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Regulatory Documents
DocHub API 3.1 Documentation for Supplier

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Table of revision

Version	Status	Name	Date	Description
0.1	Draft	Stephan Schaub	27.04.2016	Initial version, partial Input from ARIVA, DFI and DFI Germany.
0.2	Ready for Review	Stephan Schaub	24.05.2016	- Second data interface, divide metadata and content data. - Good commentary flows into the document.
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1.9	Small extensions	Stephan Schaub & André Steingruber	26.10.2017	- New Document Type 7 = Multi Option Products (MOP) style: Generic including KID. - New Document Type 8 = Multi Option Products (MOP) style: Generic plus supplements. - New Document Type 9 = Writers PRIIP KID.
1.10	Small extensions	Stephan Schaub	28.11.2017	- New InstrumentSchemeTypes 301, 302, 303. - Example of the new InstrumentID with the new InstrumentSchemeTypes. - New Type definition for Contract Side Type. - Remove Document Type 9 = Writers PRIIP KID.
1.11	Small extensions	André Steingruber	18.05.2018	- New Document Type 120 = Legal Publication - New Document Type 210 = Research
1.12	Small extensions	André Steingruber	23.11.2018	Metadata: - New attribute Sourcing Strategy Type

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1.13	Small extensions	André Steingruber	11. July 2019	- Additional Document Types 121 – 126 for FIDLEG / FINSA Regulation - Rename Document Type 5 Swiss BIB to FINSA KID
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2.0	skipped			- To be in line with the versions of API
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3.1	Additional Date Fields	Markus Hani	15.06.2023	- Added new columns -Valid From, Valid To & Record Date (marked in Blue)
3.1	Small Attribute Change	Markus Hani	15.06.2023	- Changed Instrument Identifiers to General Identifiers. - Changed Instrument scheme type to General scheme Type (marked in Blue)

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1. Overview

Distributors of financial products (typically wealth management firms and insurers) need various documents from the relevant issuers/manufacturers ("Document Suppliers") to distribute their financial products whilst complying with applicable laws and regulations. Document Suppliers can distribute their documents through DocHub or via third parties.
The document download platform "DocHub" provides distributors with a single interface through which various types of regulatory and marketing documents can be accessed, thereby reducing integration costs. All document downloads are logged for subsequent auditability requirements and the downloaded documents can optionally be archived.

1.1. Introduction SIX Regulatory Document Service DocHub

The following picture shows an overview of the dataflow and interfaces in the SIX Regulatory Document Service.

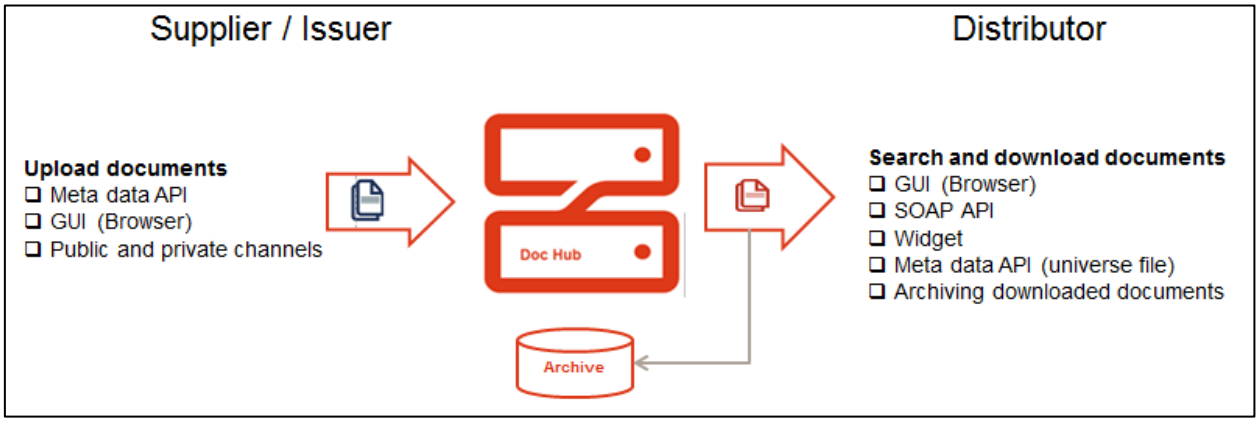

Figure 1: SIX Regulatory Document Service: Flow diagram

This document describes the API between the SIX DocHub and the 3rd Party Suppliers / Issuers. This API covers following Interface:

- The "**Metadata**" interface is for the delivery of the inventory of available documents and metadata to reference the documents. In order to request a document via direct link, the corresponding links have to be provided in the metadata file (attribute "URL").

Alternative the RegHub Manufacturer interface is available too. This allows delivery of document meta data and content data with new attributes and extensions of the file structures.

- Regulatory Hub Manufacturers Documentation

"**Pull document**" interfaces to be used by SIX to call documents from the issuers or 3rd Party Suppliers platform like HTTPS, SOAP or REST interfaces are not standard and has to be agreed between Supplier and SIX.

1.2. Accompanying documents

Additional information or other interfaces are described in the following documents, which are available in DocHub Member Area and Documentation Center.

- DocHub Attribute Tables
- DocHub Environments and Testing
- DocHub User Manual
- How to check your delivery on RegHub and DocHub
- DocHub User Manual Access to Frontdoor

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- RegHub Inbox Notification Quick Guide

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2. Attribute overview

The attributes in this API are divided into two categories:

- The **metadata** attributes can be delivered from the 3rd Party Supplier to SIX DocHub multiple times a day. This data is used to identify the documents available for distribution on SIX DocHub. This metadata is absolutely necessary for an integration of a 3rd Party Supplier on the SIX DocHub (API: Metadata.
- The **setup attributes** will be collected during the onboarding process of the 3rd Party Supplier. These are basic data, for example a user name and password for setting up the connection between the SIX DocHub and the 3rd Party Supplier.

2.1. Metadata attributes

Below all the attributes are described which can be sent within the metadata file. The explicit representation in the file format is shown in a later chapter.

No	Name	Type	Condition	Description and Rule
1	Modifier	String	Required	Describes the modification type of a metadata record: **S** = Static: In the full file delivery all records are marked as static. The full delivery provides a daily overview of all reachable documents from the SIX DocHub. **N** = New: New document with metadata is available. **M** = Modify: Changes in the metadata. **D** = Delete: The document is no longer available.
2	Last Update Timestamp	String	Required	This attribute provides the information when the metadata record was inserted or modified (yyyyMMdd_HHmmss_Szzzz).
3	General Identifiers	String (List, 1-n)	Required	A list of "General Scheme Type" and "General Identifiers". The format of the list is described as below. • List element: **General Scheme Type** + "=" + **f** • List separator: **"|"** A list example: • 1=CH0012345678|2=12345678 **Special case example:** In the case the "General Scheme Type" Is filled with "**302**", the "General Identifier" has to be enriched with the attribute separator "-" and the attribute "Contract Side Type". • Example 1 (Swiss Valorennumber and contract side long): Value: **302=94647315-1** • Example 2 (Swiss Valorennumber and contract side short): Value: **302=94647315-2**
4	Document Type	Integer	Required	Describes the business type of document.
5	Language	String	Required	Describes the language of the document. The values have to be according to **ISO 639-1** (**two letter code**). In lower case letters and the value **"u0"** for unknown.
6	Jurisdiction	String (List, 1-n)	See Rule	A list of countries in which the document is valid. The values have to be according to **ISO 3166-1** (**two letter code**) in capital letters and the value **"U0"** for not applicable or unknown. **Rule:** If "Document Type" (between 1 and 199) then → **Required** Else → **Optional**
7	MIME Type	Integer	Required	Describes the type of the document. In the first stage only PDF (application/pdf) documents are supported.

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8	URL	String	**See Rule** **(No 8 or no 13 are required)**	Describes the URL from where the document could be retrieved from. **Rule:** If “Supplier Document Id” is empty (Call document = REST Request or Direct Link) then → **Required** Else → **Not filled** (“URL” or “Supplier Document Id” has to be filled)
9	Generation Method Type	Integer	Required	Describes the method of the document generation (on the fly or produced in advance).
10	File size	Integer	See Rule	Size of the document in bytes. **Rule:** If “Generation Method Type” = 3 then → **Recommended** Else → **Optional**
11	Checksum	String	See Rule	Supplier generated checksum of the pre-generated document. The checksum is generated with the MD5. The result is a 32 - digit hexadecimal number. **Rule:** If “Generation Method Type” = 3 then → **Recommended** Else → **Optional**
12	Last Generation Timestamp	String	See Rule	Timestamp of the last generation of the pre-generated document (yyyyMMdd_HHmmss_Szzzz). **Rule:** If “Generation Method Type” = 3 then → **Recommended** Else → **Optional**
13	Supplier Document Id	String	**See Rule** **(No 8 or no 13 are required)**	Unique identification of the document from the view of the supplier. **Rule:** If “URL” is empty (Call document = SOAP Request) then → **Required** Else → **Not filled** (“URL” or “Supplier Document Id” has to be filled)
14	Issuer Identifiers	String (List, 1-n)	Optional	A list of “Institution Scheme Type” and “Institution Identifiers”.
15	Issuer Name	String	Optional	Name of the issuer of the instrument (If possible VDF institution long name).
16	Supplier Type 1	Integer	Optional	Additional supplier specific type number 1.
17	Supplier Type 2	Integer	Optional	Additional supplier specific type number 2.
18	Supplier Type 3	Integer	Optional	Additional supplier specific type number 3.
19	Supplier Type 4	Integer	Optional	Additional supplier specific type number 4.
20	Supplier Type 5	Integer	Optional	Additional supplier specific type number 5.
21	Supplier Type 6	Integer	Optional	Additional supplier specific type number 6.
22	Supplier Type 7	Integer	Optional	Additional supplier specific type number 7.
23	Supplier Type 8	Integer	Optional	Additional supplier specific type number 8.
24	Supplier Type 9	Integer	Optional	Additional supplier specific type number 9.
25	Supplier Type 10	Integer	Optional	Additional supplier specific type number 10.
26	Supplier Text 1	String	Optional	Additional supplier specific text number 1.

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27	Supplier Text 2	String	Optional	Additional supplier specific text number 2.
28	Supplier Text 3	String	Optional	Additional supplier specific text number 3.
29	Supplier Text 4	String	Optional	Additional supplier specific text number 4.
30	Supplier Text 5	String	Optional	Additional supplier specific text number 5.
31	Supplier Text 6	String	Optional	Additional supplier specific text number 6.
32	Supplier Text 7	String	Optional	Additional supplier specific text number 7.
33	Supplier Text 8	String	Optional	Additional supplier specific text number 8.
34	Supplier Text 9	String	Optional	Additional supplier specific text number 9.
35	Supplier Text 10	String	Optional	Additional supplier specific text number 10.
36	Distribution	String (List, 0-n)	See Rule	Possibility to define which distributor(s) should be able to receive a document. For example define that a document for a certain instrument (e.g. a private placements or an OTC instrument) should only be sent to a particular distributor. This distribution limitation can be achieved via this attribute. If no information is provided the document will be distributed to all DocHub clients (via the public channel). The supplier can choose from various options: • One or more clients of the DocHub direct, over their published identifiers (five-digit number, e.g. “12345”). The list of all available distributors and their identifiers will be published in the DocHub GUI (only visible for DocHub clients). • One or more predefined channels of the supplier by using the appropriate channel identifiers (Letter "C" and four-digit number, e.g. “C0002”). Each supplier can define his own channels via the DocHub GUI. • Or a combination of one or more client and channel identifiers. **Rule:** If “Distribution” is empty then → **The document will be available over the "public channel"** Else → **Transmitted value(s) is(are) used**
37	Publication Classification Type	Integer	See Rule	Describes the intended accessibility of a document on the distributor side (DocHub clients). Inform the distributor if he can/ should make the document of a certain instrument publicly available (e.g. on his website in a public area where no password is needed). This approval is only for displaying the document and the needed metadata (for more details see the DocHub API, Consolidated metadata). **Rule:** If “Publication Classification Type” is empty then → **Default value “0” (public) is used** Else → **Transmitted value is used** Please be aware, that SIX is not in a position, to verify this. Adherence to this rule will be included in the contracts. This information will be forwarded to the distributors via DocHub API (Consolidated metadata).
38	Sourcing Strategy Type	Integer	See Rule	Describes the Sourcing Strategy. Types are listed in the type definitions. **Rule:** If specific mapping rule is in place Mapping rule applies Else if Sourcing Strategy Type” is empty then → **Default value “99” (Sourcing strategy not defined) is used** Else → **Transmitted value is used**
39	Valid From	Date	Optional	Start date when the document is valid

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40	Valid To	Date	Optional	End date until the document is valid
41	Record Date	Date	Optional	Record date of the document

Table 1: Metadata attributes

2.2. Content data attributes

Attention: In DocHub no content data is processed. As a result, the chapter is deleted in this version. Please contact your SIX Onboarding Manager for the new documentation “SIX RegHub - RegHub API for Manufacturers” to deliver content data.

2.3. General Type definitions

These definitions have been moved to document “DocHub Attribute Tables”.
It is available at DocHub Member Area and Documentation Center.

- General Scheme Type
- Contract Side Type
- Document Type
- MIME Type
- Generation Method Type
- Institution Scheme Type
- Publication Classification Type
- Sourcing Strategy Type

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3. API between SIX DocHub and 3rd Party Suppliers

3.1. Filename convention for API Metadata

The 3rd Party Supplier should push the metadata in file form to the SIX DocHub. For unique identification a special naming convention of the files is established. The underline sign separates the elements. The filename is not case sensitive.
File names must be unique. A delivery of a file with a file name that was already sent before will be ignored.

Structure: **yyyyMMdd_HHmmss_Supplier_DataType_Delivery_InterfaceVersion_ SequenceNumber.File**
Example: 20160427_140522_CH12345_M_F_1_00001.csv

Element	Example	Description
yyyyMMdd	20160427	The date of the creation of the file: • **yyyy** = year • **MM** = month • **dd** = day
HHmmss	140522	The time of the creation of the file: • **HH** = hour • **mm** = minute • **ss** = second
Supplier	CH12345 CH12345-CH67890	The Supplier field identifies the sender of the metadata. In the onboarding phase the content of this string has to be defining between SIX and the 3rd Party Supplier (**Supplier** only). If a 3rd Party Supplier provide data from more then one issuer and the full file will be to big, there a possibility to group the files per issuer. Which means that the 3rd Party Supplier provide all the files with a concatination of two fields (Supplier/ hyphen/ **Main Issuer**). The Delivery (attribute below, full or delta) counts for all the records in the file.
DataType	M	The data type field shows if in the file are metadata • **M** = Metadata. • **T** = Type definition, full delivery only by changes **(not supported)**
Delivery	F	The delivery field offers the possibility to send periodically delta data. • **F** = Full delivery of all reachable documents. • **D** = Delta delivery since the last delivery.
InterfaceVersion	1	The interface version attribute identifies the version of the content description between the SIX DocHub and the 3rd Party Supplier.
SequenceNumber	00000	The sequence number is an ascending number. • **5-digit number**: The number needs to be reset every day and start again with 00000. To ensure the correct processing sequence the sequence number and date-time pattern in the file name are checked. A file is only processed if: • The sequence number is increased by one. • The timestamp is equal or higher. compared with the previously processed file. Alternatively, it is possible to use sequence number "**99999**" with every file. In this case, the processing sequence is only controlled based on the timestamp pattern of the file. In this special case SIX can't guarantee the correct processing order of files with the same date-time pattern or on race conditions when a file is delivered with delay and overtaken by the next one. There is no possibility to alert in case of missing files.
.File	.csv	The file extension according to the used file format: • **.csv** (comma-separated values) • **.xml** (Extensible Markup Language) • **.gz** (gzip file format)

Table 2: Structure of the filename

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3.2. Delivery technology for API Metadata

For the delivery of the metadata a file transfer is preferred. Alternatively the files can also be delivered via email. A production environment and test/integration environment for functional and non-functional testing are provided. All environments are accessed via the SIX Financial Information FrontDoor (see below). The permission to send metadata and content data files is controlled via entitlement. To avoid mistakes usually different user-accounts are setup for each environment. Membertest1 is intended for development and functional testing.

- Each 3rd Party Supplier will have its own **FrontDoor** account opened, where they can automatically upload their data via **FTP or SFTP**.
  - Production FrontDoor URL and directory:
    - Via Internet: ftpreghub.six-financial-information.com or sftpreghub.six-financial-information.com.
    - Via TK-Link/P2P: ftp.tkflink.com or sftp.tkflink.com.
    - Directory for upload: /3rd-party (→ to https://www.six-dochub.com)
  - Test/Integration FrontDoor URL and directory:
    - Via Internet: ftpreghubint.six-financial-information.com or sftpreghubint.six-financial-information.com.
    - Via TK-Link/P2P: ftpintegra.tkflink.com or sftpintegra.tkflink.com.
    - Directory for upload:
      - Membertest 1: /3rd-party_test (→to https://test.six-dochub.com)
- Furthermore, there is the possibility that the data can be delivered via **email**:
  - The subject of the email has to be formatted as follows: “Supplier”-“DataType”-“Delivery” (e.g. CH12345-M-D).
  - The metadata and/or content data file has to be attached to the email and has to follow the same naming pattern as described in the chapter before.
  - The email address for the different environments are:
    - Membertest 1: test.SIX-DocHub-Gateway@six-financial-information.com
    - Production: SIX-DocHub-Gateway@six-financial-information.com

3.3. General information for all used CSV files

General information on the CSV file:

Topic	Description
Column separation	“**;**” semicolon.
Encoding	The **encoding** used is UTF-8.
Escape character	The used **escape character** is “****”.
File end convention	All csv files end with the text “**end**” in the last row.
Multiple value separator	“**|**” pipe. Used when a list of attributes (List, 1-n) is required (e.g. Jurisdiction: CH|DE|AT).

Table 3: Further information on the CSV file

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3.4. API: Metadata

Three different files are in scope for defining the API metadata:

- **"Full" metadata file:** Each day a 3rd Party Supplier has to send a full file with all metadata for the reachable documents to the SIX DocHub. The expectation window of the full file delivery is between 03:00 and 06:00 UTC.
- **"Delta" metadata file:** During the day delta deliveries can be sent to update the information on the SIX DocHub system. So metadata can be changed, new documents introduced or deleted documents removed from the active list. The delta files contain only the changing records between the last sending file and the current time. The interval of the intraday file delivery has to be individually defined with each 3rd Party Supplier.
- Type definition file: **Not supported yet!** This file gives each supplier the opportunity to define his own specific types, i.e. metadata attributes 16-35 ("Supplier Type *", "Supplier Text *"). Every time the suppliers type definitions changes, the supplier has to deliver the full type definition file.

All three different files can either be sent in CSV or in XML format.

3.4.1. CSV format: Metadata file (version 1)

An example file can be found in appendix (Example metadata file (CSV Format)).

No	Name	CSV-Name	Type (length)	Example
1	Modifier	Mod	String (1)	N
2	Last Update Timestamp	LastUpdateTS	String (21)	20160617_091500_+0200
3	General Identifiers	GeneralIdentifiers	String (800) (List, 1-n)	Concatenation: "**General Scheme Type**" + "**=**" + "**Instrument ID**" Two examples: ● 2=12345678 ● **1=CH0012345678|2=12345678**
4	Document Type	DocumentType	Integer	1
5	Language	Language	String (2)	de
6	Jurisdiction	Jurisdiction	String (255) (List, 1-n)	Two examples. ● CH ● **DE|AT**
7	MIME Type	MIMEType	Integer	1
8	URL	URL	String (800)	http://www.3rdPartySupplier.ch/Here_should_stand_the_rest_of_a_URL
9	Generation Method Type	GenerationMethodType	Integer	1
10	File size	FileSize	Integer	
11	Checksum	Checksum	String (32)	
12	Last Generation Timestamp	LastGenerationTS	String (21)	
13	Supplier Document Id	SupplierDocumentId	String (32)	CH_123456789
14	Issuer Identifiers	IssuerIdentifiers	String (800) (List, 1-n)	Concatenation: "**Institution Scheme Type**" + "**=**" + "**Institution ID**" 1=876543210|2=888800ABCDEFGHIJKL00

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15	Issuer Name	IssuerName	String (128)	CH67890
16	Supplier Type 1	SupplierType1	Integer	1
17	Supplier Type 2	SupplierType2	Integer	7
18	Supplier Type 3	SupplierType3	Integer	
19	Supplier Type 4	SupplierType4	Integer	
20	Supplier Type 5	SupplierType5	Integer	
21	Supplier Type 6	SupplierType6	Integer	
22	Supplier Type 7	SupplierType7	Integer	
23	Supplier Type 8	SupplierType8	Integer	
24	Supplier Type 9	SupplierType9	Integer	
25	Supplier Type 10	SupplierType10	Integer	
26	Supplier Text 1	SupplierText1	String (255)	Team: EFGH
27	Supplier Text 2	SupplierText2	String (255)	Booking center: Switzerland
28	Supplier Text 3	SupplierText3	String (255)	
29	Supplier Text 4	SupplierText4	String (255)	
30	Supplier Text 5	SupplierText5	String (255)	
31	Supplier Text 6	SupplierText6	String (255)	
32	Supplier Text 7	SupplierText7	String (255)	
33	Supplier Text 8	SupplierText8	String (255)	
34	Supplier Text 9	SupplierText9	String (255)	
35	Supplier Text 10	SupplierText10	String (255)	
36	Distribution	Distribution	String (800) (List, 0-n)	12345|67890|C0002|C0006
37	Publication Classification Type	PublicationClassificationType	Integer	1
38	Sourcing Strategy Type	SourcingStrategyType	Integer	1
39	Valid From	Valid from	Date	YYYY-MM-DD
40	Valid To	Valid To	Date	YYYY-MM-DD
41	Record Date	Record Date	Date	YYYY-MM-DD

Table 4: Metadata file attributes in CSV format

3.4.2. CSV format: Type definition file (version 1)

An example file can be found in appendix (Example type definition file (CSV Format)).

No	Name	CSV-Name	Type (length)	Example
1	Supplier Type	SupplierType	String (30)	SupplierType1
2	Name	Name	String (50)	Financial Instrument Object Type
3	Description	Description	String (800)	The Financial Instrument Object Type describes the class of the instrument.
4	Type values	TypeValues	Integer (List, 1-n)	1|2|3|4|5
5	Type value descriptions	TypeValueDescriptions	String (800) (List, 1-n)	Stocks|Options|Bonds|Structuredproducts|Other
6	Language	Language	String (2)	en

Table 5: Type definition file in CSV format

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3.4.3. XML format: Metadata file (version 1)

The metadata file is encapsulated in XML with the hierarchical level "docList.documents".
An example file can be found in appendix (Example metadata file (XML Format)).

No	Name	XML-Name	Type (length)	Example
1	Modifier	document (mod)	String (1)	<document mod="N">
2	Last Update Timestamp	lastUpdateTS	String (21)	<lastUpdateTS>**20160617_091500_+0200**</lastUpdateTS>
3	General Identifiers	generalIdentifiers • id (schemeType)	(List, 1-n) • String (32), (Integer)	<generalIdentifiers> <id schemeType="1">**CH0012345678**</id> <id schemeType="2">**12345678**</id> </generalIdentifiers>
4	Document Type	documentType	Integer	<documentType>**1**</documentType>
5	Language	language	String (2)	<language>**de**</language>
6	Jurisdiction	jurisdictions • jurisdiction	(List, 1-n) • String (2)	<jurisdictions> <jurisdiction>**DE**</jurisdiction> <jurisdiction>**AT**</jurisdiction> </jurisdictions>
7	MIME Type	mimeType	Integer	<mimeType>**1**</mimeType>
8	URL	url	CDATA (800)	<url><![CDATA[http://www.3rdPartySupplier.ch/Here_should_stand_the_rest_of_a_URL]]></url>
9	Generation Method Type	generationMethodType	Integer	<generationMethodType>**1**</generationMethodType>
10	File size	fileSize	Integer	
11	Checksum	checksum	String (32)	
12	Last Generation Timestamp	lastGenerationTS	String (21)	
13	Supplier Document Id	supplierDocumentId	String (32)	<supplierDocumentId>**CH_123456789**</supplierDocumentId>
14	Issuer Identifiers	issuerIdentifiers • id (schemeType)	(List, 1-n) • String (32), (Integer)	<issuerIdentifiers> <id schemeType="1">**876543210**</id> <id schemeType="2">**888800ABCDEFGHIJKL00**</id> </issuerIdentifiers>
15	Issuer Name	issuerName	String (128)	<issuerName>**CH67890**</issuerName>
16 - 25	Supplier Type 1 - 10	supplierTypes • supplierType (id)	(List, 1-10) • String (14), Integer •	<supplierTypes> <supplierType id="**SupplierType1**">**1**</supplierType> <supplierType id="**SupplierType2**">**7**</supplierType> </supplierTypes>
26 - 35	Supplier Text 1 - 10	supplierTexts • supplierText (id)	(List, 1-10) • String (14), CDATA (255)	<supplierTexts> <supplierText id="**SupplierText1**"><![CDATA[Team: EFGH]]></supplierText> <supplierText id="**SupplierText2**"><![CDATA[Booking center: Switzerland]]></supplierText> </supplierTexts>

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36	Distribution	distributions • distribution	(List, 0-n) • String (5)	<distributions> <distribution>**12345**</distribution> <distribution>**67890**</distribution> <distribution>**C0002**</distribution> <distribution>**C0006**</distribution> </distributions>
37	Publication Classification Type	publicationClassificationType	Integer	<publicationClassificationType>**1**</publicationClassificationType>
38	Sourcing Strategy Type	sourcingStrategyType	Integer	<sourcingStrategyType>**1**</SourcingStrategyType>
39	Valid From	Valid from	Date	<sourcingStrategyType>YYYY-MM-DD</SourcingStrategyType>
40	Valid To	Valid To	Date	<sourcingStrategyType>YYYY-MM-DD</SourcingStrategyType>
41	Record Date	Record Date	Date	<sourcingStrategyType>YYYY-MM-DD</SourcingStrategyType>

Table 6: Metadata file attributes in XML format

3.4.4. XML format: Type definition file (version 1)

The type definition is encapsulated in XML with the hierarchical level "supplierTypes.supplierType". An example file can be found in appendix (Example type definition file (XML Format)).

No	Name	XML-Name (XML attribute)	Type (length)	Example
1	Supplier Type	id	String (30)	<id>**SupplierType1**</id>
2	Name	name	CDATA (50)	<name><![CDATA[Financial Instrument Object Type]]></name>
3	Description	description • item (lang)	(List, 1-n) • CDATA (800), (String (2))	<description> <item lang="**en**"><![CDATA[The Financial Instrument Object Type describes the class of the instrument.]]></item> </description>
4	Type value and description	types • type (value) • typeItem (lang)	(List, 1-n) • Integer • CDATA (128), (String (2)) (List, 1-n)	<types> <type value="**1**"> <typeItem lang="**en**"><![CDATA[Stocks]]></typeItem> </type> <type value="**2**"> <typeItem lang="**en**"><![CDATA[Options]]></typeItem> </type> <type value="**3**"> <typeItem lang="**en**"><![CDATA[Bonds]]></typeItem> </type> <type value="**4**"> <typeItem lang="**en**"><![CDATA[Structured products]]></typeItem> </type> <type value="**5**"> <typeItem lang="**en**"><![CDATA[Other]]></typeItem> </type> </types>

Table 7: Type definition file in XML format

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4. Appendix

4.1. Format of a timestamp attribute

The format of a timestamp attribute is structured as follows:

Format of timestamp	Description
yyyyMMdd_HHmmss_Szzzz	**yyyy** = year **MM** = month **dd** = day **HH** = hours **mm** = minutes **ss** = seconds **S** = sign **zzzz** = time zone regions with standard offset from UTC Examples: 20160601_121514_+0200 = 2016-06-01 12:15:14 +02:00 20160615_164501_-0800 = 2016-06-15 16:45:01 -08:00

Table 8: Format of a timestamp attribute

4.2. Example metadata file (CSV Format)

The following two examples highlight how the mechanism works between the metadata file and the definition file.

- **Green:**
  - **Metadata:** Document language = de & SupplierType1 = **1**
  - **Type definition:** SupplierType1 = Financial Instrument Object Type, with the value 1 means **Aktien**.
- **Blue:**
  - **Metadata:** Document language = de & SupplierType2 = **7**
  - **Type definition:** SupplierType2 = Main Trading Region Type, with the value 7 means **Antaktis**.

```
Mod;LastUpdateTS;InstrumentIdentifiers;DocumentType;Language;Jurisdiction;MIMEType;URL;GenerationMethodType;FileSize;Checksum;LastGenerationTS;SupplierDocumentId;IssuerIdentifiers;IssuerName;SupplierType1;SupplierType2;SupplierType3;SupplierType4;SupplierType5;SupplierType6;SupplierType7;SupplierType8;SupplierType9;SupplierType10;SupplierText1;SupplierText2;SupplierText3;SupplierText4;SupplierText5;SupplierText6;SupplierText7;SupplierText8;SupplierText9;SupplierText10;Distribution;PublicationClassificationType;SourcingStrategyType
N;20160617_091500_+0200;1=CH0012345678|2=12345678;1;de;DE|AT;1;http://www.3rdPartySupplier.ch/Here_should_stand_the_rest_of_a_URL;1;;;;CH_123456789;1=876543210|2=888800ABCDEFGHIJKL00;CH67890;1;7;;;;;;;;;Team: EFGH;Booking center: Switzerland;;;;;;;;;12345|67890|C0002|C0006;1;1
end
```

Figure 2: Example of a metadata file in CSV format

4.3. Example type definition file (CSV Format)

```
SupplierType;Name;Description;TypeValues;TypeValueDescriptions;Language
SupplierType1;Financial Instrument Object Type;The Financial Instrument Object Type describes the class of the instrument.;1|2|3|4|5;Stocks|Options|Bonds|Structured products|Other;en
SupplierType1;Financial Instrument Object Type;Der Financial Instrument Objekttyp beschreibt die Klasse des Instruments.;1|2|3|4|5;Aktien|Optionen|Obligationen|Strukturierte Produkte|Andere;de
```


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```
SupplierType2;Main Trading Region Type;The Main Trading Region Type describes the region where the instrument has the most trading activity.;1|2|3|4|5|6|7;Europe|Asia|North America|South America|Africa|Australia|Antarctica;en
SupplierType2;Main Trading Region Type;Der Haupthandelsregion Typ beschreibt die Region, wo das Instrument am meisten Handelsaktivitäten hat.;1|2|3|4|5|6|7;Europa|Asien|Nord-Amerika|Süd-Amerika|Afrika|Australien|Antarktis;de
end
```

Figure 3: Example of a type definition file in CSV format

4.4. Example metadata file (XML Format)

```
<?xml version="1.0" encoding="UTF-8"?>
<docList>
  <documents>
    <document mod="N">
      <lastUpdateTS>20160617_091500_+0200</lastUpdateTS>
      <generalIdentifiers>
        <id schemeType="1">CH0012345678</id>
        <id schemeType="2">12345678</id>
      </generalIdentifiers>
      <documentType>1</documentType>
      <language>de</language>
      <jurisdictions>
        <jurisdiction>DE</jurisdiction>
        <jurisdiction>AT</jurisdiction>
      </jurisdictions>
      <mimeType>1</mimeType>
      <url><![CDATA[http://www.3rdPartySupplier.ch/Here_should_stand_the_rest_of_a_URL]]></url>
      <generationMethodType>1</generationMethodType>
      <supplierDocumentId>CH_123456789</supplierDocumentId>
      <issuerIdentifiers>
        <id schemeType="1">876543210</id>
        <id schemeType="2">888800ABCDEFGHIJKL00</id>
      </issuerIdentifiers>
      <issuerName>CH67890</issuerName>
      <supplierTypes>
        <supplierType id="SupplierType1">1</supplierType>
        <supplierType id="SupplierType2">7</supplierType>
      </supplierTypes>
      <supplierTexts>
        <supplierText id="SupplierText1"><![CDATA[Team: EFGH]]></supplierText>
        <supplierText id="SupplierText2"><![CDATA[Booking center: Switzerland]]></supplierText>
      </supplierTexts>
      <distributions>
        <distribution>12345</distribution>
        <distribution>67890</distribution>
        <distribution>C0002</distribution>
        <distribution>C0006</distribution>
      </distributions>
      <publicationClassificationType>1</publicationClassificationType>
      <sourcingStrategyType>1</sourcingStrategyType>
    </document>
  </documents>
</docList>
```

Figure 4: Example of a metadata file in XML format

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4.5. Example type definition file (XML Format)

```
<?xml version="1.0" encoding="UTF-8"?>
<supplierTypes>
  <supplierType>
    <id>SupplierType1</id>
    <name><![CDATA[Financial Instrument Object Type]]></name>
    <description>
      <item lang="en"><![CDATA[The Financial Instrument Object Type describes the class of the
instrument.]]></item>
      <item lang="de"><![CDATA[Der Financial Instrument Objekttyp beschreibt die Klasse des
Instruments.]]></item>
    </description>
    <types>
      <type value="1">
        <typeItem lang="en"><![CDATA[Stocks]]></typeItem>
        <typeItem lang="de"><![CDATA[Aktien]]></typeItem>
      </type>
      <type value="2">
        <typeItem lang="en"><![CDATA[Options]]></typeItem>
        <typeItem lang="de"><![CDATA[Optionen]]></typeItem>
      </type>
      <type value="3">
        <typeItem lang="en"><![CDATA[Bonds]]></typeItem>
        <typeItem lang="de"><![CDATA[Obligationen]]></typeItem>
      </type>
      <type value="4">
        <typeItem lang="en"><![CDATA[Structured products]]></typeItem>
        <typeItem lang="de"><![CDATA[Strukturierte Produkte]]></typeItem>
      </type>
      <type value="5">
        <typeItem lang="en"><![CDATA[Other]]></typeItem>
        <typeItem lang="de"><![CDATA[Andere]]></typeItem>
      </type>
    </types>
  </supplierType>
  <supplierType>
    <id>SupplierType2</id>
    <name><![CDATA[Main Trading Region Type]]></name>
    <description>
      <item lang="en"><![CDATA[The Main Trading Region Type describes the region where the instrument has the
most trading activity.]]></item>
      <item lang="de"><![CDATA[Der Haupthandelsregion Typ beschreibt die Region wo das Instrument am meisten
Handelsaktivitäten hat.]]></item>
    </description>
    <types>
      <type value="1">
        <typeItem lang="en"><![CDATA[Europe]]></typeItem>
        <typeItem lang="de"><![CDATA[Europa]]></typeItem>
      </type>
      <type value="2">
        <typeItem lang="en"><![CDATA[Asia]]></typeItem>
        <typeItem lang="de"><![CDATA[Asien]]></typeItem>
      </type>
      <type value="3">
        <typeItem lang="en"><![CDATA[North America]]></typeItem>
        <typeItem lang="de"><![CDATA[Nord-Amerika]]></typeItem>
      </type>
      <type value="4">
        <typeItem lang="en"><![CDATA[South America]]></typeItem>
        <typeItem lang="de"><![CDATA[Süd-Amerika]]></typeItem>
      </type>
      <type value="5">
        <typeItem lang="en"><![CDATA[Africa]]></typeItem>
        <typeItem lang="de"><![CDATA[Afrika]]></typeItem>
```


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```
      </type>
      <type value="6">
        <typeItem lang="en"><![CDATA[Australia]]></typeItem>
        <typeItem lang="de"><![CDATA[Australien]]></typeItem>
      </type>
      <type value="7">
        <typeItem lang="en"><![CDATA[Antarctica]]></typeItem>
        <typeItem lang="de"><![CDATA[Antarktis]]></typeItem>
      </type>
    </types>
  </supplierType>
</supplierTypes>
```

Figure 5: Example of a type definition file in XML format

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