

# Exporting Instalment Plans in UFX Format

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## Introduction

WAY4™ can export instalment plans created for contracts in the WAY4 Instalments module to the bank system. Plans are exported in XML format.

Instalment plans are exported by the "Instalment Plans Export" pipe (com.openwaygroup.pipe.inst\_plan\_export.jar).

## Chapter 1. Overview

The "Instalment Plans Export" pipe can export instalment plans in two modes:

- Full export, when all instalment plan data are exported. This mode is enabled by the "ALL" value of the EXPORT\_MODE pipe parameter. This mode is used for initial export, when migrating data, or if instalment plan data were lost in the recipient system.
- Export of changes. This mode is enabled by the "DIFF" value of the EXPORT\_MODE pipe parameter.



It is recommended to use "DIFF" mode, since export in "ALL" mode may take a significant amount of time due to the large volume of exported data.

The "DIFF" mode requires additional setup. To enable the mode for gathering data on changes in instalment plans, set one of the following values for the INST\_EXPORT\_GROUPING parameter ("Full → Configuration Setup → Main Tables → Additional Global Parameters"; see the section "INST\_EXPORT\_GROUPING" of the document "WAY4 Global Parameters"):

- "BANK\_CODE" – information on changes to instalment plans will be gathered separately for each Bank Code identifier of an institution.
- "BRANCH\_CODE" – information on changes in instalment plans will be gathered for each Branch Code identifier of an institution.



Note that the "BANK\_CODE" or "BRANCH\_CODE" value, not the institution's actual code (for example, 0001), is set as the INST\_EXPORT\_GROUPING parameter value.

The "Instalments → Instalment Plans Export" user menu item is used to start the "Instalment Plans Export" pipe.

Information about messages, including error messages generated by WAY4 when importing and exporting files can be obtained using the "Process Log" grid form accessed by selecting the menu item "Full → Process Log → Process Log".

## Chapter 2. "Instalment Plans Export" Pipe Parameters

Parameter	Value	Parameter description
OUTPUT_DIRECTORY		Outgoing file directory. Default value: @INTERCHANGE_PATH@WAY4_OUT It is not recommended to change this value.
SUB_DIR		Outgoing file subdirectory. By default, no value is set. This parameter can be used to set up file export by different menu items to different subdirectories. Example. <b>Menu item1</b> OUTPUT_DIRECTORY=C:\work\files SUB_DIR=\filter1\ <b>Menu item2</b> OUTPUT_DIRECTORY=C:\work\files SUB_DIR=\filter2\
EXPORT_MODE	"ALL" "DIFF"	This parameter sets export mode: <ul style="list-style-type: none"> <li>"ALL" – full export when all instalment plan data are exported.</li> <li>"DIFF" – export changes (this export mode is recommended).</li> </ul> For more information, see the section "Overview".
INCLUDE_CONTRACT_IDT	"Y"/"N"	By default, the parameter is assigned the "N" value and only the Contract ID of the contract to which the instalment plan belongs is exported. To export the contract number, set the value of this parameter to "Y". The default value of the parameter is "N". Note that setting the value to "Y" may slow down the process of generating a file in "DIFF" mode.
XML_VALIDATION	"Y"/"N"	When the parameter value is set to "N", the outgoing XML file will not be checked for correspondence to the XSD schema, making it possible to slightly speed up the file generation process. The default value of the parameter is "Y".
XML_INDENTATION	"Y"/"N"	When the parameter value is set to "N", the outgoing XML file will not contain indents, making it possible to slightly speed up the file generation process. The default value of the parameter is "Y".
RECEIVER	Recipient code	Recipient code. Part of the outgoing file name (see File name format). By default, the parameter is not set.

Parameter	Value	Parameter description
FLUSH_INTERVAL	Positive integer	The default value of the parameter is "100". Period measured in the number of records generated after which the XML generated is exported to a file.
SENDER	Sender code	Part of the outgoing file name (see File name format). By default, the parameter is not set. By default, data are exported with differentiation by institutions; the "Sender" field in the file name is filled in automatically with the code of the financial institution for which export was performed.
NUMBER_OF_RECORDS_PER_FILE	Positive integer	This parameter makes it possible to limit the number of records in one file. By default, plans for one institution are exported in one file. This parameter can be used when exporting a large volume of data. It is strongly recommended to set this parameter to decrease the volume of exported files. By default, the parameter is not set.
FILE_NAME_EXT	Arbitrary value	The value is used to add information to a file name (see File name format). By default, the parameter is not set.
CREATE_EMPTY_FILES	"Y" "N"	If the parameter value is "Y", for each financial institution that was not used in export (no data for export), a file is created with an empty list, containing only a file header and trailer. The default value is "N".
EXPORT_ALL_FILTER	SQL WHERE clause	Custom filter to select contracts or plans for which instalment plans will be exported in "ALL" mode.
EXPORT_DIFF_FILTER	SQL WHERE clause	Custom filter to select contracts or plans for which instalment plans will be exported in "DIFF" mode.
EXPORT_INVOICE_TAGS	"ALL" "Y" <comma-delimited list of tags >	<p>Parameter for setting up export of tags from the <i>Posting Details</i> field of an instalment plan (from the <i>posting_details</i> field of the <i>INVOICE_LOG</i> table).</p> <ul style="list-style-type: none"> <li>When the value is "ALL" or "Y", all tags from the <i>Posting Details</i> field are exported.</li> <li>If the parameter value is a specific tag or comma-delimited list of tags, only the specified tags will be exported (if they are present).</li> </ul> <p>Note the setup of the global parameter <i>INV_INHERIT_LIST</i>, which enables the mode for inheriting tags from a document's <i>Add Info</i> and <i>Service Details</i> field to an instalment plan's <i>Posting Details</i> field.</p>

## Chapter 3. File Format

Files are created in XML format. All aggregates and simple fields are XML elements. The top element must be named "InstalmentFile".

Data types:

- **C-xx** – text field. Contain any printable characters; the maximum field length is **xx**.
- **Integer** – whole number.

An xsd schema describes file format.

An example of an xsd schema is shown in figure Fig. 1.

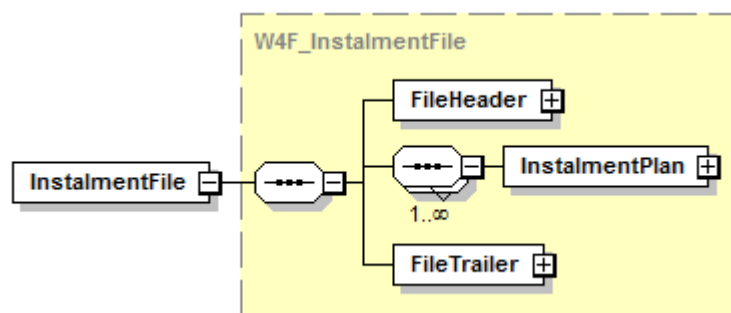

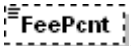
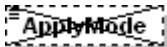




Fig. 1. Graphical representation of file format

This graphical representation uses the following notation:

- Mandatory structural elements are shown as solid-line rectangles .
- Optional elements are shown as dotted-line rectangles .
- Elements reserved for forward compatibility are shown as crossed-out rectangles .

The  symbol indicates that all elements it connects must be included in the higher-ranking element in exactly the same sequence as they are shown in the schema.

The  symbol indicates that the higher-ranking element contain one of the elements connected with this symbol.

Each element of the schema contains a hyperlink to its description.

"Any" type elements contain XML structure whose format is not determined.

The X...Y symbols next to an element mean that it can contain from X to Y sub-elements, and "□" means that the number of sub-elements is unlimited.

File name format:

No	Field	Format	Comments
1.	Sender		File sender code (code of the institution for which instalment plans are being exported).

No	Field	Format	Comments
1.	Receiver		File recipient code. The value is set by the RECEIVER pipe parameter.
2.	Creation Date	yyyy-MM-dd	File creation date (export date).
3.	FileNumber		File sequence number for the current date and institution.
4.	FileNameExt		Set using the FILE_NAME_EXT pipe parameter.

File schema see in the xml\_instalment\_schema.chm file.