending securities lending application
5	DSSProvidedRegistrationId	32	15			Application registration id, provided by the DSS	Y	Numeric 15x
6	Quantity	47	15			Quantity to withdraw	Y	Numeric 15x

## 7.13.3.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the	Y	Alphanumeric 15x

						Participant in the request. Returned by the API in the response.		
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x
5	ErrorCode	32	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
6	DSSProvidedRegistrationId	47	15			Application registration id, provided by the DSS	N	Numeric 15x
6	ErrorDescription	47	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

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### 7.13.4 Lender's Exercise

#### 7.13.4.1 XML

##### 7.13.4.1.1 Request

Field Name	Field Descriptio	Mandator y	Applicable Values
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					n	Y(es)/N(o)	
<b>SecuritiesLendingActionRequest</b>						Y	
→	<b>RequestId</b>				Request identifier. Provided by the Participant . Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>				Request identifier. Provided by the Participant . Returned by the API in the response.	Y	Alphanumeric 10x
→	<b>LendingAction</b>				Type of lending action	Y	Alphanumeric 2x <b>05</b> = Lender exercise
	→	<b>LendingActionParameters</b>					
		→	<b>ExerciseQuantityParameters</b>				
			→	<b>DSSProvidedRegistrationId</b>	Application registration id, provided by the DSS	Y	Numeric 15x
			→	<b>Quantity</b>	Quantity	Y	Numeric 15x

					to exercise		
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## 7.13.4.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b> Type of lending action	Y	Alphanumeric 2x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
→	<b>DSSProvidedRegistrationId</b> Application registration id, provided by the DSS	N	Numeric 15x
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.13.4.2 15022

## 7.13.4.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code		1014
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the	Y	Alphanumeric 10x

						request is placed. This is a DSS operator's code.		
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x 05 = Lender Exercise
5	DSSProvidedRegistrationId	32	15			Application registration id, provided by the DSS	Y	Numeric 15x
6	Quantity	47	15			Quantity to exercise	Y	Numeric 15x

## 7.13.4.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x
5	ErrorCode	32	15			Error Code	Y	Alphanumeric 15x. SUCCESS or error code from <a href="#">Appendix II: Error Codes</a>
6	DSSProvidedRegistrationId	47	15			Application registration id,	N	Numeric 15x

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6	<b>ErrorDescription</b>	47	200	provided by the DSS	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
				Description and additional information for the <b>ErrorCode</b> field		

### 7.13.5 Alter the lender Custodian of a securities lending application

#### 7.13.5.1 XML

##### 7.13.5.1.1 Request

Field Name				Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionRequest</b>					Y	
→	<b>RequestId</b>			Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>			Code of the Participant	Y	Alphanumeric 10x

					behalf of which the request is placed. This is a DSS operator's code.		
→	<b>LendingAction</b>				Type of lending action	Y	Alphanumeric 2x <b>80</b> = Alter lender Custodian securities lending application
	→	<b>LendingActionParameters</b>				Y	
		→	<b>TransferLendingApplicationParameters</b>			Y	
			→	<b>DSSProvidedRegistrationId</b>	Application registration id, provided by the DSS	Y	Numeric 15x
			→	<b>DestinationCustodianId</b>	New lender Custodian	Y	Alphanumeric 10x

7.13.5.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesLendingActionResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x

		Participant in the request. Returned by the API in the response.		
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>LendingAction</b>	Type of lending action	Y	Alphanumeric 2x
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. Alphanumeric 15x. <b>SUCCESS</b> or error code from <a href="#">Appendix II: Error Codes</a>
→	<b>DSSProvidedRegistrationId</b>	Application registration id, provided by the DSS	N	Numeric 15x
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

### 7.13.5.215022

#### 7.13.5.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code		1015
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>LendingAction</b>	30	2			Type of lending action	Y	Alphanumeric 2x <b>80</b> = Alter lender

								Custodian securities lending application
5	DSSProvidedRegistrationId	32	15			Application registration id, provided by the DSS	Y	Numeric 15x
6	DestinationCustodianId	47	10			New lender Custodian	Y	Alphanumeric 10x

## 7.13.5.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code		1015
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	LendingAction	30	2			Type of lending action	Y	Alphanumeric 2x
5	ErrorCode	32	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
6	DSSProvidedRegistrationId	47	15			Application registration id, provided by the DSS	N	Numeric 15x
6	ErrorDescription	47	200			Description and additional information for the	N	Alphanumeric 200x

						<b>ErrorCode</b> field	Description of the ErrorCode or empty in case of <b>SUCCESS</b>
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## 7.14 Investor Details Update

This service, allows users to update values on specific investor-related registry details. These details are coded as fields and are the same as those described in the relevant file specification provided in the file specification document, already used by the DSS Participants for exchanging information with the DSS by importing/exporting files, via the current DSS GUI client. For more information on these formats please refer to the latest version of the relative user manual [here](#)

### 7.14.1 XML

#### 7.14.1.1 Request

Field Name		Field Description		Mandatory Y(es)/N(o)	Applicable Values
<b>UpdateInvestorRequest</b>				Y	
→	<b>RequestId</b>		Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>		Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>UpdateApplicationId</b>		Update request identifier	Y	Numeric 15x
→	<b>InvestorCode</b>		DSS Investor Code	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>		Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>Fields</b>			Y	
	→	<b>Field</b>		Y	
		→	<b>Code</b>	Y	Numeric 2x
		→	<b>OldValue</b>	N	Alphanumeric (size depends on field)



		→	<b>NewValue</b>	New field value	N	code) Alphanumeric (size depends on field code)
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### 7.14.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>UpdateInvestorResponse</b>		Y	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>UpdateApplicationId</b> Update request identifier	Y	Alphanumeric 15x
→	<b>InvestorCode</b> DSS Investor Code	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b> Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>ErrorCode</b> Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or an error code from <a href="#">Appendix II: Error Codes</a>
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.14.2 ISO 15022

### 7.14.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code	Y	0011
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier.	Y	Alphanumeric

						Provided by the Participant in the request. Returned by the API in the response.		15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	UpdateApplicationId	30	15			Update request identifier	Y	Numeric 15x
5	InvestorCode	45	10			DSS Investor Code	Y	Alphanumeric 10x
6	SafekeepingAccount	55	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
7	Code	65	2			Code of field to be updated	Y	Numeric 2x
8	OldValue		X			Old field value	N	Alphanumeric (size depends on field code)
9	NewValue		X			New field value	N	Alphanumeric (size depends on field code)

#### 7.14.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0011
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the	Y	Alphanumeric 10x

						request is placed. This is a DSS operator's code.		
4	<b>UpdateApplicationId</b>	30	15			Update request identifier	Y	Numeric 15x
5	<b>InvestorCode</b>	45	10			DSS Investor Code	Y	Alphanumeric 10x
6	<b>SafekeepingAccount</b>	55	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
7	<b>ErrorCode</b>	65	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or an error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
8	<b>ErrorDescription</b>	80	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

### 7.15 TIN Management.

A user can utilize this service to perform any of the following TIN management actions:

- TIN-Taxation Country pair registration.

- TIN-Taxation Country pair deactivation.

The size and structure of the request messages depends on the lending action requested, however the response messages have identical size and structure regardless of the requested action.

## 7.15.1 XML

### 7.15.1.1 Request

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>TINManagementAction Response</b>			Y	
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x
→	<b>TINManagementAction</b>	TIN management action type	Y	Alphanumeric 1x I = TIN-Taxation Country pair registration D = TIN-Taxation

						Country pair deactivation
→	<b>TaxationCountry</b>			Taxation Country	Y	Alphanumeric 2x (From DSS Coding.)
→	<b>TINManagementActionParameters</b>				N	Required only when <b>TINManagementAction = I</b>
	→	<b>RegisterTINParameters</b>			Y	
		→	<b>TIN</b>	TIN	Y	Alphanumeric 15x or indication 'NOT EXISTING'
		→	<b>TaxationDepartment</b>	Taxation Department	Y	Alphanumeric 15x or indication 'NOT EXISTING'

### 7.15.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>TINManagementActionResponse</b>		Y	
→	<b>RequestId</b>	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Y	Alphanumeric 10x
→	<b>SafekeepingAccount</b>	Y	Alphanumeric 10x
→	<b>TINManagementAction</b>	Y	Alphanumeric 1x I = TIN-Taxation Country pair registration D = TIN-Taxation Country pair deactivation
→	<b>TaxationCountry</b>	Y	Alphanumeric 2x (From DSS Coding.)

→	<b>ErrorCode</b>	Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or an error code from <a href="#">Appendix II: Error Codes</a>
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.15.2 ISO 15022

### 7.15.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service Code	Y	1017
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>SafekeepingAccount</b>	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	<b>TINManagementAction</b>	40	1			TIN management action type	Y	Alphanumeric 1x I = TIN-Taxation Country pair registration D = TIN-Taxation

								Country pair deactivation
6	TaxationCountry	41	2			Taxation Country	Y	Alphanumeric 2x (From DSS Coding.)
7	TIN	43	15			TIN	Y	Alphanumeric 15x or indication 'NOT EXISTING'
8	TaxationDepartment	58	15			Taxation Department	Y	Alphanumeric 15x or indication 'NOT EXISTING'

### 7.15.2.2 Response

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service Code	Y	1017
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	SafekeepingAccount	30	10			Investor securities account number in the DSS	Y	Alphanumeric 10x
5	TINManagementAction	40	1			TIN management action type	Y	Alphanumeric 1x I = TIN-Taxation Country pair registration D = TIN-Taxation Country pair

								deactivation
6	TaxationCountry	41	2			Taxation Country	Y	Alphanumeric 2x (From DSS Coding.)
7	ErrorCode	43	15			Error code	Y	Alphanumeric 15x. <b>SUCCESS</b> or an error code from <a href="#">Appendix II: Error Codes</a> <del>Appendix II: Error Codes</del>
8	ErrorDescription	58	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>



## 7.16 Securities Blocking

By using this service, a user can block securities quantities of customer accounts. For example, such blocking usually takes place in the context of corporate action. The blocking reason is mandatorily stated in the service messages.

### 7.16.1 XML

#### 7.16.1.1 Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesBlockingRequest</b>		<u>Y</u>	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	<u>Y</u>	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	<u>Y</u>	Alphanumeric 10x
→	<b>SafekeepingAccount</b> Investor securities account number in the DSS	<u>Y</u>	Alphanumeric 10x
→	<b>ISIN</b> ISIN of blocked securities	<u>Y</u>	Alphanumeric 12x
→	<b>Quantity</b> Quantity to block	<u>Y</u>	Numeric 15
→	<b>BlockingReason</b> Reason for blocking	<u>Y</u>	Alphanumeric 2x <b>02</b> = Due to preference rights
→	<b>CorporateActionId</b> Corporate Action DSS ID	<u>Y</u>	Numeric 10
→	<b>Remarks</b> Comments	<u>N</u>	Alphanumeric 80x

#### 7.16.1.2 Response

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>SecuritiesBlockingResponse</b>		<u>N</u>	
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	<u>Y</u>	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is	<u>Y</u>	Alphanumeric 10x

		<u>placed. This is a DSS operator's code.</u>		
→	<b>SafekeepingAccount</b>	<u>Investor securities account number in the DSS</u>	<u>Y</u>	<u>Alphanumeric 10x</u>
→	<b>ISIN</b>	<u>ISIN of blocked securities</u>	<u>Y</u>	<u>Alphanumeric 12x</u>
→	<b>Quantity</b>	<u>Quantity to block</u>	<u>Y</u>	<u>Numeric 15</u>
→	<b>BlockingReason</b>	<u>Reason for blocking</u>	<u>Y</u>	<u>Alphanumeric 2x</u> <u>02 = Due to preference rights</u>
→	<b>CorporateActionId</b>	<u>Corporate Action DSS ID</u>	<u>Y</u>	<u>Numeric 10</u>
→	<b>EncumbranceDSSId</b>	<u>Blocking ID</u> <u>(Provided by the DSS upon successful blocking)</u>	<u>N</u>	<u>Numeric 10</u>
→	<b>ErrorCode</b>	<u>Error Code</u>	<u>Y</u>	<u>Alphanumeric 15x.</u> <u>SUCCESS or error code from</u> <u>Appendix II: Error Codes</u>
→	<b>ErrorDescription</b>	<u>Description and additional information for the ErrorCode field</u>	<u>N</u>	<u>Alphanumeric 200x</u> <u>Description of the ErrorCode or</u> <u>empty in case of SUCCESS</u>

## 7.16.2 ISO 15022

### 7.16.2.1 Request

<u>Line</u>	<u>Field Name</u>	<u>Position</u>	<u>Size</u>	<u>Padding</u>	<u>Padding Character</u>	<u>Field Description</u>	<u>Mandatory Y(es)/N(o)</u>	<u>Applicable Values</u>
<u>1</u>	<u>ServiceCode</u>	<u>1</u>	<u>4</u>			<u>Service Code</u>	<u>Y</u>	<u>1002</u>
<u>2</u>	<u>RequestId</u>	<u>5</u>	<u>15</u>	<u>L</u>	<u>&lt;SPACE&gt;</u>	<u>Request identifier. Provided by the Participant in the request. Returned by the API in the response.</u>	<u>Y</u>	<u>Alphanumeric 15x</u>
<u>3</u>	<u>ParticipantId</u>	<u>20</u>	<u>10</u>			<u>Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.</u>	<u>Y</u>	<u>Alphanumeric 10x</u>
<u>4</u>	<u>SafekeepingAccount</u>	<u>30</u>	<u>10</u>			<u>Investor securities account number in the DSS</u>	<u>Y</u>	<u>Alphanumeric 10x</u>
<u>5</u>	<u>ISIN</u>	<u>40</u>	<u>12</u>			<u>ISIN of blocked securities</u>	<u>Y</u>	<u>Alphanumeric 12x</u>
<u>6</u>	<u>Quantity</u>	<u>52</u>	<u>15</u>	<u>L</u>	<u>0 or &lt;SPACE&gt;</u>	<u>Quantity to block</u>	<u>Y</u>	<u>Numeric 15</u>
<u>7</u>	<u>BlockingReason</u>	<u>67</u>	<u>2</u>			<u>Reason for blocking</u>	<u>Y</u>	<u>Alphanumeric 2x</u> <u>02 = Due to preference rights</u>

<u>8</u>	<u>CorporateActionId</u>	<u>69</u>	<u>10</u>			<u>Corporate Action DSS ID</u>	<u>Y</u>	<u>Numeric 10</u>
<u>9</u>	<u>Remarks</u>	<u>79</u>	<u>80</u>			<u>Comments</u>	<u>N</u>	<u>Alphanumeric 80x</u>

7.16.2.2 Response

<u>Line</u>	<u>Field Name</u>	<u>Position</u>	<u>Size</u>	<u>Padding</u>	<u>Padding Character</u>	<u>Field Description</u>	<u>Mandatory Y(es)/N(o)</u>	<u>Applicable Values</u>
<u>1</u>	<u>ServiceCode</u>	<u>1</u>	<u>4</u>			<u>Service Code</u>	<u>Y</u>	<u>1002</u>
<u>2</u>	<u>RequestId</u>	<u>5</u>	<u>15</u>	<u>L</u>	<u>&lt;SPACE&gt;</u>	<u>Request identifier. Provided by the Participant in the request. Returned by the API in the response.</u>	<u>Y</u>	<u>Alphanumeric 15x</u>
<u>3</u>	<u>ParticipantId</u>	<u>20</u>	<u>10</u>			<u>Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.</u>	<u>Y</u>	<u>Alphanumeric 10x</u>
<u>4</u>	<u>SafekeepingAccount</u>	<u>30</u>	<u>10</u>			<u>Investor securities account number in the DSS</u>	<u>Y</u>	<u>Alphanumeric 10x</u>
<u>5</u>	<u>ISIN</u>	<u>40</u>	<u>12</u>			<u>ISIN of blocked securities</u>	<u>Y</u>	<u>Alphanumeric 12x</u>
<u>6</u>	<u>Quantity</u>	<u>52</u>	<u>15</u>	<u>L</u>	<u>&lt;SPACE&gt;</u>	<u>Quantity to block</u>	<u>Y</u>	<u>Numeric 15</u>
<u>7</u>	<u>BlockingReason</u>	<u>67</u>	<u>2</u>			<u>Reason for blocking</u>	<u>Y</u>	<u>Alphanumeric 2x</u> <u>02 = Due to preference rights</u>
<u>8</u>	<u>CorporateActionId</u>	<u>69</u>	<u>10</u>	<u>L</u>	<u>&lt;SPACE&gt;</u>	<u>Corporate Action DSS ID</u>	<u>Y</u>	<u>Numeric 10</u>
<u>9</u>	<u>ErrorCode</u>	<u>79</u>	<u>15</u>			<u>Error Code</u>	<u>Y</u>	<u>Alphanumeric 15x.</u> <u>SUCCESS or error code from Appendix II: Error Codes</u>
<u>10</u>	<u>EncumbranceDSSId</u>	<u>94</u>	<u>10</u>	<u>L</u>	<u>&lt;SPACE&gt;</u>	<u>Blocking ID (Provided by the DSS upon successful blocking)</u>	<u>N</u>	<u>Numeric 10</u>
<u>10</u>	<u>ErrorDescription</u>	<u>94</u>	<u>200</u>			<u>Description and additional information for the ErrorCode field</u>	<u>N</u>	<u>Alphanumeric 200x</u> <u>Description of the ErrorCode or empty in case of SUCCESS</u>

~~7.16~~7.17 Queries

By using this service, a Participant is given the ability to gather information from the DSS by means of prefabricated queries. Parameters for each query request message consist of the search criteria (according to the query type) along with an indication on how the applicant wishes to receive the results of the query. Replies to queries are contained either within one or more MT599 or XML messages or within datafiles (stored in the SFTP data directory).

The following table depicts the possible different output data formats according to the different message exchange modes:

Data Format	Message format		Output files to FTP server	File extension
	MT599	XML		
Legacy	✓	✗	✓	.lgc
CSV	✓	✗	✓	.csv
XML	✗	✓	✓	.xml

In the preceding table, the term **Legacy** refers to the file formats already used by the Participants for file-based information exchange with the DSS, via the current GUI client. For more information on these formats please refer to the latest version of the relative user manual [here](#)

~~7.16.1~~7.17.1 Information on Investor Shares and Securities Account~~7.16.1.1~~7.17.1.1 XML~~7.16.1.1.1~~7.17.1.1.1 Request

	Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryRequest</b>					
→	<b>RequestId</b>		Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>		Code of the Participant on behalf of which the	Y	Alphanumeric 10x

				request is placed. This is a DSS operator's code.		
→	<b>QueryType</b>			Query Type code	Y	<b>0008</b>
→	<b>OutputFormat</b>			Desired response format	Y	When <b>OutputDestination =0</b> then either of the following  0=Legacy 1=XML 2=CSV  When <b>OutputDestination =1</b> then  1=XML
→	<b>OutputDestination</b>			Desired output channel for the response	Y	0=Datafile 1=Message(s)
→	<b>QueryCriteria</b>				Y	
	→	<b>Query0008Criteria</b>			Y	
		→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x or %= all
			<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
			<b>RegistrationDate</b>	Account registration date	Y	Numeric Form DDMMYYYY or % = all

7.16.1.1.27.17.1.1.2 Response when results delivered in datafiles

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResponse</b>			
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x
→	<b>ResponseEnvelopeIdentifier</b> Datafile name	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

7.16.1.1.37.17.1.1.3 Response when results delivered in (a) message(s)

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable values
<b>QueryResult</b>	Root element	Y	
@RequestId	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
@ParticipantId	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
@Total	Total number of records retrieved.	Y	Numeric 10x

→	Query0008Result					
	→	<b>Line</b>		Root element line	N	
		<b>@Count</b>		Current line's serial number	Y	Numeric 10x
		→	<b>Participant Id</b>	Participant code. This is a DSS operator's code	N	Alphanumeric 10x
		→	<b>SN</b>	Record serial number	N	Numeric 10x
		→	<b>InvestorCode</b>	DSS Investor Code	N	Alphanumeric 10x
		→	<b>LastOrBrandName</b>	Last name/Brand Name	N	Alphanumeric 200x
		→	<b>FirstName</b>	First Name	N	Alphanumeric 30x
		→	<b>FathersName</b>	Father's name	N	Alphanumeric 15x
		→	<b>InvestorAbbreviation</b>	Investor Abbreviation	N	Alphanumeric 15x
		→	<b>TIN</b>	Tax Identification Number	N	Alphanumeric 15x
		→	<b>TaxationDept.</b>	TAX Office	N	Alphanumeric 15x
		→	<b>InvestorType</b>	Investor type	N	1 = Physical entity (individual) share 2 = Legal entity (organization) share 3 = Co-owners Investor share 5 = Joint Investor share
		→	<b>OrganizationType</b>	Organization type	N	Alphanumeric 15x
		→	<b>OccupationOrBusinessDomain</b>	Occupation/domain	N	Alphanumeric 25x
		→	<b>Domicile</b>	Headquarter	N	Alphanumeric 80x

	→	<b>OrganizationContactPoint</b>	Contact person	N	Alphanumeric 60x
	→	<b>Citizenship</b>	Nationality	N	Alphanumeric 2x
	→	<b>IDCertificateType</b>	Identification certificate type	N	1 = ID 2 = Passport 3 = Organization registration number 4 = Commercial Registry Number 9 = Other
	→	<b>IDCertificateCode</b>	Identification Certificate Number	N	Alphanumeric 25x
	→	<b>IDCertificateIssuanceDate</b>	Identification Certificate issuing date	N	Numeric Form DDMMYYYY
	→	<b>IDIssuer</b>	Identification Certificate Issuer	N	Alphanumeric 60x
	→	<b>IDIssuanceCountry</b>	Identification Certificate issuing country	N	Alphanumeric 2x
	→	<b>DateOfBirthOrFoundation</b>	Date of birth or Foundation	N	Numeric Form DDMMYYYY
	→	<b>StreetAndNumberOfResidence</b>	Number and Street of investor's residence	N	Alphanumeric 40x
	→	<b>PostalCodeOfResidence</b>	Investor's postal code	N	Alphanumeric 10x
	→	<b>CityOfResidence</b>	Investor's City	N	Alphanumeric 20x
	→	<b>CountryOfResidence</b>	Investor's Country	N	Alphanumeric 2x
	→	<b>InvestorTelephone</b>	Investor's Telephone number	N	Alphanumeric 15x
	→	<b>InvestorFAX</b>	Investor's fax number	N	Alphanumeric 15x
	→	<b>InvestorE-mail</b>	Investor's e-mail address	N	Alphanumeric 64x
	→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	N	Alphanumeric 10x



	→	<b>CorrespondanceRecipient</b>	Correspondence recipient	N	Alphanumeric 60x
	→	<b>NumberAndStreetOfCorresp.</b>	Number and Street of Recipients Address	N	Alphanumeric 40x
	→	<b>PostalCodeOfCorresp.</b>	Recipients Postal Code	N	Alphanumeric 10x
	→	<b>CityOfCorresp.</b>	Recipients City	N	Alphanumeric 20x
	→	<b>CountryOfCorresp.</b>	Recipients Country	N	Alphanumeric 2x
	→	<b>Corresp.RecipientTelephone</b>	Recipients Telephone number	N	Alphanumeric 15x
	→	<b>Corresp.RecipientFAX</b>	Recipients FAX number	N	Alphanumeric 15x
	→	<b>InvestorCodeInTradingVenue</b>	Investor's code in the OASIS trading system	N	Alphanumeric 12x
	→	<b>RegistrationApplicationCode</b>	Registration Application code	N	Alphanumeric 15x
	→	<b>Custodian</b>	Custodian	N	Alphanumeric 69x
	→	<b>InvestorCodeCheckDigit</b>	Investor's share code check digit	N	Alphanumeric 1x
	→	<b>SafekeepingAccountCheck Digit</b>	Security Account Check digit	N	Alphanumeric 1x
	→	<b>InvestorCodeValidityStatus</b>	Investor's Share Validity Status	N	Alphanumeric 1x
	→	<b>SafekeepingAccountValidityStatus</b>	Account status confirmation statement for security account	N	Alphanumeric 1x
	→	<b>CountryOfTaxation</b>	Taxation country	N	Alphanumeric 2x
	→	<b>ReceiveCashProceedsViaPartipant</b>	Participation in financial distribution	N	1 = Yes 0 = No
	→	<b>ParticipantsActivationDateOfStatementOfUse</b>	Validation date of Statement of use	N	Numeric Form DDMMYYYY
	→	<b>TaxEligible</b>	Indicates whether the investor is relieved from bond taxes	N	0 = Yes 1 = No

		→	<b>CoownershipInheritanceStatus</b>	Inheritance Term (Applicable only to Joint Investor Shares) Applying the condition that in case of death of one of the joint owners, securities are distributed automatically to the rest of the share owners in accordance with paragraph 1 of Article 2 of Law 5638/1932.	N	1 = Yes 0 = No
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7.16.1.27.17.1.2 [ISO 15022](#)

7.16.1.2.17.17.1.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	QueryType	30	4			Query type code	Y	0008
5	OutputFormat	34	1			Desired form of the output	Y	When OutputDestination=0 then either of the following  0=Legacy 1=XML

								<b>2=CSV</b>  When OutputDestination=1 then either of the following  <b>0=Legacy</b> <b>2=CSV</b>
6	OutputDestination	35	1			Desired output channel for the response	Y	<b>0=Data File</b> <b>1=Message(s)</b>
7	InvestorCode	36	10			DSS Investor Code	Y	Alphanumeric 10x or % = all
8	SafekeepingAccount	46	10			Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
9	RegistrationDate	56	8			Account date entry or % (for everything)	Y	Numeric Form DDMMYYYY or % = all

7-16.1.2-27.17.1.2.2 Response when results delivered in datafiles

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x

3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	Filename	45	200			Name of the generated file	N	Alphanumeric 200x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

7.16.1.2.37.17.1.2.3 Response when results delivered in (a) message(s)

7.16.1.2.47.17.1.2.4 Legacy format

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request	Y	Numeric 10x

						is placed. This is a DSS operator's code.		
4	LineCount	30	10	L	0	Line's serial number	Y	Numeric 10x
5	TotalRows	40	10	L	0	Total number of records retrieved.	Y	Numeric 10x
6	DataLine	50	1059 (This length does not include nested pairs of characters <Carriage Return> <Line Feed> containing these protocol implementations FIN field)			The field contains the result data, formatted as dictated by the specifications	N	Alphanumeric 1059x

[7.16.1.2.5](#) [7.17.1.2.5](#) CSV format

Same as legacy format, although specific fields in the field Dataline are separated by semicolon (;) characters.

[7.16.2](#) [7.17.2](#) **Investor Data Updates**

[7.16.2.1](#) [7.17.2.1](#) XML

[7.16.2.1.1](#) [7.17.2.1.1](#) Request

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
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QueryRequest						
→	<b>RequestId</b>			Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>QueryType</b>			Query type code	Y	<b>0013</b>
→	<b>OutputFormat</b>			Desirable format of Query response	Y	When <b>OutputDestination =0</b> then either of the following  <b>0</b> =Legacy <b>1</b> =XML <b>2</b> =CSV  When <b>OutputDestination =1</b> then  <b>1</b> =XML
→	<b>OutputDestination</b>			Desired output method for the response	Y	<b>0</b> =Datafile <b>1</b> =message(es)
→	<b>QueryCriteria</b>				Y	
	→	<b>Query0013Criteria</b>			Y	
		→	<b>ApplicationDateFrom</b>	Start Date of time range for the search	Y	Numeric Form DDMMYYYY
			<b>ApplicationDateTo</b>	End date of time range for the search	Y	Numeric Form DDMMYYYY
			<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x

						or % = all
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## 7.16.2.1.27.17.2.1.2 Response when results delivered in datafiles

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResponse</b>			
→	<b>RequestId</b> Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x
→	<b>ResponseEnvelopeIdentifier</b> Datafile name	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.16.2.1.37.17.2.1.3 Response when results delivered in (a) message(s)

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResult</b>	Root element	Y	
@RequestId	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
@ParticipantId	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x

	<b>@Total</b>		Total number of records retrieved.	Y	Numeric 10x
→	<b>Query0013Result</b>			Y	
	→	<b>Line</b>	Line root element	N	
		<b>@Count</b>	Line's serial number	Y	Numeric 10x
		→	<b>SN</b>	N	Numeric 10x
		→	<b>ParticipantId</b>	N	Numeric 10x
		→	<b>InvestorCode</b>	N	Alphanumeric 10x
		→	<b>SafekeepingAccount</b>	N	Alphanumeric 10x
		→	<b>ChangeDate</b>	N	Numeric Form DDMMYYYY
		→	<b>FieldCode</b>	N	Alphanumeric 2x
		→	<b>ReplacedValue</b>	N	Alphanumeric 200x
		→	<b>ReplacementValue</b>	N	Alphanumeric 200x

~~7.16.2.27.17.2.2~~ [ISO 15022](#)

~~7.16.2.2.17.17.2.2.1~~ [Request](#)

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x



3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	QueryType	30	4			Query Type code	Y	0013
5	OutputFormat	34	1			Desired Rely format	Y	When OutputDestination= 0 then either of the following  0=Legacy 1=XML 2=CSV  When OutputDestination= 1 then either of the following  0=Legacy 2=CSV
6	OutputDestination	35	1			Desired output method for the response	Y	0=Datafile 1=Message(es)
7	ApplicationDateFrom	36	8			Date from which updates are sought	Y	Numeric Form DDMMYYYY
8	ApplicationDateTo	44	8			Date until which updates are sought	Y	Numeric Form DDMMYYYY
9	InvestorCode	52	10			DSS Investor Code	Y	Alphanumeric 10x or % = all

~~7.16.2.2.27~~.17.2.2.2 Response when results delivered in datafiles

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	Filename	45	200			Name of the generated file	N	Alphanumeric 200x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

~~7.16.2.2.37~~.17.2.2.3 Response when results delivered in (a) message(s)

~~7.16.2.2.47~~.17.2.2.4 Legacy format

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
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1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Numeric 10x
4	LineCount	30	10	L	0	Line's serial number	Y	Numeric 10x
5	TotalRows	40	10	L	0	Total number of records retrieved.	N	Numeric 10x
6	DataLine 1	50	451 (this length does not include nested pairs of characters <Carriage Return> <Line Feed> containing these protocol implementations FIN field)			The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile ( Changes in Investor Accounts)	N	Alphanumeric 451x
7	LineCount	...	10	L	0	Line's serial number	N	Numeric 10x
8	TotalRows	...	10	L	0	Total number of records	N	Numeric 10x

9	<b>DataLine 2</b>	...	451	...	retrieved.	N	Alphanumeric 451x
...	...	...	...	...	The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile (Changes in Investor account)	...	...

[7.16.2.2.57.17.2.2.5](#) CSV format

Same as legacy format, although specific fields in the field Dataline are separated by semicolon (;) characters.

[7.16.37.17.3](#) **Information on Balances of Investors Securities Accounts**

[7.16.3.17.17.3.1](#) XML

[7.16.3.1.17.17.3.1.1](#) Request

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryRequest</b>				
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x

→	<b>QueryType</b>			Query type code	Y	<b>0010</b>
→	<b>OutputFormat</b>			Desired form of the response	Y	When <b>OutputDestination =0</b> then either of the following  <b>0</b> =Legacy <b>1</b> =XML <b>2</b> =CSV  When <b>OutputDestination =1</b> then  <b>1</b> =XML
→	<b>OutputDestination</b>			Desired output method for the response	Y	<b>0</b> =Datafile  <b>1</b> =Message(s)
→	<b>QueryCriteria</b>				Y	
	→	<b>Query0010Criteria</b>			Y	
		→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
			<b>ISIN</b>	The Security ISIN for which the balance is requested	Y	Alphanumeric 12x or % = all
			<b>BalanceType</b>	The balance type is requested	Y	Alphanumeric 4x or % = all

7.16.3.1.27.17.3.1.2 Response when results delivered in datafiles

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
QueryResponse			

→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x
→	<b>ResponseEnvelopIdentifier</b>	Datafile name	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

## 7.16.3.1.37.17.3.1.3 Response when results delivered in (a) message(s)

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResult</b>		Root element	Y	
	<b>@RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
	<b>@ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
	<b>@Total</b>	Total number of records retrieved	Y	Numeric 10x
→	<b>Query0010Result</b>		Y	
	→ <b>Line</b>	Line root element	N	

			<b>@Count</b>	Current line's serial number	Y	Numeric 10x
		→	<b>ParticipantId</b>	Operator code. This is a DSS operator's code.	N	Numeric 10x
		→	<b>SN</b>	Record 's serial number	N	Numeric 10x
		→	<b>InvestorCode</b>	DSS Investor Code	N	Alphanumeric 10x
		→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	N	Alphanumeric 10x
		→	<b>InvestorAbbreviation</b>	Investor abbreviation	N	Alphanumeric 15x
		→	<b>SecurityCode</b>	Value code	N	Alphanumeric 12x
		→	<b>BalanceType</b>	Balance code	N	Alphanumeric 4x
		→	<b>SettlementDate</b>	Settlement Date	N	Numeric Form DDMMYYYY
		→	<b>Quantity</b>	Quantity	N	Numeric 15x

[7.16.3.27.17.3.2](#) [ISO 15022](#)

[7.16.3.2.17.3.2.1](#) Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This	Y	Alphanumeric 10x

						is a DSS operator's code.		
4	QueryType	30	4			Query type code	Y	0010
5	OutputFormat	34	1			Desired form of the response	Y	When OutputDestination= 0 then either of the following  0=Legacy 1=XML 2=CSV  When OutputDestination= 1 then either of the following 0=Legacy 2=CSV
6	OutputDestination	35	1			Desired output method for the response	Y	0=Datafile 1=message(es)
7	SafekeepingAccount	36	10			Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
8	ISIN	46	12			The Security ISIN for which the balance is requested	Y	Alphanumeric 12x or % = all
9	BalanceType	58	4			The balance type for which the query is requested	Y	Alphanumeric 4x or % = all



## 7.16.3.2.27.17.3.2.2 Response when results delivered in datafiles

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	Filename	45	200			Name of the generated file	N	Alphanumeric 200x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the <b>ErrorCode</b> or empty in case of <b>SUCCESS</b>

## 7.16.3.2.37.17.3.2.3 Response when results delivered in (a) message(s)

## 7.16.3.2.47.17.3.2.4 Legacy format

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
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1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Numeric 10x
4	LineCount	30	10	L	0	Line's serial number	Y	Numeric 10x
5	TotalRows	40	10	L	0	Total number of records retrieved.	N	Numeric 10x
6	DataLine 1	50	95 (this length does not include nested pairs of characters <Carriage Return> <Line Feed> containing these protocol implementations FIN field)			The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile (Investor Balances)	N	Alphanumeric 95x
7	LineCount	...	10	L	0	Line's serial number	N	Numeric 10x
8	TotalRows	...	10	L	0	Total number of records retrieved	N	Numeric 10x

9	DataLine 2	...	95	...		The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile (Investor Balances)	N	Alphanumeric 95x
...	...	...	...	...	...	...	...	...

~~7.16.3.2.5~~ [7.17.3.2.5](#) CSV format

Same as legacy format, although specific fields in the field Dataline are separated by semicolon (;) characters.

~~7.16.4~~ [7.17.4](#) Transaction List

~~7.16.4.17~~ [7.17.4.1](#) XML

~~7.16.4.1.17~~ [7.17.4.1.1](#) Request

Field Name		Field Description		Mandatory Y(es)/N(o)	Applicable Values
<b>QueryRequest</b>					
→	RequestId		Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	ParticipantId		Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	QueryType		Query type code	Y	0009
→	OutputFormat		Desired form of the response	Y	When <b>OutputDestination=0</b> then either of the following

						<b>0=Legacy</b> <b>1=XML</b> <b>2=CSV</b>  When <b>OutputDestination</b> <b>=1</b> then  1=XML
→	<b>OutputDestination</b>			Desired output method for the response	Y	<b>0=File</b> <b>1=message(es)</b>
→	<b>QueryCriteria</b>				Y	
	→	<b>Query0009Criteria</b>			Y	
		→	<b>DateFrom</b>	Start date of a time range for a log was requested	Y	Numeric Form DDMMYYYY
		→	<b>DateTo</b>	Start date of a time range for a log was requested	Y	Numeric Form DDMMYYYY
		→	<b>TransactionType</b>	Kind of transaction for which a log has been requested	Y	Alphanumeric 8x or % = all
		→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
			<b>ISIN</b>	The Security ISIN for which a log was requested	Y	Alphanumeric 12x or % = all

7.16.4.1.27.17.4.1.2 Response when results delivered in datafiles

Field Name	Field Description	Mandatory	Premissible values
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Y(es)/N(o)				
<b>QueryResponse</b>				
→	<b>RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>ErrorCode</b>	Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b>	Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>
→	<b>ResponseEnvelopeIdentifier</b>	Datafile name	N	Alphanumeric 200x

7.16.4.1.37.17.4.1.3 Response when results delivered in (a) message(s)

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResult</b>		Root element	Y	
	<b>@RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
	<b>@ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
	<b>@Total</b>	Total number of records retrieved.	Y	Numeric 10x
→	<b>Query0009Result</b>		Y	

	→	<b>Line</b>	Line root element	N	
		<b>@Count</b>	Line serial number	Y	Numeric 10x
	→	<b>ParticipantId</b>	Operator Code. This is a DSS operator's code.	N	Numeric 10x
	→	<b>SN</b>	Record serial number	N	Numeric 10x
	→	<b>DSSTransactionType</b>	Transaction type code	N	Numeric 2x
	→	<b>DSSTransactionSubtype</b>	Transaction subtype Code	N	Numeric 6x
	→	<b>DSSTransactionDate</b>	Transaction Date	N	Numeric Form DDMMYYYY
	→	<b>DSSTransactionTime</b>	Transaction time	N	Numeric form HHMMSS
	→	<b>TransactionCode</b>	Transaction's serial number	N	Alphanumeric 10x
	→	<b>BookingOrder</b>	Action SN	N	Numeric 8x
	→	<b>InvestorCode</b>	DSS Investor Code	N	Alphanumeric 10x
	→	<b>SafekeepingAccount</b>	Investor securities account number in the DSS	N	Alphanumeric 10x
	→	<b>InvestorAbbreviation</b>	Investor Abbreviation	N	Alphanumeric 15x
	→	<b>BalanceType</b>	Balance code	N	Alphanumeric 4x
	→	<b>SecurityCode</b>	Security's code	N	Alphanumeric 12x
	→	<b>SettlementDate</b>	Settlement date	N	Numeric Form DDMMYYYY
	→	<b>BookingType</b>	Credit/debit	N	Alphanumeric 1x
	→	<b>Quantity</b>	Quantity	N	Numeric 15x

	→	<b>RecipientDSSParticipantID</b>	Recipient operator. This is a DSS operator's code.	N	Alphanumeric 10x
	→	<b>EncumbranceCode</b>	Serial number of encumbrance	N	Numeric 10x
	→	<b>TradingVenueCode</b>	Trading Venue Code	N	Alphanumeric 4x
	→	<b>TradingDate</b>	Trading date	N	Numeric Form DDMMYYYY
	→	<b>TradingCode</b>	Trade serial number	N	Numeric 7x
	→	<b>CorporateActionCode</b>	Serial number of corporate action	N	Numeric 6x
	→	<b>QuantityOfNewSecurities</b>	Quantity of new security	N	Numeric 15x
	→	<b>ValueOfNewSecurities</b>	Value of new securities	N	Numeric 15x

[7.16.4.2.17.4.2](#) [ISO 15022](#)

[7.16.4.2.17.4.2.1](#) Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	<b>ServiceCode</b>	1	4			Service code	Y	<b>0050</b>
2	<b>RequestId</b>	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	<b>ParticipantId</b>	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	<b>QueryType</b>	30	4			Query type code	Y	<b>0009</b>

5	OutputFormat	34	1			Desired form of the response	Y	When OutputDestination=0 then either of the following  0=Legacy 1=XML 2=CSV  When OutputDestination=1 then either of the following  0=Legacy 2=CSV
6	OutputDestination	35	1			Desired output method for the response	Y	0=File 1=Message(es)
7	DateFrom	36	8			Start date time range for which a log was requested	Y	Numeric Form DDMMYYYY
8	DateTo	44	8			Start date time range for which a log was requested	Y	Numeric Form DDMMYYYY
9	TransactionType	52	8			Type of transaction for which a log was requested	Y	Alphanumeric 8x or % = all
10	SafekeepingAccount	60	10			Investor securities account number in the DSS	Y	Alphanumeric 10x or % = all
11	ISIN	70	12			The Security ISIN for which a log was	Y	Alphanumeric 12x or



						requested		% = all
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## 7.16.4.2.27.17.4.2.2 Response when results delivered in datafiles

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	ErrorCode	30	15			Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	Filename	45	200			Name of the generated file	N	Alphanumeric 200x
5	ErrorDescription	45	200			Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

~~7.16.4.2.3~~7.17.4.2.3 Response when results delivered in (a) message(s)

~~7.16.4.2.4~~7.17.4.2.4 Legacy format

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Numeric 10x
4	LineCount	30	10	L	0	Line serial number	Y	Numeric 10x
5	TotalRows	40	10	L	0	Total number of records retrieved.	N	Numeric 10x
6	DataLine 1	50	211 (This length does not include nested pairs of characters <Carriage Return> <Line Feed> containing these protocol implementations)			The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile ( Investor's transactions)	N	Alphanumeric 211x

			ntations FIN field)					
7	LineCount	...	10	L	0	Line's serial number	N	Numeric 10x
8	TotalRows	...	10	L	0	Total number of records retrieved.	N	Numeric 10x
9	DataLine 2	...	211	...		The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile (Investor Transactions)	N	Alphanumeric2 11x
...	...	...	...	...	...	...	...	...

7.16.4.2.57.17.4.2.5 CSV format

Same as legacy format, but each field is separated by its predecessor and successor by the semicolon (;) character.

7.16.57.17.5 Joint investor share or co-owner share member lookup

7.16.5.17.17.5.1 XML

7.16.5.1.17.17.5.1.1 Request

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryRequest</b>				
→	<b>RequestId</b>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>QueryType</b>	Query type code	Y	<b>0011</b>
→	<b>OutputFormat</b>	Desired response format	Y	When <b>OutputDestination</b>

						=0 then either of the following  0=Legacy 1=XML 2=CSV  When <b>OutputDestination</b> =1 then  1=XML
→	<b>OutputDestination</b>			Desired output channel for the response	Y	0=File 1=message(es)
→	<b>QueryCriteria</b>				Y	
	→	<b>Query0011Criteria</b>			Y	
		→	<b>InvestorCode</b>	DSS Investor Code	Y	Alphanumeric 10x ñ % = all

7.16.5.1.27.17.5.1.2 Response when results delivered in datafiles

Field Name	Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResponse</b>			
→	<b>RequestId</b> Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
→	<b>ParticipantId</b> Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
→	<b>ErrorCode</b> Error Code	Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
→	<b>ErrorDescription</b> Description and additional information for the <b>ErrorCode</b> field	N	Alphanumeric 200x Description of the

				ErrorCode or empty in case of <b>SUCCESS</b>
→	<b>ResponseEnvelopeIdentifier</b>	Datafile name	N	Alphanumeric 200x

7.16.5.1.37.17.5.1.3 Response when results delivered in (a) message(s)

Field Name		Field Description	Mandatory Y(es)/N(o)	Applicable Values
<b>QueryResult</b>		Root element	Y	
	<b>@RequestId</b>	Request identifier. Provided by the Participant in the request. Returned by the API in the response.	Y	Alphanumeric 15x
	<b>@ParticipantId</b>	Code of the Participant on behalf of which the request is placed. This is a DSS operator’s code.	Y	Alphanumeric 10x
	<b>@Total</b>	Total number of records retrieved.	Y	Numeric 10x
→	<b>Query0011Result</b>			
	→ <b>Line</b>	Line root element	N	
	<b>@Count</b>	Line serial number	Y	Numeric 10x
	→ <b>ParticipantId</b>	Operator Code. This is a DSS operator’s code.	N	Numeric 10x
	→ <b>SN</b>	Record serial number	N	Numeric 10x
	→ <b>SafekeepingAccount</b>	Investor securities account number in the DSS	N	Alphanumeric 10x
	→ <b>InvestorCode</b>	DSS Investor Code	N	Alphanumeric 10x
	→ <b>OwnershipPercentage</b>	Ownership percentage	N	Numeric 6x
	→ <b>SafekeepingAccountCheck Digit</b>	Check digit on the new securities account.	N	Alphanumeric 1x

7.16.5.27.17.5.2 ISO 15022

7.16.5.2.17.17.5.2.1 Request

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050

2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant. Returned by the API in the response.	Y	Alphanumeric 15x
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed. This is a DSS operator's code.	Y	Alphanumeric 10x
4	QueryType	30	4			Query type code	Y	<b>0011</b>
5	OutputFormat	34	1			Desired response format	Y	When OutputDestination=0 then either of the following  0=Legacy 1=XML 2=CSV  When OutputDestination=1 then either of the following  0=Legacy 2=CSV
6	OutputDestination	35	1			Desired output channel for the response	Y	0=File 1=Message(es)
7	InvestorCode	36	10			DSS Investor Code	Y	Alphanumeric 10x ř % = all

7.16.5.2.27.17.5.2.2 Response when results delivered in datafiles

Line	Field Name	Position	Size	Padding	Padding	Field Description	Mandatory	Applicable
------	------------	----------	------	---------	---------	-------------------	-----------	------------

				Character		Y(es)/N(o)	Values
1	ServiceCode	1	4			Y	0050
2	RequestId	5	15	L	<SPACE>	Y	Alphanumeric 15x
3	ParticipantId	20	10			Y	Alphanumeric 10x
4	ErrorCode	30	15			Y	Alphanumeric 15x. <b>SUCCESS</b> or error code from Appendix II: Error Codes
5	Filename	45	200			N	Alphanumeric 200x
5	ErrorDescription	45	200			N	Alphanumeric 200x Description of the ErrorCode or empty in case of <b>SUCCESS</b>

7-16.5.2.37.17.5.2.3 Response when results delivered in (a) message(s)

7-16.5.2.47.17.5.2.4 Legacy format

Line	Field Name	Position	Size	Padding	Padding Character	Field Description	Mandatory Y(es)/N(o)	Applicable Values
1	ServiceCode	1	4			Service code	Y	0050
2	RequestId	5	15	L	<SPACE>	Request identifier. Provided by the Participant in the request.	Y	Alphanumeric 15x

						Returned by the API in the response.		
3	ParticipantId	20	10			Code of the Participant on behalf of which the request is placed.	Y	Numeric 10x
4	LineCount	30	10	L	0	Line's serial number	Y	Numeric 10x
5	TotalRows	40	10	L	0	Total number of records retrieved.	N	Numeric 10x
6	DataLine 1	50	47 (This length does not include nested pairs of characters <Carriage Return> <Line Feed> containing these protocol implementations FIN field)			The field contains the result data, formatted as dictated by the specifications	N	Alphanumeric 47x
7	LineCount	...	10	L	0	Line's serial number	N	Numeric 10x
8	TotalRows	...	10	L	0	Total number of records retrieved.	N	Numeric 10x
9	DataLine 2	...	47	...		The field contains the result data, formatted as dictated by the specifications of the corresponding DSS datafile	N	Alphanumeric 47x
...	...	...	...	...	...	...	...	...



[7.16.5.2.57.17.5.2.5](#) CSV format

Same as legacy format, although specific fields in the field **Dataline** are separated by semicolon (;) characters.

[7.16.6.17.6](#) Responses of the Query service

For a better understanding of the Query service behavior, the following paragraphs provide a number of example service responses to queries parameterized in different ways with regards to incoming message format (XML, FIN) and its **OutputFormat** and **OutputDestination** parameters. In these examples, parameter **QueryType** takes after value **0008** but the service behavior is the same regardless of the value of this parameter.

[7.16.6.17.6.1](#) XML message having *OutputFormat=1 (XML) and OutputDestination=1 (Messages)*[7.16.6.17.6.1.1](#) Successful search outcome

Response with one or more **QueryResult** messages:

```
<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="X" >
  <Query0008Result>
    <Line Count="X" >
      <ParticipantId>XXXXXXXXXX</ParticipantId>
      <SN>XXXXXXXXXX</SN>
      <InvestorCode>XXXXXXXXXX</InvestorCode>
      <LastOrBrandName>XXXXXXXXXX</LastOrBrandName>
      <FirstName>XXXXXXXXXX</FirstName>
      <FathersName>XXXXXXX</FathersName>
      <InvestorAbbreviation>XXXXXXXXXXXXXXXXXX</InvestorAbbreviation>
      <TIN>XXXXXXXXXX</TIN>
      <TaxationDept.>XXXXXXXXXX</TaxationDept.>
      <InvestorType>X</InvestorType>
      <OccupationOrBusinessDomain>XXXXXXXXXX</OccupationOrBusinessDomain>
      <Citizenship>XX</Citizenship>
      <IDCertificateType>X</IDCertificateType>
      <IDCertificateCode>XXXXXXXXXX</IDCertificateCode>
      <IDCertificateIssuanceDate>XXXXXXXXXX</IDCertificateIssuanceDate>
      <IDIssuer>XXXXXXXXXXXXXXXXXX</IDIssuer>
      <IDIssuanceCountry>XX</IDIssuanceCountry>
      <StreetAndNumberOfResidence>XXXXXXXXXXXXXXXXXX</StreetAndNumberOfResidence>
      <PostalCodeOfResidence>XXXXX</PostalCodeOfResidence>
      <CityOfResidence>XXXXX</CityOfResidence>
      <CountryOfResidence>XX</CountryOfResidence>
    </Line>
  </Query0008Result>
</QueryResult>
```

```

<InvestorTelephone>XXXXXXXXXXXX</InvestorTelephone>
<SafekeepingAccount>XXXXXXXXXXXX</SafekeepingAccount>
<CorrespondanceRecipient>XXXXXXXXXXXXXXXXXXXXXXXXXXXX</CorrespondanceRecipient>
<NumberAndStreetOfCorresp.>XXXXXXXXXXXXXXXXXXXX</NumberAndStreetOfCorresp.>
<PostalCodeOfCorresp.>XXXXX</PostalCodeOfCorresp.>
<CityOfCorresp.>XXXXX</CityOfCorresp.>
<CountryOfCorresp.>XX</CountryOfCorresp.>
<Corresp.RecipientTelephone>XXXXXXXXXXXX</Corresp.RecipientTelephone>
<InvestorCodeInTradingVenue>XXXXX</InvestorCodeInTradingVenue>
<RegistrationApplicationCode>XXXXXX</RegistrationApplicationCode>
<InvestorCodeCheckDigit>X</InvestorCodeCheckDigit>
<SafekeepingAccountCheckDigit>X</SafekeepingAccountCheckDigit>
<InvestorCodeValidityStatus>X</InvestorCodeValidityStatus>
<SafekeepingAccountValidityStatus>X</SafekeepingAccountValidityStatus>
<CountryOfTaxation>XX</CountryOfTaxation>
<ReceiveCashProceedsViaPartipant>X</ReceiveCashProceedsViaPartipant>
<ParticipantsActivationDateOfStatementOfUse>XXXXXXXXX</ParticipantsActivationDateOfStatementOfUse>
<RelievedFromBondTaxation>X</RelievedFromBondTaxation>

</Line>
</Query0008Result>
</QueryResult>

```

#### 7.16.6.1.27.17.6.1.2 No data found outcome

Response with a **QueryResult** message:

```

<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="0" >
  <Query0008Result></Query0008Result>
</QueryResult>

```

#### 7.16.6.1.37.17.6.1.3 Missing or invalid search criteria

Response with a **QueryResponse** message:

```

<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>CSD-01047</ErrorCode>
  <ErrorDescription>Missing or invalid search criteria</ErrorDescription>
</QueryResponse>

```

7.16.6.1.47.17.6.1.4 Invalid incoming message (XML validation error)

Response with a **GeneralErrorMessage** message:

```
<GeneralErrorMessage>
  <Error>
    XML document is not valid. ORA-31154: invalid XML document ORA-19202:
    Error occurred in XML processing LSX-00009: data missing for type
    "InvestorCodeOrWildcardType"
  </Error>
</GeneralErrorMessage>
```

7.16.6.27.17.6.2 XML message having *OutputFormat=0 (Legacy)*, *1 (XML)* or *2 (CSV)* and *OutputDestination=0 (File)*7.16.6.2.17.17.6.2.1 Successful search outcome7.16.6.2.1.17.17.6.2.1.1 *OutputFormat=0 (Legacy)*

Response with:

- A **QueryResponse** message:

```
<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>SUCCESS</ErrorCode>
  <ResponseEnvelopeIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.lgc</ResponseEnvelopeIdentifier>
</QueryResponse>
```

- And a legacy file.

7.16.6.2.1.27.17.6.2.1.2 *OutputFormat=1 (XML)*

Response with:

- A **QueryResponse** message

```
<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
```

```

    <ErrorCode>SUCCESS</ErrorCode>
    <ResponseEnvelopeIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.xml</ResponseEnvelopeIdentifier>
</QueryResponse>

```

- And an XML file of the following format :

```

<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="X" >
  <Query0008Result>
    <Line Count="X" >
      <ParticipantId>XXXXXXXXXX</ParticipantId>
      <SN>XXXXXXXXXX</SN>
      <InvestorCode>XXXXXXXXXX</InvestorCode>
      <LastOrBrandName>XXXXXXXXXX</LastOrBrandName>
      <FirstName>XXXXXXXXXX</FirstName>
      <FathersName>XXXXXXXXXX</FathersName>
      <InvestorAbbreviation>XXXXXXXXXXXXXXXXXX</InvestorAbbreviation>
      <TIN>XXXXXXXXXX</TIN>
      <TaxationDept.>XXXXXXXXXX</TaxationDept.>
      <InvestorType>X</InvestorType>
      <OccupationOrBusinessDomain>XXXXXXXXXX</OccupationOrBusinessDomain>
      <Citizenship>XX</Citizenship>
      <IDCertificateType>X</IDCertificateType>
      <IDCertificateCode>XXXXXXXXXX</IDCertificateCode>
      <IDCertificateIssuanceDate>XXXXXXXXXX</IDCertificateIssuanceDate>
      <IDIssuer>XXXXXXXXXXXXXXXXXX</IDIssuer>
      <IDIssuanceCountry>XX</IDIssuanceCountry>
      <StreetAndNumberOfResidence>XXXXXXXXXXXXXXXXXXXX</StreetAndNumberOfResidence>
      <PostalCodeOfResidence>XXXXXX</PostalCodeOfResidence>
      <CityOfResidence>XXXXXX</CityOfResidence>
      <CountryOfResidence>XX</CountryOfResidence>
      <InvestorTelephone>XXXXXXXXXXXXXXXXXX</InvestorTelephone>
      <SafekeepingAccount>XXXXXXXXXX</SafekeepingAccount>
      <CorrespondanceRecipient>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</CorrespondanceRecipient>
      <NumberAndStreetOfCorresp.>XXXXXXXXXXXXXXXXXXXX</NumberAndStreetOfCorresp.>
      <PostalCodeOfCorresp.>XXXXXX</PostalCodeOfCorresp.>
      <CityOfCorresp.>XXXXXX</CityOfCorresp.>
      <CountryOfCorresp.>XX</CountryOfCorresp.>
      <Corresp.RecipientTelephone>XXXXXXXXXXXXXXXXXX</Corresp.RecipientTelephone>
      <InvestorCodeInTradingVenue>XXXXXX</InvestorCodeInTradingVenue>
      <RegistrationApplicationCode>XXXXXXXXXX</RegistrationApplicationCode>
      <InvestorCodeCheckDigit>X</InvestorCodeCheckDigit>
    </Line>
  </Query0008Result>
</QueryResult>

```

```

    <SafekeepingAccountCheckDigit>X</SafekeepingAccountCheckDigit>
    <InvestorCodeValidityStatus>X</InvestorCodeValidityStatus>
    <SafekeepingAccountValidityStatus>X</SafekeepingAccountValidityStatus>
    <CountryOfTaxation>XX</CountryOfTaxation>
    <ReceiveCashProceedsViaParticipant>X</ReceiveCashProceedsViaParticipant>
    <ParticipantsActivationDateOfStatementOfUse>XXXXXXXXXX</ParticipantsActivationDateOfStatementOfUse>
    <RelievedFromBondTaxation>X</RelievedFromBondTaxation>
  </Line>
</Query0008Result>
</QueryResult>

```

#### 7.16.6.2.1.3 7.17.6.2.1.3 *OutputFormat=2 (CSV)*

Response with:

- A **QueryResponse** message

```

<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>SUCCESS</ErrorCode>
  <ResponseEnvelopeIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.csv</ResponseEnvelopeIdentifier>
</QueryResponse>

```

- And a CSV file (fields delimited with character ; )

#### 7.16.6.2.2 7.17.6.2.2 *No data found outcome*

#### 7.16.6.2.2.1 7.17.6.2.2.1 *OutputFormat=0 (Legacy)*

Response with:

- A **QueryResponse** message:

```

<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>SUCCESS</ErrorCode>

```

```
<ResponseEnvelopIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.lgc</ResponseEnvelopIdentifier>
</QueryResponse>
```

- And a legacy file.

*7.16.6.2.2.27.17.6.2.2.2.OutputFormat=1 (XML)*

Response with:

- A **QueryResponse** message:

```
<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>SUCCESS</ErrorCode>
  <ResponseEnvelopIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.xml</ResponseEnvelopIdentifier>
</QueryResponse>
```

- And an XML file of the following format :

```
<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="0" >
  <Query0008Result>
    </Query0008Result>
  </QueryResult>
```

*7.16.6.2.2.37.17.6.2.2.3.OutputFormat=2 (CSV)*

Response with:

- A **QueryResponse** message:

```
<QueryResponse>
  <RequestId>XX</RequestId>
  <ParticipantId>XXXXXXXXXX</ParticipantId>
  <ErrorCode>SUCCESS</ErrorCode>
  <ResponseEnvelopIdentifier>qry0008_NNN_NNN_YYYYMMDDHHMMSS.csv</ResponseEnvelopIdentifier>
</QueryResponse>
```



```

XXXXXXXXX
XXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXX X XXXXXXXX

XXXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXΣ
          XX
XXXXXXXXXXXXXXXXXXXX XXXX
X XXXXX XXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXX XXXXXXXX
XXXXXXXXXX XXXXX XXXXX
XXXXXXXXXXXXXXXXXXXX XXXXX
XXXXXXXXX
          XXXXXXXXXXXX
XXXXXXXXX
-}

```

7.16.6.3.1.27.17.6.3.1.2 OutputFormat=2 (CSV)

Response with one or more messages of the following format:

```

{1:F01HCSDGRAAAXX0000100001}{2:O5991126131021HCSDGRAOXAPI00001000011310211126N}{4:
{1:F01HCSDGRAAAXX0000100001}{2:O5991126131021HCSDGRAOXAPI00001000011310211126N}{4:
:20:A201205130073059
:21:TESTSEME0040
:79:0050 0000000000000000000000000000000000000000
00000000;000000000;XXXXXXXXXX;XXXXXXXXXX;XXXXXXXXXX
;XXXXXXXX;XXXXXXXXXXXXXXXXXX;XXXXXXXXXX;XXXXXXXXXX;X;;XXX
XXXXXXXX;;X;X;XXXXXXXX;XXXXXXXX;XXXXXXXXXXXXXXXX;XX;XX
XXXXXXXXXXXXXXXXXX;XXXXX;XXXXX;XX;XXXXXXXXXXXX;;XXXXXX
XXXXX;XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX;XXXXXXXXXXXXXXXXXX;X
XXXX;XXXXX;XX;XXXXXXXXXXXX;;XXXXX;XXXXXXXX;X;X;X;
XX;X;XXXXXXXX;X;;
-}

```



7.16.6.3.27.17.6.3.2 No data found outcome

For any value of the **OutputFormat** parameter, response with a messages of the following format:

```
{1:F01HCSDGRAAAAXX0000100001}{2:O5991945131017HCSDGRAOXAPI00001000011310171945N}{4:
:20:A201208170073051
:21:TESTSEME0040
:79:
-}
```

7.16.6.3.37.17.6.3.3 Missing or invalid search criteria

For any value of the **OutputFormat** parameter, response with a messages of the following format:

```
{1:F01HCSDGRAAAAXX0000100001}{2:O5991724131018HCSDGRAOXAPI00001000011310181724N}{4:
:20:A201208180073054
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXCSD-01047   Missin
g or invalid search criteria
-}
```

7.16.6.3.47.17.6.3.4 Invalid incoming message (XML validation error)

Response with a **GeneralErrorMessage** message:

```
<GeneralErrorMessage>
  <Error>
    XML document is not valid. ORA-31154: invalid XML document ORA-19202:
    Error occurred in XML processing LSX-00009: data missing for type
    "InvestorCodeOrWildcardType"
  </Error>
</GeneralErrorMessage>
```

7.16.6.47.17.6.4 *FIN message having OutputFormat=0 (Legacy), 1 (XML) or 2 (CSV) and OutputDestination=0 (File)*7.16.6.4.17.17.6.4.1 Successful search outcome7.16.6.4.1.17.17.6.4.1.1 *OutputFormat=0 (Legacy)*

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAAAXX0000100001}{2:O5991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXSUCCESS      qry000
8_NNN_NNN_YYYYMMDDHHMMDD.lgc
-}
```

- And a legacy file.

~~7.16.6.4.1.2~~7.17.6.4.1.2 *OutputFormat=1 (XML)*

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAAAXX0000100001}{2:O5991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXSUCCESS      qry000
8_NNN_NNN_YYYYMMDDHHMMDD.xml
-}
```

- And an XML file of the following format:

```
<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="X" >
  <Query008Result>
    <Line Count="X" >
      <ParticipantId>XXXXXXXXXX</ParticipantId>
      <SN>XXXXXXXXXX</SN>
      <InvestorCode>XXXXXXXXXX</InvestorCode>
      <LastOrBrandName>XXXXXXXXXX</LastOrBrandName>
      <FirstName>XXXXXXXXXX</FirstName>
      <FathersName>XXXXXX</FathersName>
      <InvestorAbbreviation>XXXXXXXXXXXXXXXXXX</InvestorAbbreviation>
      <TIN>XXXXXXXXXX</TIN>
      <TaxationDept.>XXXXXXXXXX</TaxationDept.>
      <InvestorType>X</InvestorType>
    </Line>
  </Query008Result>
</QueryResult>
```

```

<OccupationOrBusinessDomain>XXXXXXXX</OccupationOrBusinessDomain>
<Citizenship>XX</Citizenship>
<IDCertificateType>X</IDCertificateType>
<IDCertificateCode>XXXXXXXX</IDCertificateCode>
<IDCertificateIssuanceDate>XXXXXXXX</IDCertificateIssuanceDate>
<IDIssuer>XXXXXXXXXXXX</IDIssuer>
<IDIssuanceCountry>XX</IDIssuanceCountry>
<StreetAndNumberOfResidence>XXXXXXXXXXXXXXXXXX</StreetAndNumberOfResidence>
<PostalCodeOfResidence>XXXXX</PostalCodeOfResidence>
<CityOfResidence>XXXXX</CityOfResidence>
<CountryOfResidence>XX</CountryOfResidence>
<InvestorTelephone>XXXXXXXXXX</InvestorTelephone>
<SafekeepingAccount>XXXXXXXXXX</SafekeepingAccount>
<CorrespondanceRecipient>XXXXXXXXXXXXXXXXXXXXXXXXXXXX</CorrespondanceRecipient>
<NumberAndStreetOfCorresp.>XXXXXXXXXXXXXXXXXX</NumberAndStreetOfCorresp.>
<PostalCodeOfCorresp.>XXXXX</PostalCodeOfCorresp.>
<CityOfCorresp.>XXXXX</CityOfCorresp.>
<CountryOfCorresp.>XX</CountryOfCorresp.>
<Corresp.RecipientTelephone>XXXXXXXXXXXX</Corresp.RecipientTelephone>
<InvestorCodeInTradingVenue>XXXXX</InvestorCodeInTradingVenue>
<RegistrationApplicationCode>XXXXXXXX</RegistrationApplicationCode>
<InvestorCodeCheckDigit>X</InvestorCodeCheckDigit>
<SafekeepingAccountCheckDigit>X</SafekeepingAccountCheckDigit>
<InvestorCodeValidityStatus>X</InvestorCodeValidityStatus>
<SafekeepingAccountValidityStatus>X</SafekeepingAccountValidityStatus>
<CountryOfTaxation>XX</CountryOfTaxation>
<ReceiveCashProceedsViaPartipant>X</ReceiveCashProceedsViaPartipant>
<ParticipantsActivationDateOfStatementOfUse>XXXXXXXX</ParticipantsActivationDateOfStatementOfUse>
<RelievedFromBondTaxation>X</RelievedFromBondTaxation>
</Line>
</Query0008Result>
</QueryResult>

```

#### 7.16.6.4.1.3.7.17.6.4.1.3 OutputFormat=2 (CSV)

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAXX0000100001}{2:05991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065}
```

```
:21:TESTSEME0040  
:79:0050      XXXXXXXXXXXXSUCCESS   qry000  
8_NNN_NNN_YYYYMMDDHHMMDD.csv  
-}
```

- And a CSV file (fields delimited with character ; )

7.16.6.4.2.17.6.4.2 No data found outcome7.16.6.4.2.17.6.4.2.1 *OutputFormat=0 (Legacy)*

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAXX0000100001}{2:O5991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXSUCCESS   qry000
8_NNN_NNN_YYYYMMDDHHMMDD.lgc
-}
```

- And an empty legacy file

7.16.6.4.2.27.17.6.4.2.2 *OutputFormat=1 (XML)*

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAXX0000100001}{2:O5991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXSUCCESS   qry000
8_NNN_NNN_YYYYMMDDHHMMDD.xml
-}
```

- An XML file of the following format:

```
<QueryResult RequestId="XX" ParticipantId="XXXXXXXXXX" Total="0" >
  <Query0008Result>
  </Query0008Result>
</QueryResult>
```

7.16.6.4.2-37.17.6.4.2.3 OutputFormat=2 (CSV)

Response with:

- A message of the following format:

```
{1:F01HCSDGRAAAXX0000100001}{2:O5991208131021HCSDGRAOXAPI00001000011310211208N}{4:
:20:A201208101433065
:21:TESTSEME0040
:79:0050      XXXXXXXXXXXXSUCCESS   qry000
8_NNN_NNN_YYYYMMDDHHMMDD.csv
-}
```

- A CSV file containing only the column names.

7.16.6.4.37.17.6.4.3 Missing or invalid search criteria

Response with A QueryResponse message:

```
{1:F01HCSDGRAAAXX0000100001}{2:O5991724131018HCSDGRAOXAPI00001000011310181724N}{4:
:20:A201203010073054
:21:TESTSEME0040
:79:0050      51XXXXXXXXXXCSD-01047   Missin
g or invalid search criteria
-}
```

7.16.6.4.47.17.6.4.4 Invalid incoming message (XML validation error)Response with a **GeneralErrorMessage** message:

```
<GeneralErrorMessage>
  <Error>
    XML document is not valid. ORA-31154: invalid XML document ORA-
    19202: Error occurred in XML processing LSX-00009: data missing for type
    "InvestorCodeOrWildcardType"
  </Error>
</GeneralErrorMessage>
```

## 8 OTC Transaction Management

The API provides the ability to enter and manage OTC transactions through the exchange of ISO 15022 messages. In summary, the features offered are:

- OTC instruction entry (MT 540, MT 541, MT 542, MT 543 messages)
- Existing OTC instruction update (change of hold/release status of the instruction - MT 540, MT 541, MT 542, MT 543 messages, depending on the instruction entered)
- Existing OTC instruction cancellation (MT 540, MT 541, MT 542, MT 543 messages, depending on the instruction entered)
- Notification from the API about the change in the status of an instruction (e.g. from unmatched to matched - MT 548 message)
- Notification from the API regarding the entry of an instruction that concerns the Participant as counterparty (MT 578 message)
- Notification from the API on the settlement of an OTC transaction (MT 544, MT 545, MT 546, MT 547 messages, depending on the instruction entered)

For the aforementioned messages, the API implements a subset of the messaging standard ISO 15022. For each message, the fields used and their Applicable Values are summarized in the following chapters. Illustrative messaging scenarios are also given.

### 8.1 Model description

#### 8.1.1 Instruction entry

The member enters an instruction in the DSS (MT 540-543). After validation, the instruction is entered in the DSS and a status message is sent that confirms its successful reception (MT 548 - INST/PACK). In case of failure, a status message is sent describing the reasons for the entry failure (MT 548 - INST/REJT).

The instruction entered includes the value of the message unique ID (field SEME - 20C) assigned by the Participant. Subsequent references of messages to this instruction, either from the DSS or the Participant, must include this value for its successful correlation.

#### 8.1.2 Hold/Release Condition

The Participant has the option to enter an instruction with a status of either "Hold" or "Release". The "Hold" status implies postponing its settlement even if its matching criteria are met. For the successful settlement of the instruction, the status of both parts of the transaction must be "Release".

The instruction hold/release condition can be modified until the settlement date is reached and the instructions are locked by the settlement process. Subsequent changes can be made if the settlement process fails and the instruction is still active.

This functionality is implemented by the function (23G) field of MT 540-543 messages. The "PREA" value enters an instruction in "Hold" status while the "NEWM" value enters an instruction in "Release" status. To release an instruction with "Hold" status, a message is sent with a "NEWM" function associated with the previous "PREA" message. Respectively, to hold an instruction with "Release" status, a message is sent with a "PREA" function associated with the previous "NEWM" message.

Message Function	Linkages	Action
------------------	----------	--------

<b>NEWM</b>	-	Released instruction entry
<b>PREA</b>	-	Hold instruction entry
<b>NEWM</b>	<b>PREV</b>	Hold instruction updated to Released
<b>PREA</b>	<b>PREV</b>	Released instruction updated to Hold

### 8.1.3 Counterparties

For an instruction to be a valid it must include information for both contracting parties:

- The receiving agent (REAG)
- The delivering agent (DEAG)

The acceptable values for identifying Participants is either the Participant's BIC code or the Participant's DSS code. Also, information is necessary about the place of settlement (PSET) where the instruction will be settled. The only Applicable value is the BIC for each PSET. Further information on the custodian or the end investor is given optionally. The nexttable provides a mapping between counterparties and the settlement party qualifiers specified under ISO 15022. The following table provides a mapping of the format supported by the DSS with the syntax rules imposed under ISO 15022 (Option P, Q, R) and illustrative examples.

Role	Settlement Party Qualifier	Format
<b>Operator</b>	REAG/DEAG	PRCP, BIC
<b>Counterparty Operator</b>	REAG/DEAG	PRCP, BIC
<b>Operator Agent</b>	RECU/DECU	PRCP, BIC, FREE, DSS
<b>Counterparty Operator Agent</b>	RECU/DECU	PRCP, BIC, FREE, DSS
<b>Counterparty Operator Agent Customer</b>	BUYR/SELL	PRCP, BIC, FREE, DSS
<b>Place of Settlement</b>	PSET	BIC

Format	Description	ISO 15022 FORMAT (Field 95a)	Example
<b>PRCP</b>	Participant ID in the DSS	Option R: 4!c/8c/34x (Qualifier)(Data Source Scheme)(Proprietary Code)	:95R::REAG/HCS D/0000000001 (Data Source Scheme = HCS D for the Greek PSET)
<b>BIC</b>	Bank Identifier Code	Option P : 4!c//4!a2!a2!c[3!c] (Qualifier)(Identifier Code)	:95P::PSET//HCS DGRAAXX
<b>FREE</b>	Free text	Option Q :	:95Q::RECU//FREE TEXT



		4!c//4*35x (Qualifier)(Name and Address)	
<b>DSS</b>	Data Source Scheme	Option R: 4!c/8c/34x (Qualifier)(Data Source Scheme)(Proprietary Code)	:95R::DEAG/DTCYID/1234 (Data Source Scheme of foreign PSET)

#### 8.1.4 Instruction Matching

The instruction matching process is performed at regular intervals. All active OTC settlement instructions that have not been matched participate, irrespective of the hold condition (hold / release). After successful matching of an instruction, a MT 548 message is sent to the contracting Participants. Where an instruction is not matched, a MT 578 message is sent to the alleged counterparty Participant<sup>1</sup> referred by this instruction.

The fields used in instruction matching are described in the following table.

Instruction field	Counterparty instruction
Operator	Counterparty Operator
Type of instruction (Receipt/Delivery)	Type of instruction (Receipt/Delivery) (It must be the opposite)
Delivery with or without payment	Delivery with or without payment
Reason of transaction	Reason of transaction
Counterparty Operator	Operator
Place of transaction	Place of transaction
Date of transaction	Date of transaction
Settlement date	Settlement date
Security ISIN	Security ISIN
Quantity	Quantity
Monetary Value	Monetary Value
Settlement Value Currency	Settlement Value Currency
External matching ID	External matching ID

<sup>1</sup> The message is sent only once during the first unsuccessful identification cycle.

### 8.1.5 Cancellation of Instructions

For instructions which are not matched, it is possible to be canceled directly by the Participant that entered them (MT 540-543 - function CANC). Matched instructions<sup>2</sup> can be canceled only with the consent of the counterparty Participant.

### 8.1.6 Transaction Settlement

The settlement process involves the change of ownership of securities and the transfer of monetary liabilities (only for transactions againstpayment) between counterparties.

To settle an OTC transaction the following criteria must be met:

- Both instructions must be matched
- Both instructions must be released for settlement
- The current date must be equal to the settlement date
- There are available securities and cash balances

After successful settlement of a transaction, a MT 544-547 confirmation message is sent to the contracting Participants.

### 8.1.7 Instruction Status Table

Next follows a table with Applicable statuses for the holding condition, the processing status of the instruction and cancellation status. The columns of the table are independent amongst them:

Hold Condition	Instruction Status	Cancellation Status
Hold (H)	Not processed (NP)	Canceled (C)
Release (R)	Unmatched (U)	Active - Active (A)
	Matched (M)	Cancellation Requested (CR)
	Settled (S)	Canceled by CSD (CC)
	Failed (F)	

<sup>2</sup> If not already settled or if the settlement process is not active.

Possible changes in the status of an instruction as a result of actions by one of the counterparties or the system are outlined in the following table.

Action		Hold Condition	Instruction Status	Cancellation Status
Instruction entry	BEFORE	-	-	-
	AFTER	H/R	NP	A
Instruction Matching	BEFORE	H/R	U/NP	A
	AFTER	H/R	M/U	A
Instruction settlement	BEFORE	R	M/F	A/CR
	AFTER	R	S/F	A/CR
Cancellation of unmatched instruction (unilateral)	BEFORE	H/R	U/NP	A/C
	AFTER	H/R	U/NP	A/C
Cancellation request for matched instruction	BEFORE	H/R	M/F	A (and counterparty instruction A)
	AFTER	H/R	M/F	CR (and counterparty instruction A)
Acceptance of matched instruction cancellation request by counterparty	BEFORE	H/R	M/F	A (and counterparty instruction CR)
	AFTER	H/R	M/F	C (and counterparty instruction C)
Instruction cancellation by CSD	BEFORE	H/R	NP/U/M/F	A/CR
	AFTER	H/R	NP/U/M/F	CC (and counterparty instruction CC)
Change of holding condition to Released	BEFORE	H/R	NP/U/M/F	A/CR
	AFTER	R	NP/U/M/F	A/CR
Change of holding condition to Hold	BEFORE	H/R	NP/U/M/F	A/CR
	AFTER	H	NP/U/M/F	A/CR

### 8.1.8 Instruction Status MT 548 Messages

Instruction status messages are sent from the DSS in the following cases:

- Instruction Entry
- Instruction Update
- Instruction Matching
- Instruction Cancellation
- Request for instruction cancellation by counterparty
- Acceptance of matched instruction cancellation request by counterparty
- Instruction cancellation by CSD

Status messages concern instruction status, matching status and settlement status. The values supported for the status of an instruction are summarized in the table below.

Instruction Status		<b>IPRC (Instruction Processing Status)</b>			<b>MTCH (Matching Status)</b>			<b>SETT (Settlement Status)</b>	
Satus & Reason Codes for CANCELLED INSTRUCTIONS (H/R)-(NP/U/M/F)-(C/CC)	Status	<i>C/CC</i> <b>CAND</b> Cancelled			<i>(NP/U)</i> <b>NMAT</b> Unmatched		<i>M/F</i> <b>MACH</b> Matched	<i>NOT USED</i>	<i>NOT USED</i>
	Reason	<i>C</i> <b>CANI</b> Cancelled By Yourselves	<i>CC</i> <b>CANS</b> Cancelled By System		<i>NP</i> <b>NMAS</b> No Matching Started	<i>U</i> <b>CMIS</b> Matching Instruction Not Found	<i>NOT USED</i>	<i>NOT USED</i>	<i>NOT USED</i>
Satus & Reason Codes for ACTIVE INSTRUCTIONS (H/R)-(M/F)-(A/CR)	Status	<i>A</i> <b>PACK</b> Accepted	<i>A-CR</i> <b>CPRC</b> Counter-Party Has Requested Cancellation	<i>CR-A</i> <b>CANP</b> Your Cancellation Request is Pending	<i>(NP/U)</i> <b>NMAT</b> Unmatched		<i>M/F</i> <b>MACH</b> Matched	<i>M</i> <b>PEND</b> Pending Settlement	<i>F</i> <b>PENF</b> Pending Settlement
	Reason	<i>NOT USED</i>	<i>NOT USED</i>	<b>CONF</b> Awaiting Confirmation by Counterparty	<i>NP</i> <b>NMAS</b> No Matching Started	<i>U</i> <b>CMIS</b> Matching Instruction Not Found	<i>NOT USED</i>	<i>H-H</i> <b>BOTH</b> Both Instructions on Hold	
								<i>H-R</i> <b>PREA</b> Your Instruction on Hold	
								<i>R-H</i> <b>PRCY</b> Counterparty Instruction on Hold	
								<b>LACK</b> Counterparty Insufficient Securities	
								<b>MONY</b> Insufficient Money	
								<b>CLAC</b> Counterparty Insufficient Securities	
								<b>CMON</b> Counterparty Insufficient Money	

## 8.2 Settlement instructions and settlement instruction updates

### 8.2.1 MT 540 – Receive Free

The Message MT 540 is sent from a member for the input of a free of payment OTC instruction. The member who sends the message represents the buyer of a security designated by the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c	NEWM, CANC, PREA <sup>3</sup>
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Optional Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference		:4!c//16x	PREV, COMM

<sup>3</sup> NEWM for new order, PREA for new order in condition hold and CANC for order cancelation

M	16S			End of Block	LINK	
-----  End of Subsequence A1 Linkages						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADET	
----->						
O	94a	4!c	Place		:4!c/[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time		:4!c//8!n	SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[ISIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						

O	70E	4!c	Narrative		:4!c//10*35x	SPRO <i>Used for comments</i>
-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT// FAMT
-----						
----->						
M	97a	4!c	Account		:4!c//35x	SAFE
-----						
M	16S			End of Block	FIAC	
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						



M	22F	4!c	Indicator	SETR, STCO only for re- registration	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>4</sup>  STCO//CLEN STCO//DIRT <sup>5</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						

<sup>4</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: collateral return  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transfer  
 OWNI: special transaction for clearing

<sup>5</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>6</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS0/0000000001 DECU//YOURBICXXXX
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	SETT, STAM only	:4!c//[N]3!a15d	SETT//EUR40068,79 STAM//EUR40,
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

<sup>6</sup> Mandatory DEAG, REAG and PSET.

**8.2.2 MT 541 – Receive Against Payment**

The message MT 541 is sent by a member in order to introduce an OTC instruction against payment. The member who sends the message represents the buyer of a security designated by the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c	NEWM, CANC, PREA <sup>7</sup>
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Optional Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference		:4!c//16x	PREV, COMM
M	16S			End of Block	LINK	

<sup>7</sup> NEWM for new order, PREA for new order in hold condition and CANC for order cancellation

-----  <b>End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
----->						
O	94a	4!c	Place		:4!c/[8c]/4!c/[30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time		:4!c/8!n	SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[!SIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative		:4!c//10*35x	SPRO <i>Used for comments</i>

-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT//FAMT
-----						
----->						
M	97a	4!c	Account		:4!c//35x	SAFE
-----						
M	16S			End of Block	FIAC	
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL

						SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>8</sup>  STCO//CLEN STCO//DIRT <sup>9</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG,	:4!c/8c/34x (Proprietary Code)  :4!c//4!a2!a2!c[3!c] (BIC)  :4!c//4*35x (Free text)	DEAG/HCS0/0000000001  DECU//YOURBICXXXX

<sup>8</sup> TRAD: transqction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: security transfer from acquisition ADR or ETF  
 SUBS: security transfer for the creation ADR or ETF  
 BSBK: fail rectification – late transaction brokerage completion  
 NSP: portfolio transfers (transitional operator account transfers)  
 OWNI: special transaction for clearing

<sup>9</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

				RECU, SELL <sup>10</sup>		
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	SETT, STAM only	:4!c//[N]3!a15d	SETT//EUR40068,79 STAM//EUR40,
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

<sup>10</sup> Required DEAG, REAG and PSET.

**8.2.3 MT 542 – Deliver Free**

The MT 542 message is sent by a member in order to introduce a free of payment OTC instruction. The member who sends the message represents the seller of a security designated by the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c	NEWM, CANC, PREA <sup>11</sup>
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Optional Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference		:4!c//16x	PREV, COMM
M	16S			End of Block	LINK	

<sup>11</sup> NEWM for new order, PREA for new order in hold condition and CANC for order cancelation



-----  <b>End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
----->						
O	94a	4!c	Place		:4!c/[8c]/4!c/[30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time		:4!c/8!n	SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[!SIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative		:4!c//10*35x	SPRO <i>Used for comments</i>

-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT//FAMT
-----						
----->						
M	97a	4!c	Account		:4!c//35x	SAFE
-----						
M	16S			End of Block	FIAC	
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL

						SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>12</sup>  STCO//CLEN STCO//DIRT <sup>13</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU,	:4!c/8c/34x (Proprietary Code)  :4!c//4!a2!a2!c[3!c] (BIC)  :4!c//4*35x (Free text)	DEAG/HCS0/0000000001  DECU//YOURBICXXXX

<sup>12</sup> TRAD: Transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transfer  
 OWNI: special transaction for clearing  
<sup>13</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

				SELL <sup>14</sup>		
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	SETT, STAM only	:4!c//[N]3!a15d	SETT//EUR40068,79 STAM//EUR40,
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

<sup>14</sup> Mandatory DEAG, REAG and PSET.

**8.2.4 MT 543 – Deliver Against Payment**

The MT 543 message is sent by a member in order to introduce a OTC instruction against payment. The member who sends the message represents the seller of a security designated by the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c	NEWM, CANC, PREA <sup>15</sup>
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Optional Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference		:4!c//16x	PREV, COMM
M	16S			End of Block	LINK	

<sup>15</sup> NEWM for new order, PREA for new order in hold condition and CANC for order cancelation

-----  End of Subsequence A1 Linkages						
M	16S			End of Block	GENL	
End of Sequence A General Information						
Mandatory Sequence B Trade Details						
M	16R			Start of Block	TRADEDET	
----->						
O	94a	4!c	Place		:4!c/[8c]/4!c/[30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time		:4!c/8!n	SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[!SIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative		:4!c//10*35x	SPRO <i>Used for comments</i>

-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT//FAMT
-----						
----->						
M	97a	4!c	Account		:4!c//35x	SAFE
-----						
M	16S			End of Block	FIAC	
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL

						SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>16</sup>  STCO//CLEN STCO//DIRT <sup>17</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG,	:4!c/8c/34x (Proprietary Code)  :4!c//4!a2!a2!c[3!c] (BIC)  :4!c//4*35x (Free text)	DEAG/HCS0/0000000001  DECU//YOURBICXXXX

<sup>16</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transport  
 OWNI: special transaction for clearing

<sup>17</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.



				RECU, SELL <sup>18</sup>		
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	SETT, STAM only	:4!c//[N]3!a15d	SETT//EUR40068,79 STAM//EUR40,
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

<sup>18</sup> Mandatory DEAG, REAG and PSET.

### 8.3 Messages for settlement instruction's status

#### 8.3.1 MT 548 – Settlement Status and Processing Advice

MT 548 message is sent from DSS toward the member under the following conditions:

- In response to a previous request by the Participant for OTC instruction management (message MT540-MT543)
- For every status change of an active OTC instruction (ie. From unmatched to matched)

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c[4!c]	INST, CAST
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Repetitive Mandatory Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference	PREV	:4!c//16x	SEME original instruction

M	16S			End of Block	LINK	
<b>-----  End of Subsequence A1 Linkages</b>						
<b>-----&gt; Repetitive Mandatory Subsequence A2 Status</b>						
M	16R			Start of Block	STAT	
M	25D	4!c	Status	CPRC, IPRC, MTCH, SETT	:4!c//4!c	IPRC//PACK, IPRC//REJT, IPRC//PPRC, IPRC//CANP, IPRC//CAND, IPRC//CPRC, MTCH//NMAT, MTCH//MACH, SETT//PENF, SETT//PEND
<b>-----&gt; Repetitive Optional Subsequence A2a Reason</b>						
M	16R			Start of Block	REAS	
M	24B	4!c	Reason	CAND, CANP, NMAT, PEND, REJT	:4!c//4!c	CAND//CANI CAND//CANS CANP//CONF NMAT//NMAS NMAT//CMIS PEND//BOTH PEND//PREA PEND//PRCY PEND//LACK PEND//MONY PEND//CLAC PEND//CMON REJT//DDAT REJT//DTRD REJT//SETS

						REJT//SAFE REJT//SETR REJT//DEPT REJT//DSEC REJT//DMON REJT//NCRR REJT//PLCE REJT//DQUA REJT//ICAG REJT//NARR
O	70D	REAS	Narrative	Reason Narrative	:4!c//6*35x	
M	16S			End of Block	REAS	
<b>-----  End of Subsequence A2a Reason</b>						
M	16S			End of Block	STAT	
<b>-----  End of Subsequence A2 Status</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Optional Sequence B Settlement Transaction Details</b>						
M	16R			Start of Block	SETTRAN	
<b>-----&gt;</b>						
O	94a	4!c	Place	TRAD	:4!c/[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
<b>----- </b>						

M	35B			Identification of the Financial Instrument	[ISIN!e12!c] [4*35x]	ISIN only, description is discarded
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT// FAMT
----->						
O	19A	4!c	Amount	(see qualifier description)	:4!c//[N]3!a15d	SETT//EUR40068,79
-----						
M	97a	SAFE	Account	Safekeeping Account		SAFE
----->						
M	22a	4!c	Indicator	SETR, STCO only for re- registration, REDE, PAYM, RTGS		SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK

						SETR//INSP SETR//OWNI <sup>19</sup>  STCO//CLEN STCO//DIRT <sup>20</sup>  REDE//DELI REDE//RECE <sup>21</sup>  PAYM//APMT PAYM//FREE <sup>22</sup>
-----						
----->						
M	98a	4!c	Date/Time	SETT, TRAD	:4!c//8!n	SETT//YYYYMMDD TRAD//YYYYMMDD

<sup>19</sup> TRAD: Transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transport  
 OWNI: special instruction for clearing

<sup>20</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

<sup>21</sup> DELI for delivery, RECE for receipt

<sup>22</sup> APMT with payment, FREE without payment

-----						
O	70E	SPRO	Narrative	Settlement Instruction Processing Narrative	:4!c//10*35x	comments
<b>-----&gt; Repetitive Optional Subsequence B1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>23</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS000000001 DECU//YOURBICXXXX
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
<b>-----  End of Subsequence B1 Settlement Parties</b>						
M	16S			End of Block	SETTRAN	
<b>End of Sequence B Settlement Transaction Details</b>						

<sup>23</sup> Mandatory DEAG, REAG and PSET.

## 8.4 Messaging notification for pending settlement instructions

### 8.4.1 MT 578 – Settlement Allegement

Message MT 578 is sent from the DSS to a member if another member inserts an OTC instruction stating that member to act as counterparty of the transaction. For each new OTC instruction, an allegement message is produced after the first matching cycle of OTC transactions, in case there exists no corresponding instruction from the counterparty. Practically, the allegement message indicates the instruction details to be entered by the recipient member for the successful match of the OTC transaction.

When the corresponding instruction is entered and matched, a new message will be sent by the DSS in order to remove the previous allegement. If the original instruction is cancelled prior to the counterparty's instruction entry and the allegment message has already been sent, then an allegement cancellation message will be sent.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description – Applicable Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message identification
M	23G			Function of the Message	4!c	NEWM, REMO, CANC <sup>24</sup>
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Optional Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	

<sup>24</sup> NEWM for new allegement, REMO for removal allegement and CANC for cancelation allegement



O	22F	LINK	Indicator	Linkage Type Indicator	:4!c/[8c]/4!c	
M	20C	4!c	Reference	PREV	:4!c//16x	SEME original allegation
M	16S			End of Block	LINK	
<b>-----  End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
<b>-----&gt;</b>						
O	94a	4!c	Place	TRAD	:4!c/[8c]/4!c/[30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
<b>----- </b>						
<b>-----&gt;</b>						
M	98a	4!c	Date/Time	SETT, TRAD	:4!c//8!n	SETT//YYYYMMDD TRAD//YYYYMMDD
<b>----- </b>						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06

M	35B			Identification of the Financial Instrument	[ISIN!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
M	22a	4!c	Indicator	REDE, PAYM	:4!c//4!c	REDE//DELI REDE//RECE <sup>25</sup>  PAYM//APMT PAYM//FREE <sup>26</sup>
-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
M	36B	SETT	Quantity of Financial Instrument	Quantity of Financial Instrument to be Settled	:4!c//4!c/15d	SETT//UNIT SETT//FAMT
----->						

<sup>25</sup> DELI for delivery, RECE for pickup

<sup>26</sup> APMT with payment, FREE without payment

M	97a	4!c	Account	SAFE	:4!c//35x	NONREF
-----						
M	16S			End of Block	FIAC	
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration, RTGS	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>27</sup>

<sup>27</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transport  
 OWNI: special instruction for clearing

						STCO//CLEN STCO//DIRT <sup>28</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>29</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS0/0000000001 DECU//YOURBICXXXX
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
M	16S			End of Block	SETPRTY	
-----  <b>End of Subsequence E1 Settlement Parties</b>						
-----> <b>Optional Repetitive Subsequence E3 Amount</b>						
M	16R			Start of Block	AMT	
----->						

<sup>28</sup> Only for re-registration.  
CLEN: re-registration without tax.  
DIRT: re-registration with tax.

<sup>29</sup> Mandatory DEAG, REAG and PSET.

M	19A	4!c	Amount	SETT only	:4!c//[N]3!a15d	SETT//EUR40068,79
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

## 8.5 Settlement Confirmation Messages

After the successful settlement of an OTC transaction sent by the DSS to the member a confirmation of the transaction. The message depends on the initial message type that created the OTC transaction.

### 8.5.1 MT 544 – Receive Free Confirmation

Message MT 544 is sent from the DSS to a member in the case of settlement of an OTC transaction without payment (free of payment) where the member representing the buyer of the instrument that defines the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Allowed Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique Code Message

M	23G			Function of the Message	4!c/4!c]	NEWM
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Mandatory Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference	RELA COMM	:4!c//16x	RELA//SEME Original instruction
M	16S			End of Block	LINK	
<b>-----  End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
<b>-----&gt;</b>						
O	94a	4!c	Place	TRAD	:4!c/[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
<b>----- </b>						
<b>-----&gt;</b>						

M	98a	4!c	Date/Time	ESET, SETT, TRAD	:4!c//8!n	ESET//YYYYMMDD SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[ISIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative	SPRO	:4!c//10*35x	comments
-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	4!c	Quantity of Financial Instrument	ESTT	:4!c//4!c/15d	ESTT//UNIT ESTT// FAMT
-----						

End of Sequence C Financial Instrument/Account						
Mandatory Sequence E Settlement Details						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration, RTGS	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>30</sup>  STCO//CLEN STCO//DIRT <sup>31</sup>
-----						

<sup>30</sup> TRAD: Transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transport  
 OWNI: special instruction for clearing

<sup>31</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.



-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>32</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS0/0000000001 DECU//YOURBICXXXX
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
-----						
M	16S			End of Block	SETPRTY	
-----  <b>End of Subsequence E1 Settlement Parties</b>						
-----> <b>Optional Repetitive Subsequence E3 Amount</b>						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	ESTT only	:4!c//[N]3!a15d	ESTT//EUR40068,79
-----						
M	16S			End of Block	AMT	
-----  <b>End of Subsequence E3 Amount</b>						

<sup>32</sup> Mandatory DEAG, REAG and PSET.

M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

### 8.5.2 MT 545 – Receive Against Payment Confirmation

Message MT 545 is sent from the DSS to a member in the case of settlement of an OTC transaction payment (against payment) where the member representing the buyer of the instrument that defines the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Allowed Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique message code
M	23G			Function of the Message	4!c/4!c]	CANC NEWM RVSL
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Mandatory Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	

M	20C	4!c	Reference	RELA COMM	:4!c//16x	RELA//SEME original request
M	16S			End of Block	LINK	
<b>-----  End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADDET	
<b>-----&gt;</b>						
O	94a	4!c	Place	TRAD	:4!c/[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
<b>----- </b>						
<b>-----&gt;</b>						
M	98a	4!c	Date/Time	ESET, SETT, TRAD	:4!c//8!n	ESET//YYYYMMDD SETT//YYYYMMDD TRAD//YYYYMMDD
<b>----- </b>						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[!SIN1!e12!c]	ISIN only, description is discarded

					[4*35x]	
----->						
O	70E	4!c	Narrative	SPRO	:4!c//10*35x	comments
-----						
M	16S			End of Block	TRADET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	4!c	Quantity of Financial Instrument	ESTT	:4!c//4!c/15d	ESTT//UNIT ESTT// FAMT
-----						
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration, RTGS	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS

						SETR//BSBK SETR//INSP SETR//OWNI <sup>33</sup>  STCO//CLEN STCO//DIRT <sup>34</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>35</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS0/000000001  DECU//YOURBICXXXX
-----						

<sup>33</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transfers  
 OWNI: special instruction for clearing

<sup>34</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

<sup>35</sup> mandatory DEAG, REAG and PSET.

O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
-----						
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	ESTT only	:4!c//[N]3!a15d	ESTT//EUR40068,79
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

### 8.5.3 MT 546 – Deliver Free Confirmation

Message MT 546 is sent from the DSS to a member in the case of settlement of an OTC transaction without payment (free of payment) where the member representing the seller of a security that defines the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Allowed Values
<b>Mandatory Sequence A General Information</b>						

M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Uniquie Message code
M	23G			Function of the Message	4!c[/4!c]	NEWM
O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
<b>-----&gt; Mandatory Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference	RELA COMM	:4!c//16x	RELA//SEME original instruction
M	16S			End of Block	LINK	
<b>-----  End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
<b>-----&gt;</b>						

O	94a	4!c	Place	TRAD	:4!c/[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time	ESET, SETT, TRAD	:4!c//8!n	ESET//YYYYMMDD SETT//YYYYMMDD TRAD//YYYYMMDD
-----						
O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[!SIN1!e12!c]  [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative	SPRO	:4!c//10*35x	comments
-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						



M	36B	4!c	Quantity of Financial Instrument	ESTT	:4!c//4!c/15d	ESTT//UNIT ESTT//FAMT
-----						
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						
M	22F	4!c	Indicator	SETR, STCO only for re- registration, RTGS	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>36</sup>

<sup>36</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transfers  
 OWNI: special instruction for clearing

						STCO//CLEN STCO//DIRT <sup>37</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						
M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>38</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS0/0000000001 DECU//YOURBICXXXX
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
-----						
M	16S			End of Block	SETPRTY	
-----  <b>End of Subsequence E1 Settlement Parties</b>						
-----> <b>Optional Repetitive Subsequence E3 Amount</b>						
M	16R			Start of Block	AMT	
----->						

<sup>37</sup> Only for re-registration.  
CLEN: re-registration without tax.  
DIRT: re-registration with tax.

<sup>38</sup> Mandatory DEAG, REAG and PSET.

M	19A	4!c	Amount	ESTT only	:4!c//[N]3!a15d	ESTT//EUR40068,79
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

#### 8.5.4 MT 547 – Deliver Against Payment Confirmation

Message MT 547 is sent from the DSS to a member in the case of settlement of an OTC transaction payment (against payment) where the member representing the seller of a security that defines the transaction.

Status	Tag	Qualifier	Generic Field Name	Detailed Field Name	Content/Options	Description - Allowed Values
<b>Mandatory Sequence A General Information</b>						
M	16R			Start of Block	GENL	
M	20C	SEME	Reference	Sender's Message Reference	:4!c//16x	Unique Message code
M	23G			Function of the Message	4!c[4!c]	NEWM

O	98a	PREP	Date/Time	Preparation Date/Time	:4!c//8!n :4!c//8!n6!n	YYYYMMDD, YYYYMMDDHHMMSS
-----> <b>Mandatory Repetitive Subsequence A1 Linkages</b>						
M	16R			Start of Block	LINK	
M	20C	4!c	Reference	RELA COMM	:4!c//16x	RELA//SEME Original instruction
M	16S			End of Block	LINK	
-----  <b>End of Subsequence A1 Linkages</b>						
M	16S			End of Block	GENL	
<b>End of Sequence A General Information</b>						
<b>Mandatory Sequence B Trade Details</b>						
M	16R			Start of Block	TRADEDET	
----->						
O	94a	4!c	Place	TRAD	:4!c//[8c]/4!c[/30x]	TRAD//EXCH/XATH, TRAD//OTCO/ HOTC
-----						
----->						
M	98a	4!c	Date/Time	ESET, SETT, TRAD	:4!c//8!n	ESET//YYYYMMDD SETT//YYYYMMDD TRAD//YYYYMMDD
-----						

O	90a	DEAL	Price	Deal Price	:4!c//4!c/3!a15d	DEAL//ACTU/ EUR13,06
M	35B			Identification of the Financial Instrument	[ISIN1!e12!c] [4*35x]	ISIN only, description is discarded
----->						
O	70E	4!c	Narrative	SPRO	:4!c//10*35x	comments
-----						
M	16S			End of Block	TRADEDET	
<b>End of Sequence B Trade Details</b>						
<b>Mandatory Sequence C Financial Instrument/Account</b>						
M	16R			Start of Block	FIAC	
----->						
M	36B	4!c	Quantity of Financial Instrument	ESTT	:4!c//4!c/15d	ESTT//UNIT ESTT// FAMT
-----						
<b>End of Sequence C Financial Instrument/Account</b>						
<b>Mandatory Sequence E Settlement Details</b>						
M	16R			Start of Block	SETDET	
----->						

M	22F	4!c	Indicator	SETR, STCO only for re- registration, RTGS	:4!c/[8c]/4!c	SETR//TRAD SETR//PORT SETR//SECB SETR//SECL SETR//COLI SETR//COLO SETR//REDM SETR//SUBS SETR//BSBK SETR//INSP SETR//OWNI <sup>39</sup>  STCO//CLEN STCO//DIRT <sup>40</sup>
-----						
-----> <b>Mandatory Repetitive Subsequence E1 Settlement Parties</b>						
M	16R			Start of Block	SETPRTY	
----->						

<sup>39</sup> TRAD: transaction  
 PORT: re-registration  
 SECB: lending  
 SECL: return lending  
 COLI: collateral  
 COLO: return collateral  
 REDM: redemption of ADR/ETF  
 SUBS: creation of ADR/ETF  
 BSBK: fail rectification  
 INSP: portfolio transfers  
 OWNI: special instruction for clearing

<sup>40</sup> Only for re-registration.  
 CLEN: re-registration without tax.  
 DIRT: re-registration with tax.

M	95a	4!c	Party	BUYR, DEAG, DECU, PSET, REAG, RECU, SELL <sup>41</sup>	:4!c/8c/34x (Proprietary Code) :4!c//4!a2!a2!c[3!c] (BIC) :4!c//4*35x (Free text)	DEAG/HCS000000001 DECU//YOURBICXXXX
-----						
O	97a	SAFE	Account	Safekeeping Account	:4!c//35x	SAFE
-----						
M	16S			End of Block	SETPRTY	
-----  End of Subsequence E1 Settlement Parties						
-----> Optional Repetitive Subsequence E3 Amount						
M	16R			Start of Block	AMT	
----->						
M	19A	4!c	Amount	ESTT only	:4!c//[N]3!a15d	ESTT//EUR40068,79
-----						
M	16S			End of Block	AMT	
-----  End of Subsequence E3 Amount						
M	16S			End of Block	SETDET	
<b>End of Sequence E Settlement Details</b>						

<sup>41</sup> Mandatory DEAG, REAG and PSET.

## 8.6 File import - ISO 15022 messages

A correspondence between the format of a file used in order to import OTC instructions and the appropriate fields used in ISO 15022 messages (MT 540-543) is given below. For most fields of the file there exists a one-to-one relationship, some of the fields in the file are supported by a combination of ISO fields (eg re-registration with tax) and others are implicitly indicated by the message type (eg receipt -delivery). The first five columns refer to the input file and the latter three to its ISO message equivalent.

FIELD	Y	Type/length	Comments	SWIFT Field	SWIFT Qualifier	SWIFT Sequence	
<b>S/N File input</b>	Y	1	N(10)	This number is used to correlate each record of the input file with entries in the records of successful and unsuccessful log files. There is no check for uniqueness of this code, but it is recommended to be unique for the convenience of the operators.	-	-	-
<b>Action</b>	Y	11	A(1)	Specifies the type of action to for the particular record:  1 = import new instruction 2 = amendment to registered instruction 3 = cancellation of registered instruction 4 = amendment «Holding condition» from Hold to Released or the opposite  For foreign depositories the input value '2' is not Applicable.	23G  1 = NEWM, PREA 2 = not supported 3 = CANC 4 = NEWM, PREA (in combination with 20C PREV)	-	Sequence A
<b>DSS instruction's Serial number (SN)</b>		12	N (15)	Required in case of amendments or cancellation of the instruction. Not to be completed if a new instruction introduced.	20C	PREV	Sequence A Subsequence A1
<b>Account Operator</b>	Y	27	A(10)	Instructing operator.	95a	REAG/DEAG	Sequence E Subsequence E1
<b>Operator's reference code</b>		37	A(20)	A reference code that may be entered by the operator for his own use. There is no monitoring by the DSS.	20C	SEME	Sequence A
<b>Instruction type (Receipt / Delivery)</b>	Y	57	A(1)	A =Receipt - П= Delivery	Depending upon the type of message sent:  A = MT 540, MT 541 П = MT 542, MT 543	-	-
<b>Delivery with or without payment</b>	Y	58	A(1)	1= DVP , 2=FOP	Depending upon the type of message sent:  1 = MT 541, MT 543	-	-



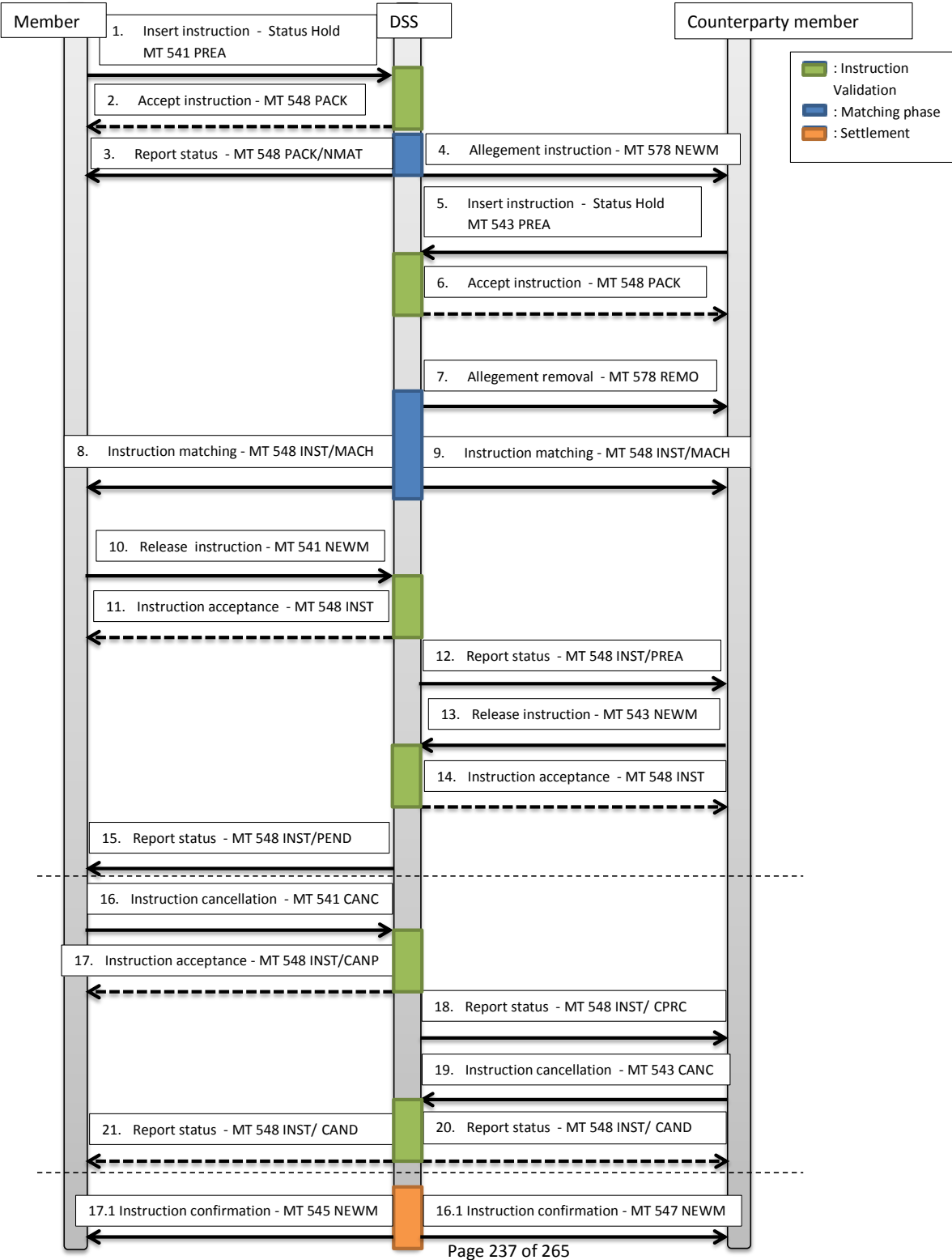
					2 = MT 540, MT 542		
<b>Transaction type</b>	Y	59	A(1)	1 = transaction 2 = lending 3 = return lending 4 = collateral 5 = return collateral 6 = reregistration 7 = reregistration with tax 8 = fail rectification – 0 = redemption of ADR/ETF 9 = creation of ADR/ETF a = portfolio transfer b = special instruction for clearing	22F  1 = TRAD 2 = SECB 3 = SECL 4 = COLI 5 = COLO 6 = PORT (in combination with STCO//CLEN) 7 = PORT (in combination with STCO//DIRT) 8 = BSBK 0 = REDM 9 = SUBS a = INSP b = OWNI	SETR, STCO	Sequence E
<b>Investor safekeeping account</b>	Y	60	A(10)	Active operator's securities sub-account.	97a	SAFE	Sequence C
<b>Counterparty account operator</b>	Y	70	A(50)	Counterparty operator's code in Greek or Foreign Depository.	95a	REAG/DEAG	Sequence E Subsequence E1
<b>Transaction date</b>	Y	120	DATE (ddmmyyyy)	Should be equal to or before the settlement date.	98a	TRAD	Sequence B
<b>Settlement Date</b>	Y	128	DATE (ddmmyyyy)	Should be equal to or later than the date of registration.	98a	SETT	Sequence B
<b>Security's ISIN</b>	Y	136	A(12)	The ISIN of an active security.	35B	-	Sequence B
<b>Quantity</b>	Y	148	N(15)	>0	36B	SETT	Sequence C
<b>Financial value</b>	Y (if DVP)	163	N(16,2)	Not processed and matched in the case of the FOP. Mandatory during the matching process in the case of DVP. Up to sixteen digits where the last two are the decimal points. Do not enter a decimal point.	19A	SETT	Sequence E Subsequence E3
<b>Unit price</b>		179	N(10,2)	Reference field that is not checked by the DSS. Upto	90a	DEAL (ACTU)	Sequence B

				ten digits where the last two are decimal points. Do not enter a decimal point.			
<b>External identification Code</b>		189	A(50)	If entered, it will be required during the matching process to be the same as in the corresponding instruction of the counterparty. This field ensures that the matching will occur against a specific instruction. There is no other check from DSS.	20C	COMM	Sequence A Subsequence A1
<b>Comments</b>		239	A(50)	Reference field that is not checked by the DSS.	70E	SPRO	Sequence B
<b>Depository</b>	Y	289	A(11)	The BIC of the settlement system. For equities settled at HELEX, BIC: HCSDBGRAAXXX should be used.	95a	PSET	Sequence E Subsequence E1
<b>Counterparty's custodian</b>		300	A(50)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	95a	RECU/DECU	Sequence E Subsequence E1
<b>Place of Transaction</b>		350	A(4)	MIC code is the market code in which the transaction took place.	94a	TRAD	Sequence B
<b>Settlement value currency</b>	Y	354	A(3)	The international abbreviation of the currency of the monetary value. The currency should be supported by HELEX.	19A	SETT	Sequence E Subsequence E3
<b>Hold/Release Condition</b>	Y	357	A(1)	H = Hold (for settlement) R = Released (for settlement)	23G H = NEWM R = PREA	-	Sequence A
<b>Operator's custodian</b>		358	A(50)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	95a	RECU/DECU	Sequence E Subsequence E1
<b>Operator's custodian format</b>		408	A(4)	This field determines what format is used for the field «Operator's custodian» PRCP = DSS Member's code BIC = BIC FREE = Free Text DSS = Data Source Scheme	95R, 95P, 95Q  PRCP = Option R with Data Source Scheme 'HCSDB' BIC = Option P FREE = Option Q DSS = Option R for Data Source Scheme third party institution/organization	RECU/DECU	Sequence E Subsequence E1
<b>Counterparty identifier</b>	Y	412	A(4)	This field determines what format is used for the	95R, 95P, 95Q	REAG/DEAG	Sequence E

<b>format</b>				<p>field "Counterparty"  PRCP = DSS Member's code  BIC = BIC  FREE = Free Text  DSS = Data Source Scheme</p> <p>For the Greek Depository the field should be "PRCP".</p>	PRCP = Option R with Data Source Scheme 'HCS D' BIC = Option P FREE = Option Q DSS = Option R for Data Source Scheme third party institution/organization		Subsequence E1
<b>Counterparty's custodian identifier format</b>		416	A(4)	<p>This field determines what format is used for the field «Counterparty custodian»  PRCP = DSS Member's code  BIC = BIC  FREE = Free Text  DSS = Data Source Scheme</p>	95R, 95P, 95Q  PRCP = Option R with Data Source Scheme 'HCS D' BIC = Option P FREE = Option Q DSS = Option R for Data Source Scheme 3-party institution/organization	RECU/DECU	Sequence E Subsequence E1
<b>Counterparty's safekeeping account</b>		420	A(35)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	97a	SAFE	Sequence E Subsequence E1 (same subsequence which is set by the counterparty)
<b>Counterparty's buyer/seller format</b>		455	A(4)	<p>This field determines what format is used for the field «Counterparty's buyer/seller»  PRCP = DSS Member's code  BIC = BIC  FREE = Free Text  DSS = Data Source Scheme</p>	95R, 95P, 95Q  PRCP = Option R with Data Source Scheme 'HCS D' BIC = Option P FREE = Option Q DSS = Option R with Data Source Scheme third	BUYR/SELL	Sequence E Subsequence E1

					party institution/organization		
<b>Counterparty's buyer/seller</b>		459	A(50)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	95a	BUYR/SELL	Sequence E Subsequence E1
<b>Settlement method</b>	Y	509	A(1)	Identifies the settlement method that should be followed. 1 = RTS (Real Time Settlement) 2 = NON – RTS (Non Real Time Settlement) 0 = STANDARD  For the Greek Depository value "1" should be filled in.	22F  1 = YRTG 2 = NRTG  (the absence of 22F/RTGS denotes the standard method of each depository)	RTGS	Sequence E
<b>Transaction type</b>	Y	510	A(1)	Determines whether the instruction refers to a transaction that took place on a regulated market/stock exchange or not. 1 = OTC (outside a regulated market) 2 = STOCK EX (in a regulated market).	94a  1 = OTCO 2 = EXCH	TRAD	Sequence B
<b>Counterparty's buyer/seller safekeeping account</b>		511	A(35)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	97a	SAFE	Sequence E Subsequence E1 (the same subsequence which has been set by the client)
<b>Counterparty's custodian safekeeping account</b>		546	A(35)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	97a	SAFE	Sequence E Subsequence E1 (the same subsequence which has been set by the client)
<b>Special instructions</b>		581	A(14)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	22F	STAM	Sequence E
<b>Place of Safekeeping</b>		595	A(30)	Reference field that is not checked by the DSS but will be forwarded to the counterparty or the foreign depository.	94a	SAFE	Sequence C

### 9 Appendix I: Messaging Scenario using ISO 15022 messages



1. The member with code '0000000001' and BIC address 'YOURBICXXXX' inserts in the system a Receive Against Payment instruction using message MT 541, with message id '00001'. The instruction refers to the acceptance of 3067 units of ISIN GRXXXXXXXXXX and debits the account '1000000000'. The total transaction price is 40068,79 EUR. The trade date is 01/04/2013 and the settlement date is 04/04/2013. The receiving operator is '0000000001' and the counterparty is the operator with code '0000000002'. The client of the operator is the organization with BIC 'BICCODEXXXX' and the client of the counter party operator is the organization with the name 'FREE TEXT NAME'. The transaction will be settled in the Greek Depository 'HCSDGRAAXX'.

```
{1:F01YOURBICXXXX0000100001}{2:I541HCSDGRAAXXN}{4:
```

```
:16R:GENL
```

```
:20C::SEME//00001
```

```
:23G:PREA
```

```
:16S:GENL
```

```
:16R:TRADDET
```

```
:94B::TRAD//EXCH/XATH
```

```
:98A::SETT//20130404
```

```
:98A::TRAD//20130401
```

```
:90B::DEAL//ACTU/EUR13,06
```

```
:35B:ISIN GRXXXXXXXXXX
```

```
:70E::SPRO//PREADVICE INSTRUCTION
```

```
:16S:TRADDET
```

```
:16R:FIAC
```

```
:36B::SETT//UNIT/3067,
```

```
:97A::SAFE//1000000000
```

```
:16S:FIAC
```

```
:16R:SETDET
```

```
:22F::SETR//TRAD
```

```
:22F::RTGS//YRTG
```

```
:16R:SETPRTY
```

```
:95R::DEAG/HCSD/0000000001
```

```
:16S:SETPRTY
```

```
:16R:SETPRTY
```

```
:95Q::DECU//FREE TEXT NAME
```

```
:16S:SETPRTY
```

```
:16R:SETPRTY
```

```
:95P::PSET//HCSDGRAAXX
```

```
:16S:SETPRTY
```

```
:16R:SETPRTY
```

```
:95R::REAG/HCSD/0000000001
```

```
:16S:SETPRTY
```

```
:16R:SETPRTY
```

```
:95P::RECU//BICCODEXXXX
```

```
:16S:SETPRTY
```

```
:16R:AMT
```

```
:19A::SETT//EUR40068,79
```

```
:16S:AMT
```

```
:16S:SETDET
```

```
-}
```

2. The system validates and records the instruction. Following, is an acknowledge message toward member '000000001' which refers to the state of the instruction with id '00001'.

```
{1:F01YOURBICXXXX0000100001}{2:O5481355130401HCSDGRAAXXX00001000011304011355N}{4:
:16R:GENL
:20C::SEME//A201304010024221
:23G:INST
:16R:LINK
:20C::RELA//00001
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R:SETPRTY
:95R::DEAG/HCS/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}
```

3. After the first unsuccessful matching cycle a message is sent to the member '000000001' which refers to the instruction '00001' and states that the instruction is not matched. The reason is the absence of the corresponding instruction from the counterparty member.

```
{1:F01YOURBICXXXXX0000100001}{2:O5481538130401HCSDGRAAXXX00001000011304011538N}{4:
:16R:GENL
:20C::SEME//A201304010024225
:23G:INST
:16R:LINK
:20C::RELA//00001
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16R:STAT
:25D::MTCH//NMAT
:16R:REAS
:24B::NMAT//CMIS
:16S:REAS
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R:SETPRTY
:95R::DEAG/HCS/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}
```



4. After the first unsuccessful matching cycle, an allegation message is sent toward member '000000002' with BIC address 'CPRTBICXXXX', which states that there is a pending instruction referring to is as the counterparty.

```
{1:F01CPRTBICXXXX0000100001}{2:O5781538130401HCSDGRAAXXX00001000011304011538N}{4:
:16R:GENL
:20C::SEME//A201304010024224
:23G:NEWM
:16S:GENL
:16R:TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B:ISIN GRXXXXXXXXXX
:22H::PAYM//APMT
:22H::REDE//DELI
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//NONREF
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95R::DEAG/HCSD/000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSDGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCSD/000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

5. The member with code '000000002' and BIC address 'CPRTBICXXXX' inserts in the system a Deliver Against Payment instruction using message MT 543, with message id '10000'. The instruction refers to the delivery of 3067 units of ISIN GRXXXXXXXXXX taken from the account '9000000000'. The total cost of the transaction is 40068,79 EUR. The trade date is 01/04/2013 and the settlement date is 04/04/2013. The delivering operator is '000000002' and the counterparty is the operator with code number '000000001'. The operator's client is the

organization with BIC 'CPRTCUBICXX' and the client of the counterparty's operator is the organization with BIC code 'BICCODEXXXX'. The transaction will be settled in the Greek Depository 'HCSDGRAAXXX'.

```
{1:F01CPRTCUBICXXXX0000100001}{2:I543HCSDGRAAXXXN}{4:
:16R:GENL
:20C::SEME//10000
:23G:PREA
:16S:GENL
:16R:TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B:ISIN GRXXXXXXXXXX
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//9000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCSD/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSDGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCSD/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

6. The system validates and records the instruction. Following, is an acknowledge message toward member '0000000002' which refers to the state of the instruction with id '10000'.

```
{1:F01CPRTCUBICXXXX0000100001}{2:O5481605130401HCSDGRAAXXX00001000011304011605N}{4:
:16R:GENL
:20C::SEME//A201304010024226
```

```

:23G:INST
:16R:LINK
:20C::RELA//10000
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B::ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//9000000000
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

7. After the successful matching of instructions, an allegation cancellation message is sent toward member '0000000002' with BIC address 'CPRTBICXXXX', which cancels the previous allegation message with id 'A201304010024224' that has been sent.

```

{1:F01CPRTBICXXXX0000100001}{2:O5781614130401HCS DGRAAXX00001000011304011614N}{4:
:16R:GENL
:20C::SEME//A201304010024227
:23G:REMO
:16R:LINK

```

```

:20C::PREV//A201304010024224
:16S:LINK
:16S:GENL
:16R:TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B:ISIN GRXXXXXXXXXX
:22H::PAYM//APMT
:22H::REDE//DELI
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//NONREF
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}

```

8. A message is sent toward member '000000001' which states that the instruction '00001' is matched, the transaction settlement is pending and the reason is that both instructions are in a 'Hold' state.

```

{1:F01YOURBICXXXX0000100001}{2:O5481614130401HCS DGRAAXXX00001000011304011614N}{4:
:16R:GENL
:20C::SEME//A201304010024229
:23G:INST
:16R:LINK
:20C::RELA//00001
:16S:LINK

```

```

:16R:STAT
:25D::MTCH//MACH
:16S:STAT
:16R:STAT
:25D::SETT//PEND
:16R:REAS
:24B::PEND//BOTH
:16S:REAS
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

9. Alike, a message is sent toward member '0000000002' which states that the instruction '10000' are verified, is matched, the transaction settlement is pending and the reason is that both instructions are in a 'Hold' state.

```

{1:F01CPRTBICXXXX0000100001}{2:O5481614130401HCS DGRAAXX00001000011304011614N}{4:
:16R:GENL
:20C::SEME//A201304010024228
:23G:INST
:16R:LINK

```

```

:20C::RELA//10000
:16S:LINK
:16R:STAT
:25D::MTCH//MACH
:16S:STAT
:16R:STAT
:25D::SETT//PEND
:16R:REAS
:24B::PEND//BOTH
:16S:REAS
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//9000000000
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R:SETPRTY
:95R::DEAG/HCSO/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSOGRAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCSO/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

10. The member with code '0000000001' sends message with id '00002' which updates the instruction '00001' from 'Hold' to 'Release'.

```

{1:F01YOURBICXXXX0000100001}{2:I541HCSOGRAXXXN}{4:
:16R:GENL
:20C::SEME//00002
:23G:NEWM

```

```
:16R:LINK
:20C::PREV//00001
:16S:LINK
:16S:GENL
:16R:TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B:ISIN GRXXXXXXXXXX
:70E::SPRO//PREADVICE INSTRUCTION
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//1000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

11. The system validates and updates the instruction. Following, is an acknowledge message toward member '000000001' which refers to the processing result of message with id '00002'.

```
{1:F01YOURBICXXXX0000100001}{2:O5481649130401HCS DGRAAXX00001000011304011649N}{4:
:16R:GENL
:20C::SEME//A201304010024232
:23G:INST
:16R:LINK
:20C::RELA//00002
```

```
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}
```

12. The system informs member '0000000002' that instruction '10000' is matched and the transaction settlement is pending because the instruction of the member is in 'Hold' status.

```
{1:F01CPRTBICXXXX0000100001}{2:O5481657130401HCS DGRAAXXX00001000011304011657N}{4:
:16R:GENL
:20C::SEME//A201304010024233
:23G:INST
:16R:LINK
:20C::RELA//10000
:16S:LINK
:16R:STAT
:25D::MTCH//MACH
:16S:STAT
```



```

:16R:STAT
:25D::SETT//PEND
:16R:REAS
:24B::PEND//PREA
:16S:REAS
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//0695961257
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

13. The member with code '0000000002' sends message with id '20000' which updates the instruction '10000' from 'Hold' to 'Release'.

```

{1:F01CPRTBICXXXX0000100001}{2:I543HCS DGRAAXXXN}{4:
:16R:GENL
:20C::SEME//20000
:23G:NEWM
:16R:LINK
:20C::PREV//10000
:16S:LINK
:16S:GENL
:16R:TRADEDET

```

```
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B::ISIN GRXXXXXXXXXX
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//9000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSDGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

14. The system validates and updates the instruction. Following, is an acknowledge message toward member '0000000002' which refers to the processing result of message with id '20000'.

```
{1:F01CPRTBICXXXX0000100001}{2:O5481703130401HCSDGRAAXXX00001000011304011703N}{4:
:16R:GENL
:20C::SEME//A201304010024234
:23G:INST
:16R:LINK
:20C::RELA//20000
:16S:LINK
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16S:GENL
:16R:SETTRAN
```

```
:94B::TRAD//EXCH/XATH
:35B::ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//9000000000
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R::SETPRTY
:95R::DEAG/HCS D/0000000002
:16S::SETPRTY
:16R::SETPRTY
:95P::DECU//CPRTCUBICXX
:16S::SETPRTY
:16R::SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S::SETPRTY
:16R::SETPRTY
:95R::REAG/HCS D/0000000001
:16S::SETPRTY
:16R::SETPRTY
:95P::RECU//BICCODEXXXX
:16S::SETPRTY
:16S::SETTRAN
-}
```

15. The system notifies member '000000001' that the instruction '00001' is matched and the transaction settlement is pending.

```
{1:F01YOURBICXXXX0000100001}{2:O5481709130401HCS DGRAAXXX00001000011304011709N}{4:
:16R::GENL
:20C::SEME//A201304010024235
:23G::INST
:16R::LINK
:20C::RELA//00001
:16S::LINK
:16R::STAT
:25D::MTCH//MACH
:16S::STAT
:16R::STAT
:25D::SETT//PEND
:16S::STAT
:16S::GENL
:16R::SETTRAN
```

```

:94B::TRAD//EXCH/XATH
:35B::ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R::SETPRTY
:95R::DEAG/HCS D/0000000002
:16S::SETPRTY
:16R::SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S::SETPRTY
:16R::SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S::SETPRTY
:16R::SETPRTY
:95R::REAG/HCS D/0000000001
:16S::SETPRTY
:16R::SETPRTY
:95P::RECU//BICCODEXXXX
:16S::SETPRTY
:16S::SETTRAN
-}

```

In steps 16-21 a cancellation scenario message flow is illustrated.

16. Member '000000001' sends message with id '00003' which cancels the instruction '00001'.

```

{1:F01YOURBICXXXX0000100001}{2:I541HCS DGRAAXXXN}{4:
:16R::GENL
:20C::SEME//00003
:23G::CANC
:16R::LINK
:20C::PREV//00001
:16S::LINK
:16S::GENL
:16R::TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B::ISIN GRXXXXXXXXXX
:70E::SPRO//PREADVICE INSTRUCTION

```

```
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//1000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

17. The system validates and updates the instruction. Following, is an acknowledge message toward member '0000000001' which refers to the processing result message with id '00003'. The instruction awaits cancelation confirmation from the counterparty member.

```
{1:F01YOURBICXXXX0000100001}{2:O5481716130401HCS DGRAAXX00001000011304011716N}{4:
:16R:GENL
:20C::SEME//A201304010024236
:23G:CAST
:16R:LINK
:20C::RELA//00003
:16S:LINK
:16R:STAT
:25D::IPRC//CANP
:16R:REAS
:24B::CANP//CONF
:16S:REAS
:16S:STAT
:16R:STAT
:25D::MTCH//MACH
:16S:STAT
```

```

:16R:STAT
:25D::SETT//PEND
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//FREE TEXT NAME
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

18. The system notifies member '0000000002' that the counterparty of instruction with id '10000' has requested cancellation.

```

{1:F01CPRTBICXXXX0000100001}{2:O5481721130401HCS DGRAAXX00001000011304011721N}{4:
:16R:GENL
:20C::SEME//A201304010024237
:23G:INST
:16R:LINK
:20C::RELA//10000
:16S:LINK
:16R:STAT
:25D::IPRC//CPRC
:16S:STAT
:16R:STAT

```

```
:25D::MTCH//MACH
:16S:STAT
:16R:STAT
:25D::SETT//PEND
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//9000000000
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R:SETPRTY
:95R::DEAG/HCSO/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCSOGRAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCSO/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}
```

19. Member '0000000002' sends message with id '30000' which cancels the instruction '10000'.

```
{1:F01CPRTBICXXXX0000100001}{2:I543HCSOGRAXXXN}{4:
:16R:GENL
:20C::SEME//30000
:23G:CANC
:16R:LINK
:20C::PREV//10000
:16S:LINK
:16S:GENL
:16R:TRADDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
```

```
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B::ISIN GRXXXXXXXXXX
:16S:TRADDET
:16R:FIAC
:36B::SETT//UNIT/3067,
:97A::SAFE//9000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::SETT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

20. The system validates and updates the instruction. Following, is an acknowledge message toward the member '0000000002' which refers to the processing result of message with id '30000'. The instruction has been cancelled and the reason is that it was cancelled from the counterparty.

```
{1:F01CPRTBICXXXX0000100001}{2:O5481727130401HCS DGRAAXXX00001000011304011727N}{4:
:16R:GENL
:20C::SEME//A201304010024238
:23G:CAST
:16R:LINK
:20C::RELA//30000
:16S:LINK
:16R:STAT
:25D::IPRC//CAND
:16R:REAS
:24B::CAND//CANI
:16S:REAS
:16S:STAT
```



```
:16R:STAT
:25D::IPRC//PACK
:16S:STAT
:16R:STAT
:25D::MTCH//MACH
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B:ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//9000000000
:22F::SETR//TRAD
:22H::REDE//DELI
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}
```

21. The system informs member '0000000001' that the cancellation of instruction with id '00001' has been completed.

```
{1:F01YOURBICXXXX0000100001}{2:O5481733130401HCS DGRAAXX00001000011304011733N}{4:
:16R:GENL
:20C::SEME//A201304010024239
:23G:INST
:16R:LINK
:20C::RELA//00001
:16S:LINK
:16R:STAT
:25D::IPRC//CAND
```

```

:16R:REAS
:24B::CAND//CANI
:16S:REAS
:16S:STAT
:16R:STAT
:25D::MTCH//MACH
:16S:STAT
:16S:GENL
:16R:SETTRAN
:94B::TRAD//EXCH/XATH
:35B::ISIN GRXXXXXXXXXX
:36B::SETT//UNIT/3067,
:19A::SETT//EUR40068,79
:97A::SAFE//1000000000
:22F::SETR//TRAD
:22H::REDE//RECE
:22H::PAYM//APMT
:22F::RTGS//YRTG
:98A::SETT//20130404
:98A::TRAD//20130401
:70E::SPRO//PREADVICE INSTRUCTION
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16S:SETTRAN
-}

```

Steps 16.1-17.1 illustrate the successful settlement of the transaction.

16.1 After successful settlement, a settlement confirmation message is sent toward member '0000000001'.

```

{1:F01YOURBICXXXX0000100001}{2:O5451654130401HCS DGRAAXXX00001000011304011654N}{4:
:16R:GENL
:20C::SEME//A201304010024240
:23G:NEWM
:16R:LINK
:20C::RELA//00001

```

```

:16S:LINK
:16S:GENL
:16R:TRADEDET
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B:ISIN GRXXXXXXXXXX
:70E::SPRO//PREADVICE INSTRUCTION
:16S:TRADEDET
:16R:FIAC
:36B::ESTT//UNIT/3067,
:97A::SAFE//1000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95Q::DECU//FREE TEXT NAME
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::ESTT//EUR40068,79
:16S:AMT
:16S:SETDET
-}

```

17.1 Alike, a settlement confirmation message is sent toward member '000000002'.

```

{1:F01CPRTBICXXXX0000100001}{2:O5471654130401HCS DGRAAXXX00001000011304011654N}{4:
:16R:GENL
:20C::SEME//A201304010024241
:23G:NEWM
:16R:LINK
:20C::RELA//10000
:16S:LINK
:16S:GENL
:16R:TRADEDET

```

```
:94B::TRAD//EXCH/XATH
:98A::SETT//20130404
:98A::TRAD//20130401
:90B::DEAL//ACTU/EUR13,06
:35B::ISIN GRXXXXXXXXXX
:16S:TRADDET
:16R:FIAC
:36B::ESTT//UNIT/3067,
:97A::SAFE//9000000000
:16S:FIAC
:16R:SETDET
:22F::SETR//TRAD
:22F::RTGS//YRTG
:16R:SETPRTY
:95R::DEAG/HCS D/0000000002
:16S:SETPRTY
:16R:SETPRTY
:95P::DECU//CPRTCUBICXX
:16S:SETPRTY
:16R:SETPRTY
:95P::PSET//HCS DGRAAXX
:16S:SETPRTY
:16R:SETPRTY
:95R::REAG/HCS D/0000000001
:16S:SETPRTY
:16R:SETPRTY
:95P::RECU//BICCODEXXXX
:16S:SETPRTY
:16R:AMT
:19A::ESTT//EUR40068,79
:16S:AMT
:16S:SETDET
-}
```

## 10 Appendix II: Error Codes

The following table lists the error messages generated by API and the services it provides.

CODE	EXPLANATION
CSD-01010	Insufficient securities quantity
CSD-01017	Record errors in the file
CSD-01046	More than one operator authorizations exist for the specific securities account
CSD-01047	Missing or invalid search criteria
CSD-01048	A cancellation has already taken place, in the past
CSD-01049	No results found, based on the current search criteria
CSD-01057	Cancellation is forbidden for the specific type of transfer.
CSD-01058	The operator applying for cancellation is different from the operator that originally applied for the transfer
CSD-01059	The cancellation request origin/destination account differs from the respective account in the original transfer request
CSD-01060	Illegal transfer transaction type.
CSD-01061	Missing source operator
CSD-01066	Unknown investor code.
CSD-01068	Investor share has invalid or missing joint/co-ownership type indicator
CSD-01069	Investor share has no securities account
CSD-01070	Missing security identifier (ISIN e.t.c.)
CSD-01071	Invalid investor code type
CSD-01072	Missing operator registration application code.
CSD-01073	Unknown query type
CSD-01074	Unknown output destination type
CSD-01075	Unknown output destination format
CSD-01076	File opening error
CSD--01085	Invalid combination of output destination type and output data content format.
CSD-01103	No record(s) found
CSD-01108	Wrong transaction sn
CSD-01114	Invalid destination operator
CSD-01116	Matched transaction is invalid
CSD-01160	The trading code belongs to another investor or is already assigned to a securities account (
CSD-01303	Unknown investor code
CSD-01317	Transfer transaction failed
CSD-01320	Invalid deactivation/expiration date
CSD-01338	No operator authorization exists for the specific securities account
CSD-01356	It is not allowed to indicate the CSD as the source or destination operator
CSD-01357	Source operator is identical with the destination operator
CSD-01400	Internal error ocured
CSD-01404	The related corporate act does not exist.

<b>CSD-03007</b>	Quantity declared in the file is larger than quantity declared in the securities definition table
<b>CSD-03102</b>	Value out of bounds
<b>CSD-03109</b>	Investor registration failure
<b>CSD-03113</b>	Investor registration failure
<b>CSD-03114</b>	Investor registration and validation failure
<b>CSD-03119</b>	Application of this type is not allowed here
<b>CSD-03211</b>	Co-owners should be at least two (2)
<b>CSD-03310</b>	Invalid transaction type
<b>CSD-03315</b>	Missing or deactivated operator authorization
<b>CSD-03600</b>	Unknown securities account
<b>CSD-03937</b>	Transfer request not registered.
<b>CSD-04002</b>	Operator authorization deactivation forbidden. The securities account has pending transactions.
<b>CSD-04010</b>	The field contains error characters
<b>CSD-04015</b>	An active operator authorization for this securities account, already exists.
<b>CSD-04017</b>	Error combination in the elements of Tax imposition.
<b>CSD-04018</b>	Error combination in the elements of Identification.
<b>CSD-04025</b>	Error of code portion coowner / joint account
<b>CSD-04026</b>	Error type of portion coowner / joint account
<b>CSD-04032</b>	Another investor is already registered with the same identification data.
<b>CSD-04046</b>	The current investor registration application s/n has already been used. Please use a different one.
<b>CSD-04052</b>	Another investor is already registered with the same identification.
<b>CSD-08002</b>	Unknown requested service
<b>CSD-08003</b>	Unknown response destination channel requested
<b>CSD-08004</b>	Unknown response content type requested
<b>CSD-08005</b>	Message not allowed via this route, on behalf of participant
<b>CSD-08006</b>	XML document is not well-formed
<b>CSD-08007</b>	XML document is not valid
<b>CSD-05103</b>	Quantity should be greater than zero
<b>CSD-05104</b>	Invalid application date.
<b>CSD-50010</b>	Account validation failure
<b>CSD-50011</b>	Only one of the accounts can belong to a joint share
<b>CSD-50012</b>	The source account is not a valid securities account
<b>CSD-50013</b>	The destination account is not a valid securities account
<b>CSD-50014</b>	The destination securities account does not belong to the destination joint share
<b>CSD-50015</b>	The source securities account does not belong to the source joint share
<b>CSD-50016</b>	Unknown source account
<b>CSD-50017</b>	Unknown destination account
<b>CSD-50020</b>	Unkown legal document type
<b>CSD-50021</b>	Invalid application serial number
<b>CSD-50022</b>	Invalid transaction number
<b>CSD-50023</b>	The operator has no registered statement of usage for the source account or the account does not exist.
<b>CSD-50024</b>	The operator has no registered statement of usage for the destination account or the account does not exist.
<b>CSD-50026</b>	Transferred quantity must be greater than zero (0)
<b>CSD-50028</b>	Unknown security

<b>CSD-50029</b>	The security and quantity fields must be empty
<b>CSD-50060</b>	Transfer record retrieval failure
<b>CSD-60094</b>	The CSD must be indicated as the destination operator

A table with Status codes (combined with the relevant explanations), which appear in field 25D (Subsequence **A2 Status**) of MT548, messages sent from (API) is given below.

<b>CODE</b>	<b>Explanation</b>
<b>DDAT</b>	Non-acceptable settlement date.
<b>DTRD</b>	Non-acceptable trade date.
<b>SETS</b>	Non-acceptable settlement method.
<b>SAFE</b>	Non-acceptable source/target account values.
<b>SETR</b>	Non-acceptable transaction reason (associated with the transaction reason as described in the qualifier SETR field 22F of sequence E of the message).
<b>DEPT</b>	Non-acceptable place of settlement (depository).
<b>DSEC</b>	Non-acceptable ISIN code.
<b>DMON</b>	Non-acceptable financial transaction value.
<b>NCRR</b>	Non-acceptable currency transaction value.
<b>PLCE</b>	Non-acceptable place of transaction (market).
<b>DQUA</b>	Non-acceptable quantity of transaction.
<b>ICAG</b>	Non-acceptable participant (participant or counterparty).
<b>CANI</b>	The settlement instruction was cancelled by the instructor.
<b>CANS</b>	The settlement instruction was cancelled by the system (DSS).
<b>NMAS</b>	Not attempted or failed to match the settlement instruction.
<b>CMIS</b>	Counterparty's settlement instruction not found.
<b>BOTH</b>	Both settlement instructions are on Hold.
<b>PREA</b>	The settlement instruction of the instructor is on Hold.
<b>PRCY</b>	The counterparty's instruction is on Hold.
<b>LACK</b>	There is no sufficient quantity in the source account of the instructor.
<b>CLAC</b>	There is no sufficient quantity in the source account of the counterparty.
<b>MONY</b>	There are no sufficient money in the account of the instructor.
<b>CMON</b>	There are no sufficient money in the account of the counterparty.
<b>CONF</b>	Awaiting verification from the counterparty.
<b>NARR</b>	Status which does not fall under one of the aforementioned categories and the cause is described in Subsequence <b>A2a Reason</b> of the message.

## 11 Appendix III: GeneralErrorMessage

The following table illustrates the contents of "GeneralErrorMessage".

		Field Description	Mandatory Y(es)/N(o)	Premissible values
<b>GeneralErrorMessage</b>				
→	<b>Error</b>	The error that occurred while processing the request.	Y	Alphanumeric
→	<b>ErrorDescription</b>	An optional description of the error.	N	Alphanumeric



## 12 References

Reference	Link
<b>SWIFT</b>	<a href="http://www.swift.com">www.swift.com</a>
<b>International Organization for Standardization, ISO 15022 Data Field Dictionary</b>	<a href="http://www.iso15022.org">http://www.iso15022.org</a>
<b>World Wide Web Consortium</b>	<a href="http://www.w3.org">http://www.w3.org</a>
<b>Extensible Markup Language, (XML) 1.0</b>	<a href="http://www.w3.org/TR/REC-xml">http://www.w3.org/TR/REC-xml</a>
<b>Hellenic Exchanges Group</b>	<a href="http://www.helex.gr">http://www.helex.gr</a>
<b>Information on SFTP</b>	<a href="http://en.wikipedia.org/wiki/SSH_File_Transfer_Protocol">http://en.wikipedia.org/wiki/SSH_File_Transfer_Protocol</a>
<b>Athex Gateway documentation can be found on</b>	<a href="http://www.helex.gr/web/guest/members-new-projects-new-reinnovating-dss">http://www.helex.gr/web/guest/members-new-projects-new-reinnovating-dss</a>