

CBS Interface (UFx Format)

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Introduction

Interaction with the bank system (CBS), in particular the part of it responsible for working with retail transactions is one of the most important functions of WAY4™.



This interaction is provided by exchanging UFX format files containing information about client account balances, account payments, merchant settlements, etc.

This document is intended for WAY4 users (bank or processing centre employees) responsible for the operation of the interface with the CBS.

When working with this document, it is recommended to use the following resources from the OpenWay documentation series:

- "DB Manager Manual"
- "File Postload Processing"
- "WAY4™ UFX Interchange"

The following conventions are used throughout the document:

- Screen form names are shown in *italics*.
- Screen form button labels are enclosed in square brackets, as in [Approve].
- Sequences for selecting user menu items are given using arrows, for example: "Issuing→Contracts Input & Update";
- Sequences for selecting system menu items are given using arrows, for example: "Database ⇒ Change password".
- Key combinations used when working with DB Manager are given in angular brackets, as in <Ctrl>+<F3>.
- Values such as directory and file names and file paths that vary for each local machine are shown in angular brackets, as in <OWS_HOME>.
- Warnings that an incorrect action may have an adverse effect on system functioning are marked with the  sign.
- Messages marked with the  sign contain information about important features, additional facilities, or the optimal use of certain system functions.

Chapter 1. Importing Documents from the CBS

WAY4 makes it possible to import documents from the CBS. Files are exchanged with the CBS by importing special UFX format files that are put in the corresponding subdirectories of the "<OWS_WORK>\Data\Interchange" directory (see the section "Structure of Interchange Directories").

To import incoming documents from the CBS, use the "Full → Core Banking Interface → CBS. Daily Procedures → CBS. Inward Processing" menu folder (see Fig. 1).

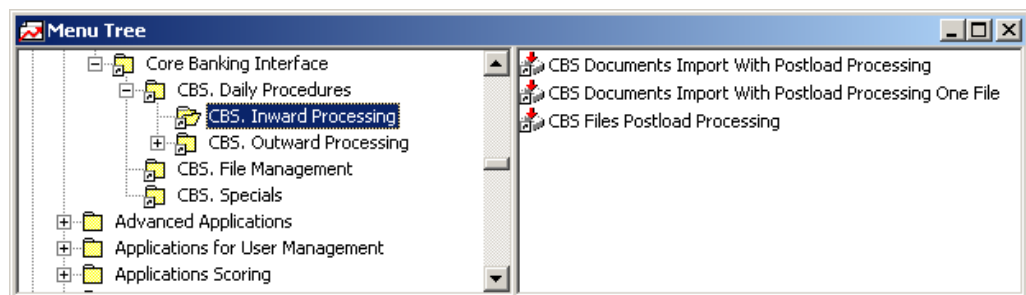


Fig. 1. Menu folder for importing documents from the CBS

This menu group contains the following items:

- "CBS Documents Import With Postload Processing" – import files with file post-load processing (FPLP). All unprocessed files imported by this user will be processed.
- "CBS Documents Import With Postload Processing One File" – import one file with post-load processing of the documents (FPLP) from this file.
- "CBS Files Postload Processing" – post-load processing of documents from unprocessed files imported earlier by this user. Files for which post-loading results were cancelled will also be processed.

Selecting the user menu item "CBS Documents Import With Postload Processing" or "CBS Documents Import With Postload Processing One File" displays the "Select Files" window with the list of files prepared for import (see Fig. 2).

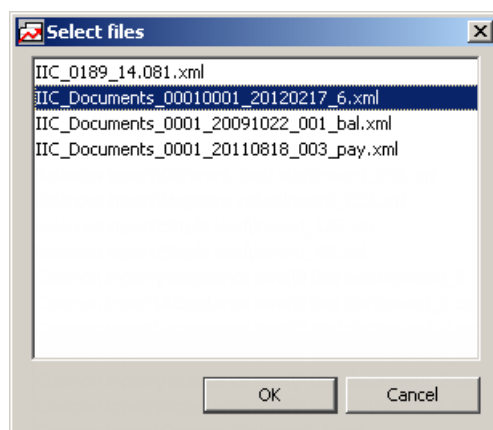


Fig. 2. List of files for import

Files for import are selected from this list by clicking on the file name while holding down the <Ctrl> key.

After selecting the required files (file) click [OK]. As a result, the selected files will be imported with the subsequent post-load processing of documents (FPLP). For more information about post-load processing of documents, see the document "File Postload Processing".

If a selected file has already been imported, a window with the corresponding message will be displayed (see Fig. 3).

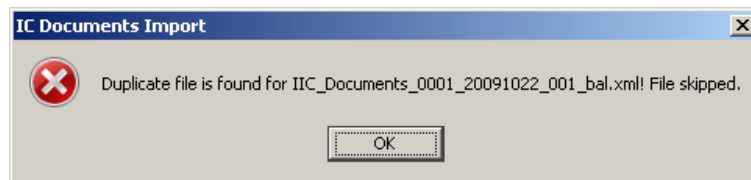


Fig. 3. Message about an attempt to import a file that has already been imported

Monitoring Imported Files

Files are imported according to the following rules:

- During import, file format checks and logical data checks are performed.
- If a format error occurs when importing a file, an outgoing response file will be generated for transmission to the bank branch that sent the corresponding incoming file.
- Import of each incoming file is accompanied by creation of a corresponding record in the database.

Records in the database that were created during file import are available after selecting the user menu item "Full → Core Banking Interface → CBS. File Management → UFX Received Files".

As a result, the "UFX Received Files" grid form will be displayed (see Fig. 4).

UFX Received Files										<< < > >>			1 of 6		X
	Receiving Date	Bank Date	File Type	Received By	File Name	II of Received	Status	Result	File ID	Parms					
→	22/11/12 12:37:43	02/11/2012	IC_DOC_IMPORT	SUPERUSER	payment/batches + respons31		Received		20101028-1	PAYMENT-PAY0001-0					
	22/11/12 12:37:43	02/11/2012	IC_DOC_IMPORT	SUPERUSER	IIC_Documents_0001_201102		Received		20100518-3	PAYMENT-PAY0001-0					
	22/11/12 12:37:43	02/11/2012	IC_DOC_IMPORT	SUPERUSER	Balances import/Simple load2		Received		20101112-3	BALANCE-BAL0001-0					
	22/11/12 12:37:43	02/11/2012	IC_DOC_IMPORT	SUPERUSER	Common import/Complex file31		Received		20100518-1	PAYMENT-PAY0001-0					
	22/11/12 12:37:25	02/11/2012	IC_DOC_IMPORT	SUPERUSER	IIC_Documents_00010001_22		Received		20100518-6	PAYMENT-PAY0001-0					
	16/11/12 16:59:59	17/09/2012	IC_DOC_IMPORT	SUPERUSER	IIC_Documents_0001_200912		Received	Accepted	20121022-1	BALANCE-0001-0001					
Ins	Del	Query	Processing	Logical Files	Original Docs	All Docs	Header Docs	Messages							

Fig. 4. List of imported files

This form contains the following fields:

- *Receiving Date* – calendar date and time file import started.
- *Bank Date* – banking date of file import.
- *File Type* – file type; this field contains the value "IC_DOC_IMPORT".
- *Received By* – user who imported the file.
- *File Name* – file name.

- *N of Received* – number of documents contained in the file.
- *Status* – file status; for imported files, this field will contain the "Received" value.
- *Result* – file processing result.
- *File ID* – file ID.
- *Parms* – additional parameters of the file.
- *Response File Name* – name of the response file generated for this imported file.

The following fields are only filled in if file export is rolled back:

- *Rollback Date* – date of file rollback.
- *Rolled back by* – user who rolled back the file.
- *Rollback Reason* – reason for file rollback.

This form's [Processing] button is used to call a context menu containing the following items:

- "Rollback" – roll back file import. When this context menu item is executed, the "Specify Reason" form will be displayed. In this form's field, specify the reason for rolling back the file and click the [Proceed] button.
- "PostLoad Processing" – post-load processing of documents from this file.
- "Undo PostLoad Processing" – undo the results of post-load processing of documents from this file.

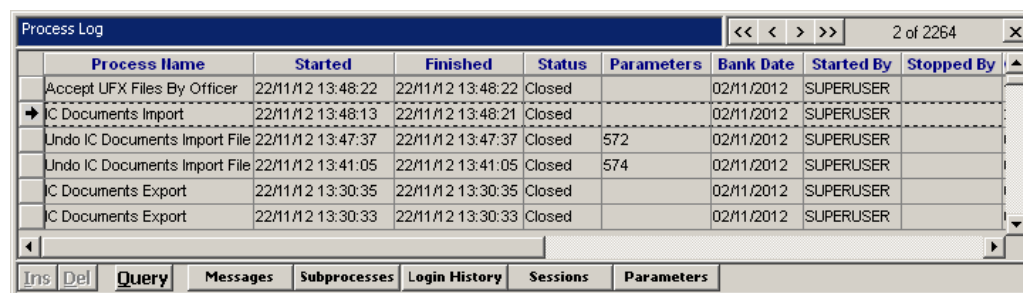
For access to messages contained in a file, select the row corresponding to the required file and click the [Original Docs] button.

The [All Docs] button is used to view all imported documents contained in a file.

The [Messages] button is used to view messages generated by WAY4 during file import.

Analysing File Import Results

Information about messages generated by WAY4 during file import, including error messages, can be obtained using the "Process Log" grid form (see Fig. 5), opened by selecting the "Full → Process Log → Process Log" menu item.



Process Name	Started	Finished	Status	Parameters	Bank Date	Started By	Stopped By
Accept UFX Files By Officer	22/11/12 13:48:22	22/11/12 13:48:22	Closed		02/11/2012	SUPERUSER	
IC Documents Import	22/11/12 13:48:13	22/11/12 13:48:21	Closed		02/11/2012	SUPERUSER	
Undo IC Documents Import File	22/11/12 13:47:37	22/11/12 13:47:37	Closed	572	02/11/2012	SUPERUSER	
Undo IC Documents Import File	22/11/12 13:41:05	22/11/12 13:41:05	Closed	574	02/11/2012	SUPERUSER	
IC Documents Export	22/11/12 13:30:35	22/11/12 13:30:35	Closed		02/11/2012	SUPERUSER	
IC Documents Export	22/11/12 13:30:33	22/11/12 13:30:33	Closed		02/11/2012	SUPERUSER	

Fig. 5. Process log

The "Process Log" form shows a log of the execution of WAY4 processes. Messages generated by WAY4 allow users to monitor execution of processes

To do so, select the corresponding record in the "Process Log" form and click the [Messages] button.

The "Message for <...>" grid form will be displayed (see Fig. 6).

Messages for IC Documents Import						<< < > >>		1 of 26	b	x
ID	Message Title	Type	Date	Object Type	Object ID					
29856	Duplicate file is found for IIC_Documents_0001_20091022_001_bal.xml! File skipped.	Warning	22/11/12 12:37:27							
29870	Ended	Information	22/11/12 12:37:44							
29869	Finish file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_INC\payment\batches + resp	Information	22/11/12 12:37:44							
29868	File payment\batches + response\inward_1234.xml is consistent.	Information	22/11/12 12:37:44							
29867	Start file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_INC\payment\batches + respo	Information	22/11/12 12:37:43							
29866	Finish file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_INC\Common import\Complex	Information	22/11/12 12:37:43							
29865	File Common import\Complex: file\inward_1.xml is consistent.	Information	22/11/12 12:37:43							
						Ins	Del	Query	Msg Desc	Full Info

Fig. 6. Messages that a file has been successfully imported

Data are considered to have been successfully imported from a file if there are no records in this list that have the "Error" value in the *Type* field.

If records indicating a file has been imported unsuccessfully are found in the list of messages (see Fig. 7), contact the system administrator.

Messages for IC Documents Import						<< < > >>		1 of 13	b	x
ID	Message Title	Type	Date	Object Type	Object ID					
29932	File IIC_0189_14.081.xml isn't consistent! File skipped. See Process Log for details.	Error	22/11/12 13:04:13							
29930	File: Mismatch of HashTotalAmount. Expect=7000.00, In file=12000.00	Error	22/11/12 13:04:13							
29935	Ended	Information	22/11/12 13:04:33							
29934	File export (G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_OUT\IIC_0189_14.081.xml)	Information	22/11/12 13:04:33							
29933	Finish file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_INC\IIC_0189_14.081.xml	Information	22/11/12 13:04:33							
29931	Start file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_OUT\IIC_0189_14.081.xml	Information	22/11/12 13:04:13							
29929	Start file G:\OWV\WORKS\Tech\W3\Data\Interchange\WAY4_INC\IIC_0189_14.081.xml	Information	22/11/12 13:04:13							
						Ins	Del	Query	Msg Desc	Full Info


Fig. 7. Messages about unsuccessful import of a file

Structure of Interchange Directories

Files are put in the following subdirectories of the "<OWS_WORK>\Data\Interchange" directory:

- "WAY4_ARCH" – subdirectory where incoming files are put after format checking procedures are successfully completed and data are imported into the database.
- "WAY4_ERR" – subdirectory where incoming files are put that were rejected due to file format checking and/or logical data checking during import.
- "WAY4_INC" – subdirectory where incoming files for import are put, with the exception of incoming response files.
- "WAY4_OUT" – subdirectory where exported files are put, including outgoing response files.
- "WAY4_RESP" – subdirectory where incoming response files are put.

In these subdirectories, files can be grouped (on import) according to the bank branches (banks) from which these files came and (on export) according to the registered financial institutions for which they are intended.

 Note that interchange directory paths and names can be redefined using the corresponding import/export pipe parameters (see the document "WAY4™ UFX Interchange").

Chapter 2. Exporting Documents to the CBS

WAY4 makes it possible to export documents to the CBS. Files are exchanged with the CBS by importing special UFX format files put in the corresponding subdirectories of the "<OWS_WORK>\Data\Interchange" (see the section "Structure of Interchange Directories").

To export outgoing documents to the CBS, use the "Full → Core Banking Interface → CBS. Daily Procedures → CBS. Outward Processing" menu folder (see Fig. 8).

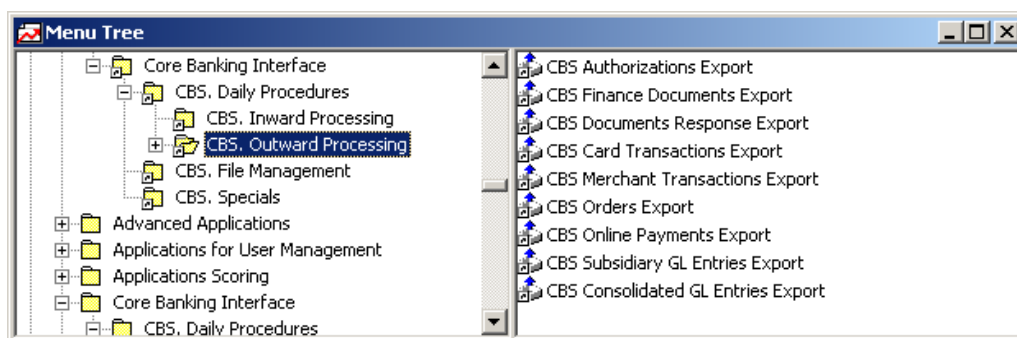


Fig. 8. Menu folder for exporting documents to the CBS

In the standard WAY4 configuration, this menu folder contains the following items:

- "CBS Authorizations Export" – export authorisation documents.
- "CBS Finance Documents Export" – export financial documents.
- "CBS Card Transactions Export" – export card contract transaction information.
- "CBS Merchant Transactions Export" – export merchant contract transaction information.

When one of these menu items is selected, the "Date" form will be displayed (see Fig. 9) to enter the banking date for which documents must be exported.

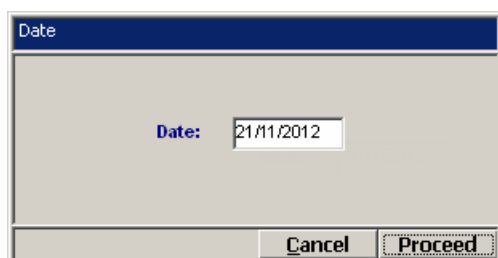


Fig. 9. Window for entering the banking date

To continue export, click the [Proceed] button; to cancel, click [Cancel].

During document export, a window appears showing the status of the corresponding process (see Fig. 10).

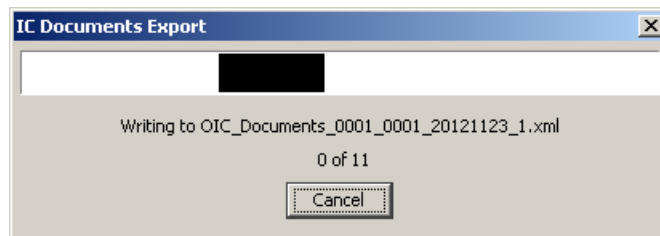


Fig. 10. Document export status window

This window shows the name of the file to which documents are exported, as well as the number of documents being exported.

The "CBS. Outward Processing" menu folder contains the following items:

- "CBS Documents Response Export" – generation of a deferred response file according to document import results.
- "CBS Orders Export" – export documents according to the results of processing standing payment orders.
- "CBS Online Payments Export" – export documents for successful online payments to the billing systems of third-party service providers.

During execution of these menu items, a status window showing the status of process execution will be displayed (see Fig. 10).

For a description of file format and pipe parameters for the aforementioned menu items, see the document "WAY4™ UFX Interchange".

To export subsidiary GL entries and GL entries, use the following menu items from the "CBS. Outward Processing" folder:

- "CBS Subsidiary GL Entries Export" – export subsidiary GL entries in UFX format;
- "CBS Consolidated GL Entries Export" – export GL entries in UFX format.

When one of these menu items is selected, the "Export Date" form will be displayed to enter the banking date for which entries must be exported. After clicking the [Proceed] button, a window showing export status will be displayed. This window is identical to that shown in Fig. 10.

For a description of file format and pipe parameters for exporting entries, see the document "Export of Subsidiary GL Entries and GL Entries in UFX Format".

Monitoring Exported Files

To view database records created when exporting files, select the user menu item "Full → Core Banking Interface → CBS. File Management → UFX Sent Files".

The "UFX Sent Files" grid form will be displayed as a result (see Fig. 11).


UFX Sent Files									
	Sending Date	Bank Date	File Type	Sended By	File Name	It of Sent	Status	Response	File ID
23/11/12 14:42:00	02/11/2012	IC_DOC_EXPORT	SUPERUSER	R_IIC_0189_14.081.xml	2	Sent			20121123-1
22/11/12 13:04:13	02/11/2012	IC_DOC_EXPORT	SUPERUSER	OIC_Documents_0001_0001_20121123_1.x3	3	Sent			20121123-1
21/11/12 13:02:28	02/11/2012	IC_DOC_EXPORT	SUPERUSER	OIC_Documents_0000_0001_20121121_4_3	3	Sent			20121121-4
21/11/12 12:39:00	02/11/2012	IC_DOC_EXPORT	SUPERUSER	OIC_Documents_1_0001_20121121_3.xml	3	Sent			20121121-3
21/11/12 11:47:14	20/11/2012	IC_DOC_EXPORT	SUPERUSER	OIC_Documents_0000_0001_20121121_2_18	18	Sent			20121121-2
21/11/12 11:45:12	20/11/2012	IC_DOC_EXPORT	SUPERUSER	OIC_Documents_1_0001_20121121_1.xml	3	Sent			20121121-1
20/11/12 13:22:36	17/09/2012	IC_DOC_EXPORT	SUPERUSER	R_IIC_Documents_0001_20091022_001_ba3	3	Sent			20121120-1

Fig. 11. List of exported files

This form's fields are identical to the fields in the "UFX Received Files" form (see Fig. 4 of the section "Monitoring Imported Files"), with the exception of:

- *Sending Date* – calendar date and time file import started.
- *File Type* – file type; this field contains the "IC_DOC_EXPORT" value (document export) or "GL_TRANSF_EXPORT" (for export of accounting entries).
- *SendedBy* – user who sent the file.
- *Status* – file status; for exported files, this field will have the "Sent" status.

To cancel file export, select the file in this form and click the [Rollback] button. The "Specify Reason" form will be displayed. Specify the reason for cancelling export and click the [Proceed] button.

 Note that as a result of rollback, a file exported earlier remains on the hard disk, and documents intended for export in this file will be reassigned the "To be Sent" status. Therefore, after executing this operation, it is recommended to manually delete this file.

Analysing File Export Results

Information about the results of exporting documents and entries to files can be obtained as described in the section "Analysing File Import Results".