



Operation Manual

Exporting and Importing Tariffs in UFX Format

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WAY4™ makes it possible to export tariffs (their domain structure and numeric data) and save them to files in UFX (Universal Financial eXchange) format. It is also possible to import tariffs from files in UFX format to the Cards database.

When working with this document, it is recommended to refer to the document "Tariff Management in WAY4" from the OpenWay documentation series.

The following notation is used in the document:

- Field labels in screen forms are shown in *italics*.
- Key combinations are shown in angular brackets, for example, <Ctrl>+<F3>.
- Names of screen form buttons and tabs are shown in square brackets, for example, [Approve].
- Sequences for selecting user menu items or context menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".
- Sequences for selecting system menu items are shown using arrows as follows: Database => Change password.
- Variables that differ for each local instance, such as directory and file names, as well as file paths are shown in angular brackets, as in <OWS_HOME>.

Warnings and information are marked as follows:



Warnings about potentially hazardous situations or actions.



Messages with information about important features, additional options, or the best use of certain system functions.

1. Pipe use

The "tariff_export" and "tariff_import" pipes are used, respectively, to export and import tariff data and domain structure to the Cards database.

This functionality can be used to copy tariffs and their structures between Cards instances; for example between a test instance and a production one.

For more information about tariffs, see the document "Tariff Management in WAY4".

2. Tariff export pipe parameters

The following parameters can be used for the "tariff_export" pipe (menu item "Tariffs → Tariff Export and Import → Tariff Structure and Data Export&Import → Tariff Structure and Data Export"):

- "EXPORT_DATA_DIRECTORY" – outgoing directory. The default value in the standard menu item is "@RBS_INTERCHANGE_DIR@\\out", where by default "@RBS_INTERCHANGE_DIR@" is "<OWS_WORK>\\data\\rbs".
- "XML_SCHEMA_URL" – path to the XSD schema to check the file being exported. This parameter is optional, if it is not set "<OWS_HOMES>/client/shared/pipes/xsd/OffLine/WAY4TariffDomainFile.xsd" is used.
- "CUSTOM_PREFIX" – custom prefix for the name of the file being exported. This parameter is optional, for more information, see the section ["File format \(Tariff Interchange\)"](#).
- "LAYOUT_BY" – TARIFF_DOMAIN table fields for grouping export. If this parameter is set, records being exported will be grouped into different files according to a specific field. Each file will be put into a separate subdirectory whose name is determined by the value of the specified field for the domain being exported. This parameter is optional. By default (the parameter is not set), one file is exported.
- "FILTER" – WHERE clause that is added to a SELECT operator to filter exported domains from the TARIFF_DOMAIN table. This parameter is optional.
- "UFX_VERSION" – UFX version for files being exported. This parameter is optional, by default, the latest version is used.
- "ROOT_DOMAINS" – root domain codes, separated by commas in a list. These domains and their subdomains will be selected for export (see the section "Tariff Domains" in the document "Tariff Management in WAY4"). This parameter is optional.



Root domains are those that are not subordinate in other domains. Root domains are listed in the "Tariff Domains" form (menu item "Tariffs → Tariff Types & Tariff Domains → Tariff Domains").

- "DATE_FROM" – date (YYYY-MM-DD format) for restricting export of tariff numeric values by effective date (*Date From*). Only those values are exported for which the start date they become effective is greater than or equal to the date specified in this parameter. This parameter is optional.

3. Tariff import pipe parameters

The following parameters can be used for the "tariff_import" pipe (menu item "Tariffs → Tariff Export and Import → Tariff Structure and Data Export&Import → Tariff Structure and Data Import"):

- "IN_DIRECTORY" – incoming directory. The default value in the standard menu item is "@RBS_INTERCHANGE_DIR@\\in", where by default "@RBS_INTERCHANGE_DIR@" is "<OWS_WORK>\\data\\rbs".
- "ARCH_DIRECTORY" – directory of successfully imported files. The default value in the standard menu item is "@RBS_INTERCHANGE_DIR@\\arch".
- "ERROR_DIR" – directory of files for which errors occurred during import. The default value in the standard menu item is "@RBS_INTERCHANGE_DIR@\\err".
- "DATE_CHECK_MODE" – mode for limiting import of tariff numeric values by the date from which they are effective (*Date From*). Possible values:
 - FUTURE_DATE (default value) – only tariff numeric values for which the date they become effective is greater than the current banking date are imported.
 - ANY_DATE – tariff numeric values are imported without date restrictions, including values that are active from the current date, or from past dates.
- "FILE_CODING" – file encoding, for example "ASCII" or "UTF-8" (default value).

4. File format

When exporting tariffs using the "tariff_export" pipe, a UFX file is generated with an XML extension.

Tariff data from these files can be imported to Cards using the "tariff_import" pipe.

On export, a file name is generated from the following:

Name	Format	Description
File name prefix	String (6 characters)	The "TRFDMN" prefix is set for exported files.
Separator	"_" character	Underline character.
Custom prefix	String	Prefix set using the "tariff_export" pipe's "CUSTOM_PREFIX" parameter. Can be empty.
Separator	"_" character	Underline character. Only specified if a custom prefix is set.
File creation date	yyyy-MM-dd	Date the file was generated on export.
Separator	"_" character	Underline character.
File number	Numeric (5 digits)	Sequence number of the file exported on the specified date.
Separator	"." character	Period character.
File extension	String (3 characters)	The "XML" extension is set for exported files.

File format is determined by the XSD schema described in the file "xml_tariff_schema.html".