
	<h1>JPK Transfer</h1>	
User's manual		Version: 2017-06-12 (2.0/001)

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1. Product description and requirements

JPK Transfer in SAP (also called JPK Transfer Monitor) is a BCC product to send SAF-T (Standard Audit Files for Tax) / JPK (Jednolite Pliki Kontrolne) files to the Polish Ministry of Finance gateway.

The solution allows sending XML files created by BCC's JPK/ SAF-T solution and created by other programs as well.

1.1. Technical requirements

SAP application component	Version
Kernel	6.0 or higher

1.2. Package content

The product is prepared in separate namespaces: /BCC/JPT and /BCC/JPW/. It is distributed via SAP transport requests and additional Java server files. In this instruction we assume, that the installation is already done.

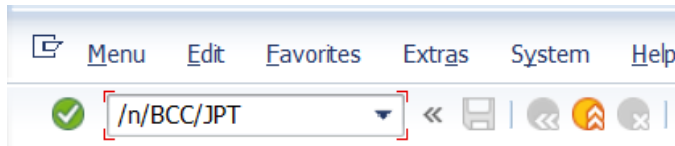
The tool adds following transactions to the SAP system:

Transaction ID	Transaction description
/BCC/JPT	JPK Transfer Monitor
/BCC/JPTC or /BCC/JPT_CUST	JPK Transfer – Configuration
/BCC/JPT_XSD	JPK Transfer – XSD version settings (checking XML)
/BCC/JPT_LEP	JPK Transfer – Paths to local JPK Transfer Engine (only optionally used)
/BCC/JPT_STP	JPK Transfer – Paths and settings of local signing tool (optionally used)
/BCC/JPT_SHUTDOWN	JPK Transfer – JPK Transfer Engine shutdown

In this user's manual only the first transaction /BCC/JPT/ will be described. For the description of the other transactions see the installation manual.

2. Transactions and programs

To use the product one should invoke the /BCC/JPT transaction via string **/n/BCC/JPT** in command field in the left top corner of the SAP GUI screen.



2.1. JPK Transfer Monitor – selection screen

Transaction ID	Transaction description
/BCC/JPT	JPK Transfer Monitor

 A screenshot of the 'JPK Sending monitor' selection screen in SAP GUI. The screen has a title bar with 'Program', 'Edit', 'Goto', 'System', and 'Help' menus. Below the title bar, the command field shows '/n/bcc/jpt'. The main area is titled 'JPK Sending monitor' and contains several input fields and checkboxes.

 Input fields include:

- Company code: Y001
- Files' content since: 01.11.2016
- Files' content till: 31.12.2016
- Files creation date: (empty)
- JPK type: (empty)
- File's author: (empty)
- File version: (empty)

 There are also 'to' fields for selection.

 Checkboxes include:

- ☒ Production mode
- ☐ Test mode
- ☐ SAP folder (next to the folder path)
- ☐ SAP folder (next to the manually entered folder)

 The folder path is '\\office\bcc\ProjektyWewnetrzne\JPK\XML\'.

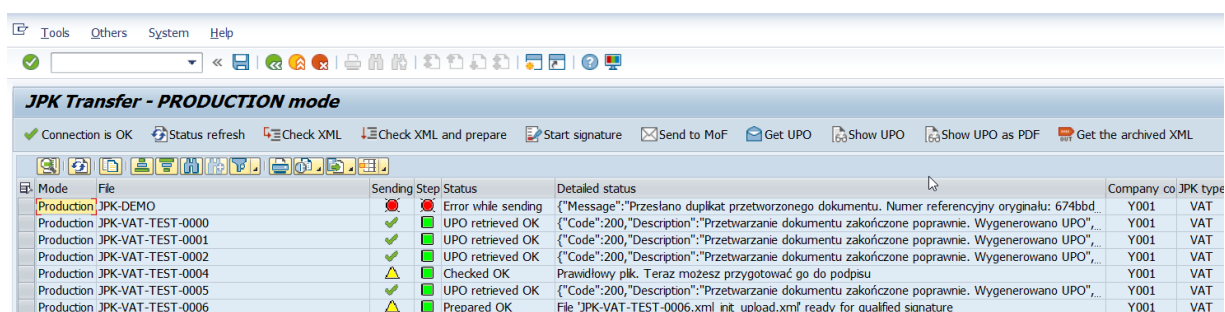
 Below these fields is a section for 'ALV display' with a 'Layout' field and a checkbox 'Show sent and removed records'.

 At the bottom, there is a section for language selection: 'Please choose a language for messages from JAVA Engine' with radio buttons for 'Messages in Polish' and 'Messages in English'.

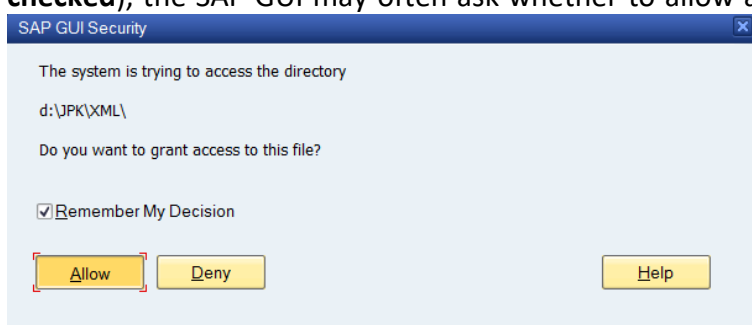
Field name	Field description	User action	Comments
Company code	Selection of company code for which we want to process the SAF-T / JPK files	Pick from list / Enter manually	E.g. PL01 May be left empty
Files content since	The first day from which the JPK / SAF-T files will be shown	Pick from list / Enter manually	E.g.. 01.01.2016
Files content till	The last day from which the JPK / SAF-T files will be shown	Pick from list / Enter manually	E.g. 31.01.2016
Files creation date	Only files prepared on selected days will be shown	Pick from list / Enter manually	E.g. 31.01.2016 May be left empty
JPK Type	Only files of selected type will be shown.	Pick from list / Enter manually	May be left empty
File author	Only files created by selected SAP user will be shown	Enter manually	May be left empty
File version	Only files in selected version will be shown	Enter manually	May be left empty
Production mode	The file will be processed in production mode – the sending will be executed against the production gateway of the Ministry of Finance. It should be used only for official documents and not for testing		
Test mode	The file will be processed in test mode – the sending will be executed against the test gateway of the Ministry of Finance. To be used for testing.		
Folder with JPK files	Folder in which JPK / SAF-T files are stored	Automatic entry	Relevant configuration parameter PATH_XML
SAP folder	Files' folder is accessed via application server Unchecked: Will cause accessing the network folder from SAP GUI (workstation), using current/domain user credentials, e.g. DOMAIN/billgates Checked: Will cause accessing the network folder from SAP server, i.e. user name for which SAP server is started. It is SAPServiceXYZ user, where XYZ is the SID (SAP System Identifier). To make it working you need DOMAIN/SAPServiceXYZ user who will have an access to the network folder. You also need entries in SAP in the AL11 pointing to JPK folders. The entries in the AL11 transaction will work if user SAP user in needed authorizations. Check section 3 – Accessing files in JPK Folder	Automatic default value/ Manual entry	Relevant configuration parameter PATH_XML_SAP
Manually entered folder	Manually entered folder that overwrites the "Folder with JPK Files" when any value entered.	Manual entry	Relevant configuration parameter PATH_XML_MANUAL
SAP folder	If set, the manually entered folder will be accessed via application server. See description for similar field above.	Manual entry	

Layout	Allows to choose from prepared and saved ALV layouts	Manual entry	
Show sent and removed records	Allows to show records of already sent with success files, that were deleted from the XML folder. Usefull when archiving is used and the user wants to retrieve archived fie.		
Messages in Polish	Messages in status column arrive from JAVA Engine in Polish		
Messages in English	Messages in status column arrive from JAVA Engine in English		

2.2 JPK Transfer Monitor – processing screen

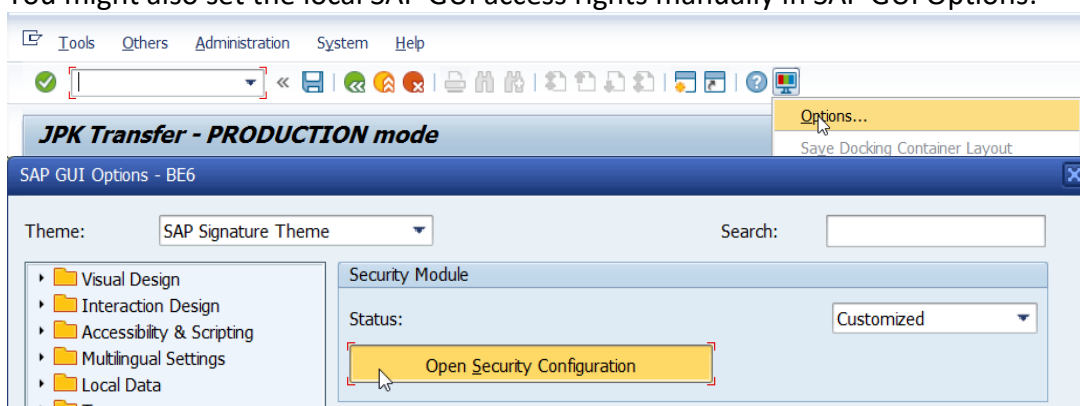


Important! When accessing JPK folders with current user credentials (**SAP Folder not checked**), the SAP GUI may often ask whether to allow accessing JPK folders from SAP GUI.

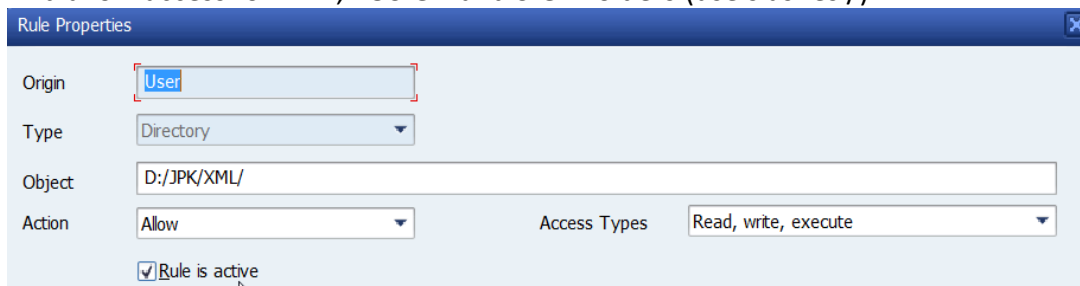


Please give the permission in order to process the files correctly (and sign “Remember My Decision” in order to get rid of the messages in future).

You might also set the local SAP GUI access rights manually in SAP GUI Options:

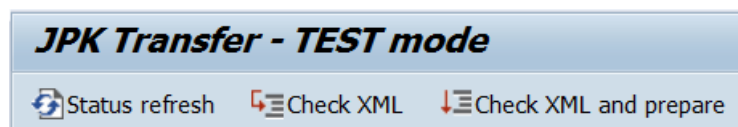


And allow access for XML, TOSIGN and SIGN folders (use slashes /):



2.2.1 Test/Production Mode

Depends on a processing mode which has been chosen on the selection screen, the application works either in test or in production mode. Information about the current mode is shown in the header of the screen.



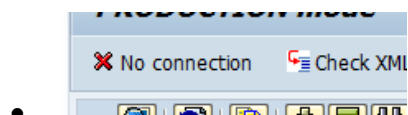
Production mode – it is used to send JPK / SAF-T to the Ministry of Finance

Test mode – it is used to test sending JPK / SAF-T to the Ministry of Finance

2.2.2 Connection status

Before any action, it is necessary to make a connection with an external application first (JPK Transfer Engine).

Connection status is visible in the main menu of the application:



- Status: No connection – click on the „No connection” button to refresh the connection status and see the error message if there is an error. If the application cannot make a connection then please contact an administrator who will check if both JPK Transfer Monitor and JPK Transfer Engine applications were correctly installed. The application cannot be used without active connection between JPK Transfer Monitor transaction and JPK Transfer Engine (java server).
- When connection is OK, then *No Connection* icon is missing – the application is ready to be used.

Important! If the JPK Transfer Engine (Java) is installed on user's computer (and not on the separate server, which is the recommended option), then if the administrator switched on the automatic start option (AUTO_START_ENGINE_LC), the user can provide the path to the local file starting the Transfer Engine, and afterwards the engine starts automatically, when the user enters the JPK Transfer transaction. To provide the path to the file starting the Transfer Engine, the user should use menu entry *Others > Set Engine file path*.

Similarly when leaving the transaction, the system could switch the JPK Transfer Engine started locally off (configuration parameter AUTO_SHUT_ENGINE_LC).

2.2.3 ALV screen

On the screen you can see the list of JPK/SAF-T files from the folder selected on the selection screen

The screenshot shows the 'JPK Transfer - PRODUCTION mode' window. It has a menu bar (Tools, Others, System, Help) and a toolbar with various icons. Below the toolbar is a status bar with buttons like 'Connection is OK', 'Status refresh', 'Check XML', etc. The main area is a table with columns: Mode, File, Sending, Step, Status, Detailed status, Company co, and JPK type. The table lists several files, including 'JPK-DEMO' and 'JPK-VAT-TEST-0000' through '0006'. The 'JPK-DEMO' row is highlighted in orange, while the others are in blue. The 'Sending' column contains icons: a red circle with a white 'X' for errors, a yellow triangle for preparation, and a green square for successful sending. The 'Step' column contains icons: a red circle with a white 'X' for errors, a green square for successful steps, and a green checkmark for successful UPO retrieval. The 'Status' column contains text descriptions of the current step. The 'Detailed status' column contains XML messages. The 'Company co' column contains 'Y001' and the 'JPK type' column contains 'VAT'.

Mode	File	Sending	Step	Status	Detailed status	Company co	JPK type
Production	JPK-DEMO			Error while sending	{\"Message\":\"Przeslano duplikat przetworzonego dokumentu. Numer referencyjny oryginału: 674bbd...	Y001	VAT
Production	JPK-VAT-TEST-0000			UPO retrieved OK	{\"Code\":\"200\",\"Description\":\"Przetwarzanie dokumentu zakończone poprawnie. Wygenerowano UPO\",...	Y001	VAT
Production	JPK-VAT-TEST-0001			UPO retrieved OK	{\"Code\":\"200\",\"Description\":\"Przetwarzanie dokumentu zakończone poprawnie. Wygenerowano UPO\",...	Y001	VAT
Production	JPK-VAT-TEST-0002			UPO retrieved OK	{\"Code\":\"200\",\"Description\":\"Przetwarzanie dokumentu zakończone poprawnie. Wygenerowano UPO\",...	Y001	VAT
Production	JPK-VAT-TEST-0004			Checked OK	Prawidłowy plik. Teraz możesz przygotować go do podpisu	Y001	VAT
Production	JPK-VAT-TEST-0005			UPO retrieved OK	{\"Code\":\"200\",\"Description\":\"Przetwarzanie dokumentu zakończone poprawnie. Wygenerowano UPO\",...	Y001	VAT
Production	JPK-VAT-TEST-0006			Prepared OK	File 'JPK-VAT-TEST-0006.xml_init_upload.xml' ready for qualified signature	Y001	VAT

The meaning of the background colours of rows:

- Files created with /BCC/JPK product are in blue
- External files (created with other product) located in folder with the JPK files are in orange.

Most important status fields:

Field	Meaning
Sending status	Icon representing overall status of sending to the ministry of the finance process: Empty – not processed Yellow – in preparation for sending (e.g. validation, preparation, signature, in process of sending or getting UPO confirmation) Red – problem with file sending or getting UPO confirmation Green - sent OK Green checked – UPO successfully retrieved
Step	Icon representing the status of the last step executed
Status	Short description of the last step result
Detailed status	Long description of the last step result (prepared in the language selected before processing on the parameters' screen)

Internal files – created with /BCC/JPK


Files are ready to be used. **Please never rename the files!**

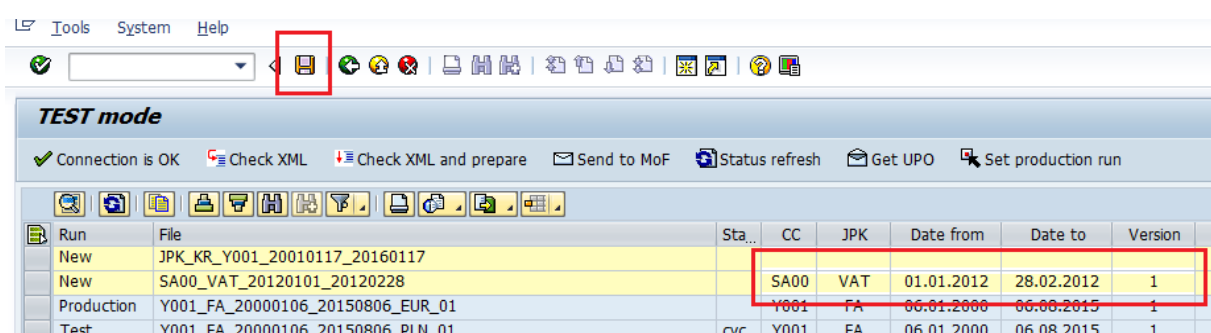
External files (in orange)

Please fill in the following fields:

- Company code
- JPK type (e.g. VAT)
- Date from – The start date of data inside the file
- Date to – The end date of data inside the file
- Version

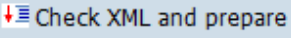
Important! Make sure, that external files have unique filenames that will not repeat in time. It is important as processing logic is based on unique filenames.

Once filled in please save the fields with the “Save” button  from the main menu.

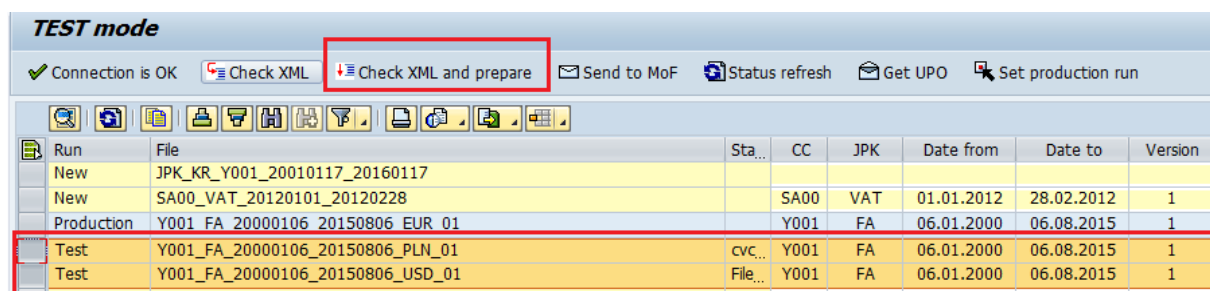


Note: If external files are used and if filename contains file attributes (e.g. company code), than one can use EXT_FILE_MASK configuration parameter to read those attributes automatically from filename (see all EXT_FILE_* parameters in installation manual).

2.2.5 Action: „1. Check XML and prepare”

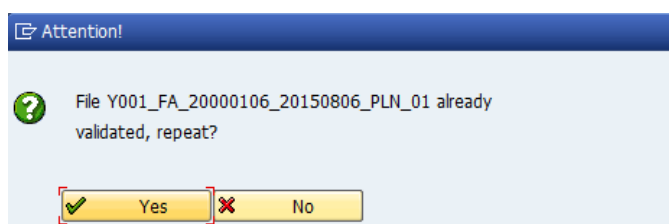
„1. Check XML and prepare”  both validates JPK/SAF-T XML files and prepares them for qualified signature (if the files are valid).

To run it select file(s):



Then click on “Check XML and prepare”.

If the file was previously checked (validated) you will be asked if the validation should be repeated:



Yes – file will be validated and prepared for qualified signature

No – file will be prepared for qualified signature without validation.

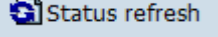
Once the action is started, in order to refresh status please click on “Refresh status”.

Then the following columns will be updated:

- Preparation START date – Data rozpoczęcia przygotowania pliku do wysyłki
- Preparation START time – Godzina rozpoczęcia przygotowania pliku do wysyłki
- Preparation END date – Data zakończenia przygotowania pliku do wysyłki
- Preparation END time – Godzina zakończenia przygotowania pliku do wysyłki
- Prepared by – Użytkownik, który wykonuje procedurę przygotowania pliku do wysyłki
- Status – Success, or in case of validation/preparation error it shows what is wrong.

NOTE!


For larger files the process might take from couple minutes to hours (even a day in the case of file sizes circa 1 GB). In that case the preparation START date and time are updated, and

the preparation END columns remain empty. To refresh the fields use  button. Once the preparation is complete, the preparation END columns are updated and the Status column says the files are ready for qualified signature.

2.2.6 Signing of prepared files ("2. Start signature")

Files ready for qualified signature are stored in "TOSIGN" folder. These are not copies of the XML files. These are extracts of the XML files. The files created by the JPK Transfer program stored in "TOSIGN" folder have to be signed with external application that implements qualified signature (sample list of vendors of such apps is given below).

Signed files should be put into the "SIGN" folder. Signed files have to either have the same name or a name that starts with that original name. For example if a file in TOSIGN folder is called `JPK_VAT_20160701_init_upload.xml` then a file in the SIGN folder has to have the same name (`JPK_VAT_20160701_init_upload.xml`) or e.g. `JPK_VAT_20160701_init_upload.xml.XAdES` or `JPK_VAT_20160701_init_upload.xml.xds`

The signing program can be called directly from JPK Transfer Monitor transaction if the parameter `AUTO_START_SIGN_TOOL` has been configured. Then on the ALV screen additional *Start signature* icon appears and the user, after configuring the calling parameters (menu *Others > Set signing software*, see Setting signing software elements section) can run the signing tool just like the other transfer procedure steps. Important! As the signature is executed outside of the SAP system, after signing one should refresh the ALV list ().

JPK Transfer - TEST mode			
Status refresh Check XML Check XML and prepare Start signature Send to MoF Get UPO Show UPO Show UPO as PDF Set production run			
Mode	File	Sending Step Status	Detailed status
Test	Y001_VAT_20170201_20170228_31		UPO not ready
Test	Y001_VAT_20170201_20170228_32		Signed for test Plik 'Y001_VAT_20170201_20170228_32.xml_init_upload.xml' gotowy do podpisu kwalifikowanego + Signed for
Test	Y001_VAT_20170201_20170228_33		Signed for test Plik 'Y001_VAT_20170201_20170228_33.xml_init_upload.xml' gotowy do podpisu kwalifikowanego + Signed for
Test	Y001_VAT_20170201_20170228_34		Prepared for signat.test Plik 'Y001_VAT_20170201_20170228_34.XML_init_upload.xml' gotowy do podpisu kwalifikowanego
New	Y001_VAT_20170201_20170228_35		New XML file

For qualified signature you can use any program but it has to be configured according to the specification prepared by the Ministry of Finance:

Metadata file must be signed with qualified signature according to XAdES Basic Electronic Signature algorithm in XML format according to <http://www.w3.org/2000/09/xmldsig> scheme, in short XAdES-BES in Enveloped version (signature as an additional element element `ds:Signature` in the original XML) or Enveloping (original document contained as an element in the signed structure). A transformation could be done on the object being signed according to <http://www.w3.org/2000/09/xmldsig#base64> encoding. Use RSA-SHA1 hash function in the signature.

Note! If your signing program cannot automatically copy the signed file from TOSIGN to SIGN folder (usually *.xades or *.XAdES), one can force the Transfer Monitor solution to copy the signed files automatically. To achieve this set either:

- **AUTOCOPY** local parameter when setting the signing software tool (menu *Others > Set signing software*, table `/BCC/JPT_DB_TCU4`)
- or
- **AUTO_COPY_SIGNED** general configuration parameter (table `/BCC/JPT_DB_TCU`)

In values of these parameters just give the mask of the signature files to copy (e.g. *.xades, or *.XAdES). If you do not define these parameters (leave them empty), then JPK Transfer Engine will not copy signature files from TOSIGN to SIGN. If you define both

parameters then AUTOCOPY (if not empty) takes precedence over AUTO_COPY_SIGNED. Special value *NOT* for AUTOCOPY deactivates the copying functionality for the given computer/ user when set generally.

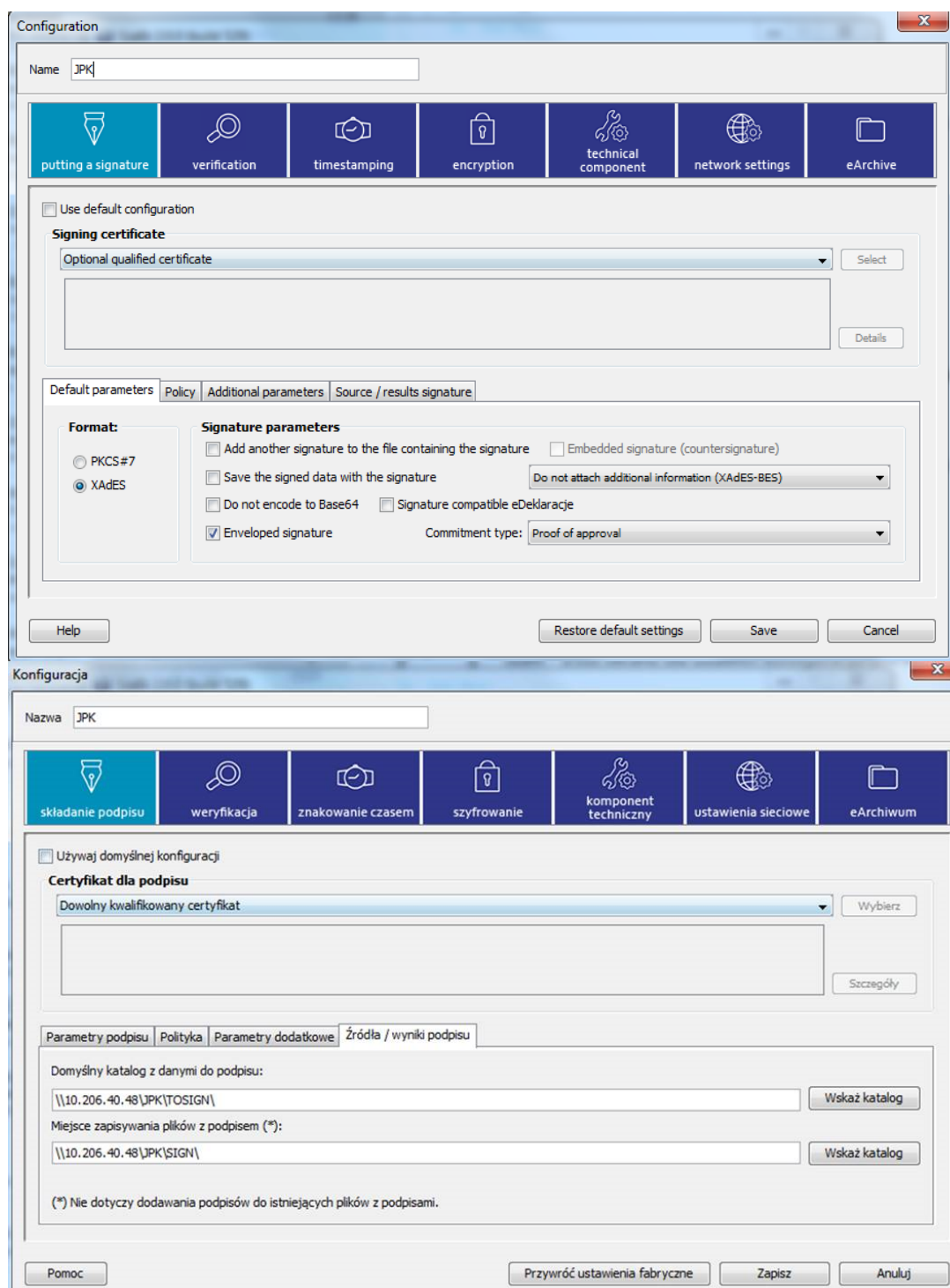
Important! For *proCertum SmartSign* signing program, when copying of signed files should be done to different folders for each Company Code or JPK Type, one can configure the SmartSign to archive the signed files in one folder (let us assume D:\JPK\SS) and then JPK Transfer could copy the signed files, from that folder to respective SIGN folders. For that to work one should put path and mask inside the AUTOCOPY (or AUTO_COPY_SIGNED) parameter value, e.g.: "D:\JPK\SS*.xml".

Important! In case of problem with local access to JPK folders, it is possible to configure JPK Transfer solution in order to copy the files from the server to local workstation for signing. For that one should use the configuration parameter (TOSIGN_S_COPY_LOCAL) described in installation manual.

For your convenience we provide a sample list of vendors who deliver qualified signature and we present the configuration of their programs for JPK Transfer:

- KIR Szafir (not possible to pass file via command line parameter)
- Acceco/Certum SmartSign (recommended program)
- PWPW Sigillum (not possible to automatically copy the signed file from TOSIGN to SIGN folder, recommended use of AUTOCOPY function with *.xades value)

1. KIR Szafir:



2. Asseco/Certum SmartSign:

The screenshot displays the 'Ustawienia' (Settings) menu for the Asseco/Certum SmartSign application, specifically the 'Podpis' (Signature) section. The settings are organized into several tabs and sections:

- Format podpisu (Signature format):**
 - ☒ XAdES: Podpis XAdES - Podpis elektroniczny w formacie XAdES jest zgodny z wymaganiami Ustawy z dnia 18 września 2001 roku o podpisie elektronicznym. Format zgodny z najnowszymi standardami oparty o język XML i zalecany do powszechnego stosowania.
 - ☐ CAdES/ETSI: Podpis CAdES/ETSI - Podpis elektroniczny w formacie CAdES/ETSI jest zgodny z wymaganiami Ustawy z dnia 18 września 2001 roku o podpisie elektronicznym. Starszy format podpisu elektronicznego.
- Typ podpisu (Signature type):**
 - ☐ Podpis zewnętrzny: Plik podpisu będzie zawierał tylko informacje o podpisie. Pamiętaj jednak, że w trakcie weryfikacji podpisu trzeba dostarczyć dokument wraz z podpisem.
 - ☒ Podpis wewnętrzny: Plik podpisu będzie również zawierał treść dokumentu.
- Archiwizacja (Archivization):**
 - ☒ Kopiuj po podpisaniu: Po wygenerowaniu podpisu zostanie on skopiowany do wybranego katalogu wraz z podpisanym dokumentem, jeśli wygenerowano podpis zewnętrzny.
 - Path: Wybierz
 - ☐ Twórz podkatalogi w formacie: RRRR.MM.DD
- Dodatkowe opcje podpisu (Additional signature options):**
 - ☐ Przed podpisem pytaj o powód podpisu
 - ☒ Twórz podpis specjalny PDF (PAdES), gdy podpisywany jest dokument PDF
 - ☒ Sprawdzaj ważność certyfikatu online przed rozpoczęciem podpisywania
 - ☒ Wyłącz obsługę czytników kart z wbudowaną klawiaturą (PINPAD) oraz klawiatur z wbudowanymi czytnikami kart
 - ☒ Wybierz rodzaj zobowiązania: Formalne zatwierdzenie (Proof of approval)
 - Wariant podpisu: Nie dołączaj dodatkowych informacji (BES)
 - Opcje konfiguracji znacznika czasu znajdują się w panelu: Znacznik czasu
- Zaawansowane opcje podpisu XAdES (Advanced XAdES signature options):**
 - ☒ Twórz podpis dołączony (Enveloped), gdy podpisywany jest dokument XML podpisem wewnętrznym XAdES
 - ☐ Twórz podpis dołączony (Enveloped) w wersji standardowej

Settings (Ustawienia) menu -> Signature (Podpis)

- Signature format (Format podpisu): *XAdES*
- Signature type (Typ podpisu): *Internal (Wewnętrzny)*
- Additional signature options (Dodatkowe opcje podpisu): Signature variant: *Don't assign additional information (BES)* (Wariant podpisu: *Nie dołączaj dodatkowych informacji (BES)*)
- Advanced XAdES signature options (Zaawansowane opcje podpisu XAdES): select *Create attached signature (Enveloped)* (Twórz podpis dołączony (Enveloped))
- Archivization: Check copy after signature and give the path to the SIGN folder, UNCHECK create subfolders in form...

3. PWPW Sigillum - PWPWSign

PWPW Sign 5

Application settings

PWPW
TECHNOLOGIE IT

PKI Settings

Default certificate **Signature profile** Default algorithm Certificate policy

Signature profile Użytkownika

Profile name Użytkownika

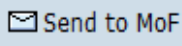
Format XAdES Variant BES (without... Type Enveloping

Commitment type None Digest method SHA-1 Default No

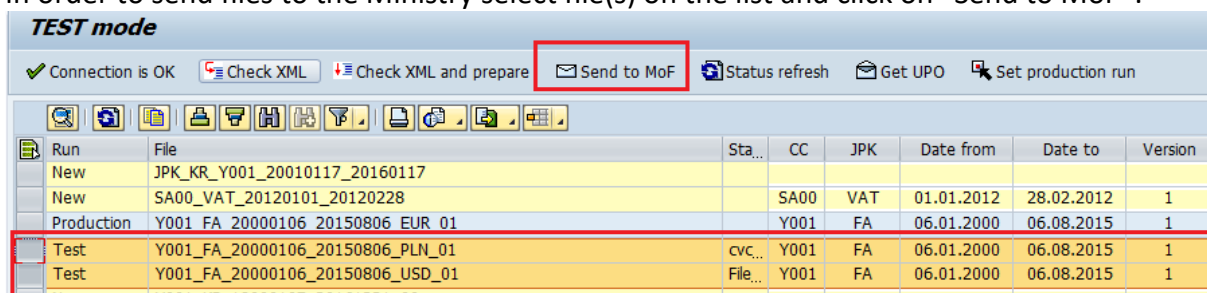
Network services

CRL server TSP server LDAP server NTP server OCSP server

2.2.7 Action „3. Send to MoF”

“Send to MoF”  sends signed file to the Ministry of Finance. Signed file has to be put in the “SIGN” folder.

In order to send files to the Ministry select file(s) on the list and click on “Send to MoF”:



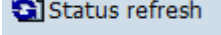
After some time click on “Status refresh” to update information about chosen file(s).

The following columns will be filled in:

- Send START date – Date when sending process started
- Send START time – Time when sending process started
- Send END date – Date when sending process ended
- Send END time – Time when sending process ended
- Send user – Sent by user with given name
- Status – Success, or in case of an error it shows what is wrong. Note an error message might be in Polish because it comes directly from the Ministry of Finance’s system.

NOTE!

For larger files the process might take from couple minutes to hours (even a day in the case of file sizes circa 1 GB). In that case the sending START date and time are updated, and the

sending END columns remain empty. To refresh the fields use  button. Once the sending is complete, the sending END columns are updated and the “Reference number” column is filled in (it is a number assigned by the Ministry of Finance).

2.2.8 Action „4. Get UPO”

For files sent to the Ministry of Finance (after getting Reference number) in production mode you can get UPO file (it confirms that the whole process succeeded).

Chose a file and click “Get UPO”.

After some time click “Status refresh” to see the following columns updated:

- UPO date START
- UPO time START

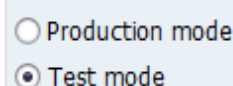
- UPO date END
- UPO time END
- UPO user – user who initiated the “Get UPO” action

The generation process of UPO files takes place in the Ministry of Finance’s (production) system. It can take long time (even a day). So if the first UPO reception is unsuccessful, read the detailed message and try again later.

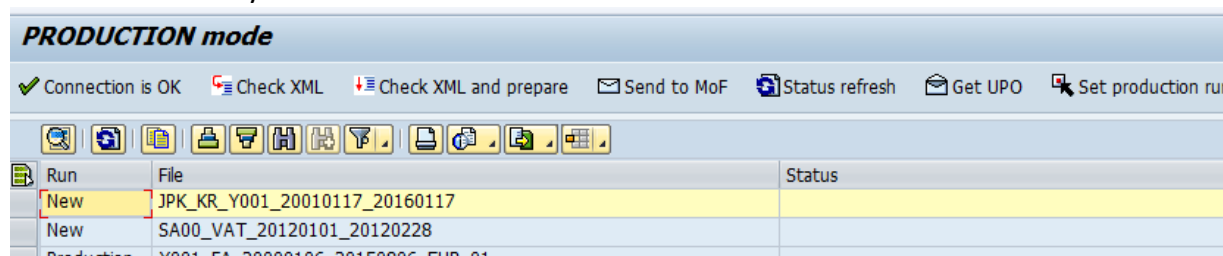
2.2.9 Option „Production mode”

File that was prepared in test mode can be sent to the Ministry only in Test mode. To change the mode from “test” to “production” choose “Production mode” radio button. Then for chosen file the “Run” column and information about preparation and sending will be cleared. All the preparation/signing/sending steps have to be repeated.

Note! File will be processed in production mode if on the **selection screen** of the application “Production mode” will be chosen:

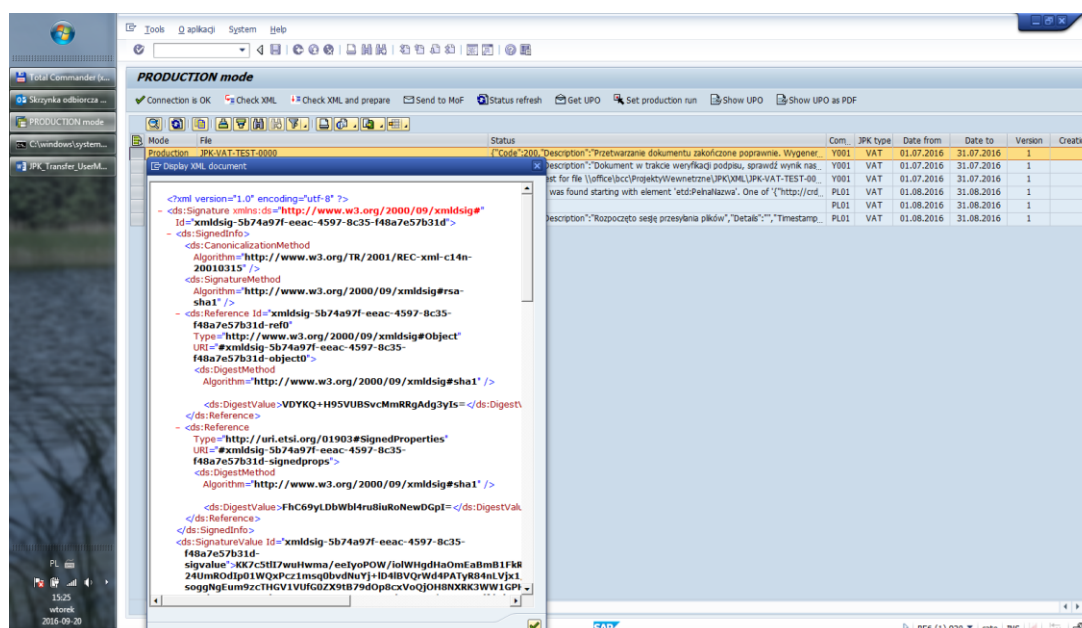


In the main menu you will see information about chosen mode:



2.2.10 Action „Show UPO”

Displays UPO in its original text form (XML)



2.2.11 Action „Show UPO as PDF”

Displays UPO in PDF form

PDF Preview

URZĘDOWE POŚWIADCZENIE ODBIORU DOKUMENTU ELEKTRONICZNEGO	
A. NAZWA PEŁNA PODMIOTU, KTÓREMU DORĘCZONO DOKUMENT ELEKTRONICZNY	
Ministerstwo Finansów	
B. INFORMACJA O DOKUMENCIE	
Dokument został zarejestrowany w systemie teleinformatycznym Ministerstwa Finansów	
Identyfikator dokumentu:	Dnia (data, czas):
b395295f02ab2fcd000000b079770f3e	2016-08-22T20:48:32+02:00
Skrót złożonego dokumentu - identyczny z wartością użytą do podpisu dokumentu:	
WZR5aN382SLWAJE5opPya2VXLpQ=[ZZEMD0SHu8b3AeRIOU30OcT9+nrxFTWHaX	
Skrót dokumentu w postaci otrzymanej przez system (łącznie z podpisem elektronicznym):	
a06a7feb95c003473d12d9eec36a8adc	
Dokument zweryfikowano pod względem zgodności ze strukturą logiczną:	
Schemat_JPK_VAT(1)_v1-0.xsd	
Identyfikator podatkowy podmiotu występującego jako pierwszy na dokumencie:	Identyfikator podatkowy podmiotu występującego jako drugi na dokumencie:
NIP 1111111111	
Urząd skarbowy, do którego został złożony dokument:	
1435	
Stempel czasu:	
MjAxNi0wOC0yMlQyMDo0ODozMiswMjowMA==	

SAP

2.2.12 Action „Get the archived XML file”

Displays only when for a given entry, XML file was saved in the SAP database (see the configuration parameter “SAVE_SENT_XML”). The button allows to download to the workstation the file archived in an SAP index table. One should use the “Show sent and removed records” selection screen option to be able to retrieve archived files that were removed from the XML folder.

4. Accessing files in JPK folder

The network folder of JPK can be accessed in two ways depending on “SAP Folder” checkbox.

JPK Sending monitor

Company code:

Files' content since: 01.09.2016

Files' content till: 31.10.2016

Files creation date: to:

JPK type: to:

File's author:

File version:

☒ Production mode
☐ Test mode

Folder with JPK file: \\somenetworkpath\JPK\XML SAP folder

ALV display layout

Layout:

Please choose a language for messages from JAVA Engine

☒ Messages in Polish
☐ Messages in English

SAP Folder unchecked:

Will cause accessing the network folder from SAP GUI (user workstation), using current/domain user credentials, e.g. DOMAIN/billgates

SAP Folder checked (recommended option):

Will cause accessing the network folder from SAP application server, i.e. user name for which SAP server is started. It is SAPServiceXYZ user, where XYZ is the SID (SAP System Identifier). To make it working you need DOMAIN/SAPServiceXYZ user who will have an access to the network folder. You also need three entries in SAP in the AL11 transaction to point to:

- the network folder XML, with XML files,
- the network folder SIGN, with signed files.
- the network folder TOSIGN, with signed files (needed only when using AUTO_COPY_SIGNED configuration option).

Alternatively in AL11 the entry with the parent folder (usually JPK) can be given.

The folder names should be respectively exactly XML and SIGN, TOSIGN and when created on the linux system they should have only capital letters.

The entries in the AL11 transaction will work if user SAP user in needed authorizations.

In the above example, XML folder is \\somenetworkpath\JPK\XML

5. JPK Transfer Engine shutdown

If the user has the authorization for transaction /BCC/JPT_SHUTDOWN, then one can switch directly to shutdown transaction from JPK Monitor ALV screen with the use of *Administration > Shutdown Engine* menu.

6. Setting signing software elements

In order to use Start Signing icon on ALV screen, the user should configure the calling of the signing tool. When you choose menu option *Others > Set signing software* then one should give 4 answers:

- Give the path to the file starting the signing tool (usually exe file) - obligatory
- Define parameters to be passed to the signing tool (eg. -s "&FILE&" for proCertum)
- Define AUTOCOPY (tells whether to SAP should copy the signed filer from TOSIGN to SIGN folder, if the signing program cannot do that. Can be set to X or better to mask of the signed files e.g. *.xades . This settings overwrites global AUTO_COPY_SIGNED parameter.
- Define TOSIGN path for the workstation if access via SAP server is different than access via user workstation. Normally this parameter can be left empty. In this case, the default path to TOSIGN folder is taken from global parameter PATH_TOSIGN_S, if present, or otherwise derived from default XML path defined by global parameter PATH_XML.

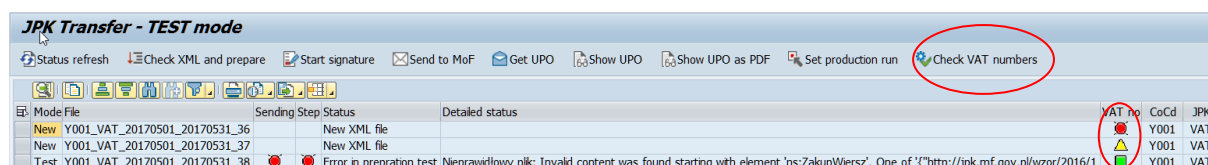
When defining command line parameters one can use special codes that will be replaced with real values during runtime:

&FILE&	- full path to the file to be signed
&FOLDER&	- folder of the file to be signed
&TFOLDER&	- folder when the signed files should be put
&FILESHORT&	- filename of the file to be signed (without full path)
&JPKTYP&	- JPK type ID
&BUKRS&	- Company code ID

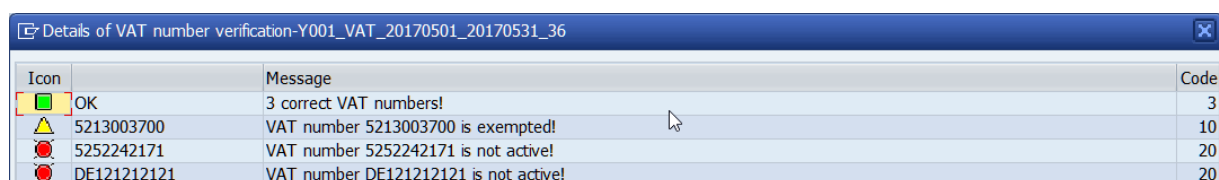



7. Integration with NIP Checker solution

Since version 2.0 JPK Transfer is integrated with NIP Checker solution. NIP checker solution can be used to check VAT numbers of Business Partners. For free one can check the syntax correctness of VAT. When NIP Checker solution license is acquired VAT id numbers (NIPs) can be checked as well against the external data with BCC NIP Checker service.

Thanks to NIP Checker integration with JPK Transfer, there appears new icon on the JPK Transfer list screen: **Check VAT numbers**:



Pressing the *Check VAT numbers* icon will execute the NIP check for the selected report row. The result will be displayed as the icon in the column *VAT no.*. Double click on the column *VAT no.* Will call a popup windows with the details of the VAT numbers check:

Details of VAT number verification-Y001_VAT_20170501_20170531_36			
Icon		Message	Code
	OK	3 correct VAT numbers!	3
	5213003700	VAT number 5213003700 is exempted!	10
	5252242171	VAT number 5252242171 is not active!	20
	DE121212121	VAT number DE121212121 is not active!	20

See NIP Checker installation manuals for configuration details of the NIP Checker solution.

8. More information

More information about JPK Transfer can be found in *JPK Transfer Installation Manual* or on JPK by BCC forum: <https://jpk.bcc.com.pl>