

# The Derivatives Service Bureau (DSB)

**FIX Rules of Engagement** 

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# Preface

# **Change History**

Date	Change	Version	Author	Revision Details
20 September 2016	Creation	0.1	Yuval Cohen	Initial Version
27 March 2017	Amendments	1.0 RC1	Yuval Cohen	Minor corrections
				Addition of error scenarios
				Additions of message samples
				Additional information about Product
				definitions
				Support FIX version 4.4
				Branded for DSB
				Amended examples based on new
				product schema
2 May 2017	Minor typos	1.01 RC1	Yuval Cohen	Minor typo corrections
10 May 2017	Amendment	1.02 RC1	Yuval Cohen	Added AssetClass(1938) to
				SecurityDefinition[35=d]
19 June 2017	Amendment	1.02 RC1	Sheryl Tan	Added NoRelatedSym (146)
				Added "2 = No Instruments found that
				match selection criteria" to
				SecurityRequestResult (560)
28 July 2017	Additions	2.00 RC1	Yuval Cohen	Added clarifications about the number
				of inflight messages.
				Added workflows:
				- Search by attributes
				- Test for ISIN existence
				Added Business Message Reject
10 August 2017	Clarifications	2.01 RC1	Yuval Cohen	Clarifications about SubID, username
				and password.

# 1 Introduction

### 1.1 Document Purpose

This specification defines the implementation of the Financial Information eXchange (FIX) protocol by the DSB [The Derivatives Service Bureau (DSB) limited] for the purpose of determining the ISIN for a financial instrument. In doing so it aims to provide a comprehensive reference guide to any such institutions who wish to establish FIX connectivity to the DSB.

FIX is a public-domain specification owned and maintained by FIX Protocol, Ltd. For more information about the FIX protocol, including a list of vendors providing support, see <a href="http://www.fixtradingcommunity.org">http://www.fixtradingcommunity.org</a>.

#### 1.2 Intended Audience

Anyone with an interest in determining ISINs for financial OTC derivatives instruments using the FIX Protocol.

#### 1.3 Scope

This document focuses on the use of the FIX Protocol to define and query for ISINs for OTC derivative financial products.



# 1.4 Contact Information

Please direct your questions on the FIX interface via email <a href="technical.support@anna-dsb.com">technical.support@anna-dsb.com</a>

# 1.5 Functional Summary

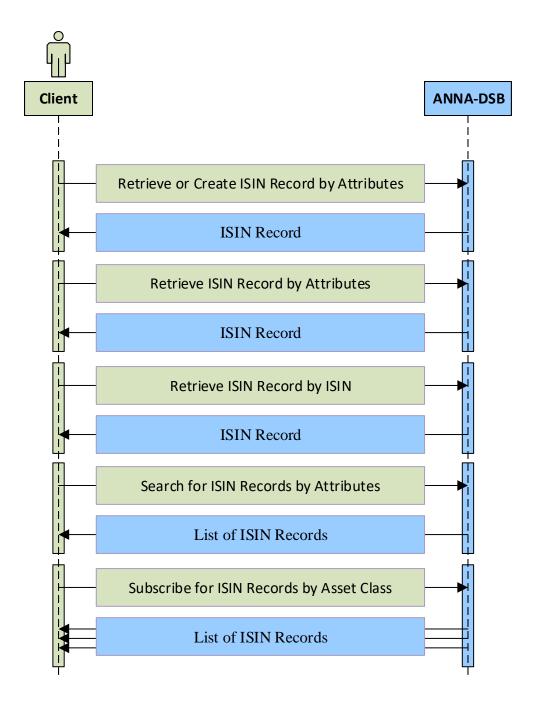
The DSB FIX interface provides a near real time service to determine ISINs for OTC derivative financial instruments. The financial instrument is defined by a set of attributes determined by the industry as required to assure uniqueness for each type of financial instrument supported by the DSB service.

The interface is based on the FIX Protocol and once connected to DSB, the client is able to create a new ISIN, search for one (or more) ISINs or subscribe to all ISINs.



# 1.6 Activity Diagram Summary

The following diagram illustrates, the DSB FIX interface:



**Diagram 1: Activity Diagram** 



#### 1.7 Document Structure

This document contains the following sections:

Section Number	Title	Description
Section 1	Introduction	A brief introduction to this document providing background to the purpose of the document and the DSB FIX interface.
Section 2	Site Preparation	Provides details of the FIX implementation and the tasks that are required before connectivity can take place.
Section 3	FIX Session Messages	Documents the messages that are employed in the FIX Session Layer and some notes on message formatting.
Section 4	FIX Application Messages	Provides details of the application message flows that are supported DSB.
Section 5	FIX Message Reference	Contains the definitions of the application messages that are supported by the DSB FIX interface including all attributes and enumerations.
Section 6	Message Samples	Some sample FIX messages that illustrate the possible contents of the supported FIX messages.

# 2 Site Preparation

#### 2.1 Introduction

The following preparation is required to connect to the DSB FIX interface:

- Select the FIX version to use: DSB FIX interface supports FIX5.0SP2 as well as FIX 4.4
- DSB operations will provide the following connectivity parameters:
  - FIX specific "channel identifier" that the counterparty will use to communicate with DSB FIX interface.
  - FIX session identifiers
    - CompID (SenderCompID and TargetCompID)—Identifies the entity that connects to the DSB over FIX
    - SubID (SenderSubID and TargetCompID)- identifies the specific message originator; Where the connection is from an intermediary the CompID identifies the intermediary, whilst the SubID identifies the end user.
  - o DSB authorization and authentication
    - Username Used by the DSB to authorise the user
    - Password Used by the DSB to authenticate the user
  - IP addresses of the DSB FIX engine
  - Encryption methodology and parameters i.e. either TLS(SSL) keys or VPN configuration
- Make any network/firewall configuration changes required to connect to the DSB FIX service. Verify that the DSB IP FIX service addresses/port numbers are open and visible from any machine that needs to connect to the FIX service.
- Configure the local FIX engine with the DSB CompID accordingly.



### 2.2 JSON Product Definitions Representation as JSON Schema

#### 2.2.1 Product Definitions

The DSB Product Committee defines the set of Product Definitions for all OTC derivatives in scope and any future changes or additions will be made under the advisement of the Product Committee. Each Product Definition can be identified by:

- Asset Class
- Instrument Type
- Use case
- Level

Further information about the Product Definition will be available on our web-site.

#### 2.2.2 JSON and JSON Schema

JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. JSON Schema describe existing data format in a clear, human and machine readable documentation and provides complete structural validation which are useful to validate the client submitted data.

JSON standards are available in <u>ECMA-404</u> as well as in <u>RFC-7159</u>.

JSON Schema standards are available in: <u>JSON-SCHEMA-04</u>

#### 2.2.3 Product Definition as JSON Schema

The Product Definitions are formatted as a machine readable format in a set of JSON schema files, which are made available by the DSB system. Users are expected to use these JSON schema when requesting an ISIN numbers via FIX messaging.

For each Product Definition there are two JSON schema files:

1	1 File: Request schema file				
	Description: a schema that defines the attributes in order to request a new ISIN				
Naming Convention: Request. <assetclass>.<instrumenttype>.<usecase>.<level>.json</level></usecase></instrumenttype></assetclass>					
	<b>Example of a name:</b> Request.Rate.Swap.FixedFloatPlainVanilla.InstRefDataReporting.json				
2	File: Record schema file				
	<b>Description</b> : a schema that defines the attributes in the ISIN record which is returned from the DSB				
	Naming Convention: <assetclass>.<instrumenttype>.<usecase>.<level>.<version>.json</version></level></usecase></instrumenttype></assetclass>				
	Example of a name: Rate.Swap.FixedFloatPlainVanilla.InstRefDataReporting.V1.json				

The example for the name above is for a Product Definition where:

- Asset Class = Rate
- Instrument Type = Swap
- Use Case = FixedFloatPlainVanilla
- Level = InstRefDataReporting

The (Template) Version is added for backwords compatibility to the record file only

• Template Version = V1

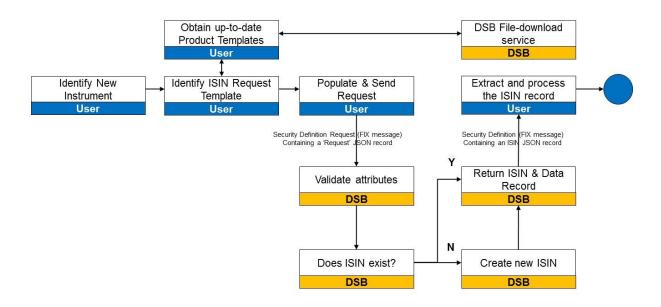


#### 2.2.4 Using JSON Schema

This subsection lists some of the main tasks and procedures to interact with the DSB system

- 1. User needs to obtain the up-to-date JSON schema
  - I. JSON schema are available to download from the DSB web-site (in the file-download section)
  - II. JSON schema are also available through GitHub in: <a href="https://github.com/ANNA-DSB">https://github.com/ANNA-DSB</a>
- 2. To request a new ISIN, the user needs to:
  - I. Select a 'Request' JSON schema. Each Request JSON Schema can be uniquely identified by four attributes:
    - Asset Class
    - Instrument Type
    - Use Case
    - Level
  - II. Format the required instrument and supply its attributes as a valid *JSON request for* an instrument record based on the Request JSON Schema
  - III. "Wrap" the JSON request for an instrument record within a SecurityDefinitionRequest FIX message [message type = c]
- 3. User may send the SecurityDefinitionRequest over the FIX session to DSB. This message contains a *JSON request for an instrument record* in tag SecurityXML(1185)
- 4. The DSB will reply with a SecurityDefinition FIX message [message type = d]
- 5. In case the Security Definition Request succeeds, then the SecurityDefinition FIX message contains a *JSON instrument record* in FIX tag SecurityXML (1185)
- 6. To parse the JSON instrument record, the user needs to:
  - I. Extract the TemplateVersion attribute and Header which contains:
    - Asset Class
    - Instrument Type
    - Use Case
    - Level
  - II. Select the relevant JSON record schema that matches above attribute
  - III. Continue to parse additional attributes in the *JSON instrument record* as it must be a valid record based on the schema found above





**Diagram 2: Using JSON Schema** 

# 2.3 FIX Protocol Implementation Notes

The DSB FIX interface supports a subset of the FIX specification. The latest versions of the FIX specification documents can be found at <a href="http://www.fixtradingcommunity.org">http://www.fixtradingcommunity.org</a>
This document is not meant to restate the FIX specification, but rather to explain how DSB FIX service has chosen to interpret certain aspects of the protocol.

#### 2.3.1 Data Format Notes

DSB FIX interface supports tag/value formatting. No FIXML support.

#### 2.3.2 Data Encryption

Internal FIX encryption (using Logon field 98) will not be supported by the DSB FIX interface implementation. Data security is addressed at the communications level through the use of private circuits.

#### 2.3.3 Restricting number of inflight messages

According to the DSB Acceptable User Policy, the DSB restrict users to send a single SecurityDefinitionRequest[35=c] at a time. i.e. users are expected to wait for a response (message SecurityDefinition[35=d]) before sending the next SecurityDefinitionRequest[35=c] message. Messages of type SecurityDefinitionRequest[35=c] that are sent in "a burst" (i.e. without waiting for a response) may be rejected with a BusinessMessageReject(35=j) message.

#### 2.3.4 Throttling: Restrict multiple inflight messages

The DSB FIX interface restrict users to send only a single message type at a time. Users expected to wait for a response from the DSB before sending the next message of the same type.

The DSB will send a BusinessMessageReject[35=j] in case users sends too many messages without waiting for a response.



# 3 FIX Session Messages

# 3.1 Standard Header Fields

The message header contains information necessary for routing of all FIX messages. Fields that are defined in the FIX specification but are not included in the following table will be ignored.

Name	Datatype	Tag	Rq	Description
BeginString	String	8	Y	FIX 5.0: Always set to: FIXT.1.1
				FIX 4.4: Always set to: FIX4.4
BodyLength	Length	9	Y	Message length, in bytes, forward to the CheckSum field. Always the second field of the message.
MsgType	String	35	Y	Always the third field of the message.  Supported values:  0 = Heartbeat  1 = TestRequest  2 = ResendRequest  3 = Reject  4 = SequenceReset  5 = Logout  A = Logon  j = BusinessMessageReject  c = SecurityDefinitionRequest  d SecurityDefinition  x = SecurityListRequest  y = SecurityList
ApplVerID	String	1128	Y	FIX 5.0: Field must contain: 9 = FIX50SP2 FIX 4.4: Field must contain: 6 = FIX44
SenderCompID	String	49	Y	Assigned value used to identify firm sending message.
TargetCompID	String	56	Y	Assigned value used to identify receiving firm
MsgSeqNum	SeqNum	34	Y	Integer message sequence number.
PossDupFlag			Supported values: N = Original transmission	
SendingTime	UTCTimestamp	52	Y	Time of message transmission.
OrigSendingTime	UTCTimestamp	122	N	Original time of message transmission when retransmitting as the result of a resend request.
SenderSubID	String	50	N	According to the FIX Standard
SenderLocationID	String	142	N	According to the FIX Standard
TargetSubID	String	57	N	According to the FIX Standard
TargetLocationID	String	143	N	According to the FIX Standard



#### 3.2 Standard Trailer Fields

The message trailer is included on all FIX messages.

Name	Datatype	Tag	Rq	Description
CheckSum	String	10	Υ	As per FIX specification

### 3.3 Heartbeat (35=0) Message

Heartbeat messages are sent at regular intervals to maintain a FIX session during periods of inactivity and to validate both parties are connected. The processing of these messages is per the FIX specification and the heartbeat interval is specified in the HeartBtInt (108) field of the Logon message.

### 3.4 Logon (35=A) Message

Logon message contains authentication information for a user attempting to establish a FIX connection. FIX counterparties should not send any FIX messages to DSB FIX interface until after a Logon acknowledgment has been received.

The Logon message is used to establish a FIX session and the session is always initiated by the counterparty. DSB FIX interface will always be the server listening for Logon requests. Each time a connection is established to the DSB FIX interface, the counterparty must send a Logon message. DSB FIX interface will send a Logon message in response to indicate that a session has been successfully established (or re-established).

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>			Υ	MsgType = A
EncryptMethod	int	98	Y	This will be set to 0. 0 = None / Other
HeartBtInt	int	108	Y	DSB FIX interface will set this value to 30 seconds by default.
ResetSeqNumFlag	Boolean	141	N	Indicates both sides of a FIX session should reset sequence numbers  N = No  Y = Yes, reset sequence numbers
MaxMessageSize	Length	383	N	Can be used to specify the maximum number of bytes supported for messages received
Username	String	553	Y	Userid or Username Mandatory for Logon messages from the sender.
Password	String	554	Y	Mandatory for Logon messages from the sender.
DefaultApplVerID	String	1137	Y	FIX 5.0: Field must contain: 9 = FIX50SP2 FIX 4.4: Field must contain: 6 = FIX44
<standardtrailer> component</standardtrailer>			Y	

#### Notes:

- If a counterparty's Logon request cannot be accepted because a session is already active, the communications line will be dropped immediately.
- If a counter party's Logon request cannot be accepted due to an authentication failure, the communications line will be dropped immediately.
- FIX sessions will be reset each weekend. Message sequence numbers are assumed to begin
  with "1" at the start of each session. In some cases, FIX sessions may be reset during the day
  upon re-connection.



# 3.5 TestRequest (35=1) Message

DSB FIX interface will send a TestRequest message to force a Heartbeat message from the client if inactivity is detected for a period longer than the specified interval in the client's Logon message. If inactivity continues for a second heartbeat interval,

DSB FIX interface will send a Logout message and break the TCP/IP connection. The client is required to implement the same logic.

### 3.6 ResendRequest (35=2) Message

ResendRequest messages can be sent and received by DSB FIX interface. The processing of these messages is as per the FIX specification.

#### 3.7 Reject (35=3)

Reject messages can be sent and received by DSB FIX interface. The processing of these messages is as per the FIX specification.

### 3.8 SequenceReset (35=4) Message

SequenceReset messages can be sent and received by DSB FIX interface. The processing of these messages is as per the FIX specification.

### 3.9 Logout (35=5) Message

Logout messages can be sent and received by DSB FIX interface. The processing of these messages is as per the FIX specification.



# 4 FIX Message Flows

#### 4.1 Introduction

This section looks at the messages that will be supported by DSB FIX interface.

### 4.2 Retrieve or Create ISIN Record by Attribute

The SecurityDefinitionRequest(35=c) having SecurityRequestType(321)= Request Security identity for the specifications provided(1) is used to create an ISIN record for a financial instrument or return the existing record if the ISIN record already exists. The financial instrument is defined by a *JSON instrument request* object provided in the "record" within the body of the request.

The input SecurityDefinitionRequest(35=c) must contain a "record" component within SecurityXML(1185) where the financial instrument is provided.

The FIX API service will first search for an existing ISIN that has identical attributes as the record (up to normalization, see section 6 in: <u>DSB UAT Product Definition.pdf</u>) and if such an ISIN exists, the result record will contain the ISIN.

If such an ISIN does not exist, the DSB will create a new ISIN for this request.

In both cases, provided the request is valid, the resulting record will contain an ISIN. The client will not be able to tell if the ISIN was just allocated or if it existed prior to this call.

The following diagram illustrates the workflow:



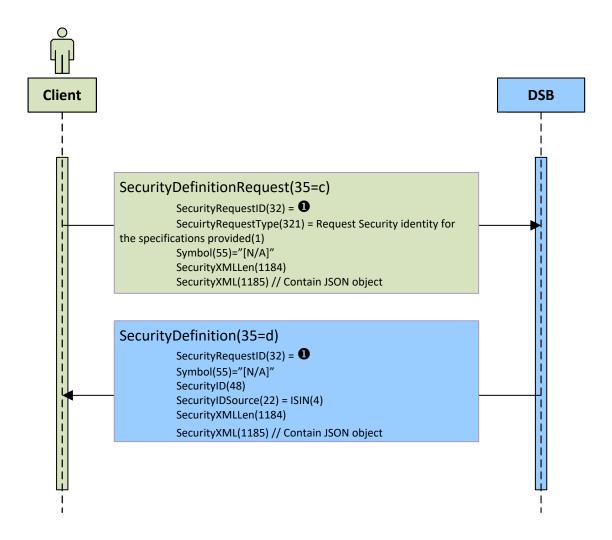


Diagram 3: Retrieve or Create ISIN Record by Attribute



# 4.2.1 Expected Results

The following table contains possible attributes' values of the SecurityDefinition (35=D) message:

Scenario	Security Request Result (560)	Information is available in Text(58) attribute	Expected user action
Valid request: ISIN and JSON payload are available	Valid request(0)	×	
Conditional attribute is missing Malformed of JSON product payload Invalid value in one of the JSON product payload	Invalid Or Unsupported Request(1)	✓	Correct the FIX message or the payload
User is not permitted to create an ISIN	Not Authorized To Retrieve Instrument Data (3)	<b>√</b>	Check tags: Username(553) and Password(554) on the Logon message.  Call support
System is unavailable Any other internal error	Instrument Data Temporarily Unavailable(4)	×	Call support



# 4.3 Retrieve ISIN Record by Attributes

The SecurityDefinitionRequest(35=c) having SecurityRequestType(321)= Symbol(4) is used to return the existing record if the ISIN record already exists. This workflow guarantees that no new record will be added to the system.

The financial instrument is defined by a JSON instrument request object provided in the "record" within the body of the request.

The input SecurityDefinitionRequest(35=c) must contain a "record" component within SecurityXML(1185) where the financial instrument is provided.

The FIX API service will first search for an existing ISIN that has identical attributes as the record (up to normalization, see section 6 in: <u>DSB UAT Product Definition.pdf</u>) and if such an ISIN exists, the result record will contain the ISIN.

If such an ISIN does not exist, then the ISIN record is still returned, including attributes such as the CFI and FISN, but without the ISIN itself and the record is not added to the system.

The following diagram illustrates the workflow:

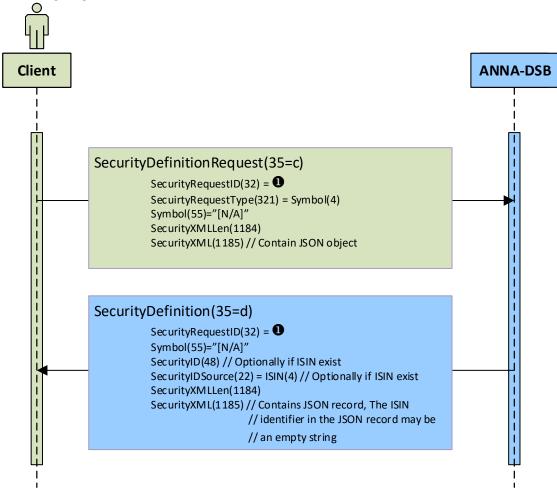


Diagram 4: Retrieve or Create ISIN Record by Attributes



# 4.3.1 Expected Results

The following table contains possible attributes' values of the SecurityDefinition (35=D) message:

Scenario	Security Request Result (560)	Information is available in Text(58) attribute	Expected user action
Valid request: JSON payload is available in SecurityXML(1185) and it contains a valid ISIN identifier	Valid request(0)	×	
Valid request: JSON payload is available in SecurityXML(1185) yet the ISIN identifier is empty. Other attributes like the CFI and FISN are populated.	No instruments found that match selection criteria(2)	×	
Conditional attribute is missing Malformed of JSON product payload Invalid value in one of the JSON product payload	Invalid Or Unsupported Request(1)	✓	Correct the FIX message or the payload
User is not permitted to create an ISIN	Not Authorized To Retrieve Instrument Data (3)	<b>✓</b>	Check tags: Username(553) and Password(554) on the Logon message.  Call support
System is unavailable Any other internal error	Instrument Data Temporarily Unavailable(4)	*	Call support



# 4.4 Retrieve ISIN Record by ISIN

The SecurityDefinitionRequest(35=c) having SecurityRequestType(321)= Request Security identity and specifications(0) is used to return the ISIN Record for an existing ISIN. The ISIN is specified in SecurityID(tag 48). The SecurityIDSource(22) is set to ISIN(4).

The following diagram illustrates the workflow:

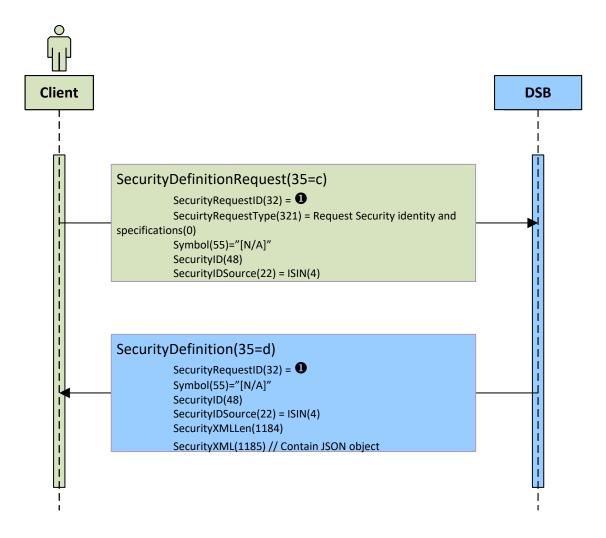


Diagram 5: Request the OTC product definition for an ISIN

### 4.4.1 Expected Results

The following table contains possible attributes' values of the SecurityDefinition (35=D) message:

Scenario	enario Security Request Result (560)	
ISIN and product definitions are available	Valid request(0)	×
ISIN does not exist	No Instruments Found(2)	✓



# 4.5 Search for ISIN Records by Attributes

The SecurityListRequest(35=x) having SubscriptionRequestType(263) = Snapshot(0), ApplSeqNum(1181)=0 and non-empty Text(58) is used to search for ISIN records that match the supplied criteria that is provided in the Text(58) tag.

The response message is SecurityList(35=y). A valid response contains:

- SecurityReguestResults(560)=Valid Reguest(0)
- TotNoRelatedSym(393): The total number of ISIN records that matches the search criteria
- NoRelatedSym(146): The number of ISIN records in this message
- ApplSeqNum(1181): as supplied by the user

The message may contain up to 1,000 ISIN records.

If TotNoRelatedSym(393) is greater than NoRelatedSym(146), user may increment ApplSeqNum(1181)=0 and send the SecurityListRequest(35=x) message again to retrieve the next set of results.

When there are no matching ISIN records the SecurityList(35=y) response message contains:

- SecurityRequestResults(560)=No instruments found that match selection criteria(2)
- TotNoRelatedSym(393) = 0

The following diagram illustrates the workflow:



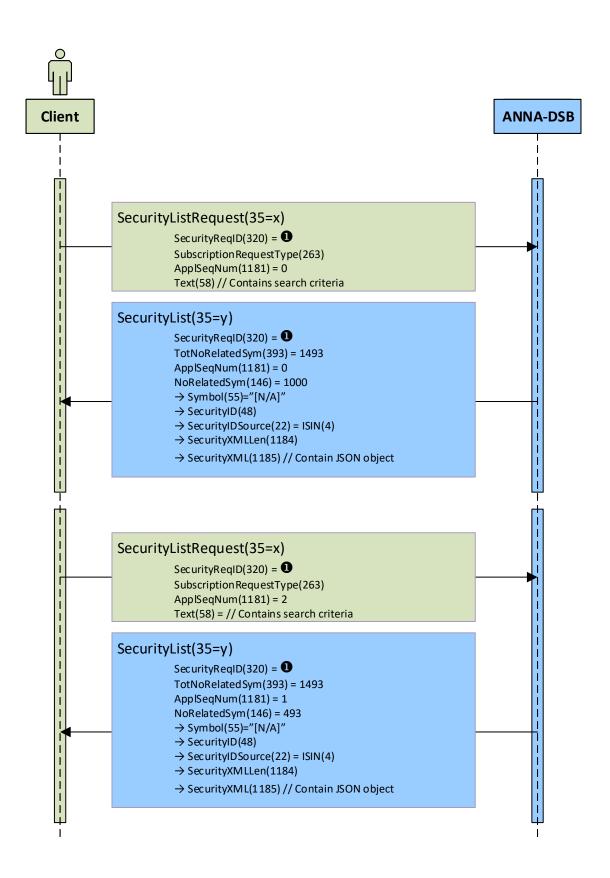


Diagram 6: Search for ISIN Records by Attributes



# 4.5.1 Expected Results

The following table contains possible attributes' values of the SecurityDefinition (35=D) message:

Scenario	Security Request Result (560)	Expected user action
Valid Request	Valid request(0)	
Conditional attribute is missing Invalid attributes' value on the Request	Invalid Or Unsupported Request(1)	Correct the FIX message
System is unavailable Any other internal error	Instrument Data Temporarily Unavailable(4)	Call support



#### 4.6 Subscribe to ISIN Records

The SecurityListRequest(35=x) is used to subscribe to ISIN Records. The list of ISINs Records that were created or updated today (UTC time) are returned in SecurityList(35=y) message(s). The client can subscribe to receive either a snapshot or snapshot and updates.

Clients may filter the request to retrieve ISIN Records of only a single asset class by attaching AssetClass(1938) attribute to the message.

The OTC product definitions may be sent by the server in several SecurityList(35=y) messages. The server by default will not send more than 1,000 ISIN Records in a single SecurityList(35=y) message.

OTC products definitions that were created in previous days can be downloaded through the file download service and will not be provided through this workflow.

The following diagram illustrates the workflow:

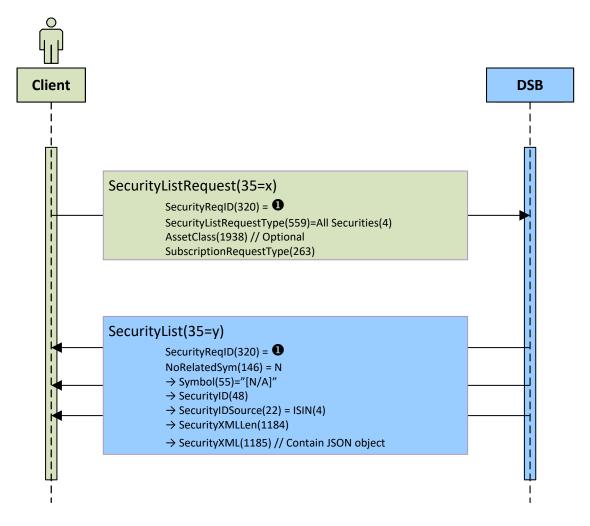


Diagram 7: Subscribe to ISIN Records



# 4.6.1 Expected Results

The following table contains possible attributes' values of the SecurityDefinition (35=D) message:

Scenario	Security Request Result (560)	Expected user action	
Valid Request	Valid request(0)		
Conditional attribute is missing Invalid attributes' value on the Request	Invalid Or Unsupported Request(1)	Correct the FIX message	
System is unavailable Any other internal error	Instrument Data Temporarily Unavailable(4)	Call support	



# 5 FIX Message Reference

### 5.1 Introduction

This section details the FIX Protocol messages that are used by DSB FIX interface.

# 5.2 SecurityDefinitionRequest (35=c)

The SecurityDefinitionRequest(35=c) message is used for the following:

- Request the attributes for a previously defined financial instrument as identified by its ISIN.
- Request (or create) the ISIN for an OTC derivative financial instrument as identified by its unique attributes

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>			Υ	MsgType = c
SecurityReqID	String	320	Y	Identifies the request ID
SecurityRequestType	Int	321	Y	0 = Retrieve or Create ISIN Record by Attributes 1 = Retrieve ISIN Record by ISIN 4 = Retrieve ISIN Record by Attributes
<instrument> component</instrument>				
→ Symbol	String	55	Y	Use: "[N/A]"
→ SecurityID	String	48	N	Conditionally required if SecurityRequestType(321)=0 ISIN
→ SecurityIDSource	String	22	N	Conditionally required if SecurityRequestType(321)=0 SecurityIDSource(22)=ISIN number(4)
→  < SecurityXM> component				
→ → SecurityXMLLen	Int	1184	N	Conditionally required if SecurityRequestType(321)=1
→ → SecurityXML	String	1185	N	Conditionally required if SecurityRequestType(321)=1
<standardtrailer> component</standardtrailer>		Y		



# 5.3 SecurityDefinition (35=d)

The SecurityDefinition(35=d) message is used for the following:

- Return the attributes for a previously defined financial instrument as identified by its ISIN
- Return the ISIN for a financial instrument as identified by its unique attributes
- Report an error in SecurityDefinitionRequest (35=c) message (see below)

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>		Υ	MsgType = d	
SecurityReqID	String	320	Υ	Identifies the request ID
SecurityRequestResult	String	560	Y	<ul> <li>0 = Valid request</li> <li>1 = Invalid or unsupported request</li> <li>2 = No Instruments found that match selection criteria</li> <li>3 = Not authorized to retrieve instrument data</li> <li>4 = Instrument data temporarily unavailable</li> </ul>
<instrument> component</instrument>	<instrument> component</instrument>			Conditionally required if SecurityRequestResult(560) = Valid request(0)
→ Symbol	String	55	Υ	Use: "[N/A]"
→ SecurityID	String	48	Υ	ISIN
→ SecurityIDSource	String	22	Υ	SecurityIDSource(22)=ISIN number(4)
→ AssetClass	String	1938	N	Filter the request to products of a single asset class  1 = Interest rate  2 = Currency (Foreign Exchange)  3 = Credit  4 = Equity  5 = Commodity
→  <securityxm> component</securityxm>				
→ → SecurityXMLLen	Int	1184	Υ	Length of JSON record payload
→ → SecurityXML	String	1185	Υ	JSON record payload
Text	String	58	N	Free format text string that elaborates on an error
TransactTime	UTC Timestamp	60	Y	
<standardtrailer> component</standardtrailer>		Y		



# 5.4 SecurityListRequest (35=x)

The SecurityListRequest(x) message is used to subscribe to a list of securities from the DSB FIX interface that match criteria provided on the request

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>			Υ	MsgType = x
SecurityReqID	String	320	Υ	Identifies the request ID
SecurityListRequestType	Int	559	Y	2= Product: Filter the request to products of a single asset class 4 = All Securities (that were created today, i.e. since midnight).  When searching for ISIN Records, the SecurityListRequestType(559) must be All Securities(4)
<instrument> component</instrument>				
→ Symbol	String	55	N	Available for Subscription only.  Conditionally required if AssetClass(1938) exists  Use: "[N/A]"
→ AssetClass	String	1938	N	Available for Subscription only.  Filter the request to products of a single asset class  1 = Interest rate  2 = Currency (Foreign Exchange)  3 = Credit  4 = Equity  5 = Commodity
SubscriptionRequestType	Char	263	Y	0 = Snapshot 1 = Snapshot + updates 2 = Unsubscribe  When searching for ISIN Records, the SubscriptionRequestType(263) must be Snapshot(0)
ApplSeqNum	SeqNum	1181	С	Conditionally required for search.  The first search start with ApplSeqNum(1181)=0
Text	String	58	С	Conditionally required for search. Search criteria
<standardtrailer> component</standardtrailer>	<standardtrailer> component</standardtrailer>		Y	



# 5.5 SecurityList (35=y)

The Security List message is used to return a list of securities that matches the criteria specified in a Security List Request or to report an error in the SecurityListRequest (35=x) message.

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>		Y	MsgType = y	
ApplSeqNum	SeqNum	1181	С	Conditionally required for search.
SecurityReqID	String	320	Y	Identifies the request ID
NoRelatedSym	Int	146	N	Specifies the number of repeating symbols specified
SecurityRequestResult	Int	560	Y	<ul> <li>0 = Valid request</li> <li>1 = Invalid or unsupported request</li> <li>2 = No Instruments found that match selection criteria</li> <li>3 = Not authorized to retrieve instrument data</li> <li>4 = Instrument data temporarily unavailable</li> </ul>
TransactTime	UTC Timestamp	60	Y	
<seclistgrp> component</seclistgrp>				
→ TotNoRelatedSym	Int	393	N	Conditionally required if SecurityRequestResult = 0
$\rightarrow$   $\rightarrow$   <instrument> component</instrument>				Conditionally required if SecurityRequestResult = 0
→ → Symbol	String	55	Υ	Use: "[N/A]"
→ → SecurityID	String	48	Υ	ISIN
→ → SecurityIDSource	String	22	Υ	SecurityIDSource(22)=ISIN number(4)
→ → AssetClass	String	1938	Y	Filter the request to products of a single asset class  1 = Interest rate  2 = Currency (Foreign Exchange)  3 = Credit  4 = Equity  5 = Commodity
$\rightarrow$ $ \rightarrow$ $ \rightarrow$ $ $ <securityxm> component</securityxm>	nt			
→ → → SecurityXMLLen	Int	1184	Υ	Length of JSON record payload
→ → → SecurityXML	String	1185	Υ	JSON record payload
<standardtrailer> component</standardtrailer>		Υ		



# 5.6 BusinessMessageReject (35=j)

The Business Message Reject message can reject an application-level message which fulfills session-level rules and cannot be rejected via any other means. Note if the message fails a session-level rule (e.g. body length is incorrect), a session-level Reject message will be issued.

Name	Data Type	Tag	Rq	Description
<standardheader> component</standardheader>			Υ	MsgType = j
RefSeqNum	SeqNum	45	Υ	MsgSeqNum of rejected message
RefMsgType	String	372	Y	The MsgType of the FIX message being referenced c = SecurityListRequest
BusinessRejectRefID	String	379	N	The value of the business-level "ID" field on the message being referenced. Required unless the corresponding ID field (see list above) was not specified.
BusinessRejectReason	Int	380	Y	Code to identify reason for a Business Message Reject message.  8 = Throttle Limit Exceeded
<standardtrailer> component</standardtrailer>		Υ		



# 6 FIX Message Samples

# 6.1 Introduction

This section contains FIX message samples.

The table below provides explanation of the samples content:

Field	Content / Highlighted	Comment
FIX delimiter	Λ	ascii 0x001
SenderCompID(49)	Client	Client Comp ID
⇔	⇔	Configured for
TargetCompID(56)	DSB	each client
		The DSB comp
		ID
SenderSubID(49)	Subclient	Client Sub Comp
⇔	<b>⇔</b>	Configured for
TargetSubID(57)	Demo	each client
		⇔
		The DSB Sub
		Comp ID is
		configured for
		each
		environment
		(i.e.: Demo /
		UAT / Prod /
Heaveney (FF2)	USERNAME	Prod2) Configuration
Username(553)	OSERNAME	send by DSB
Password(554)	PASSWORD	Configuration
rassworu(554)	THOOWORD	send by DSB
SecurityXML(1185)	{"Header": {"AssetClass":	Request
00001114741112(22007	"Rates", "InstrumentType":	Product payload
	"Forward", "UseCase": "Debt FRA", "Level":	is highlighted in
	"InstRefDataReporting" } , "Attributes": { "Notion	yellow
	<pre>alCurrency": "CHF","ExpiryDate":</pre>	
	"20171231", "DeliveryType":	
	"Physical", "FirstLegReferenceRate": "CHF- LIBOR-BBA", "FirstLegReferenceRateTerm":	
	{"Unit":"MNTH","Value":6}}}	
SecurityXML(1185)	{"Header": {"AssetClass": "Rates",	Record Payload
00001114741112(22007)	"InstrumentType": "Forward", "UseCase":	is highlighted in
	"Debt FRA", "Level":	yellow
	"InstRefDataReporting" }, "Attributes":	,
	{"NotionalCurrency": "CHF", "ExpiryDate":	
	"20171231", "DeliveryType": "Physical",	
	"FirstLegReferenceRate": "CHF-LIBOR-BBA",	
	"FirstLegReferenceRateTerm": {"Unit": "MNTH", "Value":6}},"ISIN": {"ISIN": "EZ00000001D8",	
	"Status":	
	"New"}, "TemplateVersion":1, "Derived": { "ISOFir	
	stLegReferenceRate":	
	"LIBO", "CommoditiesDerivativesIndicator":	
	"FALSE", "Issuer": "NA", "UnderlyingAssetType":	
	"Interest Rate Index", "ReturnPayout":	
	"Forward price of underlying	



# 6.2 Logon message

The following is a sample of a Logon message (35=A)

```
8=FIXT.1.1^9=149^35=A^34=1^49=Client^50=Subclient^52=20170105-
06:26:05.345^56=DSB^57=Demo^98=0^108=30^553=USER^554=PASSWORD^1137=9^10=068
```

### 6.3 Heartbeat message

The following is a sample of a Heartbeat message (35=0)

```
8=FIXT.1.1^9=78^35=0^34=39^49=DSB^50=Demo^52=20170105-
07:00:21.260^56=Client^57=Subclient^10=082
```

### 6.4 Security Definition Request message having a product payload

The following is a sample of a SecurityDefinitionRequest message (35=c) having a product payload

```
8=FIXT.1.1^9=504^35=c^34=300^49=Client^50=Subclient^52=20170105-
09:09:01.859^56=DSB^57=Demo^55=[N/A]^320=DREQ3^321=1^1184=306^1185={"Header":{"As setClass":"Rates","InstrumentType":"Forward","UseCase":"Debt_FRA","Level":"InstRefDataReporting"},"Attributes":{"NotionalCurrency":"CHF","ExpiryDate":"20171231","DeliveryType":"Physical","FirstLegReferenceRate":"CHF-LIBOR-BBA","FirstLegReferenceRateTerm":{"Unit":"MNTH","Value":6}}}^10=004
```

#### 6.5 Security Definition Request message having an ISIN

The following is a sample of a SecurityDefinitionRequest message (35=c) having an ISIN

```
8=FIXT.1.1^9=120^35=c^34=14^49=Client3^50=Subclient^52=20170216-
11:22:41.745^56=DSB^57=Demo^22=4^48=EZ0000000037^320=DREQ1^321=0^10=089
```

### 6.6 Security Definition message – With ISIN identifier

The following is a sample of a SecurityDefinition message (35=d)

```
8=FIXT.1.1^9=889^35=d^34=301^49=DSB^50=Demo^52=20170105-
09:09:01.700^56=Client^57=Subclient^22=4^48=EZ00000001D8^55=[N/A]^320=DREQ3^560=0^1
184=686^1185={"Header":{"AssetClass":"Rates","InstrumentType":"Forward","Use
Case":"Debt_FRA","Level":"InstRefDataReporting"},"Attributes":{"NotionalCur
rency":"CHF","ExpiryDate":"20171231","DeliveryType":"Physical","FirstLegRef
erenceRate":"CHF-LIBOR-
BBA","FirstLegReferenceRateTerm":{"Unit":"MNTH","Value":6}},"ISIN":{"ISIN":
"EZ00000001D8","Status":"New"},"TemplateVersion":1,"Derived":{"ISOFirstLegRef
eferenceRate":"LIBO","CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA
","UnderlyingAssetType":"InterestRateIndex","ReturnPayout":"Forwardpriceofu
nderlyinginstrument","PriceMultiplier":1,"LongName":"RatesForwardFRA_Index_
CHFCHF-
6MNTH20171231","FISN":"NA/ForwardCHF20171231","CFI":"JRIXFP"}}^1938=3^10=055
```



#### 6.7 Security Definition message – Without ISIN identifier

The following is a sample of a SecurityDefinition message (35=d) as a response to 'Retrieve ISIN record" where the ISIN identifier does not exist

```
8=FIXT.1.1^9=889^35=d^34=301^49=DSB^50=Demo^52=20170105-
09:09:01.700^56=Client^57=Subclient^55=[N/A]^320=DREQ3^560=0^1184=686^1185={"Heade r":{"AssetClass":"Rates", "InstrumentType":"Forward", "UseCase":"Debt_FRA", "Level":"InstRefDataReporting"}, "Attributes":{"NotionalCurrency":"CHF", "Expir yDate":"20171231", "DeliveryType":"Physical", "FirstLegReferenceRate":"CHF-LIBOR-BBA", "FirstLegReferenceRateTerm":{"Unit":"MNTH", "Value":6}}, "ISIN":{"ISIN":"", "Status":"New"}, "TemplateVersion":1, "Derived":{"ISOFirstLegReferenceRate":"LIBO", "CommoditiesDerivativesIndicator":"FALSE", "Issuer":"NA", "Underlyin gAssetType":"InterestRateIndex", "ReturnPayout":"Forwardpriceofunderlyingins trument", "PriceMultiplier":1, "LongName":"RatesForwardFRA_Index_CHFCHF-6MNTH20171231", "FISN":"NA/ForwardCHF20171231", "CFI":"JRIXFP"}}^1938=3^10=055
```

#### 6.8 Security List Request message - Subscription

The following is a sample of a SecurityListRequest message (35=x). The request is for a snapshot of FX instruments

```
8=FIXT.1.1^9=104^35=x^34=3^49=Client^50=Subclient^52=20170202-
12:04:07.548^56=DSB^57=Demo^263=0^320=LREQ1^559=2^1938=2^10=134
```

#### 6.9 Security List Request message - Search

The following is a sample of a SecurityListRequest message (35=x). The request is for a snapshot of FX instruments

```
8=FIXT.1.1^9=460^35=c^34=13^49=mockUserFix50SP2^50=mockSubUserFix50SP2^52=20170802-09:39:02.460^56=mockServerCompID^57=mockServerSubID^55=[N/A]^320=DREQ12^321=1^1184=30^11185={"Header":{"AssetClass":"Rates","InstrumentType":"Swap","UseCase":"Fixed_Float","Level":"InstRefDataReporting"},"Attributes":{"NotionalCurrency":"EUR","Expir yDate":"2017-07-29","ReferenceRate":"AED-EBOR-Reuters","ReferenceRateTermValue":1,"ReferenceRateTermUnit":"DAYS","NotionalSchedule":"Constant"}}^10=034
```

#### 6.10 Security List message

The following is a sample of a SecurityList message (35=y)

```
8=FIXT.1.1^9=1967^35=y^34=3^49=DSB^50=Demo^52=20170216-
05:59:47.716^56=Client^57=Subclient^60=20170216-
05:59:47.714^320=LREQ1^560=0^146=9^55=[N/A]^48=EZ000000000F5^22=4^1938=0^1184=697^11
85={"Header":{"AssetClass":"Rates","InstrumentType":"Forward","UseCase":"Debt_FRA",
"Level":"InstRefDataReporting"},"Attributes":{"NotionalCurrency":"EUR","ExpiryDate"
:"20190101","DeliveryType":"Cash","FirstLegReferenceRate":"AED-EBOR-
Reuters","FirstLegReferenceRateTerm":{"Value":1,"Unit":"DAYS"}},"ISIN":{"ISIN":"EZ0
0000000F5","Status":"New"},"TemplateVersion":1,"Derived":{"ISOFirstLegReferenceRate
":"AED-EBOR-
Reuters","CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA","UnderlyingAssetTy
pe":"Interest Rate Index","ReturnPayout":"Forward price of underlying
instrument","PriceMultiplier":1,"LongName":"RatesForwardFRA_Index_EURAED-
1DAYS20190101","FISN":"NA/ForwardEUR20190101","CFI":"JRIXFC"}}^55=[N/A]^48=EZ000000
00W0^22=4^1938=0^1184=697^1185={"Header":{"AssetClass":"Rates","InstrumentType":"Forward","UseCase":"Debt_FRA","Level":"InstRefDataReporting"},"Attributes":{"Notional
Currency":"AUD","ExpiryDate":"20210105","DeliveryType":"Cash","FirstLegReferenceRate
```



```
: "AED-EBOR-
Reuters","FirstLeqReferenceRateTerm":{"Value":1,"Unit":"DAYS"}},"ISIN":{"ISIN":"EZO
0000000W0","Status":"New"},"TemplateVersion":1,"Derived":{"ISOFirstLegReferenceRate
 :"AED-EBOR-
Reuters","CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA","UnderlyingAssetTy
pe":"Interest Rate Index", "ReturnPayout": "Forward price of underlying
instrument","PriceMultiplier":1,"LongName":"RatesForwardFRA Index AUDAED
1DAYS20210105","FISN":"NA/ForwardAUD20210105","CFI":"JRIXFC"}}^55=[N/A]^48=EZ000000
0193^22=4^1938=0^1184=697^1185<mark>={"Header":{"AssetClass":"Rates","InstrumentType":"F</mark>c
cward","UseCase":"Debt_FRA","Level":"InstRefDataReporting"},"Attributes":{"Notional
Currency":"EUR","ExpiryDate":"20170404","DeliveryType":"Cash","FirstLegReferenceRat
e":"AED-EBOR-
Reuters", "FirstLegReferenceRateTerm": {"Value":1, "Unit":"DAYS"}}, "ISIN": {"ISIN":"EZC
000000193", "Status": "New"}, "TemplateVersion":1, "Derived": { "ISOFirstLegReferenceRate
':"AED-EBOR-
Reuters","CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA","UnderlyingAssetTy
pe":"Interest Rate Index","ReturnPayout":"Forward price of underlying
instrument","PriceMultiplier":1,"LongName":"RatesForwardFRA Index EURAED
1DAYS20170404", "FISN": "NA/ForwardEUR20170404", "CFI": "JRIXFC"}}^55=[N/A]^48=EZ000000
01D8^22=4^1938=0^1184=686^1185<mark>={"Header":{"AssetClass":"Rates","</mark>InstrumentType":"Fo
rward","UseCase":"Debt_FRA","Level":"InstRefDataReporting"},"Attributes":{"Notional
Currency":"CHF","ExpiryDate":"20171231","DeliveryType":"Physical","FirstLegReference
eRate":"CHF-LIBOR-
BBA","FirstLegReferenceRateTerm":{"Unit":"MNTH","Value":6}},"ISIN":{"ISIN":"EZ00000
001D8","Status":"New"},"TemplateVersion":1,"Derived":{"ISOFirstLegReferenceRate":"I
IBO","CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA","UnderlyingAssetType":
 'Interest Rate Index","ReturnPayout":"Forward price of underlying
instrument", "PriceMultiplier":1, "LongName": "RatesForwardFRA_Index_CHFCHF-6MNTH20171231", "FISN": "NA/ForwardCHF20171231", "CFI": "JRIXFP"}}^55=[N/A]^48=EZ000000
00T6^22=4^1938=0^1184=755^1185={"Header":{"AssetClass":"Rates","InstrumentType":"S
    ,"UseCase":"Fixed_Float_Plain_Vanilla","Level":"InstRefDataReporting"},"Attribu
tes":{"NotionalCurrency":"EUR","ExpiryDate":"20200101","FirstLegReferenceRate":"AED
-EBOR-
Reuters", "FirstLegReferenceRateTerm": { "Value":1, "Unit": "DAYS" }, "NotionalSchedule":
Accreting"},"ISIN":{"ISIN":"EZ00000000T6","Status":"New"},"TemplateVersion":1,"Deri
ved":{"ISOFirstLegReferenceRate":"AED-EBOR-
Reuters","CommoditiesDerivativesIndicator":"FALSE","UnderlyingAssetType":"Fixed -
Float", "DeliveryType": "Physical", "SingleOrMultiCurrency": "SingleCurrency", "Issuer":
"NA", "PriceMultiplier":1, "LongName": "RatesSwapsFixed_Float_Plain_Vanilla_EURAED-
EBOR-
Reuters1DAYS20200101","FISN":"NA/SwapsEURFixed20200101","CFI":"SRCISP"}}^55=[N/A]^4
8=EZ00000001V0^22=4^1938=0^1184=568^1185={"Header":{"AssetClass":"Rates","Instrumer
Type":"Forward","UseCase":"FRA Other","Level":"InstRefDataReporting"},"Attributes
 {"NotionalCurrency":"ARS","ExpiryDate":"20250102","UnderlyingAssetType":"Options"
"UnderlyingInstrumentCode":"","DeliveryType":"Physical"},"ISIN":{"ISIN":"EZ00000001
VO","Status":"New"},"TemplateVersion":1,"Derived":{"CommoditiesDerivativesIndicator
":"FALSE","Issuer":"NA","ReturnPayout":"Forward price of underlying
instrument","PriceMultiplier":1,"LongName":"RatesForwardFRA_Other_ARS20250102","FIS
N":"NA/ForwardARS20250102","CFI":"JROXFP"}}^55=[N/A]^48=EZ00000001G1^22=4^1938=0^11
84=572^1185={"Header":{"AssetClass":"Rates","InstrumentType":"Forward","UseCase":
RA_Other","Level":"InstRefDataReporting"},"Attributes":{"NotionalCurrency":"CHF","E
xpiryDate":"20171231","UnderlyingAssetType":"Options","UnderlyingInstrumentCode":"I
SIN", "DeliveryType": "Physical"}, "ISIN": {"ISIN": "EZ00000001G1", "Status": "New"}, "Temp
lateVersion":1,"Derived":{"CommoditiesDerivativesIndicator":"FALSE","Issuer":"NA",
ReturnPayout":"Forward price of underlying instrument","PriceMultiplier":1,"LongName":"RatesForwardFRA Other CHF20171231","FIS
N":"NA/ForwardCHF20171231","CFI":"JROXFP"}}^55=[N/A]^48=EZ00000000M1^22=4^1938=0^11
84=868^1185={"Header":{"AssetClass":"Rates","InstrumentType":"Swaps","UseCase":"Basis","Level":"InstRefDataReporting"},"Attributes":{"NotionalCurrency":"EUR","ExpiryD
ate":"20250101","FirstLegReferenceRate":"AUD-BBR-
AUBBSW","FirstLegReferenceRateTerm":{"Value":1,"Unit":"YEAR"},"OtherLegReferenceRat
e":"AUD-Semi-Annual Swap Rate-ICAP-Reference
Banks","OtherLegReferenceRateTerm":{"Value":1,"Unit":"DAYS"},"NotionalSchedule":"C
nstant"},"ISIN":{"ISIN":"EZ0000000M1","Status":"New"},"TemplateVersion":1,"Derived
":{"ISOFirstLegReferenceRate":"AUD-BBR-
AUBBSW","ISOOtherLegReferenceRate":"SWAP","CommoditiesDerivativesIndicator":"FALSE"
 "UnderlyingAssetType":"Float -
```



Float", "DeliveryType": "Physical", "SingleOrMultiCurrency": "SingleCurrency", "Issuer": "NA", "PriceMultiplier":1, "LongName": "RatesSwapsBasis\_EURAUD-AUD-1YEAR1DAYS20250101", "FISN": "NA/SwapsEURBasis20250101", "CFI": "SRACSP"}}^55=[N/A]^48=EZ00000000J7^22=4^1938=0^1184=856^1185={"Header":{"AssetClass": "Rates", "InstrumentType": "Swaps", "UseCase": "Basis", "Level": "InstRefDataReporting"}, "Attributes":{"NotionalCurrency": "NZD", "ExpiryDate": "20210405", "FirstLegReferenceRate": "AUD-LIBOR-BBA", "FirstLegReferenceRateTerm":{"Value":6, "Unit": "MNTH"}, "OtherLegReferenceRate": "AUD-Quarterly Swap Rate-ICAP-ReferenceBanks", "OtherLegReferenceRateTerm":{"Value":6, "Unit": "MNTH"}, "NotionalSchedule": "Accreting"}, "ISIN":{"ISIN": "EZ0000000J7", "Status": "New"}, "TemplateVersion":1, "Derived":{"ISOFirstLegReferenceRate": "LIBO", "ISOOtherLegReferenceRate": "SWAP", "CommoditiesDerivativesIndicator": "FALSE", "UnderlyingAssetType": "Float -Float", "DeliveryType": "Physical", "SingleOrMultiCurrency": "SingleCurrency", "Issuer": "NA", "PriceMultiplier":1, "LongName": "RatesSwapsBasis\_NZDAUD-AUD-6MNTH6MNTH20210405", "FISN": "NA/SwapsNZDBasis20210405", "CFI": "SRAISP"}}^10=224^

# 6.11 Business Message Reject message

The following is a sample of a BusinessMessageReject (35=j)

8=FIXT.1.1^9=140^35=j^34=2^49=mockServerCompID^50=mockServerSubID^52=20170802-09:39:02.467^56=mockUserFix50SP2^57=mockSubUserFix50SP2^45=13^372=j^379=DREQ12^380=8^10=059



# About Derivatives Service Bureau (DSB)

The Association of National Numbering Agencies ("ANNA"), is founding the Derivatives Service Bureau (DSB), for the issuance and maintenance of International Securities Identification Numbers (ISINs) for OTC Derivatives. The DSB will rely on an automated platform capable of allocating ISINs in near real-time.