

Bulk order upload (bulk format)

To optimize the process of uploading a large number of orders the Web-client uses bulk format. This format also allows:

- converting multiple registration orders in FpML format into one bulk format file;
- convert bulk format files into several FpML orders.

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Bulk format description

The bulk format file is generated according to the rules provided in the Bulk format reference.

Download links

Bulk format v.12 on June 10, 2019 – XSD schema version 4.4

Bulk format v.11* on November 15, 2016 (examples) – XSD schema version 4.4

Bulk format v.10* on June 23, 2016 (examples) – XSD schema version 4.2

Field number	Field	Description	min	max	Value type	ISDA values	NSD values	Coding scheme	xpath
1	<header>	Message header.	1	1					nonpublicExecutionReport/hea
3	<messageId>	Message identifier	1	1	String, see links			messageIdScheme	nonpublicExecutionReport/hea
4	<sentBy>	Message sender	1	1	Sender's repository code				nonpublicExecutionReport/hea
5	<sendTo>	Message receiver	0	1	Receiver's repository code				nonpublicExecutionReport/hea
6	<creationTimestamp>	Message creation time	0	1	Date				nonpublicExecutionReport/hea
7	<isCorrection>	Correction message mark	0	1	true/false				nonpublicExecutionReport/isco
8	<parentCorrelationId>	Related document form identifier	0	1	String, see links			correlationIdScheme	nonpublicExecutionReport/pars
9	<correlationId>	Messages chain identifier	1	1	String, see links			correlationIdScheme	nonpublicExecutionReport/corr
10	<asOfDate>	Event's actual date	1	1	Date				nonpublicExecutionReport/asOf
11	<tradeHeader>	Trade/Master agreement general information.	1	1					nonpublicExecutionReport/trad
12	<linkId>	Master agreement identifier	1	1	String, see links			linkIdScheme	nonpublicExecutionReport/trad
13	<tradeId>	Trade identifier in terms of party 1	1	1	String				nonpublicExecutionReport/trad
14	<tradeId>	Trade identifier in terms of party 2	1	1	String				nonpublicExecutionReport/trad
15	<tradeDate>	Trade date.	1	1	Date				nonpublicExecutionReport/trad
16	<clearedDate>	Cleared date.	0	1	Date				nonpublicExecutionReport/trad
17	<documentation>	Definitions and Master Agreement.	0	1					nonpublicExecutionReport/trad
18	<attachment>	Attachment.	0	1					nonpublicExecutionReport/trad
19	<name>	The name of the scan file	1	1	String				nonpublicExecutionReport/trad
20	<nsdSpecificTradeFields>	Specific regulatory trade attributes.	1	1					nonpublicExecutionReport/trad
21	<reconciliationType>	Trade parameters reconciliation type.	1	1					nonpublicExecutionReport/trad
22	<clearSettlementType>	Settlement type.	1	1	String, see links			clearSettlementTypeScheme	nonpublicExecutionReport/trad
23	<clearSettlementMethod>	Settlement method.	1	1	String, see links			clearSettlementMethodScheme	nonpublicExecutionReport/trad
24	<regulatoryStatus>	Transaction regulatory class.	0	1	String, see links			regulatoryAdviceScheme	nonpublicExecutionReport/trad
25	<clearingOrganizationCode>	Clearing organization code.	0	1	String				nonpublicExecutionReport/trad
26	<clearingCentralCounterpartyCode>	Central counterparty code.	0	1	String				nonpublicExecutionReport/trad
27	<startAgreementDate>	Agreement start date.	0	1	Date				nonpublicExecutionReport/trad
28	<endAgreementDate>	Agreement end date.	0	1	Date				nonpublicExecutionReport/trad
29	<productSpecificCodes>	Financial instruments classification codes.	0	1					nonpublicExecutionReport/trad
30	<productGeneralCodes>	Product general classification codes.	0	1					nonpublicExecutionReport/trad
31	Repeating block								
32	Repetition								

Figure 1 – bulk format reference

Highlighted are:

- – required field;
- – optional field;
- – repeating block/end of the repeating block. Depending on the color of strings that it contains it may be required and optional;
- – start/end of repeat, there can be multiple repeats;

- start/end of choice, there can be multiple choices;
- start/end of the thread, it is necessary to choose only one thread for filling out in the Choice block.

Reference (see Fig. 1) includes a page with information on general fields contained in transactions for all types of products, and pages with information about the specific product fields. Indicated on each page are:

- field number – the number is specified only for rows that have values;
- field – field name;
- description – value explanation;
- min – the minimum number of field repeats. If the value is 0 – the field is not required, if 1 - required;
- max – the maximum number of field repeats. If more repeats are necessary than specified in the reference, please contact IT Global technical support;
- value type – the type of data that the field contains: date, string, code, etc.;
- ISDA Ref. – source of data for filling out, an active link;
- NSD Ref. – source of data for filling out, an active link;
- Ext. ref. attribute – additional conversion parameter, provided in informational purposes;
- xpath – additional conversion parameter, provided in informational purposes.

Requirements for creating a bulk format file

In the bulk-format file each string is a separate order, and each column is the format field number (Fig. 2).

	1	2	3	4	5	7	8	7	8	9	10	11	12	15	12	13	14	15	16	17	18	19	20	21	18	19	20	38	21
1																													
2	WEBeea3	VR0EPAM	2013-11-2	false		[VR0EPAM	#####	MA000001	NONREF	NONREF	#####	FULL	OTC	D	Derivative	NDC00000	NDC00000	#####	#####	NDC00000	HKO								
3	UAT_Repc	VR0EPAM	2013-12-0	false		VR0EPAM	#####	MA00000C	1,46E+08	NONREF	#####		GENF	OTC	DC	Repo					#####	#####							
4	UAT_Repc	VR0EPAM	2013-12-0	false		VR0EPAM	#####	MA00000C	1,46E+08	NONREF	#####		GENF	OTC	DC	Repo					#####	#####							
5	UAT_Repc	VR0EPAM	2013-12-0	false		VR0EPAM	#####	MA00000C	1,46E+08	NONREF	#####		GENF	OTC	DC	Repo					#####	#####							
6	UAT_Repc	VR0EPAM	2013-12-0	false		VR0EPAM	#####	MA00000C	1,46E+08	NONREF	#####		GENF	OTC	DC	Repo					#####	#####							
7																													
8																													
9																													

Figure 2 – CSV bulk file format

To correctly upload orders to Web-client in bulk format and convert them into FpML, the file should be generated in accordance with the following requirements:

- CSV file name requirements:
 - filename must be formed based on a mask: [Product type]_v[Format version]_[any string].csv (for example: fx DigitalOption_v1_CsvBulkTest.csv);
- CSV file content requirements:
 - the ";" delimiter is used;
 - file can start with string "sep=;" it is necessary for the correct display of the table in MS Excel, regardless of the MS Office localization settings.
- file may contain only one type of transactions;
- the recommended number of fills (strings in the file) is not more than 250;
- order and numbers of columns in the file bulk format must match the field number specified in the CSV bulk format reference (see Fig. 1);

For example, if the field <specificCode> is indicated under number 33, and the field <code> under number 34, in the table they should go under the same number and in the same order. If the transaction does not contain information on the field, the column is left blank. If neither transaction contains a field, the corresponding column is not added to the file at all.

- to conveniently fill out the table above the string with column numbers, the user can optionally add a string with column names (Fig. 3). There are no requirements to the names, the user indicates then at his sole discretion;

	1	2	3	4	5	6
1	Name	Sender	Receiver	Trade date		
2	1	2	3	4	5	7
3	WEB9eb26	VROITGLO	NDC00000	2014-04-2	false	[VROITGLO
4						

Figure 3 – CSV bulk file format, rules of generation

- if the CSV bulk format reference specifies two sources of data for filling ISDA Ref. and NSD Ref., the priority is given to NSD Ref.

It is not recommended to edit the CSV file via MS Excel, because of the automatic data conversion while saving the file, such as date conversion, number conversion and so on. This might result in error while importing the file into the Web-client.

Download links

[Bulk format examples v.11 on November 15, 2016](#)

[Bulk format examples v.10 on May 30, 2016](#)

Bulk download of orders

The bulk format file can be downloaded from [Drafts](#). Detailed instructions on how to upload orders to the Web-client are provided in the [Import](#) section. At importing a bulk format is automatically converted into FpML. All orders contained in the table format, will be displayed in the Drafts form (Fig. 4).

Import a draft

Upload files with outgoing messages in FpML format, NSD old format (*.xml), and tabular formats CSV, XLS, DBF (*.zip). Files in non-FpML formats will be converted to FpML. You can upload ZIP-archives that contain the files listed and ZIP-archives.

- ▼ bondForward_v1_CsvBulk_2014-05-15.csv
- ▼ bondForward_v1_CsvBulk_2014-05-15_1.xml
- ▼ bondForward_v1_CsvBulk_2014-05-15_2.xml
- ▼ bondForward_v1_CsvBulk_2014-05-15_4.xml

[Upload...](#) [Close](#)

→

NSD trade repository Dashboard / Documents preparation / Drafts

Documents preparation Drafts

Draft name	Form	Last changed
bondForward_v1_CsvBulk_2014-05-15_4.xml	CM043	2014-05-30 09:46
bondForward_v1_CsvBulk_2014-05-15_2.xml	CM043	2014-05-30 09:46
bondForward_v1_CsvBulk_2014-05-15_1.xml	CM043	2014-05-30 09:46

Total: 40

Figure 4 – importing drafts

If one of the orders could not be converted, an error will be displayed in the Import draft window next to the order. This order will not be loaded to the Web-client.

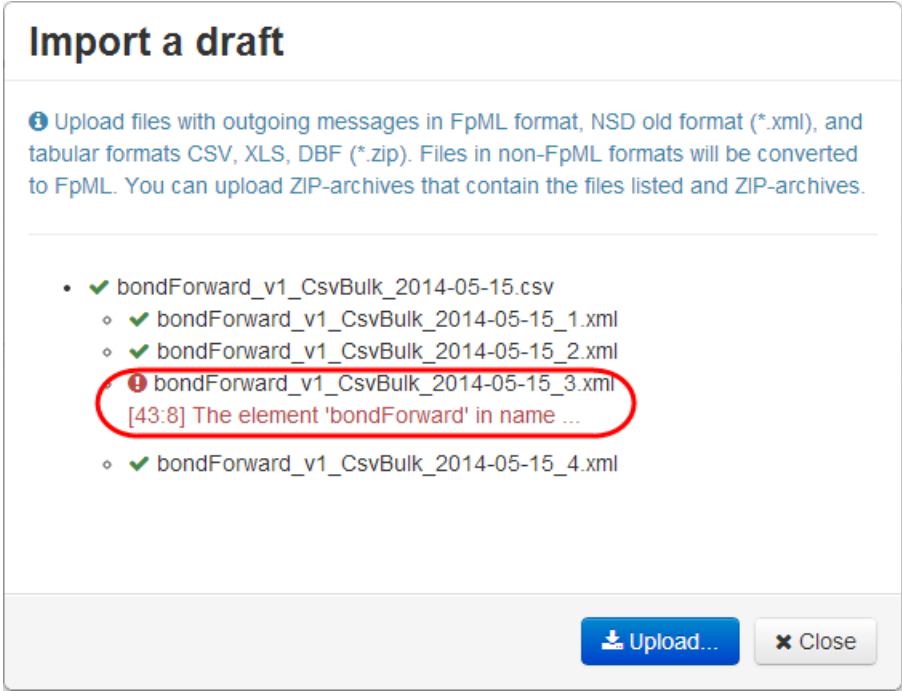


Figure 5 – conversion error

Bulk conversion of orders

The Web-client offers the following methods of converting bulk format files:

1. from bulk format to the FpML format;
2. from format FpML to bulk format.

The result of the first conversion method is multiple files (Fig. 6), which can be downloaded, printed or transferred to Drafts.

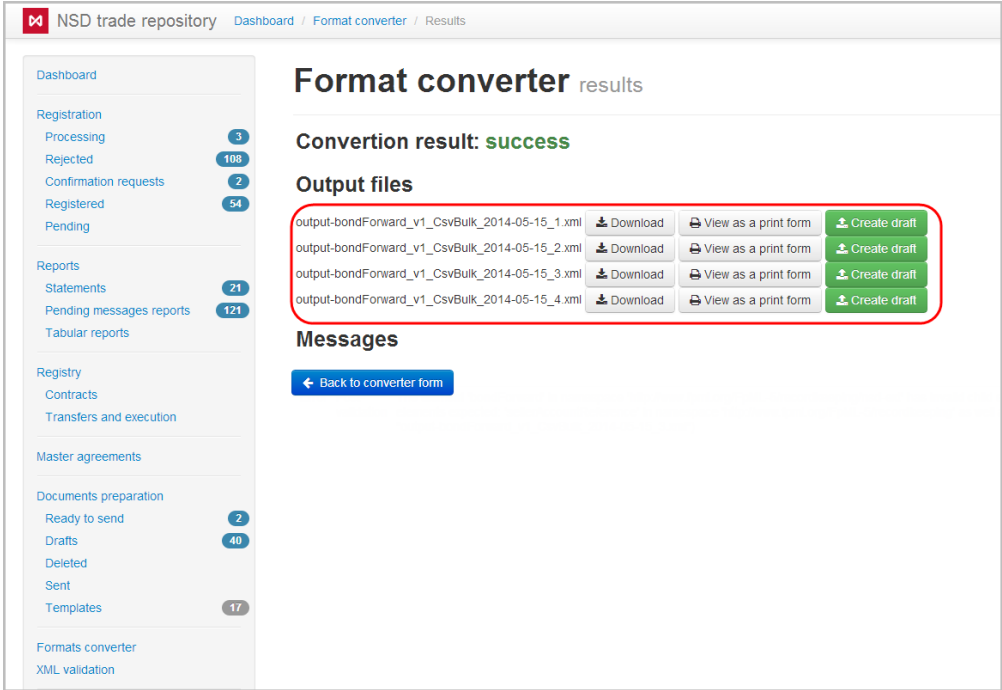


Figure 6 – result of converting from CSV bulk to the FpML format

The result of reverse conversion is shown in Figure 7. The resulting file can be downloaded.

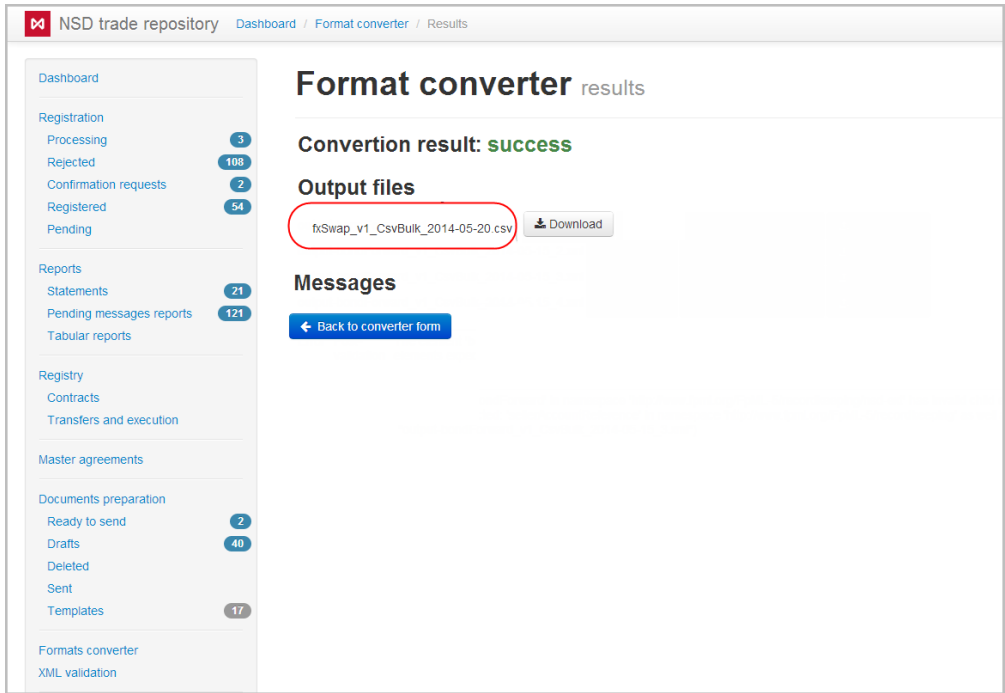


Figure 7 – conversion result

At opening the user will be displayed an excel table containing all orders (Fig. 8).

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	2	4	5	7	8	9	10	11	12	15	16	17	18	19	20
2	WEB0654k	VR0EPAM	2013-11-2	false	[VR0EPAM	#####	MA000001	NONREF	NONREF	#####	GENF	CS	DC	Derivative	NDC00000	NDC00000
3	WEB0654k	VR0EPAM	2013-11-2	false	[VR0EPAM	#####	MA000001	NONREF	NONREF	#####	GENF	CS	DC	Derivative	NDC00000	NDC00000
4	WEB0654k	VR0EPAM	2013-11-2	false	[VR0EPAM	#####	MA000001	NONREF	NONREF	#####	GENF	CS	DC	Derivative	NDC00000	NDC00000

Figure 8 – excel table containing all orders

This way the original order data:

```

<messageId
messageIdScheme="http://repository.nsd.ru/coding-scheme/messageid(nsdrus)">WE
Be33338edb7f947c49a61997553d7a4b5</messageId>
<sentBy>VR0ITGLOBAL1</sentBy>
<sendTo>NDC000000000</sendTo>
<creationTimestamp>2013-11-14T15:41:39</creationTimestamp>

```

were converted into tabular data:

1	2	3	4
WEBe33338edb7f947c49a61997553d7a4b45	VR0ITGLOBAL1	NDC000000000	2013-11-14T15:41:39