



EDGAR® Form N-CEN XML Technical Specification

Version 3.10

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DRAFT DISCLAIMER:

This draft EDGAR Form N-CEN XML Technical Specification is provided as a service to our filing community to assist filers, filing agents, and software developers in their preparation.

This is a draft technical specification and SEC staff retain the right to change any part of the technical specification before the new system release is made final. The final version of the technical specification will be made available on or about June 16, 2025, at <https://www.sec.gov/submit-filings/technical-specifications>.

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1 INTRODUCTION

1.1 Purpose

This document details the valid structure and content of the Form N-CEN Electronic Data Gathering, Analysis, and Retrieval (EDGAR) Extensible Markup Language (XML) submission types. The following table lists the submission types for Form N-CEN.

Table 1-1: N-CEN Submission Types

SUBMISSION TYPE	DESCRIPTION
N-CEN	Annual Report for Registered Investment Companies
N-CEN/A	Amendment to Annual Report for Registered Investment Companies

This specification provides the basis for creating the aforementioned submission types for N-CEN XML submissions. Filers must use this technical specification to generate a N-CEN XML submission that can be successfully parsed by the EDGAR system.

The N-CEN submission file must conform to the EDGAR N-CEN Submission Taxonomy. This taxonomy is comprised of a collection of XML Schema Definition (.xsd) files that define the structures of EDGAR N-CEN submissions.

The N-CEN XML submissions can be transmitted to the SEC via the EDGAR Filing (<https://www.edgarfiling.sec.gov/>) or the “Transmit XML Submission” option from the EDGAR OnlineForms website (<https://www.onlineforms.edgarfiling.sec.gov/>).

To access the EDGAR Filing and EDGAR OnlineForms websites, you must have a Central Index Key (CIK) and a current EDGAR password and CIK confirmation code (CCC).

If you do not have a CIK, password and/or CCC, please consult How Do I Understand and Utilize EDGAR CIKs, Passphrases and Access Codes on SEC.gov.

For further information about EDGAR Filing and EDGAR OnlineForms, specifically with respect to the transmission of filer-constructed submissions, refer to the “Filer Constructed XML Submission” section of the EDGAR Filer Manual, Volume II (EDGAR Filing).

1.2 Summary of Changes

On June 16, 2025, EDGAR Release 25.2 will introduce the following changes:

- The schema file eis_NCEN_Filer will be updated with the following changes:
 - Data type LEI_TYPE_RSS_NA is optional and allows filers to enter up to 20 alphanumeric characters or less because the instructions also allow filers to respond with "N/A" or a 10 digit RSSD ID. **Starting November 17th, 2025, Filers will only be allowed to enter exactly 20 alphanumeric characters or N/A.**
 - Removed the element "returnCopyFlag"
 - Schema eis_NCEN_Filer.xsd updated to include new elements of data type RSSD_ID_TYPE which is optional and allows filers to enter up to 10 numeric characters.
 - authorizedParticipantRssdId
 - depositorRssdId
 - smallCustodianRssdId
 - smallInvestmentAdviserRssdId
 - smallSubAdviserRssdId
 - smallTransferAgentRssdId
 - sponsorRssdId
 - smallInvestmentAdviserTerminatedRssdId
 - smallSubAdviserTerminatedRssdId
 - transferAgentRssdId
 - uitAdminRssdId
 - principalRssdId
 - brokerRssdId
 - brokerDealerRssdId
 - adminRssdId
 - shareholderServiceAgentRssdId
 - custodianRssdId
 - pricingServiceRssdId
 - subAdviserTerminatedRssdId
 - subAdviserRssdId
 - investAdviserTerminatedRssdId
 - investmentAdviserRssdId
 - collateralManagerRssdId
 - indemnityProviderRssdId
 - securitiesAgentRssdId
 - foreignSubsidiaryRssdId
 - liquidityRssdId
 - publicAccountantRssdId
 - principalUnderwriterRssdId
 - Schema eis_NCEN_Filer.xsd updated to include new elements of data type STRING_100_TYPE which is optional and allows filers to put in up to 100 alphanumeric characters.
 - uitAdminOther
 - adminOther
 - shareholderServiceAgentOther
 - pricingServiceOther

- Added Item C.22 Liquidity Classification Services to eis_NCEN_Filer.xsd with elements
 - liquidityClassifications is optional of type LIQUIDITY_CLASSIFICATION_SERVICES_LIST_TYPE
 - liquidityClassificationService is of type LIQUIDITY_CLASSIFICATION_SERVICES_TYPE
 - liquidityName is of type STRING_150_TYPE
 - liquidityLei of type LIQUIDITY_LEI_TYPE
 - liquidityRssdId of type RSSD_ID_TYPE
 - liquidityOther of type STRING_100_TYPE
 - otherDesc of type STRING_500_TYPE
 - A group element type CONDITIONAL_LIQUIDITY_CLASSIFICATION_STATECOUNTRY which is required
 - liquidityStateCountry with attribute liquidityState of type ISO_STATE_AND_OUTLYING_AREA_CODE_USA and attribute liquidityCountry of type ISO_COUNTRY_CODE
 - liquidityCountry of type ISO_FOREIGN_COUNTRY_CODE
 - isAffiliatedPerson of type YES_NO_TYPE
 - assetClassType of type ASSET_TYPE
 - otherAssetDesc of type STRING_500_TYPE which is conditionally optional of ASSET_TYPE value “Other”
 - isLiquidityHiredTerminated is optional of type YES_NO_TYPE

2 EDGAR SCHEMA FILES

Table 2 1: N-CEN Schema Files describes the schema files that the EDGAR system uses to validate N-CEN submissions. These schemas are considered part of this specification and are distributed with this document.

Table 2-1: N-CEN Schema Files

XML Schema File	Scope of File
eis_NCEN_Filer.xsd	Defines the elements for a N-CEN submission
eis_NCEN_Common.xsd	Defines common elements for N-CEN submission
eis_Common_SC.xsd	Defines series and class elements for all EDGAR submissions
eis_Common.xsd	Defines the common elements for all EDGAR submissions
eis_ISO_ExchangeList.xsd	Defines ISO Exchange codes for all N-CEN submissions
eis_ISO_StateCodes.xsd	Defines ISO State Country codes for all N-CEN submissions
eis_stateCodes.xsd	Defines State Country codes referred in eis_Common.xsd.

The schema files define the valid data elements for a Form N-CEN submission, the hierarchy and sequencing of these elements, data types, valid values, maximum lengths, and number of occurrences, etc.

It is recommended that you download these files and use them for your own validation prior to filing a submission. This will greatly reduce the likelihood of receiving an EDGAR Suspend error. These schema files contain several annotations that describe the nature of the content of some of the elements.

EDGAR performs several validation checks that are not related to the schema files, so it is

possible for a submission to meet all the schema constraints and still be SUSPENDED or BLOCKED. For instance, EDGAR verifies that each CIK/CCC pair is valid.

2.1 Schema Table Column Definitions

We assume the filer is familiar with the basics of the XML language, Namespaces, and the XML Schema Definition language. If not, you can find numerous references on the World Wide Web. One recommended website that provides several useful tutorials and examples is <http://www.w3schools.com/>.

The table below highlights the schema language features used most heavily in the EDGAR N-CEN submission schema files. These are:

Table 2-2: Schema Language

Indicator	Purpose
<sequence>	Specifies that child elements must appear in a specific order. This indicator is used with each element hierarchy. Elements must always appear in the order shown in Section 3.4.
<choice>	Specifies that only one of the child elements can be present within the containing element.
<minOccurs>	Specifies the minimum number of times that an element can occur.
<maxOccurs>	Specifies the maximum number of times that an element can occur.

3 XML SCHEMAS

This section summarizes the restrictions and constraints imposed on the content of the N-CEN submission types. These rules are enforced by the schema files and by EDGAR submission processing applications.

The schema files cannot enforce all the rules concerning data content, so it is possible for a submission to satisfy all the schema constraints and still be SUSPENDED or BLOCKED by EDGAR.

3.1 Schema Table Column Definitions

The following table defines the columns in the two schema summation tables provided in Sections 3.4:

Table 3-1: Column Definitions for the Tables in Section 3-4

Column Name	Description
Level	Depth of element in the XML node hierarchy.
Order	Order in which elements must appear.
Data Type	See Table in Section 3.2 for a detailed description.
Element Name	Name of the XML element. This is case-sensitive.
Data Value Constraint	The paragraph that describes the data value constraint for the element. The values specified are case sensitive.
Max Occur	Maximum times a set of elements may be repeated. The maximum occurrence is 1, if not specified.
Applicability of Element	Indicates applicability of the element. m = Mandatory, o = Optional, NA = Does Not Apply. EDGAR uses this element for server-side processing. Do not provide a value for this element.
Max Length	Maximum length for elements. EDGAR database stores up to this number of characters. "Unlimited" means no maximum length constraint for the element value.

3.2 Data Type Constraints

Each entry in the "Data Type" column of these tables will be one of these values:

Data Type	Constraints
Boolean	Indicate a "true" value with either a "1" or the word "true". Indicate a "false" value with either a "0" or the word "false". A Boolean element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error.
date	Must be of the format YYYY-MM-DD. A date element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error. Do not include a date element at all if your goal is to not provide an optional date.
integer	Only valid characters are 0-9. Cannot contain commas, a minus sign, a dollar sign, or parentheses. An integer element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error.

Data Type	Constraints										
Decimal	Only valid characters are 0-9 and a period. Cannot contain commas, dollar sign, or parentheses. EDGAR is equipped with storing a maximum of 24 digits (with no restriction on the number of digits after a floating point; if floating point is provided). A decimal element may not have a null or blank value. This is a schema violation and will cause a SUSPENSE error. Do not include a decimal element at all if your goal is to not provide an optional number.										
String	<p>Should be no longer than the length shown in the tables in Section 3.4.</p> <p>EDGAR stores values in the <signatureName>, and <contactEmailAddress> elements exactly as provided. All other values are stored in the database as uppercase.</p> <p>You must use special escape sequences to represent these four characters:</p> <table> <tr> <th></th><th></th></tr> <tr> <td><</td><td>&lt; or &#60;</td></tr> <tr> <td>></td><td>&gt; or &#62;</td></tr> <tr> <td>&</td><td>&amp; or &#38;</td></tr> <tr> <td>"</td><td>&quot; or &#34;</td></tr> </table>			<	< or <	>	> or >	&	& or &	"	" or "
<	< or <										
>	> or >										
&	& or &										
"	" or "										
NV	These fields cannot have a value. They are parent element nodes that contain other XML elements. These elements need to be present for proper validation.										
attr	Attribute property for an XML element.										

3.3 Applicability of Schema Elements

Each entry in the submission/document type column in Section 3.4 will have one of these values:

Value	Description
M	Mandatory.
m#	Conditional Mandatory. The element is mandatory if its parent element is included.
m#1	If <confirmingCopyFlag> is "true", then the element becomes mandatory.
m#2	If <investmentCompanyType> is N-1A or N-3 or N-4 or N-6, then the element becomes mandatory.
m#3	If <registrantCountry> is US, then the element becomes mandatory.
m#4	Mandatory, Should provide the same value as <investmentCompanyType>
m#5	If <investmentCompanyType> is N-1A, then the element becomes mandatory.
m#6	If <investmentCompanyType> is N-1A or N-2 or N-3 or N-5, then the element becomes mandatory.
m#7	If <investmentCompanyType> is N-1A or N-3 then the element becomes mandatory.
m#8	If <paymentToAgentManagerType> is "Other" then the element becomes mandatory.
m#9	If <custodyType> is "Other" then the element becomes mandatory.

Value	Description
m#10	If "Money Market Fund" was provided as one of the <fundType> then the element becomes mandatory.
m#11	If <description> is "Other" then this element becomes mandatory.
m#12	If <rightsOfferingType> is "Other" then this element becomes mandatory.
m#13	If <secondaryOfferingType> is "Other" then this element becomes mandatory.
m#14	If <repurchaseSecurityType> is "Other" then this element becomes mandatory.
m#15	If <investmentCompanyType> is N-2 then the element becomes mandatory.
m#16	If "Common Stock" was provided as one of the <repurchaseSecurityType> then the element becomes mandatory.
m#17	If <custodyType> is "Other" then the element becomes mandatory.
m#18	If <investmentCompanyType> is N-1A or N-2 or N-3 then the element becomes mandatory and should match with one of the <mgmtInvFundName> in <managementInvestmentQuestion>
m#19	If <investmentCompanyType> is S-6 then this element becomes mandatory.
m#20	If <numOfExistingSeries> is greater than zero then the element becomes mandatory.
m#21	If <isRegistrantSeparateInsuranceAccount> is "Y" or <investmentCompanyType> is N-3 then this element becomes mandatory.
m#22	If <investmentCompanyType> is N-1A or N-2 or N-3, <managementInvestmentQuestion> is provided, <indexFundInfo> and <masterFeederFundInfo> are not provided then the element becomes mandatory. Note : In one <managementInvestmentQuestion> either "Exchange-Traded Fund" or "Exchange-Traded Managed Fund" is allowed.
m#23	If <investmentCompanyType> is N-1A or N-2 or N-3, <managementInvestmentQuestion> is provided <fundType> and <masterFeederFundInfo> are not provided then the element becomes mandatory.
m#24	If <investmentCompanyType> is N-1A or N-2 or N-3, <managementInvestmentQuestion> is provided, <fundType> and <indexFundInfo> are not provided then the element becomes mandatory.
m#25	If <hasLineOfCredit> or <lineOfCredit> is provided then this element becomes mandatory.
m#26	If <principalName> is provided then this element becomes mandatory.
<u>m#26</u>	<u>If <assetClassType> is "Other" then this element becomes mandatory.</u>
c#1	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-5 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-6 or S-6 then the element becomes not applicable.</p>
c#2	<p>If <investmentCompanyType> is N-1A or N-3 and <managementInvestmentQuestion> is provided then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-2 and <managementInvestmentQuestion> is provided then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 or S-6 then the element becomes not applicable.</p>

Value	Description
c#3	<p>If <investmentCompanyType> is N-1A or N-3, <managementInvestmentQuestion> is provided and <numAuthorizedClass> is greater than or equal to 1 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-2 and <managementInvestmentQuestion> is provided then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 or S-6 then the element becomes not applicable.</p>
c#4	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 and "Exchange-Traded Fund" or "Exchange-Traded Managed Fund" was provided as one of the <fundType> in any of the <managementInvestmentQuestion> then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-3 and "Exchange-Traded Fund" or "Exchange-Traded Managed Fund" was not provided as one of the <fundType> in all of the <managementInvestmentQuestion> then the element becomes not applicable.</p> <p>If <investmentCompanyType> is S-6 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 then the element becomes not applicable.</p>
c#5	<p>If <investmentCompanyType> is N-5 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-2 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-1A or N-3 or N-4 or N-6 or S-6 then the element becomes not applicable.</p>
c#6	<p>If <investmentCompanyType> is N-5 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-3 or N-4 or N-6 or S-6 then the element becomes not applicable.</p>
c#7	<p>If "Exchange-Traded Fund" or "Exchange-Traded Managed Fund" was provided as one of the <fundType> in the <managementInvestmentQuestion> then in the associated <exchangeTradedFund> element becomes mandatory.</p> <p>If "Exchange-Traded Fund" or "Exchange-Traded Managed Fund" was not provided as one of the <fundType> in any of the <managementInvestmentQuestion> then the element becomes not applicable.</p>

Value	Description
c#8	<p>If <investmentCompanyType> is N-1A or N-3, and “Exchange-Traded Fund” or “Exchange-Traded Managed Fund” was provided as one of the <fundType> in the <managementInvestmentQuestion> then in the associated <exchangeTradedFund> the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-2, and “Exchange-Traded Fund” or “Exchange-Traded Managed Fund” was provided as one of the <fundType> in any of the <managementInvestmentQuestion> then in the associated <exchangeTradedFund> the element becomes optional.</p> <p>If <investmentCompanyType> is N-4, N-5, N-6 or S-6 or <investmentCompanyType> is N-1A, N-2 or N-3 and “Exchange-Traded Fund” or “Exchange-Traded Managed Fund” was not provided as one of the <fundType> in any of the <managementInvestmentQuestion> then the element becomes not applicable.</p>
c#9	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 or N-5 then the element becomes not applicable.</p> <p>If <investmentCompanyType> is N-4 or N-6 or S-6 and <reportEndingPeriod> is before 12/31/2021 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-6 or S-6 and <reportEndingPeriod> is on or after 12/31/2021 then the element becomes mandatory.</p>
c#10	<p><u>If “Other identifying number” was provided in <pricingService>, <shareholderServicingAgent>, <admin>, <liquidityClassificationService>, <uitAdmin> then the element becomes mandatory.</u></p>
O	Optional.
o#1	<p>If <investmentCompanyType> is N-1A, then the element becomes optional.</p> <p>If <investmentCompanyType> is N-2 or N-3 or N-4 or N-5 or N-6 or S-6 then the element becomes not applicable.</p>
o#2	<p>If <investmentCompanyType> is N-1A or N-3 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-2 then the element becomes not applicable.</p>
o#3	<p>If <investmentCompanyType> is N-1A or N-3 and “Exchange-Traded Fund”, “Exchange-Traded Managed Fund” and “Money Market Fund” were not provided as one of the <fundType> in all of the <managementInvestmentQuestion> then this element becomes optional.</p> <p>If <investmentCompanyType> is N-1A or N-3 and “Exchange-Traded Fund” or “Exchange-Traded Managed Fund” or “Money Market Fund” was provided as one of the <fundType> in any of the <managementInvestmentQuestion> then this element becomes not applicable.</p> <p>If <investmentCompanyType> is N-2 then this element becomes not applicable.</p>
o#4	<p>If <investmentCompanyType> is N-5 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-2 then the element becomes not applicable.</p>

o#5	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 and “Exchange-Traded Fund” or “Exchange-Traded Managed Fund” was provided as one of the <fundType> in any of the <managementInvestmentQuestion> then the element becomes optional.</p> <p>If <investmentCompanyType> is S-6 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-3 and “Exchange-Traded Fund” and “Exchange-Traded Managed Fund” were not provided as one of the <fundType> in all of the <managementInvestmentQuestion> then the element becomes not applicable.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 then the element becomes not applicable.</p>
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Value	Description
o#6	<p>If <investmentCompanyType> is N-4 or N-6 or S-6 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-3 or N-5 then the element becomes not applicable.</p>
o#7	<p>If <divestments> exists then this element becomes optional.</p> <p>If <divestments> does not exists then this element becomes not applicable.</p>
o#8	<p>If <investmentCompanyType> is N-2 or N-5 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-1A or N-3 or N-4 or N-6 or S-6 then the element becomes not applicable.</p>
o#9	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 then the element becomes optional.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 or S-6 then the element becomes not applicable.</p>
Na	Does not apply to the submission type. EDGAR uses this field for server-side processing. Do not provide a value for this element.
na#1	If <assetType> is Other then the element becomes required. Other wise it it not applicable.
na#2	<p>If <investmentCompanyType> is N-1A or N-2 or N-3 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-4 or N-5 or N-6 or S-6 then the element becomes not applicable.</p>
na#3	<p>If <fundType> is "Money Market Fund" then the element becomes not applicable.</p> <p>If <fundType> is not "Money Market Fund" then the element becomes mandatory.</p>
na#4	<p>If <investmentCompanyType> is N-2 or N-5 then the element becomes mandatory.</p> <p>If <investmentCompanyType> is N-1A or N-3 or N-4 or N-6 or S-6 then the element becomes not applicable.</p>
na#5	<p>If <investmentCompanyType> is N-3 or N-4 or N-6 or S-6 then this element becomes mandatory.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-5 then the element becomes not applicable.</p>
na#6	<p>If <investmentCompanyType> is N-4 or N-6 or S-6 then this element becomes mandatory.</p> <p>If <investmentCompanyType> is N-1A or N-2 or N-3 or N-5 then the element becomes not applicable.</p>

3.4 Mapping of Form N-CEN Submission Schemas to Submission Type

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
1	1	NV	edgarSubmission			m	m	1
2	1	String	schemaVersion	5		na	na	1
2	2	NV	headerData			m	m	1
3	1	NV	submissionType		SUBMISSION TYPE	m	m	1
3	2	String	accessionNumber			na	m	1
3	3	NV	filerInfo			m	m	1
4	1	Boolean	liveTestFlag		"LIVE" or "TEST"	m	m	1
4	2	NV	filer			m	m	1
5	1	NV	issuerCredentials			m	m	1
6	1	String	cik	10		m	m	1
6	2	String	ccc	8		m	m	1
5	2	String	fileNumber	17		m#1	m#1	1
4	3	NV	contact			m	m	1
5	1	String	contactName	30		m	m	1
5	2	String	contactPhoneNumber	30		m	m	1
5	3	String	contactEmailAddress	30		m	m	1
4	4	NV	notifications			o	o	1
5	1	String	notificationEmailAddress	80		o	o	3
4	5	NV	flags			o	o	1
5	1	Boolean	returnCopyFlag		"true" or "false"	o	o	1
5	21	Boolean	overrideInternetFlag		"true" or "false"	o	o	1
5	32	Boolean	confirmingCopyFlag		"true" or "false"	o	o	1
4	6	String	investmentCompanyType		COMPANY CLASSIFICATION TYPE	m	m	1
3	4	NV	seriesClass			m#2	m#2	1
4	1	NV	reportSeriesClass		CHOICE	m#	m#	1
5	1	Boolean	rptIncludeAllSeriesFlag		CHOICE "true"	m#	m#	1
5	1	NV	rptSeriesClassInfo		CHOICE	m#	m#	1000
6	1	String	seriesId		SERIES_ID_TYPE defined in eis_Common_SC.xsd	m	m	1
6	2	Boolean	includeAllClassesFlag		CHOICE "true"	m#	m#	1
6	2	NV	classInfo		CHOICE	m#	m#	1000
7	1	String	classId		CLASS_ID_TYPE defined in eis_Common_SC.xsd	m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
4	1	NV	reportClass		CHOICE	m#	m#	1
5	1	Boolean	rptIncludeAllClassesFlag		CHOICE "true"	m#	m#	1
5	1	NV	classInfo		CHOICE	m#	m#	1000
6	1	String	classId		CLASS_ID_TYPE defined in eis_Common_SC.x sd	m	m	1
2	3	NV	formData			m	m	1
3	1	NV	generalInfo			m	m	1
3	1	attr date	reportEndingPeriod		YYYY-MM-DD	m	m	1
3	1	attr String	isReportPeriodLt12		YES_NO_TYPE	m	m	1
3	2	NV	registrantInfo			m	m	1
4	1	String	registrantFullName	150		m	m	1
4	2	String	investmentCompFileNo	17		m	m	1
4	3	String	registrantCik	10		m	m	1
4	4	String	registrantLei	20		m	m	1
4	5	String	registrantstreet1	40		m	m	1
4	6	String	registrantstreet2	40		o	o	1
4	7	String	registrantcity	30		m	m	1
4	8	String	registrantzipCode	10		m	m	1
4	9	String	registrantstate		ISO AND OUTLYING AREA CODE US A	m#3	m#3	1
4	10	String	registrantcountry		ISO COUNTRY C ODE	m	m	1
4	11	String	registrantphoneNumber	20		m	m	1
4	12	NV	websites			m	m	1
5	1	NV	website			m	m	1000
5	1	attr String	webpage	150		m	m	1
4	13	NV	locationBooksRecords			m	m	1
5	1	NV	locationBooksRecord			m	m	1000
6	1	String	officeName	150		m	m	1
6	2	String	officeAddress1	40		m	m	1
6	3	String	officeAddress2	40		o	o	1
6	4	String	officeCity	30		m	m	1
6	5	NV	officeStateCountry		CHOICE	m	m	1
6	5	attr String	officeState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
6	5	attr String	officeCountry		"US"	m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	5	String	officeCountry		CHOICE ISO_FOREIGN_C OUNTRY_CODE	m	m	1
6	6	String	officeRecordsZipCode	10		m	m	1
6	7	String	officePhone	20		m	m	1
6	8	String	booksRecordsDesc	5000		m	m	1
4	14	String	isRegistrantFirstFiling		YES NO TYPE	m	m	1
4	15	String	isRegistrantLastFiling		YES NO TYPE	m	m	1
4	16	NV	registrantFamilyInvComp		CHOICE	m	m	1
4	16	attr String	isRegistrantFamilyInvComp		"Y"	m	m	1
4	16	attr String	familyInvCompFullName	150		m	m	1
4	16	String	isRegistrantFamilyInvComp		CHOICE "N"	m	m	1
4	17	String	registrantClassificationType		COMPANY CLAS SIFICATION TYP E	m#4	m#4	1
4	18	integer	totalSeries	8		m#5	m#5	1
4	19	NV	terminatedSeries			o#1	o#1	1
5	1	NV	terminatedSeriesInfo			m#	m#	1000
5	1	attr String	seriesName	150		m	m	1
5	2	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
5	3	attr String	terminationDate	10		m	m	1
4	20	String	isSecuritiesActRegistration		YES NO TYPE	m	m	1
4	21	NV	directors			m#6	m#6	1
5	1	NV	director			m#	m#	1000
6	1	String	directorName	150		m	m	1
6	2	String	crdNumber	9		m	m	1
6	3	String	isDirectorInterestedPerson		YES NO TYPE	m	m	1
6	4	NV	fileNumbers			m	m	1
7	1	NV	fileNumberInfo			m	m	1000
7	1	attr String	fileNumber	17		m	m	1
4	22	NV	chiefComplianceOfficers			m	m	1
5	1	NV	chiefComplianceOfficer			m	m	1000
6	1	String	ccoName	150		m	m	1
6	2	String	crdNumber	9		m	m	1
6	3	String	ccoStreet1	40		m	m	1
6	4	String	ccoStreet2	40		o	o	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	5	String	ccoCity	30		m	m	1
6	6	NV	ccoStateCountry		CHOICE	m	m	1
6	6	attr String	ccoState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
6	6	attr String	ccoCountry		"US"	m	m	1
6	6	String	ccoCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
6	7	String	ccoZipCode	10		m	m	1
6	8	String	ccoPhone	20		m	m	1
6	9	String	isCcoChangedSinceLastFiling		YES_NO_TYPE	m	m	1
6	10	NV	ccoEmployers			m	m	1
7	1	NV	ccoEmployer			m	m	1000
7	1	String	ccoEmployerName	150		m	m	1
7	1	String	ccoEmployerId	10		m	m	1
4	23	String	isRegistrantSubmittedMatter		CHOICE "N"	m	m	1
4	23	NV	securityMatterSeriesInfo		CHOICE	m	m	1
4	23	attr String	isRegistrantSubmittedMatter		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1
5	1	attr String	seriesId	10	SERIES_ID_NA_TYPE defined in eis_Common_SC.xsd	m	m	1
4	24	String	isPreviousLegalProceeding		CHOICE "N"	m	m	1
4	24	NV	legalProceedingSeriesInfo		CHOICE	m	m	1
4	24	attr String	isPreviousLegalProceeding		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	String	seriesName	150		m	m	1
5	1	String	seriesId	10	SERIES_ID_NA_TYPE defined in eis_Common_SC.xsd	m	m	1
4	25	String	isPreviousProceedingTerminated		CHOICE "N"	m	m	1
4	25	NV	previousProceedingTerminated		CHOICE	m	m	1
4	25	attr String	isPreviousProceedingTerminated		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
5	1	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
4	26	String	isClaimFiled		CHOICE "N"	m#6	m#6	1
4	26	NV	claimFiled		CHOICE	m#6	m#6	1
4	26	attr String	isClaimFiled		"Y"	m	m	1
4	26	attr Decimal	totalClaimAmount	24		m	m	1
4	27	String	isCoveredByInsurancePolicy		CHOICE "N"	m#6	m#6	1
4	27	NV	coveredByInsurancePolicy		CHOICE	m#6	m#6	1
4	27	attr String	isCoveredByInsurancePolicy		"Y"	m	m	1
4	27	attr String	isClaimFiledDuringPeriod		YES_NO_TYPE	m	m	1
4	28	String	isFinancialSupportDuringPeriod		CHOICE "N"	m	m	1
4	28	NV	financialSupportSeriesInfo		CHOICE	m	m	1
4	28	attr String	isFinancialSupportDuringPeriod		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1
5	1	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
4	29	String	isExemptionFromAct		CHOICE "N"	m	m	1
4	29	NV	releaseNumbers		CHOICE	m	m	1
4	29	attr String	isExemptionFromAct		"Y"	m	m	1
5	1	NV	releaseNumberInfo			m	m	1000
5	1	attr String	releaseNumber	20		m	m	1
4	30	NV	principalUnderwriters			o	o	1
5	1	NV	principalUnderwriter			m#	m#	1000
6	1	String	principalUnderwriterName	150		m	m	1
6	2	String	principalUnderwriterFileNumber	17		m	m	1
6	3	String	principalUnderwriterCrdNumber	9		m	m	1
6	4	String	principalUnderwriterLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
6	5	String	principalUnderwriterRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
6	56	NV	principalUnderWriterStateCountry		CHOICE	m	m	1

6	56	attr String	principalUnderWriterState		ISO STATE AND OUTLYING AREA	m	m	1
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
					CODE_USA			
6	56	attr String	principalUnderWriterCountry		"US"	m	m	1
6	56	String	principalUnderWriterCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
6	67	String	isPrincipalUnderwriterAffiliatedWithRegistrant		YES_NO_TYPE	m	m	1
4	31	String	isUnderwriterHiredOrTerminated		YES_NO_TYPE	m	m	1
4	32	NV	publicAccountants			m	m	1
5	1	NV	publicAccountant			m	m	1000
6	1	String	publicAccountantName	150		m	m	1
6	2	String	pcaobNumber	20		m	m	1
6	3	String	publicAccountantLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Common.xsd	m	m	1
6	4	String	publicAccountantRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
6	45	NV	publicAccountantStateCountry		CHOICE	m	m	1
6	45	Attr String	publicAccountantState		ISO_STATE_AND_OUTLYING_AREA_CODE_USA	m	m	1
6	45	attr String	publicAccountantCountry		"US"	m	m	1
6	45	String	publicAccountantCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
4	33	String	isPublicAccountantChanged		YES_NO_TYPE	m	m	1
4	34	String	isMaterialWeakness		YES_NO_TYPE	c#1	c#1	1
4	35	String	isOpinionOffered		CHOICE "N"	m	m	1
4	35	NV	auditOpinionSeries		CHOICE	m	m	1
4	35	attr String	isOpinionOffered		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1
5	1	attr String	seriesId	10	SERIES_ID_NAME TYPE defined in eis_Common_Schema.xsd	m	m	1
4	36	String	isMaterialChange		CHOICE "N"	m	m	1
4	36	NV	valuationMethodsChanges		CHOICE	m	m	1
4	36	attr String	isMaterialChange		"Y"	m	m	1
5	1	NV	valuationMethodsChange			m	m	1000
6	1	date	dateOfChange			m	m	1
6	2	String	changeExplanation	5000		m	m	1

6	3	String	assetType		ASSET_TYPE	m	m	1
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	4	String	assetTypeOtherDesc	5000		na#1	na#1	1
6	5	String	investmentType	5000		m	m	1
6	6	String	statutoryRegulatoryBasis	5000		m	m	1
6	7	NV	valuationMethodsChangeSeries			m	m	1
7	1	NV	seriesInfo			o	o	1000
7	1	attr String	seriesName	150		m	m	1
7	1	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
4	37	String	isAccountingPrincipleChange		YES_NO_TYPE	m	m	1
4	38	String	isPaymentErrorInNetAssetValue		CHOICE "N"	m#7	m#7	1
4	38	NV	paymentErrorSeries		CHOICE	m#7	m#7	1
4	38	attr String	isPaymentErrorInNetAssetValue		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1
5	1	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
4	39	String	isPaymentDividend		CHOICE "N"	m#6	m#6	1
4	39	NV	paymentDividendSeries		CHOICE	m#6	m#6	1
4	39	attr String	isPaymentDividend		"Y"	m	m	1
5	1	NV	seriesInfo			o	o	1000
5	1	attr String	seriesName	150		m	m	1
5	1	attr String	seriesId	10	SERIES_ID_NA_T YPE defined in eis_Common_SC.x sd	m	m	1
3	3	NV	managementInvestmentQuestionSeriesI nfo			o#9	o#9	1
4	1	NV	managementInvestmentQuestion			m#	m#	1000
5	1	String	mgmtInvFundName	150		m	m	1
5	2	String	mgmtInvSeriesId	10	SERIES_ID_TYPE defined in eis_Common_SC.x sd	c#2	c#2	1
5	3	String	mgmtInvLei	20		m	m	1
5	4	String	isFirstFilingByFund		YES_NO_TYPE	m	m	1
5	5	integer	numAuthorizedClass	8		c#2	c#2	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
5	6	integer	numAddedClass	8		c#2	c#2	1
5	7	integer	numTerminatedClass	8		c#2	c#2	1
5	8	NV	sharesOutstandings			c#3	c#3	1
6	1	NV	sharesOutstanding			m#	m#	1000
6	1	attr String	sharesOutstandingClassName	150		m	m	1
6	1	attr String	sharesOutstandingClassId	10	CLASS_ID_TYPE defined in eis_Common_SC.xsd	m	m	1
6	1	attr String	sharesOutstandingTickerSymbol	12		m	m	1
5	9	NV	fundTypes		CHOICE	m#	m#	1
6	1	String	fundType		FUND_TYPE	m#22	m#22	7
6	2	NV	indexFundInfo			m#23	m#23	1
6	2	attr String	fundType		"Index Fund"	m#	m#	1
7	1	String	isIndexFundAffiliated		YES_NO_TYPE	m	m	1
7	2	String	isIndexFundExclusive		YES_NO_TYPE	m	m	1
7	3	Decimal	indexFundReturnDiffBeforeExpense	24		m	m	1
7	4	Decimal	indexFundReturnDiffAfterExpense	24		m	m	1
7	5	Decimal	indexFundReturnDailyStdevBeforeExpense	24	NO NEG	m	m	1
7	6	Decimal	indexFundReturnDailyStdevAfterExpense	24	NO NEG	m	m	1
6	3	NV	masterFeederFundInfo			m#24	m#24	1
6	3	attr String	fundType		"Master-Feeder Fund"	m#	m#	1
7	1	NV	feederFunds			o	o	1000
7	1	attr String	feederFundName	150		m	m	1
7	1	attr String	regFeederFundFileNo	17	FILE_NUMBER_TYPE defined in eis_Common.xsd	m	m	1
7	1	attr String	regFeederFundSeriesIdNo	10	SERIES_ID_NAME_TYPE defined in eis_Common_SC.xsd	m	m	1
7	1	attr String	regFeederFundLei	20		m	m	1
7	1	attr String	unregFeederFileNo	17	FILE_NUMBER_TYPE_WITH_NAME defined in eis_NCEN_Common.xsd	m	m	1
7	1	attr String	unregFeederFundLei	20		m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
7	2	NV	masterFunds			o	o	1000
7	2	attr String	masterFundName	150		m	m	1
7	2	attr String	masterFundFileNo	17		m	m	1
7	2	attr String	masterFundSECFileNo	17	FILE_NUMBER_T YPE_WITH_NA defined in eis_NCEN_Commo n.xsd	m	m	1
7	2	attr String	masterFundLei	20		m	m	1
5	9	String	fundType		CHOICE "N/A"	m#	m#	1
5	10	String	isNonDiversifiedCompany		YES_NO_TYPE	m#	m#	1
5	11	String	isForeignSubsidiary		CHOICE "N"	m#	m#	1
5	11	NV	foreignInvestments		CHOICE	m#	m#	1
5	11	attr String	isForeignSubsidiary		"Y"	m	m	1
6	1	NV	foreignInvestment			m	m	1000
6	1	attr String	foreignSubsidiaryName	150		m	m	1
6	1	attr String	foreignSubsidiaryLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
6	1	attr String	foreignSubsidiaryRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
5	12	String	isFundSecuritiesLending		YES_NO_TYPE	m#	m#	1
5	13	String	didFundLendSecurities		CHOICE "N"	m#	m#	1
5	13	NV	fundLendSecurities		CHOICE	m#	m#	1
5	13	attr String	didFundLendSecurities		"Y"	m	m	1
6	1	String	isFundLiquidated		YES_NO_TYPE	m	m	1
6	2	String	isFundAdverselyImpacted		YES_NO_TYPE	m	m	1
5	14	NV	securityLendings			o	o	1
6	1	NV	securityLending			m#	m#	1000
7	1	String	securitiesAgentName	150		m	m	1
7	2	String	securitiesAgentLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
7	3	String	securitiesAgentRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
7	34	String	isSecuritiesAgentAffiliated		YES_NO_TYPE	m	m	1

7	<u>45</u>	NV	securityAgentIdemnity		CHOICE	m	m	1
7	<u>45</u>	attr String	isSecurityAgentIdemnity		"Y"	m	m	1
8	1	NV	idemntyProviders			m	m	1
9	1	NV	idemntyProvider			m	m	1000

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
9	1	attr String	idemnityProviderName	150		m	m	1
9	1	attr String	idemnityProviderLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m 0	m 0	1
9	1	attr String	idemnityProviderRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	0	0	1
8	1	String	didIndemnificationRights		YES_NO_TYPE	m	m	1
7	4	String	isSecurityAgentIdemnity		CHOICE "N"	m	m	1
5	15	NV	collateralManagers			o	o	1
6	1	NV	collateralManager			m#	m#	1000
6	1	attr String	collateralManagerName	150		m	m	1
6	1	attr String	collateralManagerLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m 0	m 0	1
6	1	attr String	collateralManagerRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	0	0	1
6	1	attr String	isCollateralManagerAffiliated		YES_NO_TYPE	m	m	1
6	1	attr String	isCollateralManagerAffiliatedWithFund		YES_NO_TYPE	m	m	1
5	16	NV	paymentToAgentManagers		CHOICE	m#	m#	1
6	1	String	paymentToAgentManagerType		PAYMENT_TO_A GENT_MANAGER _TYPE	m	m	6
6	2	String	otherFeeDesc	5000		m#8	m#8	1
5	16	String	paymentToAgentManagerType		CHOICE "N/A"	m#	m#	1
5	17	Decimal	avgPortfolioSecuritiesValue	24		m#	m#	1
5	18	Decimal	netIncomeSecuritiesLending	24		m#	m#	1
5	19	NV	relyOnRuleTypes		CHOICE	m#	m#	1
6	1	String	relyOnRuleType		RELY_ON_RULE _TYPE	m	m	20
5	19	String	relyOnRuleType		CHOICE "N/A"	m#	m#	1
5	20	String	isExpenseLimitationInPlace		YES_NO_TYPE	m#	m#	1
5	21	String	isExpenseReducedOrWaived		YES_NO_TYPE	m#	m#	1
5	22	String	isFeesWaivedRecoupable		YES_NO_TYPE	m#	m#	1
5	23	String	isExpenseWaivedRecoupable		YES_NO_TYPE	m#	m#	1
5	24	NV	investmentAdvisers			o	o	1
6	1	NV	investmentAdviser			m#	m#	1000
7	1	String	investmentAdviserName	150		m	m	1

7	2	String	investmentAdviserFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
7	3	String	investmentAdviserCrdNo	9	CRD_NUMBER_T YPE defined in	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
					eis_NCEN_Common.xsd			
7	4	String	investmentAdviserLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	m o	m o	1
7	5	String	investmentAdviserRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	56	NV	investmentAdviserStateCountry		CHOICE	m	m	1
7	56	attr String	investmentAdviserState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	56	attr String	investmentAdviserCountry		"US"	m	m	1
7	56	String	investmentAdviserCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
7	67	NV	investmentAdviserHired		CHOICE	m	m	1
7	67	attr String	isInvestmentAdviserHired		"Y"	m	m	1
8	1	date	investmentAdviserStartDate		YYYY-MM-DD	m	m	1
7	6	String	isInvestmentAdviserHired		CHOICE "N"	m	m	1
5	25	NV	investmentAdvisersTerminated			o	o	1
6	1	NV	investmentAdviserTerminated			m#	m#	1000
7	1	String	investmentAdviserTerminatedName	150		m	m	1
7	2	String	investAdviserTerminatedFileNo	17	FILE_NUMBER_TYPE defined in eis_Common.xsd	m	m	1
7	3	String	investAdviserTerminatedCrdNo	9	CRD_NUMBER_TYPE defined in eis_NCEN_Common.xsd	m	m	1
7	4	String	investAdviserTerminatedLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	m o	m o	1
7	5	String	investAdviserTerminatedRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	56	NV	investmentAdviserTerminatedStateCountry		CHOICE	m	m	1
7	56	attr String	investmentAdviserTerminatedState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	56	attr String	investmentAdviserTerminatedCountry		"US"	m	m	1

7	56	String	investmentAdviserTerminatedCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
7	76	date	investAdviserTerminationDate		YYYY-MM-DD	m	m	1
5	26	NV	subAdvisers			o	o	1
6	1	NV	subAdviser			m#	m#	1000
7	1	String	subAdviserName	150		m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
7	2	String	subAdviserFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
7	3	String	subAdviserCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
7	4	String	subAdviserLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	mo	mo	1
7	5	String	subAdviserRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
7	65	String	isSubAdviserAffiliated		YES_NO_TYPE	m	m	1
7	76	NV	subAdviserStateCountry		CHOICE	m	m	1
7	67	attr String	subAdviserState		ISO_STATE_AND OUTLYING_AREA _CODE_USA	m	m	1
7	67	attr String	subAdviserCountry		"US"	m	m	1
7	67	String	subAdviserCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
7	78	NV	subAdviserHired		CHOICE	m	m	1
7	78	attr String	isSubAdviserHired		"Y"	m	m	1
7	78	attr date	subAdviserStartDate		YYYY-MM-DD	m	m	1
7	78	String	isSubAdviserHired		CHOICE "N"	m	m	1
5	27	NV	subAdvisersTerminated			o	o	1
6	1	NV	subAdviserTerminated			m#	m#	1000
7	1	String	subAdviserTerminatedName	150		m	m	1
7	2	String	subAdviserTerminatedFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
7	3	String	subAdviserTerminatedCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
7	4	String	subAdviserTerminatedLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	mo	mo	1
7	5	String	subAdviserTerminatedRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1

7	56	NV	subAdviserTerminatedStateCountry		CHOICE	m	m	1
7	56	attr String	subAdviserTerminatedState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	56	attr String	subAdviserTerminatedCountry		"US"	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
7	56	String	subAdviserTerminatedCountry		CHOICE	m	m	1
7	67	date	subAdviserTerminationDate			m	m	1
5	28	NV	transferAgents			o	o	1
6	1	NV	transferAgent			m#	m#	1000
7	1	String	transferAgentName	150		m	m	1
7	2	String	transferAgentFileNo	17		m	m	1
7	3	String	transferAgentLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m o	m o	1
7	4	String	transferAgentRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
7	45	NV	transferAgentStateCountry		CHOICE	m	m	1
7	45	attr String	transferAgentState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	45	attr String	transferAgentCountry		"US"	m	m	1
7	45	String	transferAgentCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
7	56	String	isTransferAgentAffiliated		YES NO TYPE	m	m	1
7	67	String	isTransferAgentSubAgent		YES NO TYPE	m	m	1
5	29	String	isTransferAgentHiredOrTerminated		YES NO TYPE	m#	m#	1
5	30	NV	pricingServices			o	o	1
6	1	NV	pricingService			m#	m#	1000
7	1	String	pricingServiceName	150		m	m	1
7	2	String	pricingServiceLei	100		m o	m o	1
7	3	String	pricingServiceRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xs d	o	o	1
7	4	String	pricingServiceOther	100		o	o	1
7	35	String	pricingServiceIdNumberDesc	500		ec#1 0	ec#1 0	1
7	46	NV	pricingServiceStateCountry		CHOICE	m	m	1
7	46	String	pricingServiceState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	46	String	pricingServiceCountry		"US"	m	m	1
7	46	String	pricingServiceCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
7	57	String	isPricingServiceAffiliated		YES NO TYPE	m	m	1
5	31	String	isPricingServiceHiredOrTerminated		YES NO TYPE	m	m	1
5	32	NV	custodians			m#	m#	1

6	1	NV	custodian			m	m	1000
7	1	String	custodianName	150		m	m	1
7	2	String	custodianLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m o	m o	1
<u>7</u>	<u>3</u>	<u>String</u>	<u>custodianRssdId</u>	<u>10</u>	<u>RSSD_ID_TYPE</u> <u>defined in</u> <u>eis_NCEN_Commo</u> <u>n.xsd</u>	<u>o</u>	<u>o</u>	<u>1</u>

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
7	34	NV	custodianStateCountry		CHOICE	m	m	1
7	34	attr String	custodianState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	34	attr String	custodianCountry		"US"	m	m	1
7	34	String	custodianCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
7	45	String	isCustodianAffiliated		YES_NO_TYPE	m	m	1
7	56	String	isSubCustodian		YES_NO_TYPE	m	m	1
7	67	String	custodyType		CUSTODY_TYPE	m	m	1
7	78	String	otherCustodianDesc	5000		m#9	m#9	1
5	33	String	isCustodianHiredOrTerminated		YES_NO_TYPE	m#	m#	1
5	34	NV	shareholderServicingAgents			o	o	1
6	1	NV	shareholderServicingAgent			m#	m#	1000
7	1	String	shareholderServiceAgentName	150		m	m	1
7	2	String	shareholderServiceAgentLei	100		m#	m#	1
7	3	String	shareholderServiceAgentRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	4	String	shareholderServiceAgentOther	100		o	o	1
7	35	String	shareholderServiceIdNumberDesc	500		ec#10	ec#10	1
7	46	NV	shareholderServiceAgentStateCountry		CHOICE	m	m	1
7	46	String	shareholderServiceAgentState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	46	String	shareholderServiceAgentCountry		"US"	m	m	1
7	46	String	shareholderServiceAgentCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
7	57	String	isShareholderServiceAgentAffiliated		YES_NO_TYPE	m	m	1
7	68	String	isShareholderServiceAgentSubshare		YES_NO_TYPE	m	m	1
5	35	String	isShareholderServiceHiredTerminated		YES_NO_TYPE	m#	m#	1
5	36	NV	admins			o	o	1
6	1	NV	admin			m#	m#	1000
7	1	String	adminName	150		m	m	1
7	2	String	adminLei	100		m#	m#	1
7	3	String	adminRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	4	String	adminOther	100		o	o	1
7	35	String	idNumberDesc	500		ec#10	ec#10	1
7	46	NV	adminStateCountry		CHOICE	m	m	1
7	46	attr String	adminState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1

7	46	attr String	adminCountry		"US"	m	m	1
7	46	String	adminCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
7	57	String	isAdminAffiliated		YES_NO_TYPE	m	m	1
7	68	String	isAdminSubAdmin		YES_NO_TYPE	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
5	37	String	isAdminHiredOrTerminated		YES_NO_TYPE	m#	m#	1
5	38	NV	brokerDealers			o	o	1
6	1	NV	brokerDealer			m#	m#	1000
7	1	String	brokerDealerName	150		m	m	1
7	2	String	brokerDealerFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
7	3	String	brokerDealerCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
7	4	String	brokerDealerLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
7	5	String	brokerDealerRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
7	56	NV	brokerDealerStateCountry		CHOICE	m	m	1
7	56	attr String	brokerDealerState		ISO_STATE_AND OUTLYING_AREA CODE_USA	m	m	1
7	56	attr String	brokerDealerCountry		"US"	m	m	1
7	56	String	brokerDealerCountry		CHOICE ISO_FOREIGN_C OUNTRY_CODE	m	m	1
7	67	Decimal	brokerDealerCommission	24		m	m	1
5	39	NV	brokers			o	o	1
6	1	NV	broker			m#	m#	10
7	1	String	brokerName	150		m	m	1
7	2	String	brokerFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
7	3	String	brokerCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
7	4	String	brokerLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
7	5	String	brokerRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1

7	56	NV	brokerStateCountry		CHOICE	m	m	1
7	56	attr String	brokerState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	56	attr String	brokerCountry		"US"	m	m	1
7	56	String	brokerCountry		CHOICE	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
					ISO_FOREIGN_COUNTRY_CODE			
7	67	Decimal	grossCommission	24		m	m	1
5	40	Decimal	aggregateCommission	24		m#	m#	1
5	41	NV	principalTransactions			o	o	1
6	1	NV	principalTransaction			m#	m#	10
7	1	String	principalName	150		m	m	1
7	2	String	principalFileNo	17	FILE_NUMBER_TYPE defined in eis_Common.xsd	m	m	1
7	3	String	principalCrdNo	9	CRD_NUMBER_TYPE defined in eis_NCEN_Common.xsd	m	m	1
7	4	String	principalLei	20	LEI_TYPE_RSSNA defined in eis_NCEN_Common.xsd	m#26 o	m#26 o	1
7	5	String	principalRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	56	NV	principalStateCountry		CHOICE	m	m	1
7	56	String	principalState		ISO_STATE_AND_OUTLYING_AREA_CODE_USA	m	m	1
7	56	String	principalCountry		"US"	m	m	1
7	56	String	principalCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
7	67	Decimal	principalTotalPurchaseSale	24		m	m	1
5	42	Decimal	principalAggregatePurchase	24		m#	m#	1
5	43	String	isBrokerageResearchPayment		YES_NO_TYPE	m#	m#	1
5	44	Decimal	mnthlyAvgNetAssets	24		na#3	na#3	1
5	45	Decimal	dailyAvgNetAssets	24		m#10	m#10	1
5	46	String	hasLineOfCredit		CHOICE "N"	o#2	o#2	1
5	46	NV	lineOfCredit		CHOICE	o#2	o#2	1
5	46	attr String	hasLineOfCredit		"Y"	m	m	1
6	1	NV	lineOfCreditDetails			m	m	1
7	1	NV	lineOfCreditDetail			m	m	1000
8	1	String	isCreditLineCommitted		CREDIT_LINE_COMMITTED_TYPE	m	m	1
8	2	Decimal	lineOfCreditSize	24		m	m	1
8	3	NV	lineOfCreditInstitutions			m	m	1
9	1	NV	lineOfCreditInstitution			m	m	1000

9	1	attr String	creditInstitutionName			m	m	1
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
8	4	NV	soleCreditType		CHOICE	m	m	1
8	4	attr String	creditType		"Sole"	m	m	1
8	4	NV	sharedCreditType		CHOICE	m	m	1
8	4	attr String	creditType		"Shared"	m	m	1
9	1	NV	creditUser			m	m	1000
9	1	attr String	fundName	150		m	m	1
9	1	attr String	secFileNo	17		m	m	1
8	5	String	isCreditLineUsed		CHOICE "N"	m#25	m#25	1
8	5	NV	creditLineUsed		CHOICE	m#25	m#25	1
8	5	attr String	isCreditLineUsed		"Y"	m	m	1
8	5	attr Decimal	averageCreditLineUsed	24		m	m	1
8	5	attr integer	daysCreditUsed	8		m	m	1
5	47	String	isInterfundLending		CHOICE "N"	m#25	m#25	1
5	47	NV	interfundLendingDetails		CHOICE	m#25	m#25	1
5	47	attr String	isInterfundLending		"Y"	m	m	1
6	1	NV	interfundLending			m	m	1000
6	1	attr Decimal	interfundLendingLoanAverage	24		m	m	1
6	1	attr integer	interfundLendingDaysOutstanding	8		m	m	1
5	48	String	isInterfundBorrowing		CHOICE "N"	m#25	m#25	1
5	48	NV	interfundBorrowingDetails		CHOICE	m#25	m#25	1
5	48	attr String	isInterfundBorrowing		"Y"	m	m	1
6	1	NV	interfundBorrowing			m	m	1000
6	1	attr Decimal	interfundBorrowingLoanAverage	24		m	m	1
6	1	attr integer	interfundBorrowingDaysOutstanding	8		m	m	1
5	49	String	isSwingPricing		CHOICE "N"	o#3	o#3	1
5	49	NV	swingPricingDetail		CHOICE	o#3	o#3	1
5	49	attr String	isSwingPricing		"Y"	m	m	1
5	49	attr Decimal	swingUpperLimit	24		m	m	1
<u>5</u>	<u>50</u>	<u>NV</u>	<u>liquidityClassifications</u>			<u>o</u>	<u>o</u>	<u>1</u>
<u>6</u>	<u>1</u>	<u>NV</u>	<u>liquidityClassificationService</u>			<u>m#</u>	<u>m#</u>	<u>1000</u>
<u>7</u>	<u>1</u>	<u>String</u>	<u>liquidityName</u>	<u>150</u>	<u>STRING 150 TYPE</u>	<u>m</u>	<u>m</u>	<u>1</u>

<u>7</u>	<u>2</u>	<u>String</u>	<u>liquidityLei</u>	<u>20</u>	<u>LIQUIDITY_LEI_T YPE defined in eis NCEN Commo n.xsd</u>	<u>o</u>	<u>o</u>	<u>1</u>
<u>7</u>	<u>3</u>	<u>String</u>	<u>liquidityRssdId</u>	<u>10</u>	<u>RSSD_ID TYPE defined in eis NCEN common.x sd</u>	<u>o</u>	<u>o</u>	<u>1</u>
<u>7</u>	<u>4</u>	<u>String</u>	<u>liquidityOther</u>	<u>100</u>	<u>STRING 100 TYPE</u>	<u>o</u>	<u>o</u>	<u>1</u>
<u>7</u>	<u>5</u>	<u>String</u>	<u>otherDesc</u>	<u>500</u>	<u>STRING 500 TYPE</u>	<u>c#10</u>	<u>c#10</u>	<u>1</u>
<u>7</u>	<u>6</u>	<u>NV</u>	<u>liquidityStateCountry</u>		<u>CHOICE</u>	<u>m</u>	<u>m</u>	<u>1</u>
<u>8</u>	<u>1</u>	<u>attr String</u>	<u>liquidityState</u>		<u>ISO STATE AND OUTLYING AREA C ODE USA</u>	<u>m</u>	<u>m</u>	<u>1</u>
<u>8</u>	<u>2</u>	<u>attr String</u>	<u>liquidityCountry</u>		<u>"US"</u>	<u>m</u>	<u>m</u>	<u>1</u>
<u>7</u>	<u>7</u>	<u>String</u>	<u>liquidityCountry</u>		<u>CHOICE ISO FOREIGN C</u>			
<u>7</u>	<u>8</u>	<u>String</u>	<u>isAffiliatedPerson</u>		<u>YES_NO_TYPE</u>	<u>m</u>	<u>m</u>	<u>1</u>
<u>7</u>	<u>9</u>	<u>String</u>	<u>assetClassType</u>		<u>ASSET TYPE</u>	<u>m</u>	<u>m</u>	<u>20</u>
<u>7</u>	<u>10</u>	<u>String</u>	<u>otherAssetDesc</u>	<u>500</u>		<u>m#2 6</u>	<u>m#2 6</u>	<u>1</u>
<u>5</u>	<u>51</u>	<u>String</u>	<u>isLiquidityHiredTerminated</u>		<u>YES_NO_TYPE</u>	<u>o</u>	<u>o</u>	<u>1</u>
3	4	NV	closedEndManagementInvestment			na#4	na#4	1
4	1	NV	securityRelatedItems			m#	m#	1
5	1	NV	securityRelatedItem			m#	m#	1000
6	1	String	description		<u>SECURITY TYPE</u>	m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	2	String	securityClassTitle			m	m	1
6	3	NV	commonStocks			m	m	1
7	1	NV	commonStock			m	m	1000
7	1	attr String	commonStockExchange		ISO_EXCHANGE_CODE	m	m	1
7	1	attr String	commonStockTickerSymbol	12		m	m	1
6	4	String	otherSecurityDescription	5000		m#11	m#11	1
4	2	String	isRightsOffering		CHOICE "N"	m#	m#	1
4	2	NV	rightsOfferingFunds		CHOICE	m#	m#	1
4	2	attr String	isRightsOffering		"Y"	m	m	1
5	1	NV	rightsOfferingFund			m	m	1000
6	1	NV	rightsOfferingTypes			m	m	1
7	1	String	rightsOfferingType		SECURITY_TYPE	m	m	6
7	2	String	rightsOfferingDesc	5000		m#12	m#12	1
6	2	Decimal	rightsOfferingParticipationPercent	24		m	m	1
4	3	String	isSecondaryOffering		CHOICE "N"	m#	m#	1
4	3	NV	secondaryOfferings		CHOICE	m#	m#	1
4	3	attr String	isSecondaryOffering		"Y"	m	m	1
5	1	String	secondaryOfferingType		SECURITY_TYPE	m	m	6
5	2	String	otherSecondaryOfferingDesc	5000		m#13	m#13	1
4	4	NV	repurchaseSecurities		CHOICE	m#	m#	1
4	4	attr String	isRepurchaseSecurity		"Y"	m	m	1
5	1	String	repurchaseSecurityType		SECURITY_TYPE	m#	m#	6
5	2	String	otherRepurchaseSecurityDesc	5000		m#14	m#14	1
4	4	String	isRepurchaseSecurity		CHOICE "N"	m#	m#	1
4	5	NV	longTermDebtDefault		CHOICE	m#	m#	1
4	5	attr String	isDefaultLongTermDebt		"Y"	m	m	1
5	1	NV	longTermDebtDefaults			m	m	1
6	1	NV	longTermDebtDefault			m	m	1000
6	1	attr String	defaultNature	5000		m	m	1
6	1	attr date	defaultDate		YYYY-MM-DD	m	m	1
6	1	attr Decimal	defaultPerThousandAmount	24		m	m	1
6	1	attr Decimal	defaultTotalAmount	24		m	m	1
4	5	String	isDefaultLongTermDebt		CHOICE "N"	m#	m#	1
4	6	NV	divdlnArrears		CHOICE	m#	m#	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
4	6	String attr	isDividendsInArrears		"Y"	m	m	1
5	1	NV	dividendsInArrears			m	m	1
6	1	NV	dividendsInArrear			m	m	1000
6	1	attr String	dividendIssueTitle	150		m	m	1
6	1	attr Decimal	dividendAmountPerShareInArrear	24		m	m	1
4	6	String	isDividendsInArrears		CHOICE "N"	m#	m#	1
4	7	String	isSecuritiesModified		YES_NO_TYPE	m#	m#	1
4	8	Decimal	managementFee	24		m#15	m#15	1
4	9	Decimal	netOperatingExpenses	24		m#	m#	1
4	10	Decimal	marketPricePerShare	24	Decimal or N/A	m#16	m#16	1
4	11	Decimal	netAssetValuePerShare	24		m#	m#	1
4	12	NV	smallInvestmentAdvisers			o#4	o#4	1
5	1	NV	smallInvestmentAdviser			m#	m#	1000
6	1	String	smallInvestmentAdviserName	150		m	m	1
6	2	Strng	smallInvestmentAdviserFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
6	3	String	smallInvestmentAdviserCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
6	4	String	smallInvestmentAdviserLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m#	m#	1
6	5	String	smallInvestmentAdviserRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
6	56	NV	smallInvestmentAdviserStateCountry		CHOICE	m	m	1
6	56	attr String	smallInvestmentAdviserState		ISO STATE AND OUTLYING AREA CODE_USA	m	m	1
6	56	attr String	smallInvestmentAdviserCountry		"US"	m	m	1
6	56	String	smallInvestmentAdviserCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
6	67	NV	smallInvestmentAdviserHired		CHOICE	m	m	1
6	67	attr String	isSmallInvestmentAdviserHired		"Y"	m	m	1
6	67	attr date	smallInvestmentAdviserStartDate		YYYY-MM-DD	m	m	1
6	67	String	isSmallInvestmentAdviserHired		CHOICE "N"	m	m	1
4	13	NV	terminatedSmallInvAdvisers			o#4	o#4	1

5	1	NV	terminatedSmallInvAdviser			m#	m#	1000
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	1	String	smallInvestmentAdviserTerminatedName	150		m	m	1
6	2	String	smallInvestmentAdviserTerminatedFileNo	17	FILE_NUMBER_TYPE defined in eis_Common.xsd	m	m	1
6	3	String	smallInvestmentAdviserTerminatedCrdNo	9	CRD_NUMBER_TYPE defined in eis_NCEN_Common.xsd	m	m	1
6	4	String	smallInvestmentAdviserTerminatedLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	m	m	1
6	5	String	smallInvestmentAdviserTerminatedRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	0	0	1
6	56	NV	smallInvestmentAdviserTerminatedStateCountry		CHOICE	m	m	1
6	56	attr String	smallInvestmentAdviserTerminatedState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
6	56	attr String	smallInvestmentAdviserTerminatedCountry		"US"	m	m	1
6	56	String	smallInvestmentAdviserTerminatedCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
6	67	date	smallInvestmentAdviserTerminatedDate		YYYY-MM-DD	m	m	1
4	14	NV	smallSubAdvisers			o#4	o#4	1
5	1	NV	smallSubAdviser			m#	m#	1000
6	1	String	smallSubAdviserName	150		m	m	1
6	2	String	smallSubAdviserFileNo	17	FILE_NUMBER_TYPE defined in eis_Common.xsd	m	m	1
6	3	String	smallSubAdviserCrdNo	9	CRD_NUMBER_TYPE defined in eis_NCEN_Common.xsd	m	m	1
6	4	String	smallSubAdviserLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	m	m	1
6	5	String	smallSubAdviserRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	0	0	1
6	56	NV	smallSubAdviserStateCountry		CHOICE	m	m	1
6	56	attr String	smallSubAdviserState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1

6	56	attr String	smallSubAdviserCountry		"US"	m	m	1
6	56	String	smallSubAdviserCountry		CHOICE ISO_FOREIGN_C OUNTRY_CODE	m	m	1
6	67	String	isSmallSubAdviserAffiliated		YES_NO_TYPE	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	78	NV	smallSubAdviserHired		CHOICE	m	m	1
6	78	attr String	isSmallSubAdviserHired		"Y"	m	m	1
6	78	attr date	smallSubAdviserStartDate		YYYY-MM-DD	m	m	1
6	78	String	isSmallSubAdviserHired		CHOICE "N"	m	m	1
4	15	NV	terminatedSmallSubAdvisers			o#4	o#4	1
5	1	NV	terminatedSmallSubAdviser			m#	m#	1000
6	1	String	smallSubAdviserTerminatedName	150		m	m	1
6	2	String	smallSubAdviserTerminatedFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
6	3	String	smallSubAdviserTerminatedCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
6	4	String	smallSubAdviserTerminatedLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
6	5	String	smallSubAdviserTerminatedRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1
6	56	NV	smallSubAdviserTerminatedStateCountry		CHOICE	m	m	1
6	56	attr String	smallSubAdviserTerminatedState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
6	56	attr String	smallSubAdviserTerminatedCountry		"US"	m	m	1
6	56	String	smallSubAdviserTerminatedCountry		CHOICE ISO FOREIGN C OUNTRY CODE	m	m	1
6	67	date	smallSubAdviserTerminatedDate		YYYY-MM-DD	m	m	1
4	16	NV	smallTransferAgents			o#4	o#4	1
5	1	NV	smallTransferAgent			m#	m#	1000
6	1	String	smallTransferAgentName	150		m	m	1
6	2	String	smallTransferAgentFileNo	17	FILE_NUMBER_T YPE defined in eis_Common.xsd	m	m	1
6	3	String	smallTransferAgentLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	m	m	1
6	4	String	smallTransferAgentRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Commo n.xsd	o	o	1

6	<u>45</u>	NV	smallTransferAgentStateCountry		CHOICE	m	m	1
7	1	String	smallTransferAgentState		ISO STATE AND OUTLYING AREA CODE USA	m	m	1
7	2	String	smallTransferAgentCountry		"US"	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	45	String	smallTransferAgentCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
6	56	String	isSmallTransferAgentAffiliated		YES_NO_TYPE	m	m	1
6	67	String	isSmallTransferAgentSubAdmin		YES_NO_TYPE	m	m	1
4	17	String	isSmallTransferAgentHiredOrTerminated		YES_NO_TYPE	c#5	c#5	1
4	18	NV	smallCustodians			c#5	c#5	1
5	1	NV	smallCustodian			m#	m#	1000
6	1	String	smallCustodianName	150		m	m	1
6	2	String	smallCustodianLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	m#	m#	1
6	3	String	smallCustodianRssId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
6	34	NV	smallCustodianStateCountry		CHOICE	m	m	1
6	34	attr String	smallCustodianState		ISO_STATE_AND_OUTLYING_AREA_CODE_USA	m	m	1
6	34	attr String	smallCustodianCountry		"US"	m	m	1
6	34	String	smallCustodianCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
6	45	String	isSmallCustodianAffiliated		YES_NO_TYPE	m	m	1
6	56	String	isSmallCustodianSub		YES_NO_TYPE	m	m	1
6	67	NV	custodyType		CUSTODY_TYPE	m	m	1
6	78	String	otherSmallCustodianDesc	5000		m#17	m#17	1
4	19	String	isSmallCustodianHiredTerminated		YES_NO_TYPE	c#6	c#6	1
3	5	NV	exchangeSeriesInfo			c#4	c#4	1
4	1	NV	exchangeTradedFund			o	o	1000
5	1	String	fundName	150		c#7	c#7	1
5	2	String	etfSeriesId		SERIES_ID_TYPE defined in eis_Common_SC.xsd	c#8	c#8	1
5	3	NV	securityExchanges			m#	m#	1
6	1	NV	securityExchange			m#	m#	1000
6	1	attr String	fundExchange		ISO_EXCHANGE_CODE	m	m	1
6	1	attr String	fundsTickerSymbol	12		m	m	1
5	4	NV	authorizedParticipants			m	m	1
6	1	NV	authorizedParticipant			m#	m#	1000
6	1	attr String	authorizedParticipantName	150		m	m	1

6	1	attr String	authorizedParticipantFileNo	17	FILE_NUMBER_T YPE	m	m	1
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
					defined in eis_Common.xsd			
6	1	attr String	authorizedParticipantCrdNo	9	CRD_NUMBER_TYPE defined in eis_NCEN_Common.xsd	m	m	1
6	1	attr String	authorizedParticipantLei	20	LEI_TYPE_RSS_NA defined in eis_NCEN_Common.xsd	om	mo	1
6	1	attr String	authorizedParticipantRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
6	1	attr Decimal	authorizedParticipantPurchaseValue	24		m	m	1
6	1	attr Decimal	authorizedParticipantRedeemValue	24		m	m	1
5	5	String	isCollateralRequired		YES_NO_TYPE	m	m	1
5	6	Decimal	creationUnitNumOfShares	24		m	m	1
5	7	Decimal	creationUnitRedeemedNumOfShares	24		o	o	1
5	8	Decimal	averagePercentagePurchased	24		m	m	1
5	9	Decimal	standardDeviationPurchased	24		m	m	1
5	10	Decimal	creationUnitPurchasedInKind	24		m	m	1
5	11	Decimal	creationUnitPurchasedSDInKind	24		m	m	1
5	12	Decimal	averagePercentageRedeemed	24		m	m	1
5	13	Decimal	percentSDRedeemed	24		m	m	1
5	14	Decimal	creationUnitPercentageRedeemedInKind	24		m	m	1
5	15	Decimal	creationUnitSDRedeemedInKind	24		m	m	1
5	16	Decimal	creationUnitTransactionFeePerUnit	24	Non Neg Decimal or N/A	m	m	1
5	17	Decimal	creationUnitTransactionFeeManyUnits	24	Non Neg Decimal or N/A	m	m	1
5	18	Decimal	creationUnitTransactionFeePercentagePerUnit	24	Non Neg Decimal or N/A	m	m	1
5	19	Decimal	creationUnitTransactionFeeCashPerUnit	24	Non Neg Decimal or N/A	m	m	1
5	20	Decimal	creationUnitTransactionFeeCashManyUnits	24	Non Neg Decimal or N/A	m	m	1
5	21	Decimal	creationUnitTransactionFeeCashPercentagePerUnit	24	Non Neg Decimal or N/A	m	m	1
5	22	Decimal	purchaseCreationUnitDollarPerUnit	24	Non Neg Decimal or N/A	m	m	1
5	23	Decimal	purchaseCreationUnitDollarPerMoreUnits	24	Non Neg Decimal or N/A	m	m	1
5	24	Decimal	purchaseCreationUnitDollarPercentagePerUnit	24	Non Neg Decimal or N/A	m	m	1
5	25	Decimal	purchaseCreationUnitCashPerUnit	24	Non Neg Decimal or N/A	m	m	1

5	26	Decimal	purchaseCreationUnitCashPerMoreUnits	24	Non Neg Decimal or N/A	m	m	1
5	27	Decimal	purchaseCreationUnitCashPercentagePerUnit	24	Non Neg Decimal or N/A	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
5	28	String	isByAffiliatedPerson		YES_NO_TYPE	m#19	m#19	1
5	29	String	isExclusiveFund		YES_NO_TYPE	m#19	m#19	1
5	30	Decimal	beforeFundFeesExpensesDiff	24		m#19	m#19	1
5	31	Decimal	afterFundFeesExpensesDiff	24		m#19	m#19	1
5	32	Decimal	beforeFundFeesExpensesSd	24		m#19	m#19	1
5	33	Decimal	afterFundFeesExpensesSd	24		m#19	m#19	1
5	34	String	isInKindETF		YES_NO_TYPE	o#5	o#5	1
3	6	NV	unitInvestmentTrust			na#5	na#5	1
4	1	NV	depositors			o#6	o#6	1
5	1	NV	depositor			m#	m#	1000
6	1	String	depositorName	150		m	m	1
6	2	String	depositorCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Commo n.xsd	m	m	1
6	3	String	depositorLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Commo n.xsd	mo	mo	1
6	4	String	depositorRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Comm on.xsd	o	o	1
6	45	NV	depositorStateCountry		CHOICE	m	m	1
6	45	attr String	depositorState		ISO STATE AND OUTLYING AREA _CODE_USA	m	m	1
6	45	attr String	depositorCountry		"US"	m	m	1
6	45	String	depositorCountry		CHOICE ISO FOREIGN C OUNTRY_CODE	m	m	1
6	56	String	depositorUltimateParentname	150		m	m	1
4	2	NV	uitAdmins			o#6	o#6	1
5	1	NV	uitAdmin			m#	m#	1000
6	1	String	uitAdminName	150		m	m	1
6	2	String	uitAdminLei	100		mo	mo	1
6	3	String	uitAdminRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xs d	o	o	1
6	4	String	uitAdminOther	100		o	o	1
6	35	String	uitAdminDescOtherNumber	500 9		ec#10	ec#10	1
6	46	NV	uitAdminStateCountry		CHOICE	m	m	1
6	46	attr String	uitAdminState		ISO STATE AND OUTLYING AREA _CODE_USA	m	m	1

6	46	attr String	uitAdminCountry		"US"	m	m	1
6	46	String	uitAdminCountry		CHOICE ISO FOREIGN COUNTRY CODE	m	m	1
6	57	String	isUitAdminAffiliated		YES NO TYPE	m	m	1

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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
6	68	String	isUitAdminSubAdmin		YES_NO_TYPE	m	m	1
4	3	String	isUitAdminHiredTerminated		YES_NO_TYPE	na#6	na#6	1
4	4	NV	registrantSeparateInsuranceAccount		CHOICE	na#6	na#6	1
4	4	attr String	isRegistrantSeparateInsuranceAccount		"Y"	m	m	1
4	4	attr Strng	separateAccountSeriesId	10	SERIES_ID_TYPE defined in eis_Common_SC.xsd	m	m	1
4	4	NV	notRegistrantSeparateInsuranceAccount		CHOICE	na#6	na#6	1
4	4	attr String	isRegistrantSeparateInsuranceAccount		"N"	m	m	1
5	1	NV	sponsors			o	o	1
6	1	NV	sponsor			m#	m#	1000
7	1	String	sponsorName	150		m	m	1
7	2	String	sponsorCrdNo	9	CRD_NUMBER_T YPE defined in eis_NCEN_Common.xsd	m	m	1
7	23	String	sponsorLei	20	LEI_TYPE_RSS_N A defined in eis_NCEN_Common.xsd	om	mo	1
7	4	String	sponsorRssdId	10	RSSD_ID_TYPE defined in eis_NCEN_Common.xsd	o	o	1
7	45	NV	sponsorStateCountry		CHOICE	m	m	1
7	45	attr String	sponsorState		ISO_STATE_AND_OUTLYING_AREA_CODE_USA	m	m	1
7	45	attr String	sponsorCountry		"US"	m	m	1
7	45	String	sponsorCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1
5	2	NV	trustees			o	o	1
6	1	NV	trustee			m#	m#	1000
7	1	String	trusteeName	150		m	m	1
7	2	NV	trusteeStateCountry		CHOICE	m	m	1
7	2	attr String	trusteeState		ISO_STATE_AND_OUTLYING_AREA_CODE_USA	m	m	1
7	2	attr String	trusteeCountry		"US"	m	m	1
7	2	String	trusteeCountry		CHOICE ISO_FOREIGN_COUNTRY_CODE	m	m	1

5	3	integer	numOfExistingSeries	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
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Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
5	4	NV	seriesCIKs			m#20	m#20	1
6	1	NV	seriesCIK			m#	m#	5000
6	1	attr String	cik	10		m	m	1
5	6	integer	numOfNewSeriesRegistration	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
5	7	Decimal	newSeriesAggregateValue	24		m	m	1
5	8	integer	numOfSeriesCurrentProspectus	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
5	9	integer	numOfExistingSeriesAdditionalUnits	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
5	10	Decimal	additionalUnitsTotalValue	24		m	m	1
5	11	Decimal	unitInPortfolioValue	24		m	m	1
5	12	Decimal	totalAssetsSeries	24		m	m	1
4	5	integer	numOfContracts	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m#21	m#21	1
4	6	NV	contractSecurities			m#21	m#21	1
5	1	NV	contractSecurity			m#	m#	1000
5	1	attr String	separateAccountSecurityName	150		m	m	1
5	1	attr String	separateAccountContractId	10	CLASS_ID_TYPE defined in eis_Common_SC.xsd	m	m	1
5	1	attr Decimal	separateAccountTotalAsset	24		m	m	1
5	1	attr integer	numContractsSold	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
5	1	attr Decimal	grossPremiumReceived	24		m	m	1
5	1	attr Decimal	grossPremiumReceivedSection1035	24		m	m	1
5	1	attr integer	numContractsAffected	8	INTEGER_NONNEGATIVE_8 defined in eis_NCEN_Common.xsd	m	m	1
5	1	attr	contractValueRedeemed	24		m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
		Decimal						
5	1	attr Decimal	contractValueRedeemedSection1035	24		m	m	1
5	1	attr integer	numContractsAffectedRedeemed	8		m	m	1
4	7	String	isRule6C7Reliance		YES_NO_TYPE	m#21	m#21	1
4	8	String	isRule11A2Reliance		YES_NO_TYPE	m#21	m#21	1
4	9	String	isRule12D1Dash4Reliance		YES_NO_TYPE	c#9	c#9	1
4	10	String	isRule12D1GReliance		YES_NO_TYPE	c#9	c#9	1
4	11	NV	divestments			o#6	o#6	1
5	1	NV	divestment			m#	m#	1000
5	1	attr String	divestmentSecurityName	150		m	m	1
5	1	attr String	divestmentSecurityTickerSymbol	12		m	m	1
5	1	attr String	divestmentSecurityCusipNo	10		m	m	1
5	1	attr Decimal	divestedNumShares	24		m	m	1
5	1	attr date	divestedDate		YYYY-MM-DD	m	m	1
5	1	attr String	divestmentStatuteName	150		m	m	1
4	12	NV	registrantHeldSecurities			o#7	o#7	1
5	1	NV	registrantHeldSecurity			m#	m#	1000
5	1	attr String	registrantHeldSecurityTickerSymbol	12		m	m	1
5	1	attr String	registrantHoldsSecurityCusipNo	10		m	m	1
5	1	attr Decimal	registrantNumShare	24		m	m	1
3	7	NV	attachmentsTab			o	o	1
4	1	Boolean	isLegalProceedings		"true" or "false"	o	o	1
4	2	Boolean	isProvisionFinancialSupport		"true" or "false"	o	o	1
4	3	Boolean	isIPAReportInternalControl		"true" or "false"	o	o	1
4	4	Boolean	isChangeAccPrinciples		"true" or "false"	o	o	1
4	5	Boolean	isInfoRequiredEO		"true" or "false"	o	o	1
4	6	Boolean	isOtherInfoRequired		"true" or "false"	o	o	1
4	7	Boolean	isMaterialAmendments		"true" or "false"	o#8	o#8	1
4	8	Boolean	isInstDefiningRights		"true" or "false"	o#8	o#8	1
4	9	Boolean	isNewOrAmendedInvAdvContracts		"true" or "false"	o#8	o#8	1
4	10	Boolean	isInfoltem405		"true" or "false"	o#8	o#8	1
4	11	Boolean	isCodeOfEthics		"true" or "false"	o#8	o#8	1
3	8	NV	signature			m	m	1
3	8	attr String	registrantSignedName	150		m	m	1
3	8	attr date	signedDate		YYYY-MM-DD	m	m	1

Level	Order	Data Type	Element/Attribute Length	Max Length	Choice List	N-CEN	N-CEN/A	Max Occur
3	8	attr String	signature	150		m	m	1
3	8	attr String	title	150		m	m	1
2	4	NV	documents			o	o	1
3	1	NV	document			m#	m#	unbo unde d
4	1	String	conformedName	32		m#	m#	1
4	2	String	conformedDocumentType			m#	m#	1
4	3	String	description	255		o	o	1
4	4	String	contents			m#	m#	1

4 N-CEN SCHEMA DATA VALUE CONSTRAINTS

4.1 SUBMISSION_TYPE

These are the valid values for elements with type <SUBMISSION_TYPE> in the submission file:

VALUE	CODE DESCRIPTION
N-CEN	Annual Report for Registered Investment Companies
N-CEN/A	Amendment to Annual Report for Registered Investment Companies

4.2 COMPANY_CLASSIFICATION_TYPE

These are the valid values for elements with type <COMPANY_CLASSIFICATION_TYPE> in the submission file:

VALUE
N-1A
N-2
N-3
N-4
N-5
N-6
S-6

4.3 CREDIT_LINE_COMMITTED_TYPE

These are the valid values for elements with type <CREDIT_LINE_COMMITTED_TYPE> in the submission file:

VALUE
Committed
Uncommitted

4.4 ASSET_TYPE

These are the valid values for elements with type <ASSET_TYPE> in the submission file:

VALUE
Short-term investment vehicle
<u>Repurchase agreement</u>
Equity-common
Equity-preferred
Debt
Derivative-commodity
Derivative-credit
Derivative-equity

VALUE
Derivative-foreign exchange
Derivative-interest rate
Derivative-other
Structured note
Loan
ABS-mortgage backed security
ABS-asset backed commercial paper
ABS-collateralized bond/debt obligation
ABS-other
Commodity
Real estate
Other

4.5 CUSTODY_TYPE

These are the valid values for elements with type <CUSTODY_TYPE> in the submission file:

VALUE
Bank - section 17(f)(1) (15 U.S.C. 80a-17(f)(1))
Member national securities exchange - rule 17f-1 (17 CFR 270.17f-1)
Self - rule 17f-2 (17 CFR 270.17f-2)
Securities depository - rule 17f-4 (17 CFR 270.17f-4)
Foreign custodian - rule 17f-5 (17 CFR 270.17f-5)
Futures commission merchants and commodity clearing organizations - rule 17f-6 (17 CFR 270.17f-6)
Foreign securities depository - rule 17f-7 (17 CFR 270.17f-7)
Insurance company sponsor - rule 26a-2 (17 CFR 270.26a-2)
Other

4.6 RELY_ON_RULE_TYPE

These are the valid values for elements with type <RELY_ON_RULE_TYPE> in the submission file:

VALUE
Rule 10f-3 (17 CFR 270.10f-3)
Rule 12d1-1 (17 CFR 270.12d1-1)
Rule 15a-4 (17 CFR 270.15a-4)
Rule 17a-6 (17 CFR 270.17a-6)
Rule 17a-7 (17 CFR 270.17a-7)
Rule 17a-8 (17 CFR 270.17a-8)
Rule 17e-1 (17 CFR 270.17e-1)

VALUE
Rule 22d-1 (17 CFR 270.22d-1)
Rule 23c-1 (17 CFR 270.23c-1)
Rule 32a-4 (17 CFR 270.32a-4)
Rule 6c-11 (17 CFR 270.6c-11)
Rule 12d1-4 (17 CFR 270.12d1-4)
Section 12(d)(1)(G) of the Act (15 USC 80a-12(d)(1)(G))
Rule 18f-4 (17 CFR 270.18f-4)
Rule 18f-4(c)(4) (17CFR 270.18f-4(c)(4))
Rule 18f-4(c)(2) (17 CFR 270.18f-4(c)(2))
Rule 18f-4(d)(i) (17 CFR 270.18f-4(d)(i))
Rule 18f-4(d)(ii) (17 CFR 270.18f-4(d)(ii))
Rule 18f-4(e) (17 CFR 270.18f-4(e))
Rule 18f-4(f)(17 CFR 270.18f-4(f))

4.7 PAYMENT_TO_AGENT_MANAGER_TYPE

These are the valid values for elements with type <PAYMENT_TO_AGENT_MANAGER_TYPE> in the submission file:

VALUE
Revenue sharing split
Non-revenue sharing split (other than administrative fee)
Administrative fee
Cash collateral reinvestment fee
Indemnification fee
Other

4.8 FUND_TYPE

These are the valid values for elements with type <FUND_TYPE> in the submission file:

VALUE
Exchange-Traded Fund
Exchange-Traded Managed Fund
Inverse of a benchmark
Interval Fund
Fund of Funds
Money Market Fund
Target Date Fund
Underlying fund

4.9 SECURITY_TYPE

These are the valid values for elements with type <SECURITY_TYPE> in the submission file:

VALUE
Common stock
Preferred stock
Warrants
Convertible securities
Bonds
Other

5 COMMON SCHEMA DATA VALUE CONSTRAINTS

5.1 YES_NO_TYPE

These are the valid values for elements with type <YES_NO_TYPE> in the submission file:

VALUE
Y
N

6 ISO EXCHANGE LIST SCHEMA DATA VALUE CONSTRAINTS

6.1 ISO_EXCHANGE_CODE

These are the valid values for elements with type <ISO_EXCHANGE_CODE> in the submission file:

VALUE	CODE DESCRIPTION	COUNTRY
N/A	N/A	N/A
AATS	ASSENT ATS	UNITED STATES OF AMERICA
AQUA	AQUA EQUITIES L.P.	UNITED STATES OF AMERICA
ATDF	AUTOMATED TRADING DESK FINANCIAL SERVICES, LLC	UNITED STATES OF AMERICA
CORE	ATD - CITIGROUP AGENCY OPTION AND EQUITIES ROUTING ENGINE	UNITED STATES OF AMERICA
BAML	BANK OF AMERICA - MERRILL LYNCH INSTINCT X ATS	UNITED STATES OF AMERICA
MLVX	BANK OF AMERICA - MERRILL LYNCH VWAP CROSS	UNITED STATES OF AMERICA
MLCO	BANK OF AMERICA - MERRILL LYNCH OTC	UNITED STATES OF AMERICA
BARX	BARCLAYS ATS	UNITED STATES OF AMERICA
BARL	BARCLAYS LIQUID MARKETS	UNITED STATES OF AMERICA
BARD	BARCLAYS FX – TRADING	UNITED STATES OF AMERICA
BCDX	BARCLAYS DIRECT EX ATS	UNITED STATES OF AMERICA
BATS	BATS Z-EXCHANGE	UNITED STATES OF AMERICA
BATO	BZX OPTIONS MARKET	UNITED STATES OF AMERICA
BATY	BATS Y-EXCHANGE, INC.	UNITED STATES OF AMERICA
BZXD	BATS Z-EXCHANGE DARK	UNITED STATES OF AMERICA
BYXD	BATS Y-EXCHANGE DARK	UNITED STATES OF AMERICA
BBSF	BLOOMBERG SEF LLC	UNITED STATES OF AMERICA
BGCF	BGC FINANCIAL INC	UNITED STATES OF AMERICA
BGCD	BGC DERIVATIVE MARKETS L.P.	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
BHSF	BATS HOTSPOT SEF LLC	UNITED STATES OF AMERICA
BIDS	BIDS TRADING L.P.	UNITED STATES OF AMERICA
BLTD	BLOOMBERG TRADEBOOK LLC	UNITED STATES OF AMERICA
BPOL	BLOOMBERG BPOOL	UNITED STATES OF AMERICA
BNYC	CONVERGEX	UNITED STATES OF AMERICA
VTEX	VORTEX	UNITED STATES OF AMERICA
NYFX	MILLENNIUM	UNITED STATES OF AMERICA
BTEC	ICAP ELECTRONIC BROKING (US)	UNITED STATES OF AMERICA
ICSU	ICAP SEF (US) LLC.	UNITED STATES OF AMERICA
CDED	CITADEL SECURITIES	UNITED STATES OF AMERICA
CGMI	CITIGROUP GLOBAL MARKETS	UNITED STATES OF AMERICA
CICX	CITI CROSS	UNITED STATES OF AMERICA
LQFI	CITI LIQUIFI	UNITED STATES OF AMERICA
CBLC	CITIBLOC	UNITED STATES OF AMERICA
CMSF	CLEAR MARKETS NORTH AMERICA, INC.	UNITED STATES OF AMERICA
CRED	CREDIT SUISSE (US)	UNITED STATES OF AMERICA
CSLP	CREDIT SUISSE LIGHT POOL	UNITED STATES OF AMERICA
CAES	CREDIT SUISSE AES CROSSFINDER	UNITED STATES OF AMERICA
DBSX	DEUTSCHE BANK SUPER X	UNITED STATES OF AMERICA
DEAL	DCX (DERIVATIVES CURRENCY EXCHANGE)	UNITED STATES OF AMERICA
EDGE	BATS DIRECT EDGE	UNITED STATES OF AMERICA
EDDP	EDGX EXCHANGE DARK	UNITED STATES OF AMERICA
EDGA	EDGA EXCHANGE	UNITED STATES OF

VALUE	CODE DESCRIPTION	COUNTRY
		AMERICA
EDGD	EDGA EXCHANGE DARK	UNITED STATES OF AMERICA
EDGX	EDGX EXCHANGE	UNITED STATES OF AMERICA
EDGO	EDGX OPTIONS MARKET	UNITED STATES OF AMERICA
EGMT	EG MARKET TECHNOLOGIES	UNITED STATES OF AMERICA
ERIS	ERIS EXCHANGE	UNITED STATES OF AMERICA
FAST	FASTMATCH	UNITED STATES OF AMERICA
FINR	FINRA	UNITED STATES OF AMERICA
OOTC	OTHER OTC	UNITED STATES OF AMERICA
FINO	FINRA ORF (TRADE REPORTING FACILITY)	UNITED STATES OF AMERICA
FINN	FINRA/NASDAQ TRF(TRADE REPORTING FACILITY)	UNITED STATES OF AMERICA
FINY	FINRA/NYSE TRF (TRADE REPORTING FACILITY)	UNITED STATES OF AMERICA
XADF	FINRA ALTERNATIVE DISPLAY FACILITY (ADF)	UNITED STATES OF AMERICA
FSEF	FTSEF LLC	UNITED STATES OF AMERICA
FXAL	FXALL	UNITED STATES OF AMERICA
FXCM	FXCM	UNITED STATES OF AMERICA
G1XX	G1 EXECUTION SERVICES	UNITED STATES OF AMERICA
GLLC	GATE US LLC	UNITED STATES OF AMERICA
GLPS	ESSEX RADEZ, LLC	UNITED STATES OF AMERICA
GLPX	ACS EXECUTION SERVICES, LLC	UNITED STATES OF AMERICA
GOVX	GOVEX	UNITED STATES OF AMERICA
GREE	THE GREEN EXCHANGE	UNITED STATES OF AMERICA
GSEF	GFI SWAPS EXCHANGE, LLC	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
GTCO	KCG AMERICAS LLC	UNITED STATES OF AMERICA
GTSX	GTSX	UNITED STATES OF AMERICA
GTXS	GTX SEF, LLC	UNITED STATES OF AMERICA
HEGX	NADEX	UNITED STATES OF AMERICA
HPPO	POTAMUS TRADING LLC	UNITED STATES OF AMERICA
HSFX	HOTSPOT FX	UNITED STATES OF AMERICA
ICEL	ISLAND ECN LTD, THE	UNITED STATES OF AMERICA
IEXG	INVESTORS EXCHANGE	UNITED STATES OF AMERICA
IFUS	ICE FUTURES U.S.	UNITED STATES OF AMERICA
IMCC	CREDITEX SECURITIES CORPORATION	UNITED STATES OF AMERICA
ICES	ICE SWAP TRADE LLC	UNITED STATES OF AMERICA
IFED	ICE FUTURES U.S. ENERGY DIVISION	UNITED STATES OF AMERICA
IMCG	CREDITEX LLC	UNITED STATES OF AMERICA
IMIR	ICE MARKETS RATES	UNITED STATES OF AMERICA
IMCR	ICE MARKETS CREDIT	UNITED STATES OF AMERICA
IMFX	ICE MARKETS FOREIGN EXCHANGE	UNITED STATES OF AMERICA
IMEN	ICE MARKETS ENERGY	UNITED STATES OF AMERICA
IMAG	ICE MARKETS AGRICULTURE	UNITED STATES OF AMERICA
IMBD	ICE MARKETS BONDS	UNITED STATES OF AMERICA
IEPA	INTERCONTINENTAL EXCHANGE	UNITED STATES OF AMERICA
ISDA	ISDAFIX	UNITED STATES OF AMERICA
ITGI	ITG - POSIT	UNITED STATES OF AMERICA
JEFX	JETX	UNITED STATES OF

VALUE	CODE DESCRIPTION	COUNTRY
		AMERICA
JPBX	JPBX	UNITED STATES OF AMERICA
JPMX	JPMX	UNITED STATES OF AMERICA
JSES	JANE STREET EXECUTION SERVICES LLC	UNITED STATES OF AMERICA
JSJX	JANE STREET JX	UNITED STATES OF AMERICA
KNIG	KNIGHT	UNITED STATES OF AMERICA
ACKF	KCG ACKNOWLEDGE FI	UNITED STATES OF AMERICA
KNCM	KNIGHT CAPITAL MARKETS LLC	UNITED STATES OF AMERICA
KNEM	KNIGHT EQUITY MARKETS LP	UNITED STATES OF AMERICA
KNLI	KNIGHT LINK	UNITED STATES OF AMERICA
KNMX	KNIGHT MATCH ATS	UNITED STATES OF AMERICA
LASF	LATAM SEF	UNITED STATES OF AMERICA
LEVL	LEVEL ATS	UNITED STATES OF AMERICA
LIUS	LIQUIDNET, INC.	UNITED STATES OF AMERICA
LIUH	LIQUIDNET, INC. H2O ATS	UNITED STATES OF AMERICA
LIFI	LIQUIDNET, INC. FIXED INCOME ATS	UNITED STATES OF AMERICA
LQED	LIQUIDITYEDGE	UNITED STATES OF AMERICA
LTAA	LUMINEX TRADING & ANALYTICS LLC	UNITED STATES OF AMERICA
LMNX	LUMINEX TRADING & ANALYTICS LLC - ATS	UNITED STATES OF AMERICA
MIHI	MIAMI INTERNATIONAL HOLDINGS, INC.	UNITED STATES OF AMERICA
XMIO	MIAMI INTERNATIONAL SECURITIES EXCHANGE	UNITED STATES OF AMERICA
MPRL	MIAX PEARL, LLC	UNITED STATES OF AMERICA
MSCO	MORGAN STANLEY AND CO. LLC	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
MSLP	MORGAN STANLEY AUTOMATED LIQUIDITY PROVISION	UNITED STATES OF AMERICA
MSTX	MS TRAJECTORY CROSS	UNITED STATES OF AMERICA
MSPL	MS POOL	UNITED STATES OF AMERICA
MSRP	MS RETAIL POOL	UNITED STATES OF AMERICA
MTUS	MTS US	UNITED STATES OF AMERICA
MTSB	MTS BONDS.COM	UNITED STATES OF AMERICA
BVUS	BONDVISION US	UNITED STATES OF AMERICA
MTXX	MARKETAXESS CORPORATION	UNITED STATES OF AMERICA
MTXC	MARKETAXESS CORPORATION SINGLE-NAME CDS CENTRAL LIMIT ORDER	UNITED STATES OF AMERICA
MTXM	MARKETAXESS CORPORATION MID-X TRADING SYSTEM	UNITED STATES OF AMERICA
MTXA	MARKETAXESS CANADA COMPANY	UNITED STATES OF AMERICA
MTXS	MARKETAXESS SEF CORPORATION	UNITED STATES OF AMERICA
NBLX	NOBLE EXCHANGE	UNITED STATES OF AMERICA
NFSC	NATIONAL FINANCIAL SERVICES, LLC	UNITED STATES OF AMERICA
XSTM	FIDELITY CROSSSTREAM ATS	UNITED STATES OF AMERICA
NFSD	FIDELITY DARK	UNITED STATES OF AMERICA
NFSA	FIDELITY CROSSSTREAM	UNITED STATES OF AMERICA
NMRA	NOMURA SECURITIES INTERNATIONAL	UNITED STATES OF AMERICA
NODX	NODAL EXCHANGE	UNITED STATES OF AMERICA
NXUS	NX ATS - CROSSING PLATFORM	UNITED STATES OF AMERICA
NYPC	NEW YORK PORTFOLIO CLEARING	UNITED STATES OF AMERICA
OLLC	OTCEX LLC	UNITED STATES OF AMERICA
OPRA	OPTIONS PRICE REPORTING AUTHORITY	UNITED STATES OF

VALUE	CODE DESCRIPTION	COUNTRY
		AMERICA
OTCM	OTC MARKETS	UNITED STATES OF AMERICA
CAVE	CAVEAT EMPTOR	UNITED STATES OF AMERICA
OTCB	OTCQB MARKETPLACE	UNITED STATES OF AMERICA
PINI	OTC PINK NO INFORMATION	UNITED STATES OF AMERICA
OTCQ	OTCQX MARKETPLACE	UNITED STATES OF AMERICA
PINL	OTC PINK LIMITED	UNITED STATES OF AMERICA
PINX	OTC PINK MARKETPLACE	UNITED STATES OF AMERICA
PSGM	OTC GREY MARKET	UNITED STATES OF AMERICA
PINC	OTC PINK CURRENT	UNITED STATES OF AMERICA
PDQX	CODA MARKETS	UNITED STATES OF AMERICA
PDQD	CODA MARKETS ATS DARK	UNITED STATES OF AMERICA
PIPE	ARITAS SECURITIES LLC	UNITED STATES OF AMERICA
PRSE	PRAGMA ATS	UNITED STATES OF AMERICA
PULX	BLOCKCROSS ATS	UNITED STATES OF AMERICA
RICX	RIVERCROSS	UNITED STATES OF AMERICA
RICD	RIVERCROSS DARK	UNITED STATES OF AMERICA
SCXS	SEED SEF LLC	UNITED STATES OF AMERICA
SGMA	GOLDMAN SACH MTF	UNITED STATES OF AMERICA
SGMT	SIGMA X2	UNITED STATES OF AMERICA
SHAW	D.E. SHAW	UNITED STATES OF AMERICA
SHAD	D.E. SHAW DARK	UNITED STATES OF AMERICA
SOHO	TWO SIGMA SECURITIES, LLC	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
SSTX	E-EXCHANGE	UNITED STATES OF AMERICA
TERA	TERAEXCHANGE	UNITED STATES OF AMERICA
TFSU	TFS GREEN UNITED STATES GREEN MARKETS	UNITED STATES OF AMERICA
THRE	THOMSON REUTERS (SEF) LLC	UNITED STATES OF AMERICA
TMID	TRUMID ATS	UNITED STATES OF AMERICA
TPSE	TP SEF, INC.	UNITED STATES OF AMERICA
TRCK	TRACK ECN	UNITED STATES OF AMERICA
TRUX	TRUEEX LLC	UNITED STATES OF AMERICA
TRU1	TRUEEX LLC - DESIGNATED CONTRACT MARKET (DMC)	UNITED STATES OF AMERICA
TRU2	TRUEEX LLC - SEF (SWAP EXECUTION FACILITY)	UNITED STATES OF AMERICA
TRWB	TRADEWEB LLC	UNITED STATES OF AMERICA
BNDD	TRADEWEB DIRECT LLC	UNITED STATES OF AMERICA
TWSF	TW SEF LLC	UNITED STATES OF AMERICA
DWSF	DW SEF LLC	UNITED STATES OF AMERICA
TSAD	TRADITION SECURITIES AND DERIVATIVES INC.	UNITED STATES OF AMERICA
TSBX	TRIPLESHOT	UNITED STATES OF AMERICA
TSEF	TRADITION SEF	UNITED STATES OF AMERICA
UBSA	UBS ATS	UNITED STATES OF AMERICA
UBSP	UBS PIN (UBS PRICE IMPROVEMENT NETWORK)	UNITED STATES OF AMERICA
VFCM	VIRTU FINANCIAL CAPITAL MARKETS LLC	UNITED STATES OF AMERICA
VIRT	VIRTU FINANCIAL BD	UNITED STATES OF AMERICA
WEED	WEEDEN AND CO MARKETS	UNITED STATES OF AMERICA
XWEE	WEEDEN ATS	UNITED STATES OF

VALUE	CODE DESCRIPTION	COUNTRY
		AMERICA
WELX	WELLS FARGO LIQUIDITY CROSS ATS	UNITED STATES OF AMERICA
WSAG	WALL STREET ACCESS	UNITED STATES OF AMERICA
XAQS	AUTOMATED EQUITY FINANCE MARKETS	UNITED STATES OF AMERICA
XBOX	BOSTON OPTIONS EXCHANGE	UNITED STATES OF AMERICA
XCBO	CHICAGO BOARD OPTIONS EXCHANGE	UNITED STATES OF AMERICA
XCBF	CBOE FUTURES EXCHANGE	UNITED STATES OF AMERICA
CBSX	CBOE STOCK EXCHANGE	UNITED STATES OF AMERICA
C2OX	C2 OPTIONS EXCHANGE INC.	UNITED STATES OF AMERICA
XCBT	CHICAGO BOARD OF TRADE	UNITED STATES OF AMERICA
XKBT	KANSAS CITY BOARD OF TRADE	UNITED STATES OF AMERICA
FCBT	CHICAGO BOARD OF TRADE (FLOOR)	UNITED STATES OF AMERICA
XCFF	CANTOR FINANCIAL FUTURES EXCHANGE	UNITED STATES OF AMERICA
XCHI	CHICAGO STOCK EXCHANGE, INC	UNITED STATES OF AMERICA
XCIS	NATIONAL STOCK EXCHANGE, INC.	UNITED STATES OF AMERICA
XCME	CHICAGO MERCANTILE EXCHANGE	UNITED STATES OF AMERICA
CMES	CME SWAPS MARKETS (CME)	UNITED STATES OF AMERICA
CBTS	CME SWAPS MARKETS (CBOT)	UNITED STATES OF AMERICA
XIOM	INDEX AND OPTIONS MARKET	UNITED STATES OF AMERICA
XIMM	INTERNATIONAL MONETARY MARKET	UNITED STATES OF AMERICA
CECS	CME SWAPS MARKETS (COMEX)	UNITED STATES OF AMERICA
GLBX	CME GLOBEX	UNITED STATES OF AMERICA
NYMS	CME SWAPS MARKETS (NYMEX)	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
FCME	CHICAGO MERCANTILE EXCHANGE (FLOOR)	UNITED STATES OF AMERICA
XCUR	CURRENEX	UNITED STATES OF AMERICA
XELX	ELX	UNITED STATES OF AMERICA
XFCI	FINANCIALCONTENT INDEXES	UNITED STATES OF AMERICA
XGMX	GLOBALCLEAR MERCANTILE EXCHANGE	UNITED STATES OF AMERICA
XINS	INSTINET	UNITED STATES OF AMERICA
ICBX	INSTINET CBX (US)	UNITED STATES OF AMERICA
IBLX	INSTINET BLX	UNITED STATES OF AMERICA
ICRO	INSTINET VWAP CROSS	UNITED STATES OF AMERICA
IIDX	INSTINET IDX	UNITED STATES OF AMERICA
MOCX	MOC CROSS	UNITED STATES OF AMERICA
RCBX	INSTINET RETAIL CBX	UNITED STATES OF AMERICA
XISX	INTERNATIONAL SECURITIES EXCHANGE, LLC	UNITED STATES OF AMERICA
XISA	INTERNATIONAL SECURITIES EXCHANGE, LLC - ALTERNATIVE MARKETS	UNITED STATES OF AMERICA
XISE	INTERNATIONAL SECURITIES EXCHANGE, LLC - EQUITIES	UNITED STATES OF AMERICA
GMNI	ISE GEMINI EXCHANGE	UNITED STATES OF AMERICA
MCRY	ISE MERCURY, LLC	UNITED STATES OF AMERICA
XMER	MERCHANTS' EXCHANGE	UNITED STATES OF AMERICA
XMGE	MINNEAPOLIS GRAIN EXCHANGE	UNITED STATES OF AMERICA
XNAS	NASDAQ - ALL MARKETS	UNITED STATES OF AMERICA
ESPD	NASDAQ OMX ESPEED	UNITED STATES OF AMERICA
BOSD	NASDAQ OMX BX DARK	UNITED STATES OF AMERICA
NASD	NSDQ DARK	UNITED STATES OF

VALUE	CODE DESCRIPTION	COUNTRY
		AMERICA
XBRT	BRUT ECN	UNITED STATES OF AMERICA
XNCM	NASDAQ CAPITAL MARKET	UNITED STATES OF AMERICA
XPHL	NASDAQ OMX PHLX	UNITED STATES OF AMERICA
XBOS	NASDAQ OMX BX	UNITED STATES OF AMERICA
XPBT	NASDAQ OMX FUTURES EXCHANGE	UNITED STATES OF AMERICA
XPSX	NASDAQ OMX PSX	UNITED STATES OF AMERICA
XPHO	PHILADELPHIA OPTIONS EXCHANGE	UNITED STATES OF AMERICA
XNMS	NASDAQ/NMS (GLOBAL MARKET)	UNITED STATES OF AMERICA
XNIM	NASDAQ INTERMARKET	UNITED STATES OF AMERICA
XNGS	NASDAQ/NGS (GLOBAL SELECT MARKET)	UNITED STATES OF AMERICA
XNDQ	NASDAQ OPTIONS MARKET	UNITED STATES OF AMERICA
XPOR	PORTAL	UNITED STATES OF AMERICA
XBXO	NASDAQ OMX BX OPTIONS	UNITED STATES OF AMERICA
XNYM	NEW YORK MERCANTILE EXCHANGE	UNITED STATES OF AMERICA
XNYE	NEW YORK MERCANTILE EXCHANGE - OTC MARKETS	UNITED STATES OF AMERICA
XNYL	NEW YORK MERCANTILE EXCHANGE - ENERGY MARKETS	UNITED STATES OF AMERICA
XCEC	COMMODITIES EXCHANGE CENTER	UNITED STATES OF AMERICA
XNYS	NEW YORK STOCK EXCHANGE, INC.	UNITED STATES OF AMERICA
NYSD	NYSE DARK	UNITED STATES OF AMERICA
XNLI	NYSE LIFFE	UNITED STATES OF AMERICA
XASE	NYSE MKT LLC	UNITED STATES OF AMERICA
ARCX	NYSE ARCA	UNITED STATES OF AMERICA

VALUE	CODE DESCRIPTION	COUNTRY
ARCO	NYSE ARCA OPTIONS	UNITED STATES OF AMERICA
ARCD	ARCA DARK	UNITED STATES OF AMERICA
AMXO	NYSE AMEX OPTIONS	UNITED STATES OF AMERICA
ALDP	NYSE ALTERNEXT DARK	UNITED STATES OF AMERICA
XOCH	ONECHICAGO, LLC	UNITED STATES OF AMERICA
XOTC	OTCBB	UNITED STATES OF AMERICA
XSEF	SWAPEX, LLC	UNITED STATES OF AMERICA
XTIR	TIRANA STOCK EXCHANGE	ALBANIA
XALG	ALGIERS STOCK EXCHANGE	ALGERIA
XBDV	BOLSA DE DIVIDA E VALORES DE ANGOLA (BODIVA) - ANGOLA SECURITIES EXCHANGE	ANGOLA
BACE	BOLSA DE CEREALES DE BUENOS AIRES	ARGENTINA
BCFS	BOLSA DE COMERCIO DE SANTA FE	ARGENTINA
XMVL	MERCADO DE VALORES DEL LITORAL S.A.	ARGENTINA
ROFX	ROSARIO FUTURE EXCHANGE	ARGENTINA
XBCC	BOLSA DE COMERCIO DE CORDOBA	ARGENTINA
MVCX	MERCADO DE VALORES DE CORDOBA S.A.	ARGENTINA
XBCM	BOLSA DE COMERCIO DE MENDOZA S.A.	ARGENTINA
XBCX	MERCADO DE VALORES DE MENDOZA S.A.	ARGENTINA
XBUE	BOLSA DE COMERCIO DE BUENOS AIRES	ARGENTINA
XMEV	MERCADO DE VALORES DE BUENOS AIRES S.A.	ARGENTINA
XCNF	BOLSA DE COMERCIO CONFEDERADA S.A.	ARGENTINA
XMAB	MERCADO ABIERTO ELECTRONICO S.A.	ARGENTINA
XMTB	MERCADO A TERMINO DE BUENOS AIRES S.A.	ARGENTINA
XROS	BOLSA DE COMERCIO ROSARIO	ARGENTINA
XROX	MERCADO DE VALORES DE ROSARIO S.A.	ARGENTINA
XTUC	NUEVA BOLSA DE COMERCIO DE TUCUMAN S.A.	ARGENTINA
XARM	NASDAQ OMX ARMENIA	ARMENIA
APXL	SYDNEY STOCK EXCHANGE LIMITED	AUSTRALIA
AWBX	AUSTRALIAN WHEAT BOARD	AUSTRALIA
AWEX	AUSTRALIAN WOOL EXCHANGE	AUSTRALIA
BLEV	BLOCK EVENT	AUSTRALIA
CGMA	CITI MATCH AUSTRALIA	AUSTRALIA
CHIA	CHI-X AUSTRALIA	AUSTRALIA

VALUE	CODE DESCRIPTION	COUNTRY
CXAQ	CHI-X AUSTRALIA -QUOTED MANAGED FUNDS	AUSTRALIA
CXAC	CHI-X MARKET AUSTRALIA - LIMIT VENUE	AUSTRALIA
CXAW	CHI-X AUSTRALIA - WARRANTS	AUSTRALIA
CXAV	CHI-X VWAP	AUSTRALIA
CXAM	CHI-X MOC	AUSTRALIA
CXAR	CHI-X AUSTRALIA - TRANSFERABLE CUSTODY RECEIPT MARKET	AUSTRALIA
CXAP	CHI-X AUSTRALIA MID-POINT VENUE	AUSTRALIA
CXAN	CHI-X AUSTRALIA PRIMARY PEG (NEARPOINT) VENUE	AUSTRALIA
CXAF	CHI-X AUSTRALIA MARKET PEG (FARPOINT) VENUE	AUSTRALIA
CLAU	CLSA AUSTRALIA - DARK	AUSTRALIA
CSAU	CREDIT SUISSE EQUITIES (AUSTRALIA) LIMITED	AUSTRALIA
CFAU	CROSSFINDER AUSTRALIA	AUSTRALIA
MAQX	MACQUARIE INTERNAL MARKETS (AUSTRALIA)	AUSTRALIA
MSAL	MORGAN STANLEY AUSTRALIA SECURITIES LIMITED	AUSTRALIA
NSXB	BENDIGO STOCK EXCHANGE LIMITED	AUSTRALIA
SIGA	SIGMA X AUSTRALIA	AUSTRALIA
SIMV	SIM VENTURE SECURITIES EXCHANGE	AUSTRALIA
XASX	ASX - ALL MARKETS	AUSTRALIA
ASXV	ASX - VOLUMEMATCH	AUSTRALIA
XSFE	ASX - TRADE24	AUSTRALIA
ASXT	ASX TRADEMATCH	AUSTRALIA
ASXP	ASX - PUREMATCH	AUSTRALIA
ASXC	ASX - CENTER POINT	AUSTRALIA
ASXB	ASX BOOKBUILD	AUSTRALIA
XFEX	FINANCIAL AND ENERGY EXCHANGE GROUP	AUSTRALIA
XNEC	NATIONAL STOCK EXCHANGE OF AUSTRALIA LIMITED	AUSTRALIA
XYIE	YIELDBROKER PTY LTD	AUSTRALIA
EGSI	ERSTE GROUP BANK AG	AUSTRIA
XWBO	WIENER BOERSE AG	AUSTRIA
EXAA	WIENER BOERSE AG, AUSTRIAN ENERGY EXCHANGE	AUSTRIA
WBDM	WIENER BOERSE AG DRITTER MARKT (THIRD MARKET)	AUSTRIA
XVIE	WIENER BOERSE AG, WERTPAPIERBOERSE (SECURITIES EXCHANGE)	AUSTRIA
WBGF	WIENER BOERSE AG GEREGLTER FREIVERKEHR (SECOND REGULATED MARKET)	AUSTRIA
WBAH	WIENER BOERSE AG AMTLICHER HANDEL (OFFICIAL MARKET)	AUSTRIA
BSEX	BAKU STOCK EXCHANGE	AZERBAIJAN

VALUE	CODE DESCRIPTION	COUNTRY
XIBE	BAKU INTERBANK CURRENCY EXCHANGE	AZERBAIJAN
XBAA	BAHAMAS INTERNATIONAL SECURITIES EXCHANGE	BAHAMAS
BFEX	BAHRAIN FINANCIAL EXCHANGE	BAHRAIN
XBAH	BAHRAIN BOURSE	BAHRAIN
XCHG	CHITTAGONG STOCK EXCHANGE LTD.	BANGLADESH
XDHA	DHAKA STOCK EXCHANGE LTD	BANGLADESH
XBAB	BARBADOS STOCK EXCHANGE	BARBADOS
BAJM	BARBADOS STOCK EXCHANGE - JUNIOR MARKET	BARBADOS
BCSE	BELARUS CURRENCY AND STOCK EXCHANGE	BELARUS
BLPX	BELGIAN POWER EXCHANGE	BELGIUM
BMTS	MTS BELGIUM	BELGIUM
MTSD	MTS DENMARK	BELGIUM
MTSF	MTS FINLAND	BELGIUM
XBRU	EURONEXT - EURONEXT BRUSSELS	BELGIUM
ENXB	EURONEXT - EASY NEXT	BELGIUM
MLXB	EURONEXT - MARCHE LIBRE BRUSSELS	BELGIUM
TNLB	EURONEXT - TRADING FACILITY BRUSSELS	BELGIUM
XBRD	EURONEXT - EURONEXT BRUSSELS - DERIVATIVES	BELGIUM
ALXB	EURONEXT - ALTERNEXT BRUSSELS	BELGIUM
VPXB	EURONEXT - VENTES PUBLIQUES BRUSSELS	BELGIUM
XBDA	BERMUDA STOCK EXCHANGE LTD	BERMUDA
XBOL	BOLSA BOLIVIANA DE VALORES S.A.	BOLIVIA
XBLB	BANJA LUKA STOCK EXCHANGE	BOSNIA AND HERZEGOVINA
BLBF	BANJA LUKA STOCK EXCHANGE - FREE MARKET	BOSNIA AND HERZEGOVINA
XSSE	SARAJEVO STOCK EXCHANGE	BOSNIA AND HERZEGOVINA
XBOT	BOTSWANA STOCK EXCHANGE	BOTSWANA
BOTV	BOTSWANA STOCK EXCHANGE - VENTURE CAPITAL	BOTSWANA
BOTE	BOTSWANA STOCK EXCHANGE - EXCHANGE TRADED FUNDS (ETF)	BOTSWANA
BCMM	BOLSA DE CEREAIS E MERCADORIAS DE MARINGÁ	BRAZIL
BOVM	BOLSA DE VALORES MINAS-ESPÍRITO SANTO-BRASÍLIA	BRAZIL
BRIX	BRAZILIAN ENERGY EXCHANGE	BRAZIL
BVMF	BM&FBOVESPA S.A. - BOLSA DE VALORES, MERCADORIAS E FUTUROS	BRAZIL
CETI	CETIP S.A. - MERCADOS ORGANIZADOS	BRAZIL
SELC	SISTEMA ESPECIAL DE LIQUIDACAO E CUSTODIA DE TITULOS PUBLICOS	BRAZIL

VALUE	CODE DESCRIPTION	COUNTRY
IBEX	INDEPENDENT BULGARIAN ENERGY EXCHANGE	BULGARIA
MBUL	MTF SOFIA	BULGARIA
XBUL	BULGARIAN STOCK EXCHANGE	BULGARIA
ABUL	BULGARIAN STOCK EXCHANGE - ALTERNATIVE MARKET	BULGARIA
XCSX	CAMBODIA SECURITIES EXCHANGE	CAMBODIA
XDSX	DOUALA STOCK EXCHANGE	CAMEROON
CAND	CANDEAL.CA INC	CANADA
CANX	CANNEX FINANCIAL EXCHANGE LTS	CANADA
CHIC	CHI-X CANADA ATS	CANADA
XCX2	CX2	CANADA
COTC	BMO CAPITAL MARKETS - CAD OTC TRADES	CANADA
IFCA	ICE FUTURES CANADA	CANADA
IVZX	INVESCO CANADA PTF TRADES	CANADA
LICA	LIQUIDNET CANADA ATS	CANADA
MATN	MATCH NOW	CANADA
NEOE	AEQUITAS NEO EXCHANGE	CANADA
NGXC	NATURAL GAS EXCHANGE	CANADA
OMGA	OMEGA ATS	CANADA
LYNX	LYNX ATS	CANADA
TMXS	TMX SELECT	CANADA
XATS	ALPHA EXCHANGE	CANADA
XBBK	PERIMETER FINANCIAL CORP. - BLOCKBOOK ATS	CANADA
XCNQ	CANADIAN NATIONAL STOCK EXCHANGE	CANADA
PURE	PURE TRADING	CANADA
XCXD	NASDAQ CXD	CANADA
XICX	INSTINET CANADA CROSS	CANADA
XMOC	MONTREAL CLIMATE EXCHANGE	CANADA
XMOD	THE MONTREAL EXCHANGE / BOURSE DE MONTREAL	CANADA
XTSE	TORONTO STOCK EXCHANGE	CANADA
XTSX	TSX VENTURE EXCHANGE	CANADA
XTNX	TSX VENTURE EXCHANGE - NEX	CANADA
XBVC	CAPE VERDE STOCK EXCHANGE	CAPE VERDE
XCAY	CAYMAN ISLANDS STOCK EXCHANGE	CAYMAN ISLANDS
BOVA	BOLSA DE CORREDORES - BOLSA DE VALORES	CHILE
XBCL	LA BOLSA ELECTRONICA DE CHILE	CHILE
XSGO	SANTIAGO STOCK EXCHANGE	CHILE
CCFX	CHINA FINANCIAL FUTURES EXCHANGE	CHINA
CSSX	CHINA STAINLESS STEEL EXCHANGE	CHINA

VALUE	CODE DESCRIPTION	COUNTRY
SGEX	SHANGHAI GOLD EXCHANGE	CHINA
XCFE	CHINA FOREIGN EXCHANGE TRADE SYSTEM	CHINA
XDCE	DALIAN COMMODITY EXCHANGE	CHINA
XSGE	SHANGHAI FUTURES EXCHANGE	CHINA
XINE	SHANGHAI INTERNATIONAL ENERGY EXCHANGE	CHINA
XSHE	SHENZHEN STOCK EXCHANGE	CHINA
XSEC	SHENZHEN STOCK EXCHANGE - SHENZHEN - HONG KONG STOCK CONNECT	CHINA
XSHG	SHANGHAI STOCK EXCHANGE	CHINA
XSSC	SHANGHAI STOCK EXCHANGE - SHANGHAI - HONG KONG STOCK CONNECT	CHINA
XZCE	ZHENGZHOU COMMODITY EXCHANGE	CHINA
XBOG	BOLSA DE VALORES DE COLOMBIA	COLOMBIA
XBNV	BOLSA NACIONAL DE VALORES, S.A.	COSTA RICA
XCRO	CROATIAN POWER EXCHANGE	CROATIA
XTRZ	ZAGREB MONEY AND SHORT TERM SECURITIES MARKET INC	CROATIA
XZAG	ZAGREB STOCK EXCHANGE	CROATIA
XZAM	THE ZAGREB STOCK EXCHANGE MTF	CROATIA
DCSX	DUTCH CARIBBEAN SECURITIES EXCHANGE	CURACAO
XCYS	CYPRUS STOCK EXCHANGE	CYPRUS
XECM	MTF - CYPRUS EXCHANGE	CYPRUS
XCYO	CYPRUS STOCK EXCHANGE - OTC	CYPRUS
FTFS	42 FINANCIAL SERVICES	CZECH REPUBLIC
XPRA	PRAGUE STOCK EXCHANGE	CZECH REPUBLIC
XPRM	PRAGUE STOCK EXCHANGE - MTF	CZECH REPUBLIC
XPXE	POWER EXCHANGE CENTRAL EUROPE	CZECH REPUBLIC
XRMZ	RM-SYSTEM CZECH STOCK EXCHANGE	CZECH REPUBLIC
XRMO	RM-SYSTEM CZECH STOCK EXCHANGE (MTF)	CZECH REPUBLIC
DASI	DANSKE BANK A/S - SYSTEMATIC INTERNALISER	DENMARK
DKTC	DANSK OTC	DENMARK
GXGR	GXG MARKETS A/S	DENMARK
GXGF	GXG MTF FIRST QUOTE	DENMARK
GXGM	GXG MTF	DENMARK
NPGA	GASPOINT NORDIC A/S	DENMARK
XCSE	NASDAQ COPENHAGEN A/S	DENMARK
DCSE	NASDAQ COPENHAGEN A/S - NORDIC@MID	DENMARK
MNDK	FIRST NORTH DENMARK – AUCTION ON DEMAND	DENMARK
DNDK	FIRST NORTH DENMARK - NORDIC@MID	DENMARK

VALUE	CODE DESCRIPTION	COUNTRY
FNDK	FIRST NORTH DENMARK	DENMARK
MCSE	NASDAQ COPENHAGEN A/S – AUCTION ON DEMAND	DENMARK
XBVR	BOLSA DE VALORES DE LA REPUBLICA DOMINICANA SA.	DOMINICAN REPUBLIC
XGUA	BOLSA DE VALORES DE GUAYAQUIL	ECUADOR
XQUI	BOLSA DE VALORES DE QUITO	ECUADOR
NILX	NILE STOCK EXCHANGE	EGYPT
XCAI	EGYPTIAN EXCHANGE	EGYPT
XSVA	EL SALVADOR STOCK EXCHANGE	EL SALVADOR
XTAL	NASDAQ TALLINN AS	ESTONIA
FNEE	FIRST NORTH ESTONIA	ESTONIA
VMFX	THE FAROESE SECURITIES MARKET	FAROE ISLANDS
XSPS	SOUTH PACIFIC STOCK EXCHANGE	FIJI
FGEX	KAASUPORSSI - FINNISH GAS EXCHANGE	FINLAND
XHEL	NASDAQ HELSINKI LTD	FINLAND
FNFI	FIRST NORTH FINLAND	FINLAND
MNFI	FIRST NORTH FINLAND – AUCTION ON DEMAND	FINLAND
MHEL	NASDAQ HELSINKI LTD – AUCTION ON DEMAND	FINLAND
DHEL	NASDAQ HELSINKI LTD - NORDIC@MID	FINLAND
DNFI	FIRST NORTH FINLAND - NORDIC@MID	FINLAND
COAL	LA COTE ALPHA	FRANCE
EPEX	EPEX SPOT SE	FRANCE
FMTS	MTS FRANCE SAS	FRANCE
GMTF	GALAXY	FRANCE
LCHC	LCH.CLEARNET	FRANCE
XAFR	ALTERNATIVA FRANCE	FRANCE
XBLN	BLUENEXT	FRANCE
XPAR	EURONEXT - EURONEXT PARIS	FRANCE
ALXP	EURONEXT - ALTERNEXT PARIS	FRANCE
XSPM	EURONEXT STRUCTURED PRODUCTS MTF	FRANCE
MTCH	BONDMATCH	FRANCE
XMAT	EURONEXT PARIS MATIF	FRANCE
XMON	EURONEXT PARIS MONEP	FRANCE
XMLI	EURONEXT - MARCHE LIBRE PARIS	FRANCE
XPOW	POWERNEXT	FRANCE
XPSF	POWERNEXT - GAS SPOT AND FUTURES	FRANCE
XPOT	POWERNEXT - OTF	FRANCE
XGSE	GEORGIA STOCK EXCHANGE	GEORGIA
360T	360T	GERMANY

VALUE	CODE DESCRIPTION	COUNTRY
CATS	CATS	GERMANY
DBOX	DEUTSCHE BANK OFF EXCHANGE TRADING	GERMANY
AUTO	AUTOBAHN FX	GERMANY
ECAG	EUREX CLEARING AG	GERMANY
FICX	FINANCIAL INFORMATION CONTRIBUTORS EXCHANGE	GERMANY
TGAT	TRADEGATE EXCHANGE	GERMANY
XGRM	TRADEGATE EXCHANGE - REGULIERTER MARKT	GERMANY
XGAT	TRADEGATE EXCHANGE - FREIVERKEHR	GERMANY
XBER	BOERSE BERLIN	GERMANY
ZOBX	ZOBEX	GERMANY
BERC	BOERSE BERLIN - BERLIN SECOND REGULATED MARKET	GERMANY
XEQT	BOERSE BERLIN EQUIDUCT TRADING	GERMANY
BERB	BOERSE BERLIN - FREIVERKEHR	GERMANY
EQTA	BOERSE BERLIN EQUIDUCT TRADING - REGULIERTER MARKT	GERMANY
EQTD	BOERSE BERLIN EQUIDUCT TRADING - OTC	GERMANY
EQTB	BOERSE BERLIN EQUIDUCT TRADING - BERLIN SECOND REGULATED MARKET	GERMANY
EQTC	BOERSE BERLIN EQUIDUCT TRADING - FREIVERKEHR	GERMANY
BERA	BOERSE BERLIN - REGULIERTER MARKT	GERMANY
XDUS	BOERSE DUESSELDORF	GERMANY
DUSD	BOERSE DUESSELDORF - QUOTRIX MTF	GERMANY
DUSC	BOERSE DUESSELDORF - QUOTRIX - REGULIERTER MARKT	GERMANY
DUSB	BOERSE DUESSELDORF - FREIVERKEHR	GERMANY
DUSA	BOERSE DUESSELDORF - REGULIERTER MARKT	GERMANY
XQTX	BOERSE DUESSELDORF - QUOTRIX	GERMANY
XECB	ECB EXCHANGE RATES	GERMANY
XECC	EUROPEAN COMMODITY CLEARING AG	GERMANY
XEEE	EUROPEAN ENERGY EXCHANGE	GERMANY
XEEO	EUROPEAN ENERGY EXCHANGE - NON-MTF MARKET	GERMANY
XEER	EUROPEAN ENERGY EXCHANGE - REGULATED MARKET	GERMANY
XETR	XETRA	GERMANY
XEUB	EUREX BONDS	GERMANY
XETA	XETRA - REGULIERTER MARKT	GERMANY
XETB	XETRA - FREIVERKEHR	GERMANY
XEUP	EUREX REPO GMBH	GERMANY
XERE	EUREX REPO - FUNDING AND FINANCING PRODUCTS	GERMANY

VALUE	CODE DESCRIPTION	COUNTRY
XEUM	EUREX REPO SECLEND MARKET	GERMANY
XERT	EUREX REPO - TRIPARTY	GERMANY
XEUR	EUREX DEUTSCHLAND	GERMANY
XFRA	DEUTSCHE BOERSE AG	GERMANY
XDBC	DEUTSCHE BOERSE AG - CUSTOMIZED INDICES	GERMANY
FRAA	BOERSE FRANKFURT - REGULIERTER MARKT	GERMANY
XDBX	DEUTSCHE BOERSE AG - INDICES	GERMANY
XDBV	DEUTSCHE BOERSE AG - VOLATILITY INDICES	GERMANY
FRAB	BOERSE FRANKFURT - FREIVERKEHR	GERMANY
XHAM	HANSEATISCHE WERTPAPIERBOERSE HAMBURG	GERMANY
HAMM	BOERSE HAMBURG - LANG AND SCHWARZ EXCHANGE - REGULIERTER MARKT	GERMANY
HAML	BOERSE HAMBURG - LANG AND SCHWARZ EXCHANGE	GERMANY
HAMN	BOERSE HAMBURG - LANG AND SCHWARZ EXCHANGE - FREIVERKEHR	GERMANY
HAMA	BOERSE HAMBURG - REGULIERTER MARKT	GERMANY
HAMB	BOERSE HAMBURG - FREIVERKEHR	GERMANY
XHAN	NIEDERSAECHSISCHE BOERSE ZU HANNOVER	GERMANY
HANB	BOERSE HANNOVER - FREIVERKEHR	GERMANY
HANA	BOERSE HANNOVER - REGULIERTER MARKT	GERMANY
XINV	INVESTRO	GERMANY
XMUN	BOERSE MUENCHEN	GERMANY
MUNC	BOERSE MUENCHEN - MARKET MAKER MUNICH - REGULIERTER MARKT	GERMANY
MUND	BOERSE MUENCHEN - MARKET MAKER MUNICH - FREIVERKEHR MARKT	GERMANY
MUNA	BOERSE MUENCHEN - REGULIERTER MARKT	GERMANY
MUNB	BOERSE MUENCHEN - FREIVERKEHR	GERMANY
XSCO	BOERSE FRANKFURT WARRANTS TECHNICAL	GERMANY
XSC1	BOERSE FRANKFURT WARRANTS TECHNICAL 1	GERMANY
XSC2	BOERSE FRANKFURT WARRANTS TECHNICAL 2	GERMANY
XSC3	BOERSE FRANKFURT WARRANTS TECHNICAL 3	GERMANY
XSTU	BOERSE STUTT GART	GERMANY
STUD	BOERSE STUTT GART - FREIVERKEHR - TECHNICAL PLATFORM 2	GERMANY
STUC	BOERSE STUTT GART - REGULIERTER MARKT - TECHNICAL PLATFORM 2	GERMANY
XSTF	BOERSE STUTT GART - TECHNICAL PLATFORM 2	GERMANY
EUWX	EUWAX	GERMANY
STUA	BOERSE STUTT GART - REGULIERTER MARKT	GERMANY

VALUE	CODE DESCRIPTION	COUNTRY
STUB	BOERSE STUTTGART - FREIVERKEHR	GERMANY
XXSC	FRANKFURT CEF SC	GERMANY
XGHA	GHANA STOCK EXCHANGE	GHANA
GSXL	THE GIBRALTAR STOCK EXCHANGE	GIBRALTAR
ASEX	ATHENS STOCK EXCHANGE	GREECE
ENAX	ATHENS EXCHANGE ALTERNATIVE MARKET	GREECE
XADE	ATHENS EXCHANGE S.A. DERIVATIVES MARKET	GREECE
HOTC	HELLENIC EXCHANGE OTC MARKET	GREECE
XATH	ATHENS EXCHANGE S.A. CASH MARKET	GREECE
XIPO	HELEX ELECTRONIC BOOK BUILDING	GREECE
HDAT	ELECTRONIC SECONDARY SECURITIES MARKET (HDAT)	GREECE
HEMO	LAGIE - OPERATOR OF THE ENERGY MARKET S.A.	GREECE
XGTG	BOLSA DE VALORES NACIONAL SA	GUATEMALA
XCIE	CHANNEL ISLANDS STOCK EXCHANGE	GUERNSEY, C.I.
GSCI	THE GUYANA ASSOCIATION OF SECURITIES COMPANIES AND INTERMEDIARIES INC.	GUYANA
XBCV	BOLSA CENTROAMERICANA DE VALORES S.A.	HONDURAS
CGMH	CITI MATCH	HONG KONG
CLHK	CLSA HONG KONG - DARK	HONG KONG
CSHK	CREDIT SUISSE SECURITIES (HONG KONG) LIMITED	HONG KONG
CFHK	CROSSFINDER HONG KONG	HONG KONG
DBHK	DEUTSCHE BANK HONG KONG ATS	HONG KONG
EOTC	E-OTC	HONG KONG
GSXH	GSX HONG KONG	HONG KONG
HSXA	HSBC-X HONG KONG	HONG KONG
JPMI	JP MORGAN - JPMI MARKET	HONG KONG
MAQH	MACQUARIE INTERNAL MARKETS (HONG KONG)	HONG KONG
SIGH	SIGMA X HONG KONG	HONG KONG
TOCP	TORA CROSSPOINT	HONG KONG
UBSX	UBS CROSS	HONG KONG
XCGS	CHINESE GOLD & SILVER EXCHANGE SOCIETY	HONG KONG
XHKF	HONG KONG FUTURES EXCHANGE LTD.	HONG KONG
XHKG	HONG KONG EXCHANGES AND CLEARING LTD	HONG KONG
SZSC	STOCK EXCHANGE OF HONG KONG LIMITED - SHENZHEN - HONG KONG STOCK CONNECT	HONG KONG
SHSC	STOCK EXCHANGE OF HONG KONG LIMITED - SHANGHAI - HONG KONG STOCK CONNECT	HONG KONG
XGEM	HONG KONG GROWTH ENTERPRISES MARKET	HONG KONG

VALUE	CODE DESCRIPTION	COUNTRY
XIHK	INSTINET PACIFIC LTD	HONG KONG
XPST	POSIT - ASIA PACIFIC	HONG KONG
BETA	BETA MARKET	HUNGARY
HUPX	HUNGARIAN POWER EXCHANGE	HUNGARY
KCCP	KELER CCP	HUNGARY
XBUD	BUDAPEST STOCK EXCHANGE	HUNGARY
XGAS	CENTRAL EASTERN EUROPEAN GAS EXCHANGE LTD	HUNGARY
XICE	NASDAQ ICELAND HF.	ICELAND
DICE	NASDAQ ICELAND HF. - NORDIC@MID	ICELAND
MICE	NASDAQ ICELAND HF. – AUCTION ON DEMAND	ICELAND
DNIS	FIRST NORTH ICELAND - NORDIC@MID	ICELAND
FNIS	FIRST NORTH ICELAND	ICELAND
MNIS	FIRST NORTH ICELAND – AUCTION ON DEMAND	ICELAND
ACEX	ACE DERIVATIVES & COMMODITY EXCHANGE LTD	INDIA
CDSL	CLEARCORP DEALING SYSTEMS (INDIA) LTD.	INDIA
ASTR	CLEARCORP DEALING SYSTEMS INDIA LIMITED – ASTROID	INDIA
FXSW	CLEARCORP DEALING SYSTEMS INDIA LIMITED – FX-SWAP	INDIA
FXCL	CLEARCORP DEALING SYSTEMS INDIA LIMITED – FX-CLEAR	INDIA
ICXL	INDIAN COMMODITY EXCHANGE LTD.	INDIA
ISEX	INTER-CONNECTED STOCK EXCHANGE OF INDIA LTD	INDIA
MCXX	MCX STOCK EXCHANGE LTD	INDIA
NBOT	NATIONAL BOARD OF TRADE LIMITED	INDIA
NMCE	NATIONAL MULTI-COMMODITY EXCHANGE OF INDIA	INDIA
OTCX	OTC EXCHANGE OF INDIA	INDIA
PXIL	POWER EXCHANGE INDIA LTD.	INDIA
XBAN	BANGALORE STOCK EXCHANGE LTD	INDIA
XBOM	BSE LTD	INDIA
BSME	BSE SME	INDIA
XCAL	CALCUTTA STOCK EXCHANGE	INDIA
XDES	DELHI STOCK EXCHANGE	INDIA
XIMC	MULTI COMMODITY EXCHANGE OF INDIA LTD.	INDIA
XMDS	MADRAS STOCK EXCHANGE	INDIA
XNCD	NATIONAL COMMODITY & DERIVATIVES EXCHANGE LTD	INDIA
XNSE	NATIONAL STOCK EXCHANGE OF INDIA	INDIA
XUSE	UNITED STOCK EXCHANGE	INDIA

VALUE	CODE DESCRIPTION	COUNTRY
ICDX	INDONESIA COMMODITY AND DERIVATIVES EXCHANGE	INDONESIA
XBBJ	JAKARTA FUTURES EXCHANGE (BURSA BERJANGKA JAKARTA)	INDONESIA
XIDX	INDONESIA STOCK EXCHANGE	INDONESIA
XJNB	JAKARTA NEGOTIATED BOARD	INDONESIA
IMEX	IRAN MERCANTILE EXCHANGE	IRAN
XTEH	TEHRAN STOCK EXCHANGE	IRAN
XIQS	IRAQ STOCK EXCHANGE	IRAQ
AREX	AREX - AUTOMATED RECEIVABLES EXCHANGE	IRELAND
XPOS	POSIT	IRELAND
XCDE	BAXTER FINANCIAL SERVICES	IRELAND
XDUB	IRISH STOCK EXCHANGE - ALL MARKET	IRELAND
XEYE	IRISH STOCK EXCHANGE - GEM - XETRA	IRELAND
XMSM	DUBLIN - IRISH STOCK EXCHANGE - MAIN SECURITIES MARKET (MSM)- ISE XETRA	IRELAND
XESM	DUBLIN - IRISH STOCK EXCHANGE - ENTREPRISE SECURITIES MARKET (ESM)- ISE XETRA	IRELAND
XATL	ATLANTIC SECURITIES MARKET	IRELAND
XEBI	ENERGY BROKING IRELAND GAS TRADING PLATFORM	IRELAND
XTAE	TEL AVIV STOCK EXCHANGE	ISRAEL
CGIT	CASSA DI COMPENSAZIONE E GARANZIA SPA	ITALY
CGQT	CASSA DI COMPENSAZIONE E GARANZIA SPA - EQUITY CCP SERVICE	ITALY
CGDB	CASSA DI COMPENSAZIONE E GARANZIA SPA - BONDS CCP SERVICE	ITALY
CGEB	CASSA DI COMPENSAZIONE E GARANZIA SPA - EURO BONDS CCP SERVICE	ITALY
CGTR	CASSA DI COMPENSAZIONE E GARANZIA SPA - TRIPARTY REPO CCP SERVICE	ITALY
CGQD	CASSA DI COMPENSAZIONE E GARANZIA SPA - CCP EQUITY DERIVATIVES	ITALY
CGCM	CASSA DI COMPENSAZIONE E GARANZIA SPA - COLLATERALIZED MONEY MARKET GUARANTEE SERVICE	ITALY
CGGD	CASSA DI COMPENSAZIONE E GARANZIA SPA - CCP AGRICULTURAL COMMODITY DERIVATIVES	ITALY
CGND	CASSA DI COMPENSAZIONE E GARANZIA SPA - CCP ENERGY DERIVATIVES	ITALY
EMID	E-MID	ITALY
EMIR	E-MID REPO	ITALY
EMIB	E-MID - BANCA D'ITALIA SHARES TRADING MARKET	ITALY
EMDR	E-MID - E-MIDER MARKET	ITALY

VALUE	CODE DESCRIPTION	COUNTRY
ETLX	EUROTLX	ITALY
HMTF	HI-MTF	ITALY
HRFQ	HI-MTF RFQ	ITALY
HMOD	HI-MTF ORDER DRIVEN	ITALY
MTSO	MTS S.P.A.	ITALY
MTSM	MTS CORPORATE MARKET	ITALY
SSOB	BONDVISION ITALIA MTF	ITALY
BOND	BONDVISION ITALIA	ITALY
MTSC	MTS ITALIA	ITALY
XGME	GESTORE MERCATO ELETTRICO - ITALIAN POWER EXCHANGE	ITALY
XMIL	BORSA ITALIANA S.P.A.	ITALY
XMOT	EXTRAMOT	ITALY
MTAH	BORSA ITALIANA EQUITY MTF	ITALY
XDMI	ITALIAN DERIVATIVES MARKET	ITALY
XAIM	AIM ITALIA - MERCATO ALTERNATIVO DEL CAPITALE	ITALY
SEDX	SECURITISED DERIVATIVES MARKET	ITALY
MTAA	ELECTRONIC SHARE MARKET	ITALY
MOTX	ELECTRONIC BOND MARKET	ITALY
MIVX	MARKET FOR INVESTMENT VEHICLES	ITALY
ETFP	ELECTRONIC OPEN-END FUNDS AND ETC MARKET	ITALY
XBRV	BOURSE REGIONALE DES VALEURS MOBILIERES	IVORY COAST
XJAM	JAMAICA STOCK EXCHANGE	JAMAICA
BETP	BLOOMBERG TRADEBOOK JAPAN LIMITED	JAPAN
CHIJ	CHI-X JAPAN	JAPAN
CHIS	CHI-X JAPAN SELECT	JAPAN
KAIX	KAI-X	JAPAN
CHIV	CHI-X JAPAN VWAP CROSSING	JAPAN
CITX	CITI MATCH	JAPAN
CITD	CITI DARK	JAPAN
CLJP	CLSA JAPAN - DARK	JAPAN
CMET	CLEAR MARKETS JAPAN, INC.	JAPAN
CSJP	CREDIT SUISSE EQUITIES (JAPAN) LIMITED	JAPAN
CFJP	CROSSFINDER JAPAN	JAPAN
DRCT	DAIWA DRECT	JAPAN
LXJP	BARCLAYS LX JAPAN	JAPAN
MAQJ	MACQUARIE INTERNAL MARKETS (JAPAN)	JAPAN
MIZX	MIZUHO INTERNAL CROSSING	JAPAN
MSMS	MORGAN STANLEY MUFG SECURITIES CO., LTD	JAPAN

VALUE	CODE DESCRIPTION	COUNTRY
NMRJ	NOMURA SECURITIES CO LTD	JAPAN
NXJP	NX JAPAN	JAPAN
NXVW	NX VWAP	JAPAN
NXSE	NX SELECT JAPAN	JAPAN
SBIJ	SBI JAPANNEXT-J-MARKET	JAPAN
SBIU	SBI JAPANNEXT - U - MARKET	JAPAN
XSBI	SBI JAPANNEXT - X - MARKET	JAPAN
SBIV	SBI JAPANNEXT - VWAP CROSSING	JAPAN
SIGJ	SIGMA X JAPAN	JAPAN
XFKA	FUKUOKA STOCK EXCHANGE	JAPAN
XIJP	INSTINET JAPAN	JAPAN
JASR	JAPANCROSSING	JAPAN
XJPX	JAPAN EXCHANGE GROUP	JAPAN
XTK2	TOKYO STOCK EXCHANGE - TOSTNET-2	JAPAN
XTAM	TOKYO STOCK EXCHANGE-TOKYO PRO MARKET	JAPAN
XTK1	TOKYO STOCK EXCHANGE - TOSTNET-1	JAPAN
XTK3	TOKYO STOCK EXCHANGE - TOSTNET-3	JAPAN
XTKS	TOKYO STOCK EXCHANGE	JAPAN
XJAS	TOKYO STOCK EXCHANGE JASDAQ	JAPAN
XOSE	OSAKA EXCHANGE	JAPAN
XOSJ	OSAKA EXCHANGE J-NET	JAPAN
XKAC	OSAKA DOJIMA COMMODITY EXCHANGE	JAPAN
XNGO	NAGOYA STOCK EXCHANGE	JAPAN
XNKS	CENTRAL JAPAN COMMODITIES EXCHANGE	JAPAN
XSAP	SAPPORO SECURITIES EXCHANGE	JAPAN
XTFF	TOKYO FINANCIAL EXCHANGE	JAPAN
XTKT	TOKYO COMMODITY EXCHANGE	JAPAN
XAMM	AMMAN STOCK EXCHANGE	JORDAN
ETSC	ETS EURASIAN TRADING SYSTEM COMMODITY EXCHANGE	KAZAKHSTAN
XKAZ	KAZAKHSTAN STOCK EXCHANGE	KAZAKHSTAN
XNAI	NAIROBI STOCK EXCHANGE	KENYA
XKFB	KOREA FREEBOARD MARKET	KOREA, REPUBLIC OF
XKRX	KOREA EXCHANGE (STOCK MARKET)	KOREA, REPUBLIC OF
XKON	KOREA NEW EXCHANGE	KOREA, REPUBLIC OF
XKFE	KOREA EXCHANGE (FUTURES MARKET)	KOREA, REPUBLIC OF

VALUE	CODE DESCRIPTION	COUNTRY
XKCM	KOREA EXCHANGE COMMODITY MARKET	KOREA, REPUBLIC OF
XKEM	KOREA EXCHANGE EMISSIONS MARKET	KOREA, REPUBLIC OF
XKOS	KOREA EXCHANGE (KOSDAQ)	KOREA, REPUBLIC OF
XKUW	KUWAIT STOCK EXCHANGE	KUWAIT
XKSE	KYRGYZ STOCK EXCHANGE	KYRGYZSTAN
XLAO	LAO SECURITIES EXCHANGE	LAOS
XRIS	NASDAQ RIGA AS	LATVIA
FNLV	FIRST NORTH LATVIA	LATVIA
XBey	BOURSE DE BEYROUTH - BEIRUT STOCK EXCHANGE	LEBANON
XLSM	LIBYAN STOCK MARKET	LIBYAN ARAB JAMAHIRIYA
XLGT	LGT BANK AG - SYSTEMATIC INTERNALISER	LIECHTENSTEIN
BAPX	BALTPOL	LITHUANIA
GETB	LITHUANIAN NATURAL GAS EXCHANGE	LITHUANIA
XLIT	AB NASDAQ VILNIUS	LITHUANIA
FNLT	FIRST NORTH LITHUANIA	LITHUANIA
CCLX	FINESTI S.A.	LUXEMBOURG
XLUX	LUXEMBOURG STOCK EXCHANGE	LUXEMBOURG
EMTF	EURO MTF	LUXEMBOURG
XVES	VESTIMA	LUXEMBOURG
XMAE	MACEDONIAN STOCK EXCHANGE	MACEDONIA
XMDG	MARCHE INTERBANCAIRE DES DEVISES M.I.D.	MADAGASCAR
XMSW	MALAWI STOCK EXCHANGE	MALAWI
XKLS	BURSA MALAYSIA	MALAYSIA
MESQ	ACE MARKET	MALAYSIA
XLFX	LABUAN INTERNATIONAL FINANCIAL EXCHANGE	MALAYSIA
XRBM	RINGGIT BOND MARKET	MALAYSIA
MALX	MALDIVES STOCK EXCHANGE	MALDIVES
EWSM	EUROPEAN WHOLESALE SECURITIES MARKET	MALTA
XMAL	MALTA STOCK EXCHANGE	MALTA
PROS	PROSPECTS	MALTA
GBOT	BOURSE AFRICA LIMITED	MAURITIUS
XAFX	AFRICAN STOCK EXCHANGE	MAURITIUS
XMAU	STOCK EXCHANGE OF MAURITIUS LTD	MAURITIUS
CGMX	CITI MEXICO RPI (RETAIL PRICE IMPROVEMENT)	MEXICO
XEMD	MERCADO MEXICANO DE DERIVADOS	MEXICO

VALUE	CODE DESCRIPTION	COUNTRY
XMEX	BOLSA MEXICANA DE VALORES (MEXICAN STOCK EXCHANGE)	MEXICO
XMOL	MOLDOVA STOCK EXCHANGE	MOLDOVA, REPUBLIC OF
XULA	MONGOLIAN STOCK EXCHANGE	MONGOLIA
XMNX	MONTENEGRO STOCK EXCHANGE	MONTENEGRO, REPUBLIC OF
XCAS	CASABLANCA STOCK EXCHANGE	MOROCCO
XBVM	MOZAMBIQUE STOCK EXCHANGE	MOZAMBIQUE
XNAM	NAMIBIAN STOCK EXCHANGE	NAMIBIA
XNEP	NEPAL STOCK EXCHANGE	NEPAL
NZFX	NEW ZEALAND FUTURES & OPTIONS	NEW ZEALAND
XNZE	NEW ZEALAND EXCHANGE LTD	NEW ZEALAND
XMAN	BOLSA DE VALORES DE NICARAGUA	NICARAGUA
NASX	NASD OTC MARKET	NIGERIA
XNSA	THE NIGERIAN STOCK EXCHANGE	NIGERIA
FISH	FISH POOL ASA	NORWAY
FSHX	FISHEX	NORWAY
ICAS	ICAP ENERGY AS	NORWAY
NEXO	NOREXECO ASA	NORWAY
NOPS	NORD POOL SPOT AS	NORWAY
NORX	NASDAQ OMX COMMODITIES	NORWAY
STEE	NASDAQ COMMODITIES - STEEL COMMODITY	NORWAY
BULK	NASDAQ COMMODITIES - BULK COMMODITY	NORWAY
ELUK	NASDAQ COMMODITIES - GBP POWER/ENERGY	NORWAY
ELNO	NASDAQ COMMODITIES - NOK POWER/ENERGY	NORWAY
ELSE	NASDAQ COMMODITIES - SEK POWER/ENERGY	NORWAY
FREI	NASDAQ COMMODITIES - FREIGHT COMMODITY	NORWAY
ELEU	NASDAQ COMMODITIES - EUR POWER/ENERGY	NORWAY
NOSC	NOS CLEARING ASA	NORWAY
NOTC	NORWEGIAN OVER THE COUNTER MARKET	NORWAY
OSLC	SIX X-CLEAR AG	NORWAY
XIMA	INTERNATIONAL MARTIME EXCHANGE	NORWAY
XOSL	OSLO BORS ASA	NORWAY
XOAS	OSLO AXESS	NORWAY
XOAM	NORDIC ALTERNATIVE BOND MARKET	NORWAY
XOSD	OSLO BORS NORTH SEA - DARK POOL	NORWAY
MERK	MERKUR MARKET	NORWAY
XOSC	OSLO CONNECT	NORWAY

VALUE	CODE DESCRIPTION	COUNTRY
XOAD	OSLO AXESS NORTH SEA - DARK POOL	NORWAY
NIBR	NORWEGIAN INTER BANK OFFERED RATE	NORWAY
MERD	MERKUR MARKET - DARK POOL	NORWAY
XMUS	MUSCAT SECURITIES MARKET	OMAN
NCEL	PAKISTAN MERCANTILE EXCHANGE	PAKISTAN
XKAR	THE PAKISTAN STOCK EXCHANGE LIMITED	PAKISTAN
XPAE	PALESTINE SECURITIES EXCHANGE	PALESTINIAN TERRITORY, OCCUPIED
XPTY	BOLSA DE VALORES DE PANAMA, S.A.	PANAMA
XPOM	PORT MORESBY STOCK EXCHANGE	PAPUA NEW GUINEA
XVPA	BOLSA DE VALORES Y PRODUCTOS DE ASUNCION SA	PARAGUAY
XLIM	BOLSA DE VALORES DE LIMA	PERU
CLPH	CLSA PHILIPPINES - DARK	PHILIPPINES
PDEX	PHILIPPINE DEALING AND EXCHANGE CORP	PHILIPPINES
XPHS	PHILIPPINE STOCK EXCHANGE, INC.	PHILIPPINES
IENG	INFOENGINE OTC	POLAND
KDPW	KDPW_CCP	POLAND
PTPG	POLISH TRADING POINT	POLAND
XWAR	WARSAW STOCK EXCHANGE/EQUITIES/MAIN MARKET	POLAND
TBSP	WARSAW STOCK EXCHANGE/BONDS/BONDSPOT/TREASURY BOND MARKET	POLAND
PLPD	WARSAW STOCK EXCHANGE/COMMODITIES/POLISH POWER EXCHANGE/COMMODITY DERIVATIVES	POLAND
WGAS	WARSAW STOCK EXCHANGE/COMMODITIES/POLISH POWER EXCHANGE/GAS	POLAND
WIND	WARSAW STOCK EXCHANGE/INDICES	POLAND
RPWC	WARSAW STOCK EXCHANGE/BONDS/CATALYST/BONDSPOT/REGULATED MARKET	POLAND
WETP	WARSAW STOCK EXCHANGE/ ETPS	POLAND
WDER	WARSAW STOCK EXCHANGE/FINANCIAL DERIVATIVES	POLAND
WMTF	WARSAW STOCK EXCHANGE/BONDS/CATALYST/MTF	POLAND
XNCO	WARSAW STOCK EXCHANGE/ EQUITIES/NEW CONNECT-MTF	POLAND
PLPX	WARSAW STOCK EXCHANGE/COMMODITIES/POLISH POWER EXCHANGE/ENERGY MARKET	POLAND
WBCL	WARSAW STOCK EXCHANGE/BONDS/CATALYST/LISTING	POLAND
BOSP	WARSAW STOCK	POLAND

VALUE	CODE DESCRIPTION	COUNTRY
	EXCHANGE/BONDS/CATALYST/BONDSPOT/MTF	
WBON	WARSAW STOCK EXCHANGE/ BONDS/CATALYST/MAIN MARKET	POLAND
OMIC	THE IBERIAN ENERGY CLEARING HOUSE	PORTUGAL
OPEX	PEX-PRIVATE EXCHANGE	PORTUGAL
XLIS	EURONEXT - EURONEXT LISBON	PORTUGAL
ALXL	EURONEXT - ALTERNEXT LISBON	PORTUGAL
ENXL	EURONEXT - EASYNEXT LISBON	PORTUGAL
MFOX	EURONEXT - MERCADO DE FUTUROS E OPÇÕES	PORTUGAL
WQXL	EURONEXT - MARKET WITHOUT QUOTATIONS LISBON	PORTUGAL
OMIP	OPERADOR DE MERCADO IBERICO DE ENERGIA - PORTUGAL	PORTUGAL
DSMD	QATAR EXCHANGE	QATAR
TRPX	TROP-X	REPUBLIC OF SEYCHELLES
BMFX	SIBIU MONETARY- FINANCIAL AND COMMODITIES EXCHANGE	ROMANIA
SBMF	SPOT REGULATED MARKET - BMFMS	ROMANIA
BMFM	DERIVATIVES REGULATED MARKET - BMFMS	ROMANIA
BMFA	BMFMS-ATS	ROMANIA
XBRM	ROMANIAN COMMODITIES EXCHANGE	ROMANIA
XBSE	SPOT REGULATED MARKET - BVB	ROMANIA
XBSD	DERIVATIVES REGULATED MARKET - BVB	ROMANIA
XRAS	RASDAQ	ROMANIA
XCAN	CAN-ATS	ROMANIA
XRPM	ROMANIAN POWER MARKET	ROMANIA
MISX	MOSCOW EXCHANGE	RUSSIA
RTSX	MOSCOW EXCHANGE-DERIVATIVES AND CLASSICA MARKET	RUSSIA
NAMX	NATIONAL MERCANTILE EXCHANGE	RUSSIA
RPDX	MOSCOW ENERGY EXCHANGE	RUSSIA
RUSX	NON-PROFIT PARTNERSHIP FOR THE DEVELOPMENT OF FINANCIAL MARKET RTS	RUSSIA
SPIM	ST. PETERSBURG INTERNATIONAL MERCANTILE EXCHANGE	RUSSIA
XMOS	MOSCOW STOCK EXCHANGE	RUSSIA
XPET	SAINT PETERSBURG EXCHANGE	RUSSIA
XPIC	SAINT-PETERSBURG CURRENCY EXCHANGE	RUSSIA
XRUS	INTERNET DIRECT-ACCESS EXCHANGE	RUSSIA
XSAM	SAMARA CURRENCY INTERBANK EXCHANGE	RUSSIA

VALUE	CODE DESCRIPTION	COUNTRY
XSIB	SIBERIAN EXCHANGE	RUSSIA
ROTC	RWANDA OTC MARKET	RWANDA
RSEX	RWANDA STOCK EXCHANGE	RWANDA
XECS	EASTERN CARIBBEAN SECURITIES EXCHANGE	SAINT KITTS AND NEVIS
XSAU	SAUDI STOCK EXCHANGE	SAUDI ARABIA
XBEL	BELGRADE STOCK EXCHANGE	SERBIA (REPUBLIC OF)
CLTD	CLEARTRADE EXCHANGE	SINGAPORE
ECAL	EUREX CLEARING ASIA PTE. LTD.	SINGAPORE
EEAL	EUREX EXCHANGE ASIA PTE. LTD.	SINGAPORE
IFSG	ICE FUTURES SINGAPORE	SINGAPORE
JADX	JOINT ASIAN DERIVATIVES EXCHANGE	SINGAPORE
SMEX	SINGAPORE MERCANTILE EXCHANGE PTE LTD	SINGAPORE
TFSA	TFS GREEN AUSTRALIAN GREEN MARKETS	SINGAPORE
XSES	SINGAPORE EXCHANGE	SINGAPORE
XSCE	SINGAPORE COMMODITY EXCHANGE	SINGAPORE
XSIM	SINGAPORE EXCHANGE DERIVATIVES CLEARING LIMITED	SINGAPORE
XSCA	SINGAPORE CATALIST MARKET	SINGAPORE
SPXE	SPX	SLOVAKIA
XBRA	BRATISLAVA STOCK EXCHANGE	SLOVAKIA
EBRA	BRATISLAVA STOCK EXCHANGE-MTF	SLOVAKIA
XLJU	LJUBLJANA STOCK EXCHANGE (OFFICIAL MARKET)	SLOVENIA
XLJM	SI ENTER	SLOVENIA
XSOP	BSP REGIONAL ENERGY EXCHANGE - SOUTH POOL	SLOVENIA
XJSE	JOHANNESBURG STOCK EXCHANGE	SOUTH AFRICA
YLDX	JSE INTEREST RATE DERIVATIVES MARKET	SOUTH AFRICA
ALTX	JSE ALTERNATE EXCHANGE	SOUTH AFRICA
XBES	JSE CASH BOND MARKET	SOUTH AFRICA
XSFA	JSE COMMODITY DERIVATIVES MARKET	SOUTH AFRICA
XSAF	JSE EQUITY DERIVATIVES MARKET	SOUTH AFRICA
BMEX	BME - BOLSAS Y MERCADOS ESPANOL	SPAIN
XVAL	BOLSA DE VALENCIA	SPAIN
XMRV	MEFF FINANCIAL DERIVATIVES	SPAIN
XMCE	MERCADO CONTINUO ESPANOL - CONTINUOUS MARKET	SPAIN
XMAD	BOLSA DE MADRID	SPAIN
XLAT	LATIBEX	SPAIN

VALUE	CODE DESCRIPTION	COUNTRY
MARF	MERCADO ALTERNATIVO DE RENTA FIJA	SPAIN
XDRF	AIAF - MERCADO DE RENTA FIJA	SPAIN
XBIL	BOLSA DE VALORES DE BILBAO	SPAIN
XBAR	BOLSA DE BARCELONA	SPAIN
BMCL	BME CLEARING S.A.	SPAIN
MABX	MERCADO ALTERNATIVO BURSATIL	SPAIN
MERF	MERCADO ELECTRONICO DE RENTA FIJA	SPAIN
SEND	SEND - SISTEMA ELECTRONICO DE NEGOCIACION DE DEUDA	SPAIN
SBAR	BOLSA DE BARCELONA RENTA FIJA	SPAIN
XMPW	MEFF POWER DERIVATIVES	SPAIN
SBIL	BOLSA DE BILBAO RENTA FIJA	SPAIN
IBGH	IBERIAN GAS HUB	SPAIN
MIBG	MERCADO ORGANIZADO DEL GAS	SPAIN
OMEL	OMI POLO ESPANOL S.A. (OMIE)	SPAIN
PAVE	ALTERNATIVE PLATFORM FOR SPANISH SECURITIES	SPAIN
XDPA	CADE - MERCADO DE DEUDA PUBLICA ANOTADA	SPAIN
XNAF	SISTEMA ESPANOL DE NEGOCIACION DE ACTIVOS FINANCIEROS	SPAIN
XCOL	COLOMBO STOCK EXCHANGE	SRI LANKA
XKHA	KHARTOUM STOCK EXCHANGE	SUDAN
XSWA	SWAZILAND STOCK EXCHANGE	SWAZILAND
CRYD	CRYEX - FX AND DIGITAL CURRENCIES	SWEDEN
CRYX	CRYEX	SWEDEN
SEBX	SEB - LIQUIDITY POOL	SWEDEN
ENSX	SEB ENSKILDA	SWEDEN
XNGM	NORDIC GROWTH MARKET	SWEDEN
NMTF	NORDIC MTF	SWEDEN
XNDX	NORDIC DERIVATIVES EXCHANGE	SWEDEN
XNMR	NORDIC MTF REPORTING	SWEDEN
XSAT	AKTIETORGET	SWEDEN
XSTO	NASDAQ STOCKHOLM AB	SWEDEN
XOPV	OTC PUBLICATION VENUE	SWEDEN
NOED	NASDAQ STOCKHOLM AB - NORWEGIAN EQ DERIVATIVES	SWEDEN
MNSE	FIRST NORTH SWEDEN – AUCTION ON DEMAND	SWEDEN
MSTO	NASDAQ STOCKHOLM AB – AUCTION ON DEMAND	SWEDEN
CSTO	NASDAQ CLEARING AB	SWEDEN
PNED	NASDAQ STOCKHOLM AB - PAN-NORDIC EQ	SWEDEN

VALUE	CODE DESCRIPTION	COUNTRY
	DERIVATIVES	
FIED	NASDAQ STOCKHOLM AB - FINNISH EQ DERIVATIVES	SWEDEN
FNSE	FIRST NORTH SWEDEN	SWEDEN
SEED	NASDAQ STOCKHOLM AB - SWEDISH EQ DERIVATIVES	SWEDEN
DNSE	FIRST NORTH SWEDEN - NORDIC@MID	SWEDEN
DSTO	NASDAQ STOCKHOLM AB - NORDIC@MID	SWEDEN
DKFI	NASDAQ STOCKHOLM AB - DANISH FI DERIVATIVES	SWEDEN
DKED	NASDAQ STOCKHOLM AB - DANISH EQ DERIVATIVES	SWEDEN
EUWB	NASDAQ STOCKHOLM AB - EUR WB EQ DERIVATIVES	SWEDEN
EBON	NASDAQ STOCKHOLM AB - EUR FI DERIVATIVES	SWEDEN
USWB	NASDAQ STOCKHOLM AB - USD WB EQ DERIVATIVES	SWEDEN
NOFI	NASDAQ STOCKHOLM AB - NORWEGIAN FI DERIVATIVES	SWEDEN
AIXE	AIXECUTE	SWITZERLAND
DOTS	SWISS DOTS BY CATS	SWITZERLAND
EUCH	EUREX ZURICH	SWITZERLAND
EUSC	EUREX CH SECLEND MARKET	SWITZERLAND
EUSP	EUREX OTC SPOT MARKET	SWITZERLAND
EURM	EUREX REPO MARKET	SWITZERLAND
S3FM	SOCIETY3 FUNDERSMART	SWITZERLAND
STOX	STOXX LIMITED	SWITZERLAND
XSTX	STOXX LIMITED - INDICES	SWITZERLAND
XSCU	STOXX LIMITED - CUSTOMIZED INDICES	SWITZERLAND
XSTV	STOXX LIMITED - VOLATILITY INDICES	SWITZERLAND
UBSG	UBS TRADING	SWITZERLAND
UBSF	UBS FX	SWITZERLAND
UBSC	UBS PIN-FX	SWITZERLAND
VLEX	VONTOBEL LIQUIDITY EXTENDER	SWITZERLAND
XBRN	BX SWISS AG	SWITZERLAND
XSWX	SIX SWISS EXCHANGE	SWITZERLAND
XBTR	SIX SWISS BILATERAL TRADING PLATFORM FOR STRUCTURED OTC PRODUCTS	SWITZERLAND
XQMH	SIX SWISS EXCHANGE – STRUCTURED PRODUCTS	SWITZERLAND
XICB	SIX CORPORATE BONDS AG	SWITZERLAND
XSWM	SIX SWISS EXCHANGE - SIX SWISS EXCHANGE AT MIDPOINT	SWITZERLAND
XSLS	SIX SWISS EXCHANGE - SLS	SWITZERLAND
XVTX	SIX SWISS EXCHANGE - BLUE CHIPS SEGMENT	SWITZERLAND
ZKBX	ZURCHER KANTONALBANK SECURITIES EXCHANGE	SWITZERLAND

VALUE	CODE DESCRIPTION	COUNTRY
KMUX	ZURCHER KANTONALBANK - EKMU-X	SWITZERLAND
XDSE	DAMASCUS SECURITIES EXCHANGE	SYRIAN ARAB REPUBLIC
ROCO	TAIPEI EXCHANGE	TAIWAN
XTAF	TAIWAN FUTURES EXCHANGE	TAIWAN
XTAI	TAIWAN STOCK EXCHANGE	TAIWAN
XDAR	DAR ES SALAAM STOCK EXCHANGE	TANZANIA
AFET	AGRICULTURAL FUTURES EXCHANGE OF THAILAND	THAILAND
BEEEX	BOND ELECTRONIC EXCHANGE	THAILAND
TFEX	THAILAND FUTURES EXCHANGE	THAILAND
XBKK	STOCK EXCHANGE OF THAILAND	THAILAND
XMAI	MARKET FOR ALTERNATIVE INVESTMENT	THAILAND
XBKF	STOCK EXCHANGE OF THAILAND - FOREIGN BOARD	THAILAND
CLMX	CLIMEX	THE NETHERLANDS
HCHC	ICE CLEAR NETHERLANDS B.V.	THE NETHERLANDS
NDEX	ICE ENDEX DERIVATIVES B.V.	THE NETHERLANDS
IMEQ	ICE MARKETS EQUITY	THE NETHERLANDS
NDXS	ICE ENDEX GAS B.V.	THE NETHERLANDS
NLPX	APX POWER NL	THE NETHERLANDS
TOMX	TOM MTF CASH MARKETS	THE NETHERLANDS
TOMD	TOM MTF DERIVATIVES MARKET	THE NETHERLANDS
XAMS	EURONEXT - EURONEXT AMSTERDAM	THE NETHERLANDS
XEUE	EURONEXT EQF, EQUITIES AND INDICES DERIVATIVES	THE NETHERLANDS
XEUC	EURONEXT COM, COMMODITIES FUTURES AND OPTIONS	THE NETHERLANDS
TNLA	EURONEXT - TRADED BUT NOT LISTED AMSTERDAM	THE NETHERLANDS
ALXA	EURONEXT - ALTERNEXT AMSTERDAM	THE NETHERLANDS
XEUI	EURONEXT IRF, INTEREST RATE FUTURE AND OPTIONS	THE NETHERLANDS
XEMS	EMS EXCHANGE	THE NETHERLANDS
XNXC	NXCHANGE	THE NETHERLANDS
XTRN	TRINIDAD AND TOBAGO STOCK EXCHANGE	TRINIDAD AND TOBAGO
XTUN	BOURSE DE TUNIS	TUNISIA
EXTR	ENERGY EXCHANGE ISTANBUL	TURKEY
XEID	ELECTRICITY INTRA-DAY MARKET	TURKEY
XEDA	ELECTRICITY DAY-AHEAD MARKET	TURKEY
XIST	BORSA ISTANBUL	TURKEY
XPMS	BORSA ISTANBUL - PRECIOUS METALS AND DIAMONDS MARKETS	TURKEY

VALUE	CODE DESCRIPTION	COUNTRY
XDSM	BORSA ISTANBUL - DEBT SECURITIES MARKET	TURKEY
XEQY	BORSA ISTANBUL - EQUITY MARKET	TURKEY
XFNO	BORSA ISTANBUL - FUTURES AND OPTIONS MARKET	TURKEY
ULTX	ALT XCHANGE (U)	UGANDA
XUGA	UGANDA SECURITIES EXCHANGE	UGANDA
EESE	EAST EUROPEAN STOCK EXCHANGE	UKRAINE
PFTS	PFTS STOCK EXCHANGE	UKRAINE
PFTQ	PFTS QUOTE DRIVEN	UKRAINE
SEPE	STOCK EXCHANGE PERSPECTIVA	UKRAINE
UKEX	UKRAINIAN EXCHANGE	UKRAINE
XDFB	JOINT-STOCK COMPANY "STOCK EXCHANGE INNEX"	UKRAINE
XKHR	KHARKOV COMMODITY EXCHANGE	UKRAINE
XKIE	KIEV UNIVERSAL EXCHANGE	UKRAINE
XKIS	KIEV INTERNATIONAL STOCK EXCHANGE	UKRAINE
XODE	ODESSA COMMODITY EXCHANGE	UKRAINE
XPRI	PRIDNEPROVSK COMMODITY EXCHANGE	UKRAINE
XUAX	UKRAINIAN STOCK EXCHANGE	UKRAINE
XUKR	UKRAINIAN UNIVERSAL COMMODITY EXCHANGE	UKRAINE
DGCX	DUBAI GOLD & COMMODITIES EXCHANGE DMCC	UNITED ARAB EMIRATES
DIFX	NASDAQ DUBAI	UNITED ARAB EMIRATES
DUMX	DUBAI MERCANTILE EXCHANGE	UNITED ARAB EMIRATES
XADS	ABU DHABI SECURITIES EXCHANGE	UNITED ARAB EMIRATES
XDFM	DUBAI FINANCIAL MARKET	UNITED ARAB EMIRATES
AFDL	ABIDE FINANCIAL DRSP LIMITED APA	UNITED KINGDOM
AQXE	AQUIS EXCHANGE	UNITED KINGDOM
ARAX	ARAX COMMODITIES LTD	UNITED KINGDOM
ATLB	ATLANTIC BROKERS LTD	UNITED KINGDOM
AUTX	AUTILLA	UNITED KINGDOM
AUTP	AUTILLA - PRECIOUS METALS	UNITED KINGDOM
AUTB	AUTILLA - BASE METALS	UNITED KINGDOM
BALT	THE BALTIC EXCHANGE	UNITED KINGDOM
BLTX	BALTEX - FREIGHT DERIVATIVES MARKET	UNITED KINGDOM
BCXE	BATS EUROPE	UNITED KINGDOM
BATE	BATS EUROPE -BXE ORDER BOOKS	UNITED KINGDOM
CHIX	BATS EUROPE - CXE ORDER BOOKS	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
BARO	BATS EUROPE - REGULATED MARKET OFF BOOK	UNITED KINGDOM
BATF	BATS EUROPE – BATS OFF-BOOK	UNITED KINGDOM
CHIO	BATS EUROPE - CXE - OFF-BOOK	UNITED KINGDOM
BOTC	OFF EXCHANGE IDENTIFIER FOR OTC TRADES REPORTED TO BATS EUROPE	UNITED KINGDOM
LISX	BATS EUROPE - LIS SERVICE	UNITED KINGDOM
CHID	BATS EUROPE - CXE DARK ORDER BOOK	UNITED KINGDOM
BATD	BATS EUROPE -BXE DARK ORDER BOOK	UNITED KINGDOM
BART	BATS EUROPE - REGULATED MARKET INTEGRATED BOOK	UNITED KINGDOM
BARK	BATS EUROPE - REGULATED MARKET DARK BOOK	UNITED KINGDOM
BATP	BATS EUROPE - BXE PERIODIC	UNITED KINGDOM
BGCI	BGC BROKERS LP	UNITED KINGDOM
BGCB	BGC BROKERS LP - TRAYPORT	UNITED KINGDOM
BLOX	BLOCKMATCH	UNITED KINGDOM
BMTF	BLOOMBERG TRADING FACILITY LIMITED	UNITED KINGDOM
BOAT	CINNOBER BOAT	UNITED KINGDOM
BOSC	BONDSCAPE	UNITED KINGDOM
BRNX	BERNSTEIN CROSS (BERN-X)	UNITED KINGDOM
BTEE	BROKERTEC EU MTF	UNITED KINGDOM
EBSX	EBS MTF	UNITED KINGDOM
CCO2	CANTORCO2E.COM LIMITED	UNITED KINGDOM
CGME	CITI MATCH	UNITED KINGDOM
CHEV	CA CHEUVREUX	UNITED KINGDOM
BLNK	BLINK MTF	UNITED KINGDOM
CMEE	CME EUROPE	UNITED KINGDOM
CMEC	CME CLEARING EUROPE	UNITED KINGDOM
CMED	CME EUROPE - DERIVATIVES	UNITED KINGDOM
CMMT	CLEAR MARKETS EUROPE LIMITED	UNITED KINGDOM
CRYP	CRYPTO FACILITIES	UNITED KINGDOM
CSEU	CREDIT SUISSE (EUROPE)	UNITED KINGDOM
CSBX	CREDIT SUISSE AES EUROPE BENCHMARK CROSS	UNITED KINGDOM
CSCF	CREDIT SUISSE AES CROSSFINDER EUROPE	UNITED KINGDOM
DBIX	DEUTSCHE BANK INTERNALISATION	UNITED KINGDOM
DBCR	DEUTSCHE BANK - CENTRAL RISK BOOK	UNITED KINGDOM
DBCX	DEUTSCHE BANK - CLOSE CROSS	UNITED KINGDOM
DBDC	DEUTSCHE BANK - DIRECT CAPITAL ACCESS	UNITED KINGDOM
DBSE	DEUTSCHE BANK - SUPERX EU	UNITED KINGDOM
DBMO	DEUTSCHE BANK - MANUAL OTC	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
EMBX	EMERGING MARKETS BOND EXCHANGE LIMITED	UNITED KINGDOM
ENCL	ENCLEAR	UNITED KINGDOM
EQLD	EQUILEND EUROPE LIMITED	UNITED KINGDOM
EXEU	EXANE BNP PARIBAS	UNITED KINGDOM
EXMP	EXANE BNP PARIBAS - MID POINT	UNITED KINGDOM
EXOR	EXANE BNP PARIBAS - CHILD ORDER CROSSING	UNITED KINGDOM
EXVP	EXANE BNP PARIBAS - VOLUME PROFILE CROSSING	UNITED KINGDOM
EXBO	EXANE BNP PARIBAS - BID-OFFER CROSSING	UNITED KINGDOM
EXDC	EXANE BNP PARIBAS - DIRECT CAPITAL ACCESS	UNITED KINGDOM
EXCP	EXANE BNP PARIBAS - CLOSING PRICE	UNITED KINGDOM
EXSI	EXANE BNP PARIBAS - SYSTEMATIC INTERNALISER	UNITED KINGDOM
EXLP	EXANE BNP PARIBAS - LIQUIDITY PROVISION	UNITED KINGDOM
FAIR	CANTOR SPREADFAIR	UNITED KINGDOM
GEMX	GEMMA (GILT EDGED MARKET MAKERS' ASSOCIATION)	UNITED KINGDOM
GFIC	GFI CREDITMATCH	UNITED KINGDOM
GFIN	GFI ENERGYMATCH	UNITED KINGDOM
GFIF	GFI FOREXMATCH	UNITED KINGDOM
GFIR	GFI RATESMATCH	UNITED KINGDOM
GMEG	GMEX EXCHANGE	UNITED KINGDOM
XLDX	LONDON DERIVATIVES EXCHANGE	UNITED KINGDOM
XGCX	GLOBAL COMMODITIES EXCHANGE	UNITED KINGDOM
XGSX	GLOBAL SECURITIES EXCHANGE	UNITED KINGDOM
XGDX	GLOBAL DERIVATIVES EXCHANGE	UNITED KINGDOM
GRIF	GRIFFIN MARKETS LIMITED	UNITED KINGDOM
GRIO	GRIFFIN MARKETS LIMITED - OTF	UNITED KINGDOM
GRSE	THE GREEN STOCK EXCHANGE - ACB IMPACT MARKETS	UNITED KINGDOM
GSIL	GOLDMAN SACHS INTERNATIONAL	UNITED KINGDOM
GSBX	GOLDMAN SACHS INTERNATIONAL - SIGMA BCN	UNITED KINGDOM
GSSI	GOLDMAN SACHS INTERNATIONAL - SYSTEMATIC INTERNALISER	UNITED KINGDOM
HPCS	HPC SA	UNITED KINGDOM
HSXE	HSBC-X UNITED KINGDOM	UNITED KINGDOM
IBAL	ICE BENCHMARK ADMINISTRATION	UNITED KINGDOM
ICAP	ICAP EUROPE	UNITED KINGDOM
ICSE	ICAP SECURITIES	UNITED KINGDOM
ICTQ	ICAP TRUEQUOTE	UNITED KINGDOM
WCLK	ICAP WCLK	UNITED KINGDOM
ICAH	TRAYPORT	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
ICEN	ICAP ENERGY	UNITED KINGDOM
IGDL	ICAP GLOBAL DERIVATIVES LIMITED	UNITED KINGDOM
ISDX	ICAP SECURITIES & DERIVATIVES EXCHANGE LIMITED	UNITED KINGDOM
IFEU	ICE FUTURES EUROPE	UNITED KINGDOM
CXRT	CREDITEX BROKERAGE LLP - MTF	UNITED KINGDOM
IMCO	ICE MARKETS COMMODITIES	UNITED KINGDOM
IFUT	ICE FUTURES EUROPE - EUROPEAN UTILITIES DIVISION	UNITED KINGDOM
CXOT	CREDITEX BROKERAGE LLP - OTF	UNITED KINGDOM
IFLL	ICE FUTURES EUROPE - FINANCIAL PRODUCTS DIVISION	UNITED KINGDOM
IFLX	ICE FUTURES EUROPE - AGRICULTURAL PRODUCTS DIVISION	UNITED KINGDOM
IFLO	ICE FUTURES EUROPE - EQUITY PRODUCTS DIVISION	UNITED KINGDOM
IFEN	ICE FUTURES EUROPE - OIL AND REFINED PRODUCTS DIVISION	UNITED KINGDOM
ISWA	I-SWAP	UNITED KINGDOM
JPSI	J.P. MORGAN SECURITIES PLC	UNITED KINGDOM
KLEU	KNIGHT LINK EUROPE	UNITED KINGDOM
LCUR	CURRENEX LDFX	UNITED KINGDOM
LIQU	LIQUIDNET SYSTEMS	UNITED KINGDOM
LIQH	LIQUIDNET H20	UNITED KINGDOM
LIQF	LIQUIDNET EUROPE LIMITED	UNITED KINGDOM
LMAX	LMAX	UNITED KINGDOM
LMAF	LMAX - FX	UNITED KINGDOM
LMAO	LMAX - INDICES/RATES/COMMODITIES	UNITED KINGDOM
LMAD	LMAX - DERIVATIVES	UNITED KINGDOM
LMAE	LMAX - EQUITIES	UNITED KINGDOM
LMEC	LME CLEAR	UNITED KINGDOM
LOTC	OTC MARKET	UNITED KINGDOM
PLDX	PLUS DERIVATIVES EXCHANGE	UNITED KINGDOM
LPPM	LONDON PLATINUM AND PALLADIUM MARKET	UNITED KINGDOM
MAEL	MARKETAXESS EUROPE LIMITED	UNITED KINGDOM
MFGL	MF GLOBAL ENERGY MTF	UNITED KINGDOM
MLXN	BANK OF AMERICA - MERRILL LYNCH INSTINCT X - EUROPE	UNITED KINGDOM
MLAX	BANK OF AMERICA - MERRILL LYNCH AUCTION CROSS	UNITED KINGDOM
MLEU	BANK OF AMERICA - MERRILL LYNCH OTC - EUROPE	UNITED KINGDOM
MLVE	BANK OF AMERICA - MERRILL LYNCH VWAP CROSS - EUROPE	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
MSIP	MORGAN STANLEY AND CO. INTERNATIONAL PLC	UNITED KINGDOM
MYTR	MYTREASURY	UNITED KINGDOM
N2EX	N2EX	UNITED KINGDOM
NDCM	ICE ENDEX GAS SPOT LTD	UNITED KINGDOM
NEXS	NEX SEF	UNITED KINGDOM
NOFF	NOMURA OTC TRADES	UNITED KINGDOM
NOSI	NOMURA SYSTEMATIC INTERNALISER	UNITED KINGDOM
NURO	NASDAQ OMX EUROPE	UNITED KINGDOM
XNLX	NASDAQ OMX NLX	UNITED KINGDOM
NURD	NASDAQ EUROPE (NURO) DARK	UNITED KINGDOM
NXEU	NX	UNITED KINGDOM
OTCE	OTCEX	UNITED KINGDOM
PEEL	PEEL HUNT LLP UK	UNITED KINGDOM
XRSP	PEEL HUNT RETAIL	UNITED KINGDOM
XPHX	PEEL HUNT CROSSING	UNITED KINGDOM
PIEU	ARITAS FINANCIAL LTD	UNITED KINGDOM
PIRM	PIRUM	UNITED KINGDOM
QWIX	Q-WIXX PLATFORM	UNITED KINGDOM
RBCE	RBC EUROPE LIMITED	UNITED KINGDOM
RBSX	RBS CROSS	UNITED KINGDOM
RTSL	REUTERS TRANSACTION SERVICES LIMITED	UNITED KINGDOM
TRFW	REUTERS TRANSACTION SERVICES LIMITED - FORWARDS MATCHING	UNITED KINGDOM
TRAL	REUTERS TRANSACTION SERVICES LIMITED - FXALL RFQ	UNITED KINGDOM
SECF	SECFINEX	UNITED KINGDOM
SGMX	SIGMA X MTF	UNITED KINGDOM
SHAR	ASSET MATCH	UNITED KINGDOM
SPEC	SPECTRONLIVE	UNITED KINGDOM
SPRZ	SPREADZERO	UNITED KINGDOM
SSEX	SOCIAL STOCK EXCHANGE	UNITED KINGDOM
SWAP	SWAPSTREAM	UNITED KINGDOM
TFSV	VOLBROKER	UNITED KINGDOM
FXOP	TRADITION-NEX OTF	UNITED KINGDOM
TPIE	THE PROPERTY INVESTMENT EXCHANGE	UNITED KINGDOM
TRDE	TRADITION ELECTRONIC TRADING PLATFORM	UNITED KINGDOM
TFSG	TRADITION ENERGY	UNITED KINGDOM
TCDS	TRADITION CDS	UNITED KINGDOM
TRDX	TRAD-X	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
VOLA	TRADITION - VOLATIS	UNITED KINGDOM
NAVE	NAVESIS-MTF	UNITED KINGDOM
PARX	PARFX	UNITED KINGDOM
EMCH	FINACOR EMATCH	UNITED KINGDOM
ELIX	ELIXIUM	UNITED KINGDOM
TREU	TRADEWEB EUROPE LIMITED	UNITED KINGDOM
TREO	TRADEWEB EUROPE LIMITED - OTF	UNITED KINGDOM
TREA	TRADEWEB EUROPE LIMITED - APA	UNITED KINGDOM
TRQX	TURQUOISE	UNITED KINGDOM
TRQM	TURQUOISE DARK	UNITED KINGDOM
UBSL	UBS EMEA EQUITIES TRADING	UNITED KINGDOM
UBSE	UBS PIN (EMEA)	UNITED KINGDOM
UKPX	APX POWER UK	UNITED KINGDOM
VEGA	VEGA-CHI	UNITED KINGDOM
WINS	WINTERFLOOD SECURITIES LIMITED	UNITED KINGDOM
XALT	ALTEX-ATS	UNITED KINGDOM
XCOR	ICMA	UNITED KINGDOM
XGCL	GLOBAL COAL LIMITED	UNITED KINGDOM
XLBM	LONDON BULLION MARKET	UNITED KINGDOM
XLCH	LCH.CLEARNET LTD	UNITED KINGDOM
XLDN	EURONEXT - EURONEXT LONDON	UNITED KINGDOM
XLME	LONDON METAL EXCHANGE	UNITED KINGDOM
XLON	LONDON STOCK EXCHANGE	UNITED KINGDOM
XLOD	LONDON STOCK EXCHANGE - DERIVATIVES MARKET	UNITED KINGDOM
XMTS	EUROMTS LTD	UNITED KINGDOM
HUNG	MTS HUNGARY	UNITED KINGDOM
RMTS	MTS ISRAEL	UNITED KINGDOM
MTSS	MTS INTERDEALER SWAPS MARKET	UNITED KINGDOM
MTSG	MTS GREECE	UNITED KINGDOM
MTSA	MTS AUSTRIA	UNITED KINGDOM
MCZK	MTS CZECH REPUBLIC	UNITED KINGDOM
GMTS	MTS GERMANY	UNITED KINGDOM
VMTS	MTS SLOVENIA	UNITED KINGDOM
UKGD	UK GILTS MARKET	UNITED KINGDOM
IMTS	MTS IRELAND	UNITED KINGDOM
SMTS	MTS SPAIN	UNITED KINGDOM
AMTS	MTS NETHERLANDS	UNITED KINGDOM
EMTS	EUROMTS	UNITED KINGDOM

VALUE	CODE DESCRIPTION	COUNTRY
MTSW	MTS SWAP MARKET	UNITED KINGDOM
PORT	MTS PORTUGAL	UNITED KINGDOM
BVUK	BONDVISION UK	UNITED KINGDOM
XSGA	ALPHA Y	UNITED KINGDOM
XSMP	SMARTPOOL	UNITED KINGDOM
XSWB	SWX SWISS BLOCK	UNITED KINGDOM
XTUP	TULLETT PREBON PLC	UNITED KINGDOM
TBEN	TULLETT PREBON PLC - TP ENERGY	UNITED KINGDOM
TPEQ	TULLETT PREBON PLC - TP EQUITYTRADE	UNITED KINGDOM
XTPE	TULLETT PREBON PLC - TP ENERGYTRADE	UNITED KINGDOM
TPSD	TULLETT PREBON PLC - TP SWAPDEAL	UNITED KINGDOM
TPRE	TULLETT PREBON PLC - TP REPO	UNITED KINGDOM
TPFD	TULLETT PREBON PLC - TP FORWARDDEAL	UNITED KINGDOM
TPCD	TULLETT PREBON PLC - TP CREDITDEAL	UNITED KINGDOM
TBLA	TULLETT PREBON PLC - TP TRADEBLADE	UNITED KINGDOM
TPEL	TULLETT PREBON PLC – TULLETT PREBON (EUROPE) LIMITED	UNITED KINGDOM
TPSL	TULLETT PREBON PLC – TULLETT PREBON (SECURITIES) LIMITED	UNITED KINGDOM
XUBS	UBS MTF	UNITED KINGDOM
BVUR	BOLSA ELECTRONICA DE VALORES DEL URUGUAY	URUGUAY
UFEX	UFEX	URUGUAY
XMNT	BOLSA DE VALORES DE MONTEVIDEO	URUGUAY
XCET	UZBEK COMMODITY EXCHANGE	UZBEKISTAN
XCUE	UZBEKISTAN REPUBLICAN CURRENCY EXCHANGE	UZBEKISTAN
XKCE	KHOREZM INTERREGION COMMODITY EXCHANGE	UZBEKISTAN
XSTE	REPUBLICAN STOCK EXCHANGE	UZBEKISTAN
XUNI	UNIVERSAL BROKER'S EXCHANGE 'TASHKENT'	UZBEKISTAN
GXMA	GX MARKETCENTER	VANUATU
BVCA	CARACAS STOCK EXCHANGE	VENEZUELA
HSTC	HANOI STOCK EXCHANGE	VIET NAM
XHNX	HANOI STOCK EXCHANGE (UNLISTED PUBLIC COMPANY TRADING PLATFORM)	VIET NAM
XSTC	HOCHIMINH STOCK EXCHANGE	VIET NAM
XLUS	LUSAKA STOCK EXCHANGE	ZAMBIA
XZIM	ZIMBABWE STOCK EXCHANGE	ZIMBABWE
XOFF	OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS	
XXXX	NO MARKET (E.G. UNLISTED)	

7 ISO STATE CODES SCHEMA DATA VALUE CONSTRAINTS

7.1 ISO_COUNTRY_CODE

These are the valid values for elements with type <ISO_COUNTRY_CODE> element in the submission file:

VALUE	CODE DESCRIPTION
AF	AFGHANISTAN
AX	ALAND ISLANDS
AL	ALBANIA
DZ	ALGERIA
AS	AMERICAN SAMOA
AD	ANDORRA
AO	ANGOLA
AI	ANGUILLA
AQ	ANTARCTICA
AG	ANTIGUA AND BARBUDA
AR	ARGENTINA
AM	ARMENIA
AW	ARUBA
AU	AUSTRALIA
AT	AUSTRIA
AZ	AZERBAIJAN
BS	BAHAMAS
BH	BAHRAIN
BD	BANGLADESH
BB	BARBADOS
BY	BELARUS
BE	BELGIUM
BZ	BELIZE
BJ	BENIN
BM	BERMUDA
BT	BHUTAN
BO	BOLIVIA (PLURINATIONAL STATE OF)
BQ	BONAIRE, SINT EUSTATIUS AND SABA
BA	BOSNIA AND HERZEGOVINA
BW	BOTSWANA
BV	BOUVET ISLAND
BR	BRAZIL
IO	BRITISH INDIAN OCEAN TERRITORY

VALUE	CODE DESCRIPTION
BN	BRUNEI DARUSSALAM
BG	BULGARIA
BF	BURKINA FASO
BI	BURUNDI
CV	CABO VERDE
KH	CAMBODIA
CM	CAMEROON
CA	CANADA
KY	CAYMAN ISLANDS
CF	CENTRAL AFRICAN REPUBLIC
TD	CHAD
CL	CHILE
CN	CHINA
CX	CHRISTMAS ISLAND
CC	COCOS (KEELING) ISLANDS
CO	COLOMBIA
KM	COMOROS
CG	CONGO
CD	CONGO, THE DEMOCRATIC REPUBLIC OF THE
CK	COOK ISLANDS
CR	COSTA RICA
CI	COTE D'IVOIRE
HR	CROATIA
CU	CUBA
CW	CURACAO
CY	CYPRUS
CZ	CZECHIA
DK	DENMARK
DJ	DJIBOUTI
DM	DOMINICA
DO	DOMINICAN REPUBLIC
EC	ECUADOR
EG	EGYPT
SV	EL SALVADOR
GQ	EQUATORIAL GUINEA
ER	ERITREA
EE	ESTONIA
ET	ETHIOPIA

VALUE	CODE DESCRIPTION
FK	FALKLAND ISLANDS (MALVINAS)
FO	FAROE ISLANDS
FJ	FIJI
FI	FINLAND
FR	FRANCE
GF	FRENCH GUIANA
PF	FRENCH POLYNESIA
TF	FRENCH SOUTHERN TERRITORIES
GA	GABON
GM	GAMBIA
GE	GEORGIA
DE	GERMANY
GH	GHANA
GI	GIBRALTAR
GR	GREECE
GL	GREENLAND
GD	GRENADA
GP	GUADELOUPE
GU	GUAM
GT	GUATEMALA
GG	GUERNSEY
GN	GUINEA
GW	GUINEA-BISSAU
GY	GUYANA
HT	HAITI
HM	HEARD ISLAND AND MCDONALD ISLANDS
VA	HOLY SEE (VATICAN CITY STATE)
HN	HONDURAS
HK	HONG KONG
HU	HUNGARY
IS	ICELAND
IN	INDIA
ID	INDONESIA
IR	IRAN, ISLAMIC REPUBLIC OF
IQ	IRAQ
IE	IRELAND
IM	ISLE OF MAN
IL	ISRAEL

VALUE	CODE DESCRIPTION
IT	ITALY
JM	JAMAICA
JP	JAPAN
JE	JERSEY
JO	JORDAN
KZ	KAZAKSTAN
KE	KENYA
KI	KIRIBATI
KP	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KR	KOREA, REPUBLIC OF
KW	KUWAIT
KG	KYRGYZSTAN
LA	LAO PEOPLE'S DEMOCRATIC REPUBLIC
LV	LATVIA
LB	LEBANON
LS	LESOTHO
LR	LIBERIA
LY	LIBYAN ARAB JAMAHIRIYA
LI	LIECHTENSTEIN
LT	LITHUANIA
LU	LUXEMBOURG
MO	MACAU
MK	MACEDONIA, THE FORMER YUGOSLAV REPUBLIC OF
MG	MADAGASCAR
MW	MALAWI
MY	MALAYSIA
MV	MALDIVES
ML	MALI
MT	MALTA
MH	MARSHALL ISLANDS
MQ	MARTINIQUE
MR	MAURITANIA
MU	MAURITIUS
YT	MAYOTTE
MX	MEXICO
FM	MICRONESIA, FEDERATED STATES OF
MD	MOLDOVA, REPUBLIC OF
MC	MONACO

VALUE	CODE DESCRIPTION
MN	MONGOLIA
ME	MONTENEGRO
MS	MONTSERRAT
MA	MOROCCO
MZ	MOZAMBIQUE
MM	MYANMAR
NA	NAMIBIA
NR	NAURU
NP	NEPAL
NL	NETHERLANDS
NC	NEW CALEDONIA
NZ	NEW ZEALAND
NI	NICARAGUA
NE	NIGER
NG	NIGERIA
NU	NIUE
NF	NORFOLK ISLAND
MP	NORTHERN MARIANA ISLANDS
NO	NORWAY
OM	OMAN
PK	PAKISTAN
PW	PALAU
PS	PALESTINIAN TERRITORY, OCCUPIED
PA	PANAMA
PG	PAPUA NEW GUINEA
PY	PARAGUAY
PE	PERU
PH	PHILIPPINES
PM	PITCAIRN
PL	POLAND
PT	PORTUGAL
PR	PUERTO RICO
QA	QATAR
RE	REUNION
RO	ROMANIA
RU	RUSSIAN FEDERATION
RW	RWANDA
BL	SAINT BARTHELEMY

VALUE	CODE DESCRIPTION
SH	SAINT HELENA
KN	SAINT KITTS AND NEVIS
LC	SAINT LUCIA
MF	SAINT MARTIN
PM	SAINT PIERRE AND MIQUELON
VC	SAINT VINCENT AND THE GRENADINES
WS	SAMOA
SM	SAN MARINO
ST	SAO TOME AND PRINCIPE
SA	SAUDI ARABIA
SN	SENEGAL
RS	SERBIA
SC	SEYCHELLES
SL	SIERRA LEONE
SG	SINGAPORE
SX	SINT MAARTEN (DUTCH PART)
SK	SLOVAKIA
SI	SLOVENIA
SB	SOLOMON ISLANDS
SO	SOMALIA
ZA	SOUTH AFRICA
GS	SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS
SS	SOUTH SUDAN
ES	SPAIN
LK	SRI LANKA
SD	SUDAN
SR	SURINAME
SJ	SVALBARD AND JAN MAYEN
SZ	SWAZILAND
SE	SWEDEN
CH	SWITZERLAND
SY	SYRIAN ARAB REPUBLIC
TW	TAIWAN
TJ	TAJIKISTAN
TZ	TANZANIA, UNITED REPUBLIC OF
TH	THAILAND
TL	TIMOR-LESTE
TG	TOGO

VALUE	CODE DESCRIPTION
TK	TOKELAU
TO	TONGA
TT	TRINIDAD AND TOBAGO
TN	TUNISIA
TR	TURKEY
TM	TURKMENISTAN
TC	TURKS AND CAICOS ISLANDS
TV	TUVALU
UG	UGANDA
UA	UKRAINE
AE	UNITED ARAB EMIRATES
GB	UNITED KINGDOM
US	UNITES STATES OF AMERICA
UM	UNITED STATES MINOR OUTLYING ISLANDS
UY	URUGUAY
UZ	UZBEKISTAN
VU	VANUATU
VE	VENEZUELA
VN	VIET NAM
VG	VIRGIN ISLANDS, BRITISH
VI	VIRGIN ISLANDS, U.S.
WF	WALLIS AND FUTUNA
EH	WESTERN SAHARA
YE	YEMEN
ZM	ZAMBIA
ZW	ZIMBABWE
XX	UNKNOWN
C2	ASHMORE & CARTIER IS
E5	CANAL ZONE
E6	MONTREAL, CANADA
E7	CANTON/ENDERBURY IS
2N	CZECH REPUBLIC
G5	CZECHOSLOVAKIA
I7	GAZA STRIP
X9	GERMANY (BERLIN)
I8	GERMANY (WEST)
I9	GERMANY, FED. REP.
L1	IRAQ-SAUDI

VALUE	CODE DESCRIPTION
L4	ISRAEL-JORDAN
L5	ISRAEL-SYRIA
M1	JOHNSTON ATOLL
O6	MIDWAY ISLAND
P8	NETHERLANDS ANTILLES
Q9	PACIFIC ISLANDS TRU
R3	PARACEL ISLANDS
T4	SOUTHERN RHODESIA
U2	SOVIET UNION
U4	SPANISH NORTH AFRICA
U6	SPRATLY ISLAND
X7	WAKE ISLAND
2F	EAST TIMOR
Y2	YUGOSLAVIA

7.2 ISO_FOREIGN_COUNTRY_CODE

The valid values for the element type <ISO_FOREIGN_COUNTRY_CODE> in the submission file are the same as for ISO_COUNTRY_CODE excluding “US”.

7.3 ISO_STATE_AND_OUTLYING_AREA_CODE_USA

These are the valid values for the <ISO_STATE_AND_OUTLYING_AREA_CODE_USA> element in the submission file:

VALUE	CODE DESCRIPTION
US-AL	ALABAMA
US-AK	ALASKA
US-AZ	ARIZONA
US-AR	ARKANSAS
US-CA	CALIFORNIA
US-CO	COLORADO
US-CT	CONNECTICUT
US-DE	DELAWARE
US-DC	DISTRICT OF COLUMBIA
US-FL	FLORIDA
US-GA	GEORGIA
US-HI	HAWAII
US-ID	IDAHO
US-IL	ILLINOIS

VALUE	CODE DESCRIPTION
US-IN	INDIANA
US-IA	IOWA
US-KS	KANSAS
US-KY	KENTUCKY
US-LA	LOUISIANA
US-ME	MAINE
US-MD	MARYLAND
US-MA	MASSACHUSETTS
US-MI	MICHIGAN
US-MN	MINNESOTA
US-MS	MISSISSIPPI
US-MO	MISSOURI
US-MT	MONTANA
US-NE	NEBRASKA
US-NV	NEVADA
US-NH	NEW HAMPSHIRE
US-NJ	NEW JERSEY
US-NM	NEW MEXICO
US-NY	NEW YORK
US-NC	NORTH CAROLINA
US-ND	NORTH DAKOTA
US-OH	OHIO
US-OK	OKLAHOMA
US-OR	OREGON
US-PA	PENNSYLVANIA
US-RI	RHODE ISLAND
US-SC	SOUTH CAROLINA
US-SD	SOUTH DAKOTA
US-TN	TENNESSEE
US-TX	TEXAS
US-UT	UTAH
US-VT	VERMONT
US-VA	VIRGINIA
US-WA	WASHINGTON
US-WV	WEST VIRGINIA
US-WI	WISCONSIN
US-WY	WYOMING
US-AS	AMERICAN SAMOA

VALUE	CODE DESCRIPTION
US-GU	GUAM
US-MP	NORTHERN MARIANA ISLANDS
US-PR	PUERTO RICO
US-UM	UNITED STATES MINOR OUTLYING ISLANDS
US-VI	VIRGIN ISLANDS, U.S.

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8 BASIC SUBMISSION CONSTRUCTION

8.1 General Formatting of XML Files

The following rules apply to the submission file of an XML-format Form N-CEN submission:

1. The filename must end with an “.xml” extension.
2. The file cannot be compressed in any fashion.
3. We strongly recommend you format the submission as shown in the provided sample files. This makes the raw XML files easier to view in a text editor. The submission of ASCII XML files with no line breaks, while legal XML is strongly discouraged. XML filings are required to be posted on public websites. While usually formatted via style sheets, the raw XML is frequently available for inspection and should be readable by a person. A single line XML file is not viewer-friendly and should be avoided.
4. The `<?xml version="1.0"?>` declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space, will cause a SUSPENSE error. The version value must be “1.0”. Any other value for version will cause a SUSPENSE error.
5. For an XML element with a data value, keep the begin tag, data value, and end tag on the same line of text. Otherwise, you could get a schema violation error. As an example, for a filer ID value which cannot be longer than 10 characters, this specification is correct:

```
<cik>1212121212</cik>
```

6. The specification below will result in a parsing error because the extraneous white space and line feeds will be counted as part of the length of the data value. In other words, the CIK value will be regarded as longer than 10 characters.

```
<cik>  
1212121212  
</cik>
```

8.2 XML Submission File Rules

The following rules apply to the supporting document XML-format:

1. The `<?xml version="1.0"?>` declaration line is optional; however, if it is included it must be the first line in the file. Any text entered before this line, even white space, will cause an error. The version value must be “1.0”. Any other value for version will cause an error.
2. The XML elements cannot have any namespaces.
For e.g.: It has to be `<contactName>` and not `<ns1:contactName>`
3. The order of any `<notificationEmailAddress>` elements does not matter.
4. The submission file must conform to the XML schema files. Any violation of this schema will result in the suspension of the filing.

8.2.1 Enclosing a Document

1. Allowable file extensions are .pdf, .txt, .htm, .jpg, .xml and .gif.
2. The names of attached document files must follow the EDGAR file naming conventions:
 - File names cannot exceed 32 characters, including the file extension.
 - Valid characters are lowercase letters, digits 0-9, up to one underscore, up to one hyphen, and up to one period.
 - First character must be a letter.
 - Spaces are not allowed.
 - File name must have an allowable file extension.
3. The <description> is optional, but all other elements must be present and must have a value.
4. The <contents> element must contain a MIME encoded document. You can use any standard 64-character set based MIME encoding algorithm to create a MIME document.
5. The XML for an enclosed supporting document looks like this:

```
<documents>
  <document>
    < conformedName>test1.txt</ conformedName>
    < conformedDocumentType>????</ conformedDocumentType>
    < description> Description field text here... </ description>
    < contents> dGVzdGA= </ contents>
  </document>
  <document>
    < conformedName>test2.txt</ conformedName>
    < conformedDocumentType>????</ conformedDocumentType>
    < description> Description field text here... </ description>
    < contents> dGVzdGA= </ contents>
  </document>
</documents>
```

9 ERROR REPORTING

EDGAR will generate an error for each violation of an XML schema constraint, as well as for each violation of an N-CEN filing business rule. The schema files do not enforce all error checks, so it is possible to construct a submission that meets all the schema constraints yet is still SUSPENDED.

This table summarizes the errors that can result from violations of schema constraints and EDGAR business rules. This is not an all-inclusive list.

Table 9-1: Submission Errors and Severity

Error Condition	Severity
Elements not in sequence prescribed in Section 3.4	SUSPENDED
Inclusion of XML-styleSheet reference or any other Processing Instruction	SUSPENDED
Inclusion of an element not prescribed in the schema	SUSPENDED
String value exceeds maximum length constraint	SUSPENDED
Element constrained by a Choice List has an invalid value	SUSPENDED
Mandatory element has no value or an invalid value	SUSPENDED
Special character (&, <, >) not provided as escape sequence	SUSPENDED
Date, Boolean, or Decimal element does not have a value	SUSPENDED
Duplicate Notification Address	WARNING
“NA” or blank field has a value	WARNING
Invalid Issuer CIK	SUSPENDED
Improperly formatted email address	SUSPENDED
Exceeding a “Max Occur” limit from Section 3.4	SUSPENDED

You may sometimes get multiple error messages reporting the same error. The XML parser EDGAR used to process an N-CEN submission generates messages that are rather technical in nature and require an understanding of the XML schema language. Whenever possible, EDGAR generates a more “friendly” error message to give a precise description of the error.

Appendix A. ACRONYMS

Acronym	Description
ASCII	American Standard Code for Information Interchange
CCC	CIK Confirmation Code
CIK	Central Index Key
EDGAR	Electronic Data Gathering, Analysis, and Retrieval
PDF	Portable Document Format
SEC	Securities and Exchange Commission
XML	Extensible Markup Language
XBRL	eXtensible Business Reporting Language