



ComCT User guide

SOPTIM AG

ComCT 4.7.0, latest update 23.05.2025

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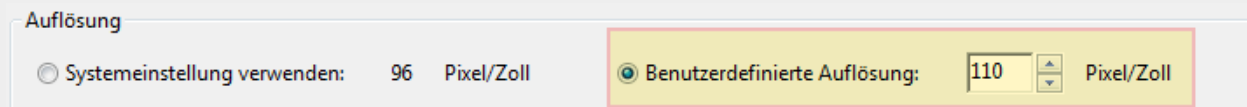
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Graphics display in the PDF manual

To view the manual graphics optimally, we recommend setting the PDF viewer to **100%** zoom and a resolution of **110 DPI**. This will ensure optimal pixel reproduction of screenshots which did not have to be scaled down to the maximum page width to fit the available space.

You can do this in Adobe Acrobat Reader[™], for example, by choosing **Edit** › **Preferences** › **Page display** › **Resolution** from the menu.



1. ComCT- Setup, Functionality and Installation

1.1. Functional purpose and overview of functions

ComCT ('Communication Client for Traders') is used to send timetables in ESS format to the relevant transmission line network operator and to edit and present the related acknowledgements in an appropriate manner.

The program is aimed at all market participants who register timetables with transmission line network operators in connection with their transactions in the liberalised electricity market. In detail, the program provides the following features and functions:

- KISS conversion

In addition to the new ESS/CIM formats, the program is also able to process old KISS files. When reading in KISS timetables, files are automatically converted into the ESS/CIM format.

- Verification

Timetables are checked at the time of input in accordance with the customary requirements and regulations. Files containing errors are displayed separately. Each error is listed in detail.

- Acknowledgements

from the transmission line network operators (ACK, ANO, CNF) are automatically allocated to the related timetable files and then displayed coherently. This way, timetable registrations are given their current status. Potential error messages or anomaly reports are displayed directly within the timetable.

- Status requests

To retrieve the up-to-date timetable reconciliation from the transmission line network operator, users can send a so-called status request. Acknowledgements are automatically allocated to the relevant timetable registrations, status information is updated and potential error messages or anomaly reports are displayed.

- Communication

In the current version, acknowledgements from the transmission line network operators are presently not automatically read in via email or FTP. Imports are performed solely via a central import directory. Outputs are already automated. Timetables and status requests are therefore transmitted to the transmission line network operator via email (SMTP) or FTP or made available through filing in a dispatch directory.

Protocols are maintained for all incoming and outgoing transmissions, enabling tracking of what went out and was received together and at what time.

- Timetable amendments / versions

Timetable amendments (editing) within ComCT are currently not supported. All changes are handled via the import of amended timetable files. The respective version numbers shown are compared with the information on versions and status information already received and the content is checked.

- Configuration / Parameter assignment

Excel conversions and communication processes require a number of different default settings. These can be set via special dialogues within ComCT and can be centrally stored.

- Client capability

ComCT supports cases where a trader looks after more than one balance area. The balance areas can be processed in parallel and on one interface.

The following diagram illustrates the setup and structures of ComCT:

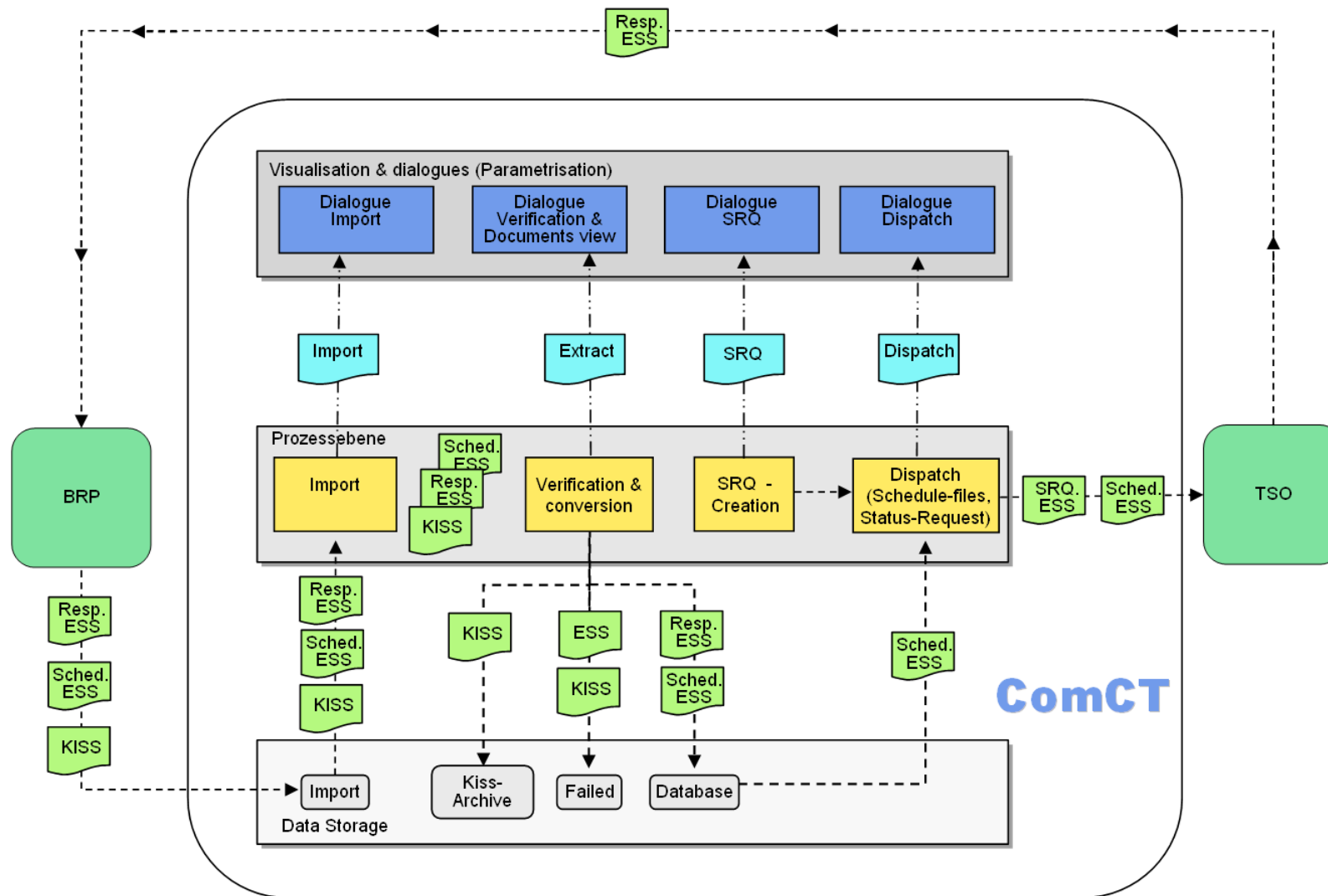


Figure 1. ComCT data flow schema

1.2. Imports and filing

The system provides a central import directory for Importing and reading in timetables:

Import directory

Files are read in via the import directory. Files scheduled for import (either manually or from other programs) are copied into the import directory. The program automatically recognizes the intake of new files and updates the relevant status displays in the main summary.

Import from SOPTIM AS4 SFTP (SAGA)

When the SOPTIM AS4 SFTP (SAGA) is set up and enabled, import files are moved automatically from SOPTIM AS4 SFTP (SAGA) to the local import directory. The program automatically recognizes the intake of new files and updates the relevant status displays in the main summary.

Timetables can be imported in both KISS and ESS/CIM format. KISS timetables are converted into the ESS/CIM format at the time of import. Internally, and in exchanges with the transmission line network operators, only the ESS/CIM format is used.

Files to be imported are read in and checked in sequence. Files which have been read in are subsequently removed from the central import directory and, depending on the verification result, moved either into the 'Failed' directory or into the filing directory of the relevant balance area. To ensure better and faster orientation, the files are stored in additional sub-directories (one sub-directory per day). Files filed in the 'Failed' directory are filed according to the import day (and not according to the timetable day). In contrast, files stored in the balance area related directory are filed according to the relevant timetable day.

Files stored in the 'Failed' directory are not renamed. This means that identical files of the same day are overwritten. When filing files in the balance area directory, the file name will, if necessary, be modified according to standard file name conventions. In addition to being filed in the database directory, KISS files are also stored in the 'Kiss archive' (in their original version) according to the timetable day.

The filing structure therefore looks as follows:

Data Store	Hint	X:\ComCT_Store		
Balance area A			TEST-BK--3-----3	
FP-Tag			2006_08_08	
*.xml	ESS-document for the schedule day		20060808_TPS_TEST-BK--3-----3_10XDE-RWENET---W_001.xml	
meta-inf			meta-inf	
	internal system file for the schedule day			
FP-Tag + 1			2006_08_09	
FP-Tag + 2			2006_08_10	
Balance area B			TEST-BK--4-----4	
export	Storage of exported CSV-Files		export	
failed			failed	
Working day			2006_08_05	
.	Storage of erroneous import files		*.*	
Working day + 1			2006_08_06	
Working day + 2			2006_08_07	
import			import	
.	Storage of the to be imported files			
kiss-archiv	Storage of the converted Excel files		kiss-archiv	
Schedule day			2006_08_08	
*.xls			20060808_TEST-BK--3-----3_10YDE-RWENET---I_01.xml	
Schedule day+ 1			2006_08_09	
Schedule day + 2			2006_08_10	
meta-inf	internal system related files		meta-inf	
.<working-day>.meta-inf	Communication information for the working day		2006_08_05.meta-inf	
.<working-day+1>.meta-inf			2006_08_06.meta-inf	
.<working-day+2>.meta-inf			2006_08_07.meta-inf	
.meta-inf	Preferences		.meta-inf	

The directories can also be set up differently to the basic setting. However, this is not recommended.

In addition to the actual transaction data, master data and configuration data are also stored in the data store (in the subdirectory 'Meta-Inf').

1.3. Installation

The installation of the application is started by the setup file “setup_comct_<version-number>.exe” for Windows users. An appropriate similar setup

procedure is available for other operating systems. During setup procedure you will be guided through the single steps until setup has completed.

If you are using a commercial version of ComCT (since version 2.0.0) you need a license file in order to use ComCT with all features. The license file has to be placed in the subfolder “License” of the ComCT installation. A license can be purchased by concluding a maintenance contract for ComCT. See contact data at the end of this document.

Further information for installing the license can be found in chapter 1.4.

After the launch of ComCT, the following functions are available for the operation of ComCT:

Open <last ComCT Data Store>

This function allows the data store already set up to be opened. If several Data Stores have been set up, the system displays the last 4.

Create New Data Store

Use this function to start a dialog to create a new data store.

Open a Data Store

Use this function to start a dialog to select and adjust an existing data store.

Exit ComCT

Use this function to leave the ComCT application.

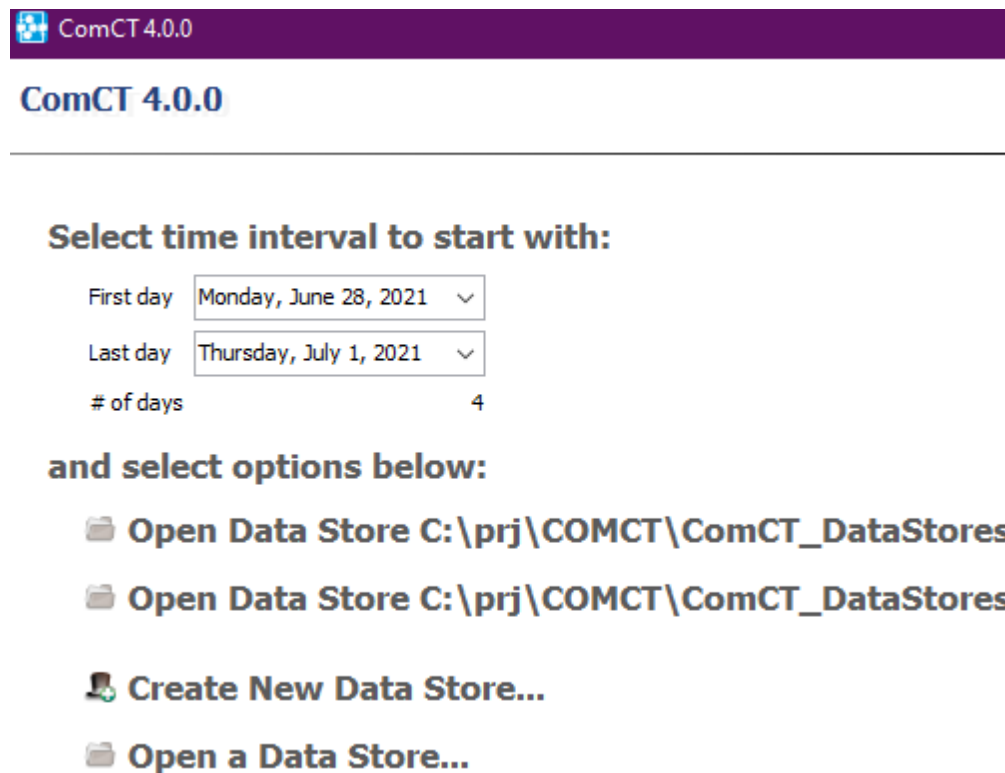


Figure 2. start view of ComCT

Prior to the first operation of ComCT, you have to create a 'Data Store'. Click on the link "Create new Data Store" and follow the dialog.

1.3.1. New Data Store - Directories

In step 1 the provision of the location in the file system for the process data is required.

In a departure from the default settings, personal directories may be specified for the various filing folders:

Data Store

Filing system for all data (i.e. all imports and setting information).

Import

The import directory is used to set the interchange point at which the search for files to be imported is carried out.

Export

The export directory is used to specify the filing system for potential exports (i.e. to export anomaly reports or conflicting confirmations).

Failed

All failed imports are stored in the Failed folder.

KISS Archive

The KISS archive is used to store possible original KISS files that are converted into ESS/CIM files during import.

For all different sub-folders you can customize the folder location and differ from the predefined values.

For doing this you have to activate the corresponding checkbox: ☒ Use user specified directory

This configuration is not recommended.

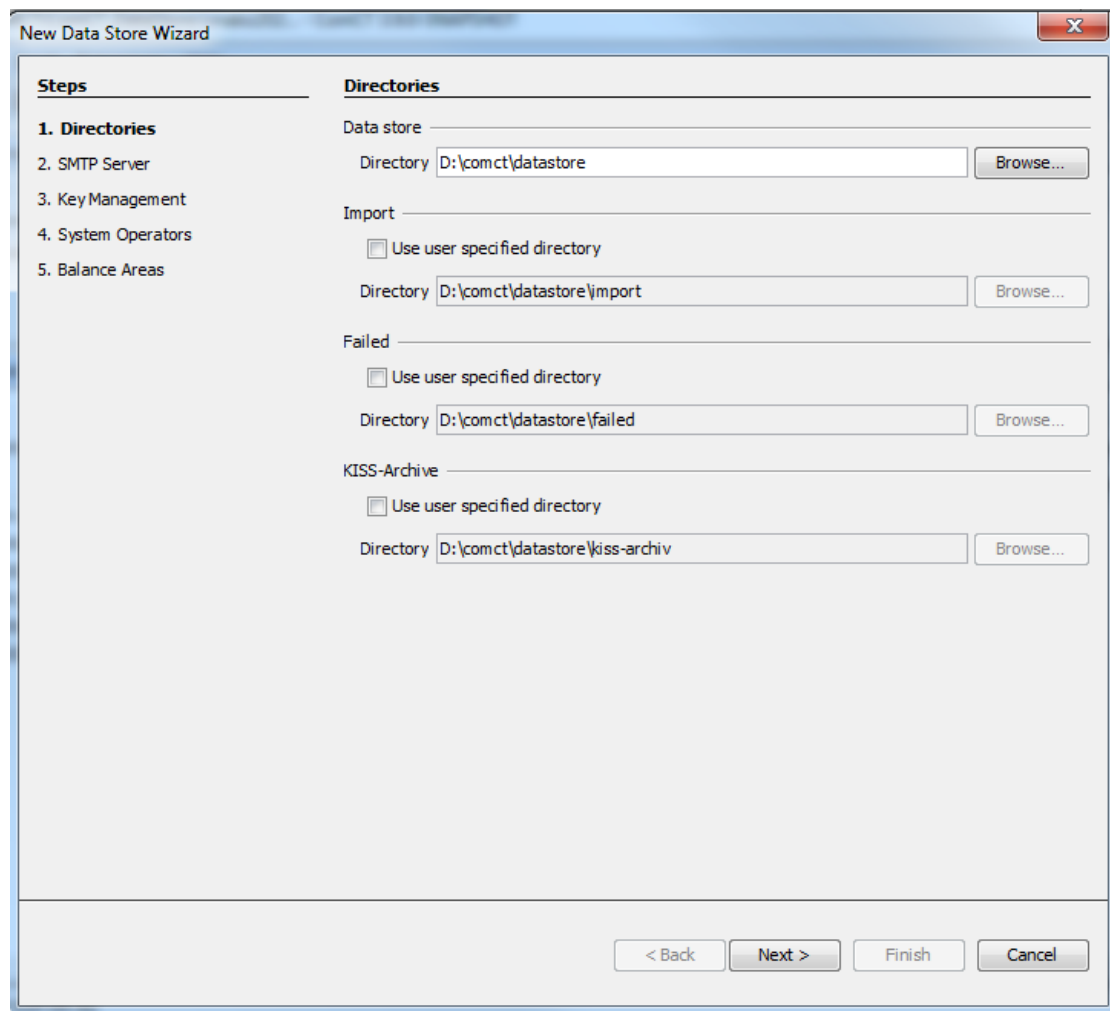


Figure 3. Data Store Wizard: Directories Panel

1.3.2. New Data Store – SMTP Server

Step 2 is for the configuration of the access to the mail server from which the schedule files are sent to the system operators.

Host: Here you have to enter the name of the SMTP-service server or directly the IP address of it.

Port: Please enter here the port of the SMTP-service. The default value is always set.

Sender email: Enter the email address of the sender of the email.

Send Copy To: Since the sent emails are sent directly by the SMTP server, the emails are not stored in a local mail client (like Outlook).

If you want to store the emails anyway. You can enter the email address that shall get the email in the field “Send Copy To”.

User name and password

Usually a mail server requires user authentication. In the setup dialogue you have to activate the checkbox „Use name and password“ and enter your user credentials. In a company’s network this often is the windows login user name and the corresponding password.

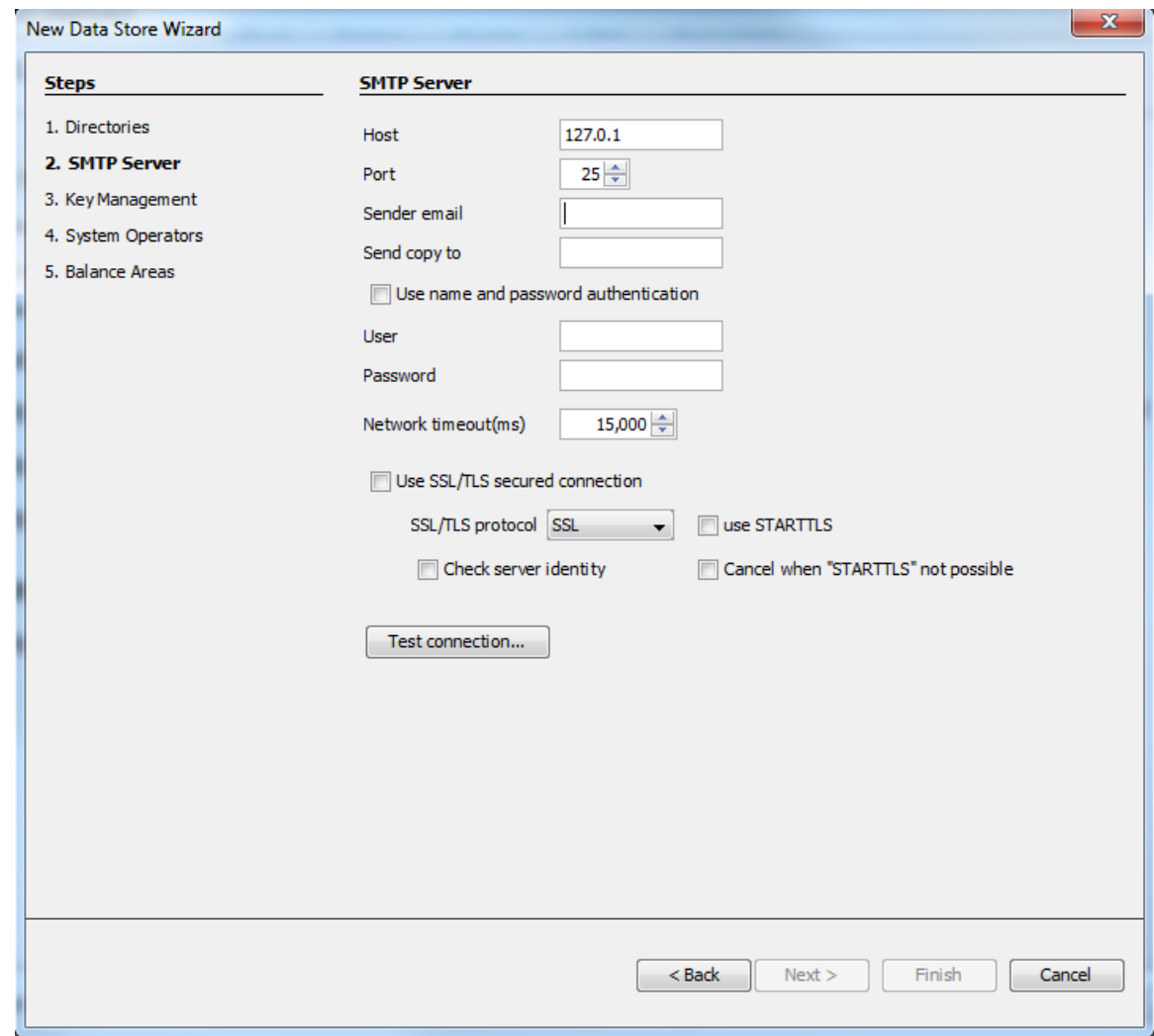
Warning: On most mail servers the senders email address must correspond to the user name.

The network timeout should not be changed in most cases. On a very slow network connection it may be necessary to increase the value.

Using SSL/TLS

Most modern public mail providers demand a secured connection for accessing and using their services. With the SSL/TLS options you can adjust the smtp connection to the requirements for your mail provider.

Note: ComCT requires a direct connection to the internet to use SSL/TLS. A proxy server may cause connection problems.



The screenshot shows the 'New Data Store Wizard' dialog box, specifically the 'SMTP Server' step. The 'Steps' pane on the left lists five steps: 1. Directories, 2. SMTP Server (selected), 3. Key Management, 4. System Operators, and 5. Balance Areas. The main area contains the following configuration options:

- Host: 127.0.1
- Port: 25
- Sender email: (empty text box)
- Send copy to: (empty text box)
- ☐ Use name and password authentication
- User: (empty text box)
- Password: (empty text box)
- Network timeout(ms): 15,000
- ☐ Use SSL/TLS secured connection
 - SSL/TLS protocol: SSL (dropdown menu)
 - ☐ use STARTTLS
 - ☐ Check server identity
 - ☐ Cancel when "STARTTLS" not possible

At the bottom of the main area is a 'Test connection...' button. At the bottom of the dialog are four buttons: '< Back', 'Next >', 'Finish', and 'Cancel'.

1.3.3. New Data Store – Key Management

In step 3 you can provide certificates and private keys for signing and encrypting mails towards the system operators.

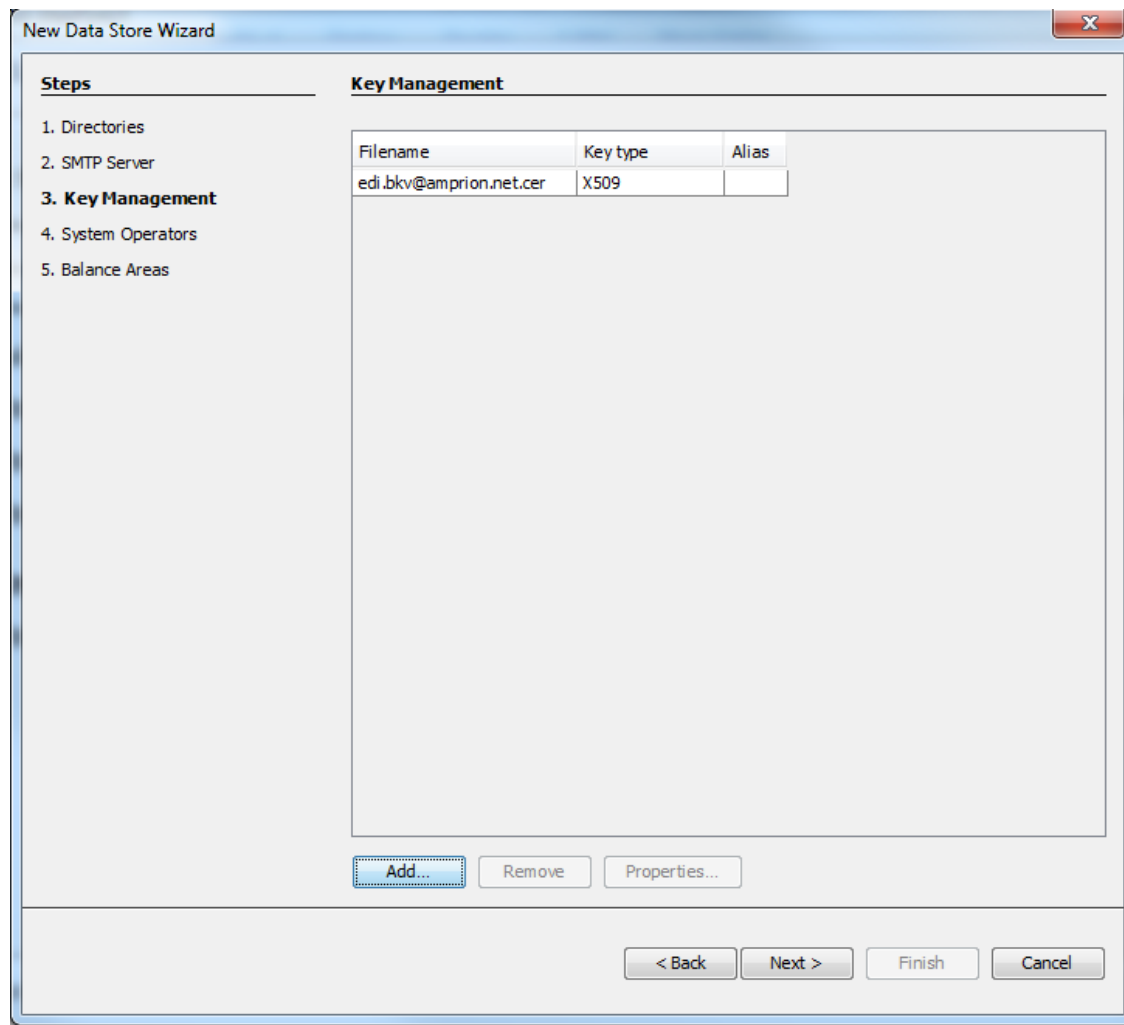


Figure 4. Data Store Wizard: Key Management

By clicking the „Add...“ button you can select a certificate file from the system operators or provide your own private key / public key pair file.

1.3.4. New Data Store – System Operators (TSO)

Subsequently, enter the transmission line network operators (TSOs) relevant to your company in the list (using the function Add... ).

The first tab, the general tab lets you select the system operator to be added / configured:

Identification: You can select the TSOs from the combo box. A free option to enter the TSO is not provided because of the special business logic included in ComCT for conversion.

Active: With this button you can make the TSO visible or not visible in the main overview.

Need balancing: Here you are able to deactivate the balancing verification (helpful by the nomination in Austria).

The screenshot shows the 'System Operator' window with the 'ESS-Version Adjustments' tab selected. The 'General' sub-tab is active, displaying the following configuration options:


- Identification:** 10XDE-RWENET---W (dropdown)
- Area:** 10YDE-RWENET---I (dropdown)
- Active:** ☒ Active
- Need balancing:** ☒ Need balancing
- Show Balancing:** ☒ Show Balancing
- Ignore missing time series:** ☐ Ignore missing time series
- Show accepted Acknowledgement Reports as warning, when they have additional Reasons:** ☐ Show accepted Acknowledgement Reports as warning, when they have additional Reasons
- Compression:** gzip-file (dropdown)
- Dispatch configuration:** (empty text field)
- Dispatch way:** Email (dropdown)

The 'Email' sub-tab is also visible, showing the following options:

- Receiver email:** (text field)
- Subject prefix:** (text field)
- Mail Content:** (large text area)
- Attachment encoding:** Automatic (dropdown)
- Mail-Security:** Signed then encrypted (dropdown)
- Private key:** (text field)
- Public key:** (text field)
- Signature algorithm:** SHA-256-RSA-PSS (dropdown)
- Encryption algorithm:** AES-128 CBC (dropdown)
- Key encryption:** RSAES-OAEP-SHA-512 (dropdown)

At the bottom right, there are 'OK' and 'Cancel' buttons.

Figure 5. System Operator Editor

Party	Dienstag, 11. Januar 2011							
	Import	Dispatch		System Operator				
		Version	ACK	Version	TS	ANO	Missing CNF	CNF
50XTRADER-0001-V								
10XDE-RWENET---W	001 							
10XDE-EON-NETZ-C								

Show balancing: A warning is displayed in the main overview if the checkbox is activated and a time series is imbalanced. This is represented by a warning icon that is dependent on the existence of the reason code A54: Global position not in balance. The deactivation of the warning is helpful when internal and external schedules are managed separately.

Bilanzkreis	Dienstag, 11. Januar 2011							
	Import	Dispatch		System Operator				
		Version	ACK	Version	TS	ANO	Fehlende CNF	CNF
50XTRADER-0001-V								
10XDE-RWENET---W	001							
10XDE-EON-NETZ-C								

Ignore missing time series: This button can activate/deactivate warning messages when a time series nominated in a previous schedule message is missing in the currently imported version.

Show accepted Acknowledgement Reports as warning... This checkbox can activate/deactivate the view mode of fully accepted Acknowledgement Reports as warning. It will be displayed as warning, when the checkbox is activated and a fully accepted ACK contains additional Reason Codes either on message header level or on Time Series Rejection level.

Compression

Select a compression method for the sent schedule messages. In Germany gzip compression will be mandatory in October 2021.

The dispatch way options have now moved to an own tab area:

Dispatch way: For the output of the files there are offered 5 dispatch ways:

- Mail
- FTP, SFTP
- SOPTIM AS4 SFTP (SAGA)

- File system

Dispatch way Email: The receiver address of the system operator has to be entered here. Optional you can enter a prefix text for the subject of the email for example ([DATA]). This prefix will then be combined with the file name into the subject field.

Since version 3.9.0 the email signature and encryption feature has been reengineered. Because of similar demands of the MaBiS extension and the german rules for transmission of schedule messages by mail from October 2019 onwards the key management dialog has been unified into the ComCT preferences.

For using the signature option you need at least a private key available in ComCT. You can provide a key within the key management dialog. Same goes for the additional encryption of emails where you have to provide the certificate of the system operator.

Since version 3.6.2 it is possible to adjust the attachment encoding for the case that the system operator is not able to process the emails because of the attachment encoding.

Dispatch way FTP: For the usage of the FTP dispatch way you have to enter the FTP server address.

You can enter the name or the IP address. You can also enter user credentials additionally, since this is the standard way of protecting access to an FTP

Dispatch configuration

Dispatch way: Email

Email | FTP Server | Directory

Receiver email: frontoffice@ampriion.net

Subject prefix:

Mail Content:

Attachment encoding: Automatic

Mail-Security: Signed then encrypted

Private key: comctsupport

Public key: edi.bkv@ampriion.net.cer

Signature algorithm: SHA-256

Encryption algorithm: AES-128 CBC

Key encryption: RSAES-OAEP-SHA-256

server folder. The port of the FTP server is required too. The default value is port number 21. A folder location has to be entered to tell ComCT where to put the schedule files. Default is the root directory “/”.

The FTP configuration has some additional options which should only be changed in case of errors connecting to the FTP server.

Network timeout: Timeout of connection regarding the network responsiveness.

Data connection timeout: Timeout for data transmission.

Data type: In most cases ASCII is the default type. But sometimes a change to IMAGE may be necessary – depending on the server configuration.

Control connection requires “Keep alive” command: When control and data connection is separated, some servers demand a periodic keep alive message to keep the connection active. Timeouts can be configured when checkbox is activated.

Use active FTP mode: Usually active and passive mode is supported by most FTP servers. In case of active mode it may be necessary to provide a different host name for the local client and also a different port range (i.e. due to firewall restrictions).

Dispatch way Store in directory: You can simply store the schedule files into a directory that is local or on a network file system. You then have to deliver the schedule files to the TSO by your own.

Dispatch ways

Dispatch way: FTP

Email FTP Server Directory

Server Name: 127.0.0.1

Port: 21

Remote Directory: /

User Name: User

Password: •••••

Network timeout(ms): 15,000

Data connection timeout(ms): 15,000

Data type: ASCII

☐ Control connection requires 'Keep alive' command

'Keep alive' Timeout(ms): 300,000

'Keep alive' Response-Timeout(ms): 15,000

☒ Use active FTP mode

☐ Use different host name for active mode

☐ Limit port area used for active mode

External host name:

Lower port boundary: 10,000

Upper port boundary: 11,000

Test connection

OK Cancel



Dispatch ways

Dispatch way Store in directory

Email FTP Server Directory

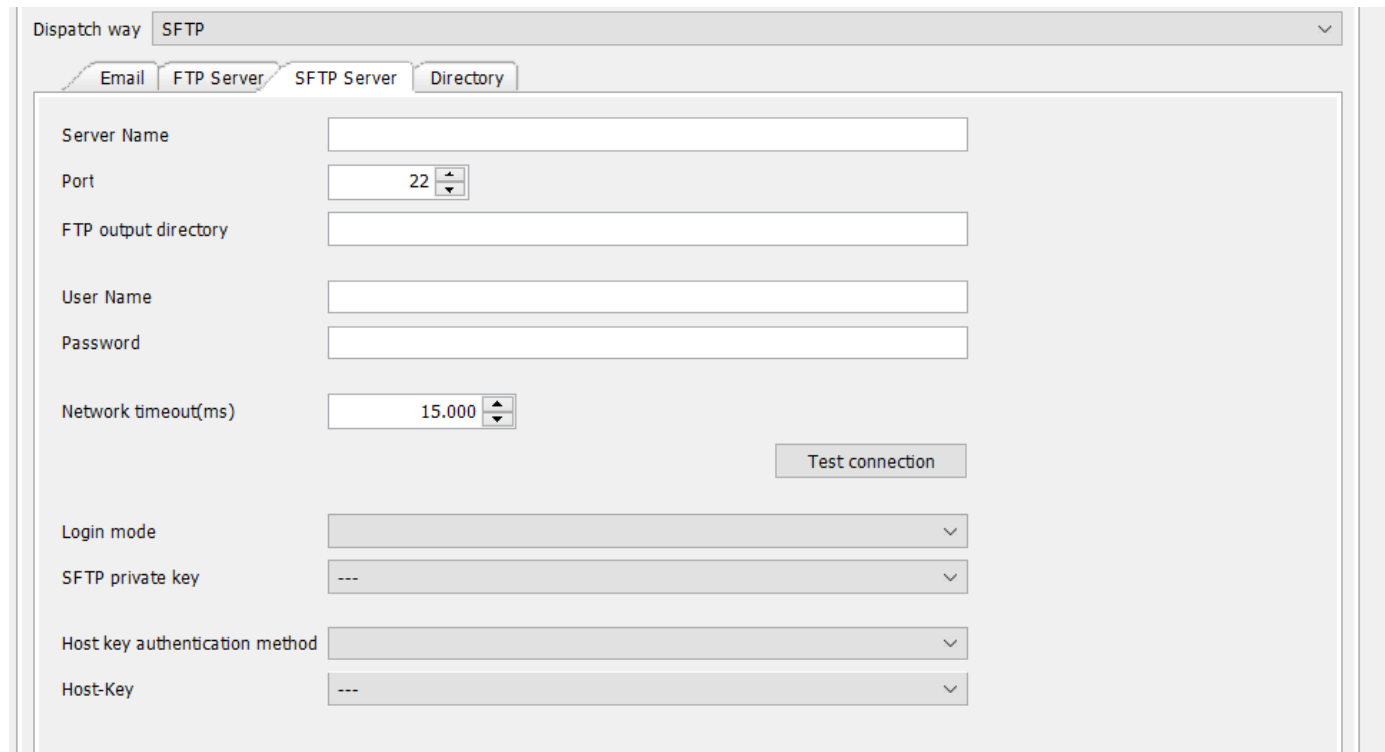
Path d:\comctOutFiles\schedulemessages Browse...

Dispatch way SFTP: For SFTP dispatch, you need to fill in a SFTP-Server or IP address and a port. Also you may need to fill in a user and password.

The “FTP output directory” specifies the place where dispatched files are stored on the SFTP server.

Network timeout: Timeout of connection regarding the network responsiveness.

Host Key: It is strongly recommended to use the feature host key validation. At first, you must get the host key of the sftp server and then upload the certificate into the key management area of ComCT. Then you will be able to select the previously uploaded host key here. ComCT will then verify the authenticity of the sftp server on each connection and will reject the connection if the authenticity cannot be ensured. You should then check whether the certificate has been renewed or whether an attempt was actually made to connect to the wrong server.



Dispatch way SFTP

Email FTP Server SFTP Server Directory

Server Name

Port 22

FTP output directory

User Name

Password

Network timeout(ms) 15.000

Test connection

Login mode

SFTP private key

Host key authentication method

Host-Key

Dispatch way SOPTIM AS4 SFTP (SAGA):

If SOPTIM AS4 SFTP (SAGA) is selected as dispatch way, the global SOPTIM AS4 SFTP (SAGA) settings are automatically filled in the SFTP dialog.

Configuration of the ESS/CIM Profiles:

ComCT supports beside the ESS v2r3 format also the ESS v3r3 format since ComCT 3.1.0. They can be edited in the second tab. Since release 4.0.0 the support for the CIM standard was integrated into ComCT.

The ESS/CIM version a system operator demands can be configured time-dependent in the tab „ESS-Version Adjustments“.

ComCT uses the concept of ESS/CIM profiles or ESS/CIM templates for schedule messages and status request messages.

An ESS/CIM profile contains default values for a schedule message of a certain kind. For example, for an external or internal trade and the necessary message header information.

When these fields have not been set in a KISS file, the currently valid profile from the system operator settings will be used to auto-complete the missing fields if possible.

When a KISS file has to be converted to an ESS/CIM schedule message the ESS/CIM version of the currently active ESS/CIM profile will be used to create the proper version of the ESS/CIM schedule message that has to be sent to the system operator.

For the swissgrid system operator there are special ESS profiles provided, that include the special requirements for the switch of the market rules that are scheduled for November 2011. For the swissgrid there is an ESS v3r3 and a ESS v2r3 profile that has the new required process type A17 set.

When an old data store is loaded the system operator has associated the default profiles for ESS v2r3 and ESR v1r0 for the status requests.

You can select the profiles by clicking the button „choose template...“. A new dialog allows you to select or deselect profiles.

Please be aware that there should be always one selected profile of kind TPS and one of kind SRQ selected.

An ESS/CIM Profile has a period where it is valid. As a default value a profile is always valid. In this case the cells valid from and valid to are left empty. The date intervals are defined as follows:

[valid from, valid to)

When a system operator decides to change ESS/CIM format from a certain date onwards, you have to enter the start and end dates for the new / the old ESS/CIM profile for the system operator in the ESS-Version Adjustments tab.

In the example a proper configuration is shown for the switch date 01.01.2012 from ESS v2r3 to ESS v3r3 and from ESR v1r1 to ESR v2r0.

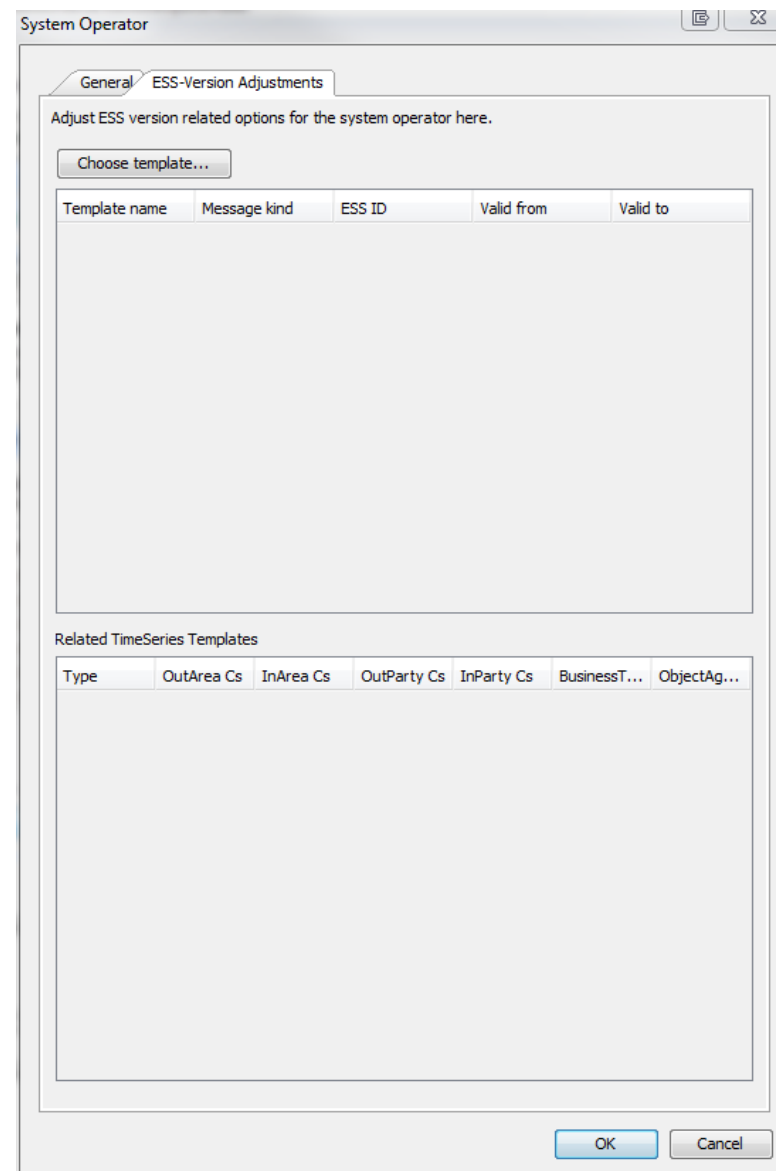
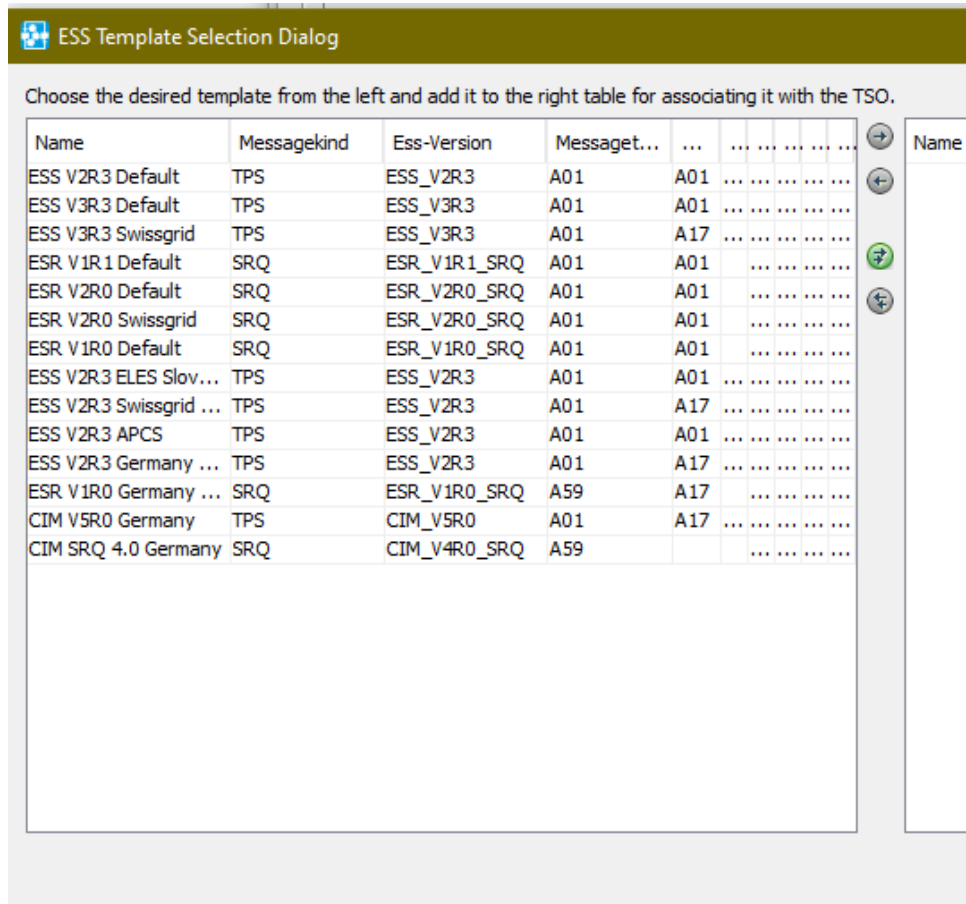


Figure 6. ESS version adjustments dialog

An ESS/CIM Profile also sets the way how the XML header of the target file is written, since some system operators may require different XML headers in the future (XML format header like schema reference or style sheet references).

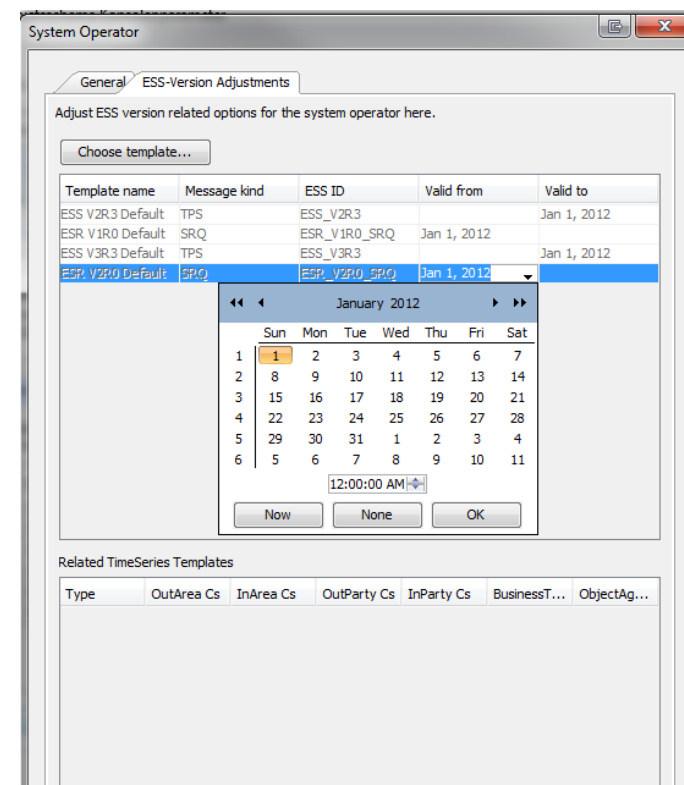
Since this is a very technical adjustment this configuration is hidden from the user as good as possible but it is good to have this in mind too.



Hint: Special cases in Austria:

The "BKO's"/balance areas are being accessed with the receiver role A05.

Excel-schedule files for/ to a balance area must already have the X-EIC code in the second part of the schedule file name. For this no conversion from X to Y EIC code will be done.



1.3.5. New Data Store – Balance areas (own balance area)

Balance area (own balance area)

This function is used to enter details on the internal balance area (or internal balance areas).

Enter the EIC code in the identification field. For Germany this can also be a Y-EIC code (for nomination within Germany as a second balance party).

Optionally, the 'Export path' may be set up specifically for a particular balance area for potential CSV exports. If no details are entered, the application will use the entry from the general directories.

The transmission line network operators with whom the balance area registers its time series need to be entered in the list of System Operators. The TSOs will then be displayed in the main summary.

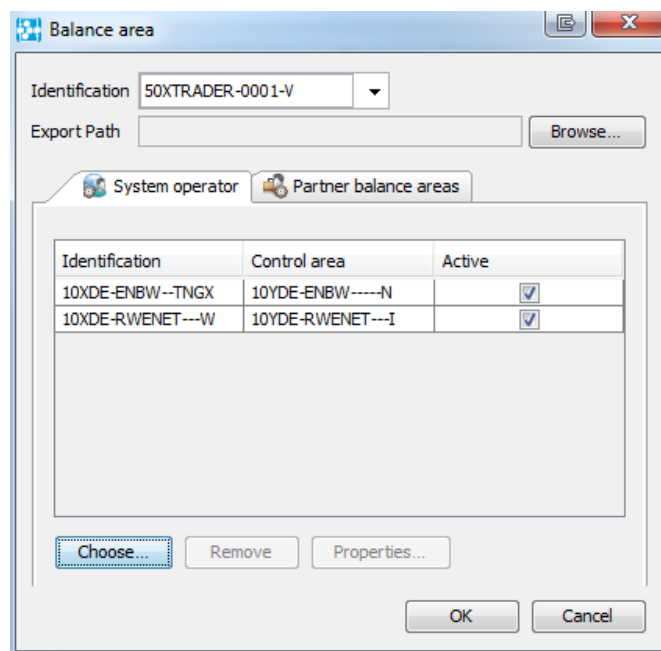


Figure 7. balance responsible party: System Operator association

Optionally, the Partner Balance Areas may also be stored. When importing, a check is carried out to determine if the partner balance areas relating to the timetables have been stored here.

Since ComCT 3.4.0, if new partner balance areas are identified, the system will automatically add the new partner balance areas as partner.

In the partner balance area you can change this behaviour back to the requirement to manually add the partner balance areas. If the checkbox is activated and an unknown partner balance area occurs in a schedule message, the schedule message will be rejected on import with an error annotation.

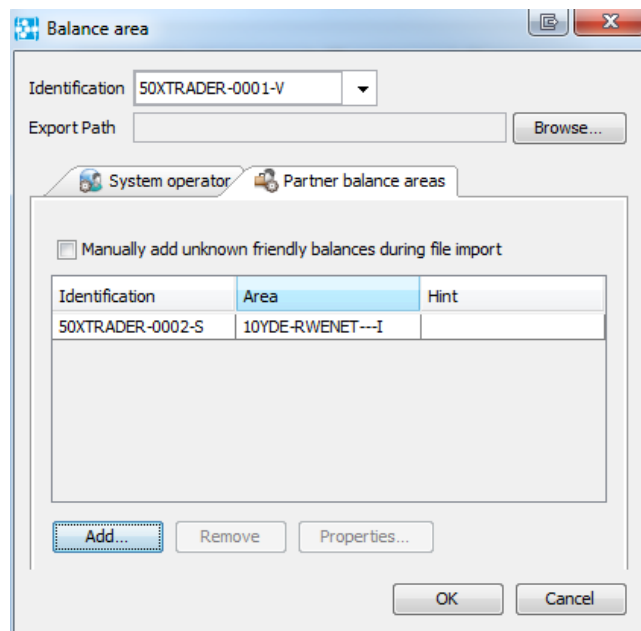


Figure 8. Partner editing on balance responsible party

1.4. License management

For the usage of ComCT with all features activated you have to purchase a maintenance contract since ComCT version 2.0.0.

Information about the current services and license models can be requested by contacting SOPTIM AG or have a look at the companies' website <https://www.soptim.de>.

A license is represented by a license file that has to be imported into ComCT and that needs to be available during start of the application in the license folder (<path-to-ComCT-installation>\License) of the ComCT installation folder.

For the management of the license files ComCT offers the licensing dialogue that can be opened in the help menu: "Help/Licensing".

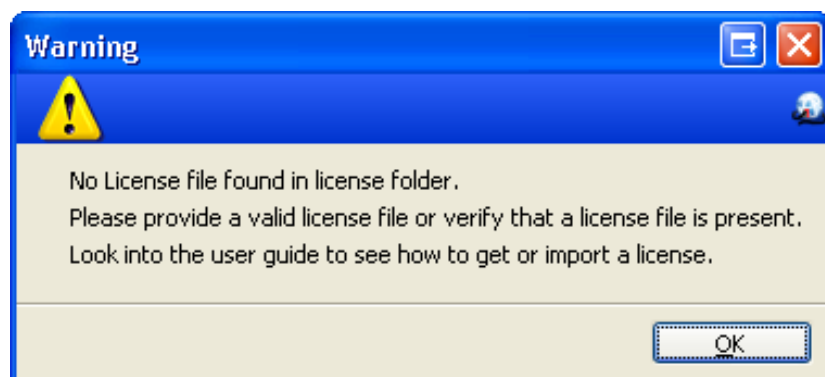
Start without a license

When starting ComCT without a license a warning message will be shown. ComCT can be used without a license but is restricted in some features. Without a license you cannot send schedule files to the system operators.

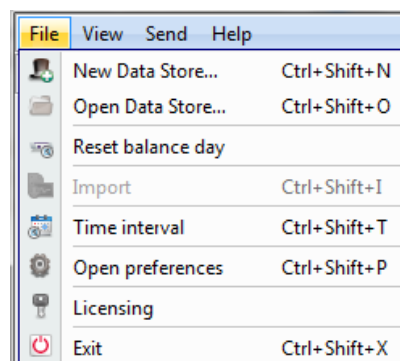
Importing a license file

A license file can be imported manually or by a dialogue in the ComCT application.

When you want to import the license manually you have to copy the license file into the ComCT installation directory in the subdirectory „License“. It is important, that already present license files are removed or archived, since only one license file can be active.



When importing the license file with the proper dialogue in ComCT you have to open a data store and then open the dialogue „License dialog“ by clicking File / Licensing in the menu bar.



The dialogue provides information about the currently active license file. Initially all fields are empty.

With the field "License file" in the area "License management" you can provide a path to the license file.

The "Browse"-button can be used to select the file from the directory tree.

With the button "Import" the license file will be copied to the license folder of the ComCT installation and is then initialised by ComCT.

The option "Replace all present licenses" should be kept activated. By this option an already present license file will be archived into a subfolder of the license folder. When the checkbox is deactivated you have to make sure that only one license is present in the license folder by yourself.

You can also configure a custom folder for placing the license files into. For this you have to deactivate the checkbox "Use default license folder" and browse for the custom license folder. Finally you have to click the button "use new location as license folder" in order to activate the changes.

License dialogue information area

In the area „License Information“ you see details about the currently active license file.

The field „License file“ shows the name of the license file.

The field contract shows the identification code of the associated contract that is connected to the license file.

„License Date“ shows the day the license has been released.

The screenshot shows the "License Dialog" window with the following sections:

- License Information**: Fields for License file, Contract, License date, and Comment.
- Licensed EIC codes for core application**: A table with columns: Responsible Balance Area, Valid from, Valid to, and State.
- Licensed additional modules**: A table with columns: Module, Valid from, Valid to, and State.
- License upload**:
 - ☒ Backup and replace already present license(default)
 - License File: [Text Field] [Browse...]
 - ☒ Show expiration warnings on startup [Import license file]
- License folder path**:
 - The default license folder is the ComCT installation directory. Here you can choose an alternative location
 - License folder: [C:\Program Files (x86)\Communication Client for Traders 3.3.0\license] [Browse...]
 - ☒ Use default license folder (ComCT installation directory) [Use new location as license folder]
- [Close]

The list shows the registered EIC codes of the licensed balance areas. The table shows information about the validity and the state of the license for the balance areas.

License Dialog

License Information

License file: COMCT_License_Test.lic
 Contract: Test
 License date: 04.06.2012
 Comment:

Licensed EIC codes for core application

Responsible Balance Area	Valid from	Valid to	State
11XTRADER0001--1	Feb 1, 2012	Jun 19, 2012	Expires soon (1 days)
11XTRADER0002--Y	Feb 1, 2012	Jun 1, 2012	Expired
11XTRADER0003--U	Jun 20, 2012	Feb 28, 2013	Pending
11XTRADER0004--Q	Feb 1, 2012	Feb 28, 2013	Active

Licensed additional modules

Module	Valid from	Valid to	State
MABIS	Feb 1, 2012	Feb 28, 2013	Active

License upload

☒ Backup and replace already present license(default)

License File

☒ Show expiration warnings on startup

License folder path

The default license folder is the ComCT installation directory. Here you can choose an alternative location

License folder

☒ Use default license folder (ComCT installation directory)

1.4.1. Requirement: Write access to the license folder

For the correct functionality of the license import dialogue the application requires write access to the license folder in the ComCT installation folder.

If you have problems during import of a license file and the error message gives a hint to missing write access, ask your administrator or contact your companies IT support for installation of the license file.

Depending on the operating system you use the necessary steps may differ. If the installation of the license file with the help of ComCT is not possible you still have the possibility to copy the license file manually into the license folder.

In newer Windows versions like Vista or Windows 7 the manual copy may require an additional confirmation of a warning message and a message where the operating system tells you that administration rights are required.

Get write access in Windows Vista / Windows 7 permanently:

Windows Vista und Windows 7 restrict the access to the partition where the windows installation is located with the UAC mechanism (usually C:\).

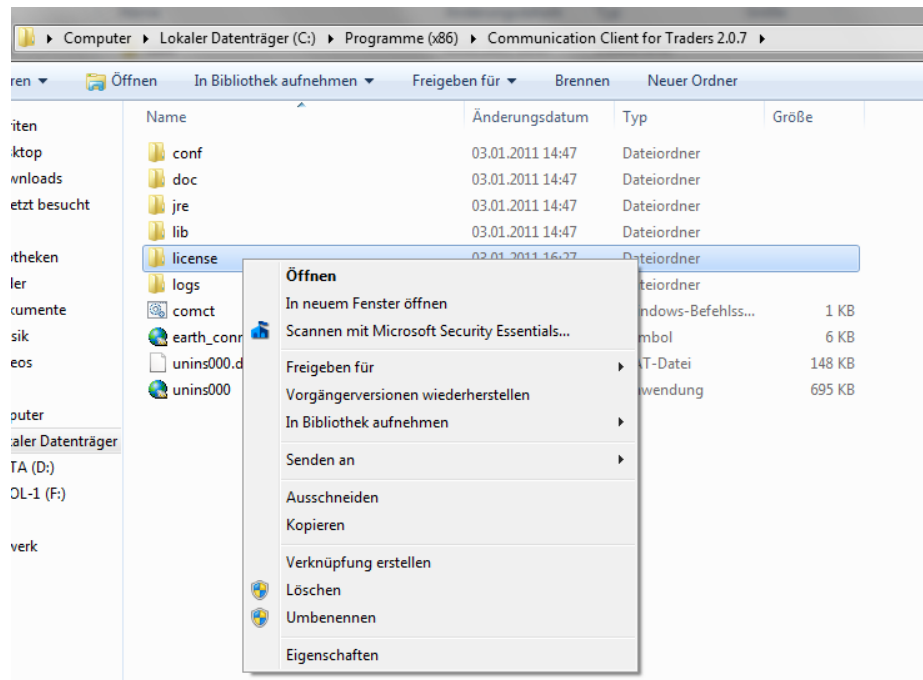
If ComCT is installed on the same drive letter, that is the default setup, it is possible that the import of the license file may not be successful due to missing write access to the ComCT license subfolder.

Windows Vista / 7 offer the rights management options where you can grant access to the ComCT license folder permanently.

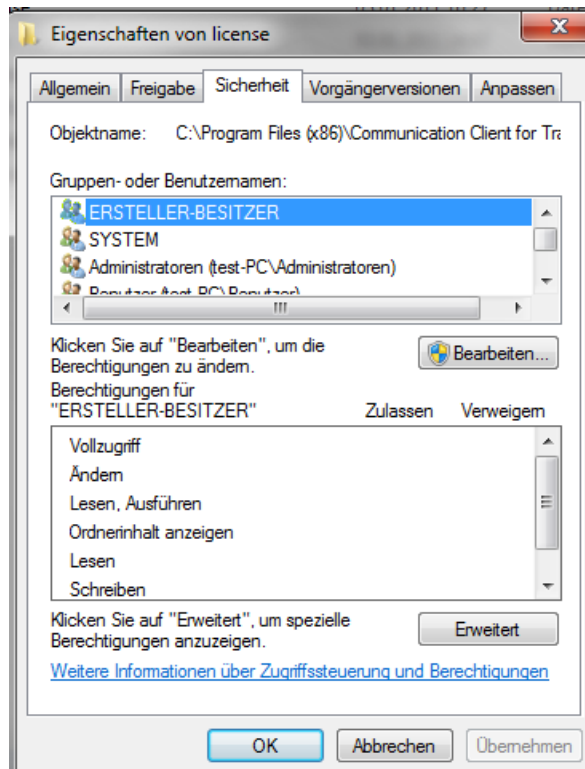
If you don't have administration rights on your local machine or you work in a company where IT support is responsible for any change on the computer, please ask the support to give you write access to the specified folder or let them install the license for ComCT.

For the editing of a standalone PC follow these steps:

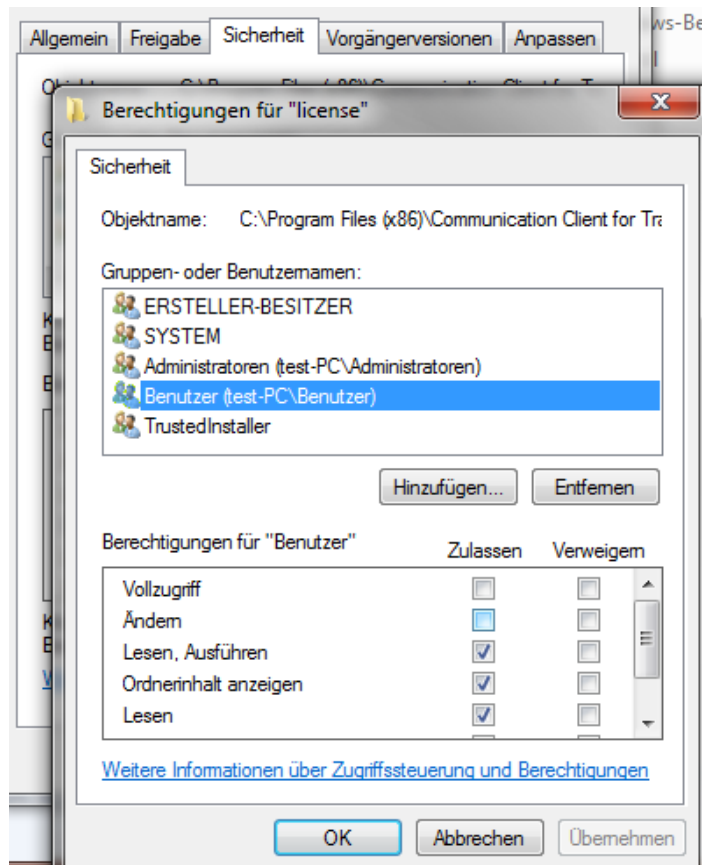
1. Navigate to the ComCT installation folder with the Windows explorer.
2. Do a right click on the folder „license“



3. Click on the option „Properties“ and then select the tab „Security“:



4. Click on the button „Edit...” in order to change the access rights for the folder.



5. Choose your Windows username and change the listed access rights in the lower panel if necessary. Close the preferences panel by clicking on the OK button. The new access rights will then be stored and you now have access rights to the license folder and are able to copy the license files into ComCT.

2. Operation and Functions

2.1. Limitations

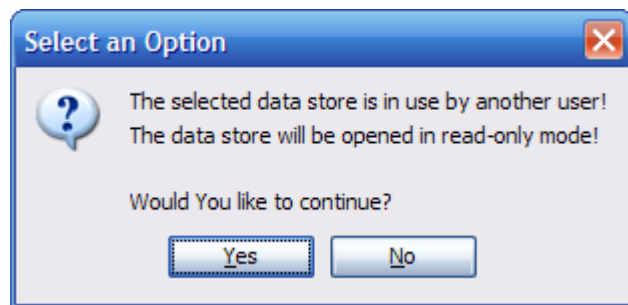
The following limitations apply to the operation of the application:

- Multi-user capability

ComCT may be set up for use by more than one user. This requires data (the data store) to be stored on a File Server.

The display and search functions are equally available to all users. However, the processing functions (import and dispatch) can only be launched by one user at any given time.

When opening the data store, the system checks if the data store has already been opened by another user. If yes, the following message is displayed



and you can then only open the data store in 'Read Only' mode. The mode is then displayed in the top left hand corner of the window title.

Import of TSO responses

TSO responses are currently not automatically retrieved. Response files received via email or FTP or existing responses need to be transferred/ filed manually in the import directory. Processing is then handled automatically by the import directory.

2.2. Start

After the start of ComCT the following options are available:

Select time interval to start with

With the options („First day“ and „Last day“) the focus time interval in the main overview of the opened data store is set. The default value is from yesterday until tomorrow.

Create New Data Store

This option opens the Data Store Wizard that guides you through the creation of a new Data Store.

Open a Data Store

With this option you can browse for an already existing Data Store in the file system.

Since ComCT 1.1.7 the application detects when a Data Store has been copied to another location. ComCT can then automatically change the directory paths of the Import, Export and Kiss-Archive directories to the new location when opening the copied/ moved Data Store.

A necessary requirement is that the folder structure is equal to the default folder structure provided as default value during Data Store creation. When you defined own folders for import/export etc. a hint is shown that a Data Store copy / move process has been detected and that the user should verify the new directory paths.

Exit ComCT

This link exits the application.

After opening a Data Store the Data Store main overview is shown with the previously set time interval as initial focus.

2.3. Partitioning of the main summary

The main summary is split into three sections. General information is shown on the top left hand side, with the list of partner balance areas appearing next to it. Current registration information on the defined viewing period is displayed in the centre and below in a total summary.

Main view of ComCT

General information

Time interval

First day: Montag, 3. Januar 2011

Last day: Montag, 17. Januar 2011

of days: 15

XML-files count: 0

Excel-files count: 0

ZIP-files count: 0

Import

Partner balance areas

Partner Balance Identi...	Area	First use	Last use
Party: 50XTRADER-0001-V			
50XTRADER-000...	10YDE-RWENET---I	07.01.2011	10.01.2011
50XTRADER-000...	10YDE-EON-----1		

Total summary

Party	Mittwoch, 5. Januar 2011								Donnerstag, 6. Januar 2011							
	Import	Dispatch	System Operator						Import	Dispatch	System Operator					
			Version	ACK	Version	TS	ANO	Missing CNF			CNF	Version	ACK	Version	TS	ANO
50XTRADER-0001-V	001	001	001	0e / 1i	0e / 1i	0e / 1i	0e / 0i	001	001	001	001	0e / 1i				0e / 1i
10XDE-RWENET---W																
10XDE-EON-NETZ-C																

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Description of the main view columns for each day column:

- Import: the message version of the last imported file

- Dispatch: Message version of the last sent message
 - Version: the last sent message version
 - ACK: Acknowledgement status of the last sent message

The data from the system operator divided by intern/ extern time series:

- Version: Last accepted version
- ACK: Message status of Acknowledgement
- Amount ANO
- Amount Missing Confirmation
- Amount (final/intermediate) CNF
- Sent version (with ACK information when received)

2.3.1. General information

The following information is displayed in the section 'General information':

Data fields		
Identifier	Comments	Characteristics


Viewing period (Time interval)
from, to, number of days

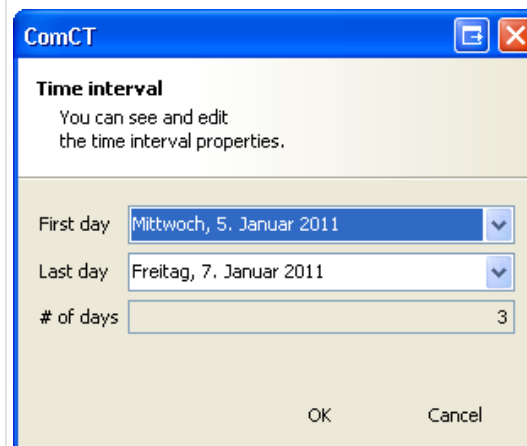
Used to set the current viewing period (namely the focus days).

Details are input with a from and a to date. In addition to the pure date information, the system also displays the respective related weekday as well as the duration, i.e. the number of days.

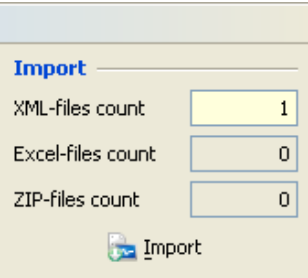
By setting the focus days, the system determines the days which are to be displayed in the timetable summary.

When launching the program, the system pre-sets the focus days with the date information of 'yesterday' to 'tomorrow', whereby weekends are counted as a single day. For example, on a Friday, the system displays the days from Thursday to Monday and on a Monday, the system displays the days from Saturday to Tuesday.

The viewing period is set via a separate dialog which is launched from within the toolbar()


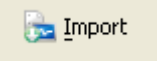


Input fields for the
configuration of the
timetable summary

<div>Import</div> <div>XML file count XLS file count</div> <div>ZIP file count</div> <div></div>	<p>This shows how many files are ready for import. The system differentiates between XML (ESS) and XLS (KISS) files and zipped files.</p> <p>As soon as files are ready for import, the system activates the smart icons for import. At all other times, the smart icons remain deactivated.</p> <p><i>HINT:</i> Only files with write access are counted.</p>	Display field
---	--	---------------

On import, the system reads in and checks the trader timetables. In addition, the system also reads in and allocates the acknowledgements of the transmission line network operators. For example, potential error messages in ACK or ANO are highlighted in the related timetable files.

New versions of timetable files are read in via the central import directory. In this case, the system in particular runs the related version tests. It is currently not possible to directly capture or change timetable files within ComCT.

Functions		
Identifier	Comments	Characteristics
<div>Start import</div> <div>(Toolbar or  Button)</div> <div></div>	<p>The import function is used to read in all files from the central import directory.</p> <p>In the event more than one file has been received, the system displays the related progress report. The import process can also be interrupted/ stopped by highlighting the progress report.</p> <p>The system will attempt to read in all files. On completion/ interruption of the import process, the system displays the import result in form of a summary.</p> <p>Any files containing errors are stored in the Failed directory.</p>	-

Display of import results

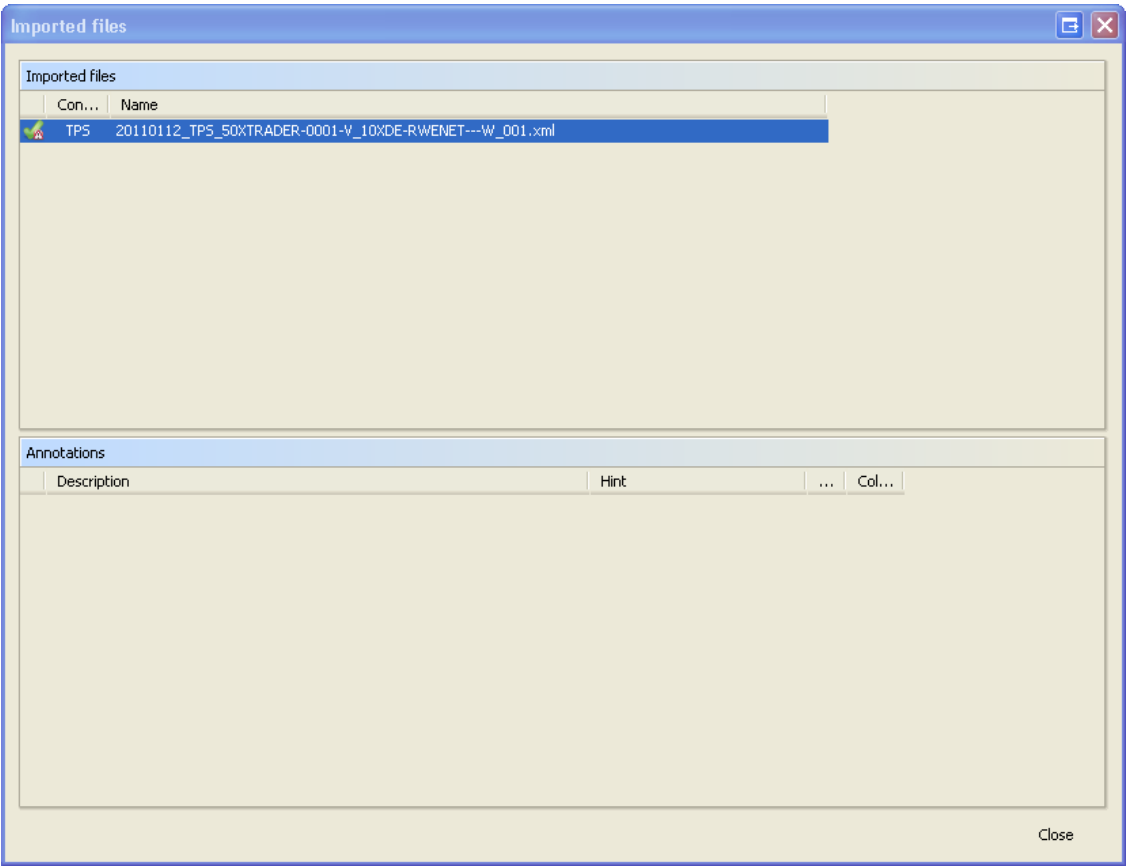
On completion of the import process, the system displays the result for each file in the following summary:

Basically, there are four possibilities:

- a. The file has been successfully imported without any errors (the file is stored in the related internal balance area and according to the registration date)
- b. The file has been imported together with alerts (the file is stored in the related internal balance area and according to the registration date) and
- c. The file has been imported with errors (the file is stored in the related internal balance area and according to the registration date) and
- d. The file has not been imported due to an error (in this case the file is stored in the Failed directory under the day's date)

No report is displayed in the lower section on the imported files. However, by "double clicking", the file is displayed together with any alerts and error messages.

The import lists displays all read in files together with the related import result.



Data fields for "imported files"		
Identifier	Comments	Features

(Status/ result) Column 1	<p>Displays the import result in form of a symbol:</p> <p>✅ OK, the file has been imported error-free, without any errors and without alerts.</p> <p>✅ ⚠️ OK, the file has been imported with alerts (i.e. not balanced) but without errors.</p> <p>✅ ❌ not OK, the file has been imported with errors, the file can not be sent.</p> <p>❌ not OK, the file has not been imported as a result of serious errors.</p>	Display field
Content	<p>Displays the identified data type:</p> <p>TPS Timetable Registration</p> <p>ACK Acknowledgement Report</p> <p>ANO Anomaly Report</p> <p>CNF Confirmation Report</p>	Display field
File name	Displays the file name.	Display field

All errors identified in respect of the selected file are listed in the lower error list.

Data fields for annotations		
Identifier	Comments	Characteristics
Type	<p>Displays the error type as shown in the file status field:</p> <ul style="list-style-type: none"> Error entry Alert 	Display field
Description	Provides more detailed information on the error and/or alert.	Display field
Hint	Provides any additional information in respect of the message.	Display field
Column	Shows the related/ affected column/ symbol.	Display field

Row	Shows the related/ affected row.	Display field
-----	----------------------------------	---------------

2.3.2. Partner balance areas

The summary of the partner balance areas shows the internal balance areas together with the related partner balance areas as follows in a tree structure:

Partner balance areas			
Partner Balance Identification	Area	First use	Last use
<div> <div>Party: 50XTRADER-0001-V</div> <div> <div>50XTRADER-0002-S</div> <div>10YDE-RWENET---I</div> </div> </div>			

Data fields for partner balance areas		
Identifier	Comments	Characteristics
Party	Displays the internal and related partner balance areas.	Display field
Area	Displays the control zone for the relevant partner accounts community.	Display field
First Time	Shows the date of the first timetable registration with this partner balance area in the respective control zone.	Display field
Last Time	Shows the date of the last timetable registration with this partner balance area in the respective control zone	Display field

2.3.3. Total summary (status and status information)

The design of the timetable summary (Total Summary) allows the overall status of the timetable registration to be viewed in relation to the defined viewing period and per TSO - as illustrated in the example below. The system in particular differentiates between critical and normal information.

As shown in the illustration below, it is possible to maintain more than one reportable balance area.




The colours have the following meaning:

red: Error event the user must/ should react

yellow: Expected event the process has not been completed yet, the system is still waiting for information/ events

green: OK event the expected information has been received and does not contain any errors

white: pure information neither unexpected information received nor is information missing



Total summary																
Party	Mittwoch, 5. Januar 2011								Donnerstag, 6. Januar 2011							
	Import	Dispatch		System Operator					Import	Dispatch		System Operator				
		Version	ACK	Version	TS	ANO	Missing CNF	CNF		Version	ACK	Version	TS	ANO	Missing CNF	CNF
50XTRADER-0001-V																
10XDE-RWENET---W	001		001		001	0e / 1i	0e / 1i	0e / 1i	0e / 0i	001	001		001	0e / 1i		0e / 1i
10XDE-EON-NETZ-C																

Please find below additional comments on the individual status information:

Data fields for the Total Summary

Identifier	Comment	Characteristics
------------	---------	-----------------



Data fields for the Total Summary		
Party (TP, TSO)	<p>Shows the internal balance areas together with the respective related TSOs (control zones) in a tree structure.</p> <p>The relevant allocations as to which TSO is to be displayed in each case are made during the set up of the data store and can subsequently be changed via the menu item File □ Preferences (Register Balance Areas).</p> <p>By deactivating the active indicator, control zones where no trading takes place can be made invisible</p> <p>.</p>	Display field
Import	Displays the last/ topmost successfully imported registration version.	Display field <ul style="list-style-type: none"> • Continuation func. Double click for individual display
Dispatch version	Displays the last/ topmost transmitted registration version	Display field <ul style="list-style-type: none"> • Continuation func. Double click for individual display

Data fields for the Total Summary		
Dispatch - ACK	<p>Shows if an ACK has already been received for the last version sent and if yes, with which content. A differentiation is made between the following information:</p> <ul style="list-style-type: none"> • <empty> No acknowledgement received as yet •  Ok, the timetable registration has been fully accepted • Qualified ok, the timetable registration has been accepted with alerts •  Not ok, the timetable registration has been rejected due to errors 	Display field
TSO version	<p>Displays the last version to be positively accepted by the TSO. This version is therefore the version currently available to the TSO.</p> <p>Registration versions that have been rejected by the TSO (ACK with 'fully rejected') are therefore not taken into account in this field.</p>	Display field <ul style="list-style-type: none"> • Continuation func. Double click for individual display
TSO - TS	Shows the number of external and internal timetables contained in the registration in respect of the current TSO version.	Display field
TSO - ANO	Shows the current number of external and internal timetables with anomaly reports in respect of the current TSO version.	Display field <ul style="list-style-type: none"> • Continuation func. Double click for individual display
TSO - missing CNF	Shows the number of external and internal timetables for which no confirmations have currently been received in respect of the current TSO version.	Display field <ul style="list-style-type: none"> • Continuation func. Double click for individual display

Data fields for the Total Summary		
TSO - (final) CNF	<p>Shows if a confirmation has already been received. The display differentiates between the following:</p> <ul style="list-style-type: none"> • OK Green display, the timetable registration has been confirmed as registered. not OK Yellow display , at least one timetable has been confirmed in variance to the registration (imposed). <p>If the Final Confirmation (namely the confirmation of the day after) has already been received, the system also displays an 'F'.</p>	<p>Display field</p> <ul style="list-style-type: none"> • Continuation func. Double click for individual display



In the context of the Total Summary, the following functions are available:

Functions		
Identifier	Comments	Characteristics

Functions		
<p><i>Special features:</i></p> <p>"Mark as sent"</p> <p>and</p> <p>"Reset to last sent file"</p>	<p>The context menu that can be opened by right-clicking in the import version field offers the options "mark as sent" and "Reset to last sent file".</p>  <p>The feature "Mark as sent" sets the currently imported TPS message as sent, even if the message was not really transmitted to the system operator. The TPS version is now displayed in the dispatch column.</p> <p>The feature "Reset to last sent file" removes the last unsent TPS message from the data store. The new current TPS file is set to the last sent version.</p>	
<p><i>Special feature:</i></p> <p>"Mark as accepted"</p>	<p>The context menu for this feature can be opened by clicking the right mouse button in the column dispatch version.</p>  <p>When you click on the button "Mark as accepted" the sent message will be internally set to accepted, even if no ACK message was imported. This allows you to import CNF messages without the presence of any Acknowledgement Report files.</p>	

Functions		
Individual display	Individual displays are shown by double-clicking on the following fields: Import Dispatch Version TSO Version TSO ANO TSO missing CNF TSO (final) CNF	-

Functions

Symbol  or 

Menu

Send – Schedule Messages

Use this menu item to start a dialog to send the timetable files.

Send Schedule Message

Messages for day(s)...

☒ All from selected Time Interval

☐ Concrete Day

Mittwoch, 5. Januar 2011

Balance area(s)...

☒ All

☐ Concrete

50XTRADER-0001-V

ScheduleMessage(s)...

☒ All Messages that have not been sent

☐ All

☐ Include messages which failed on import

Date	Party	System Operator
------	-------	-----------------

Send

Cancel

Use the settings 'Messages for day(s)' , 'Balance area(s)' and 'Schedule Message(s)' to display the related timetables in the lower list.

The default setting displays all timetables for the current period that were not sent yet.

You can also use this setting to re-send files which have already been sent.

Functions

Menu:

Send – Status Requests

Use this menu item to start a dialog to send a status request.

Send Status Request

Messages for day(s)...

☒ All from selected Time Interval

☐ Concrete Day: Mittwoch, 5. Januar 2011

Balance area(s)...

☒ All

☐ Concrete: 50XTRADER-0001-V

ScheduleMessage(s)...

☒ All Messages that have been sent

☐ All

Date	Party	System Operator
------	-------	-----------------

Send Cancel

Use the settings 'Messages for day(s)', 'Balance area(s)' and 'Schedule Message(s)' to display the information related to the status request (date, internal balance area, TSO) in the lower list.

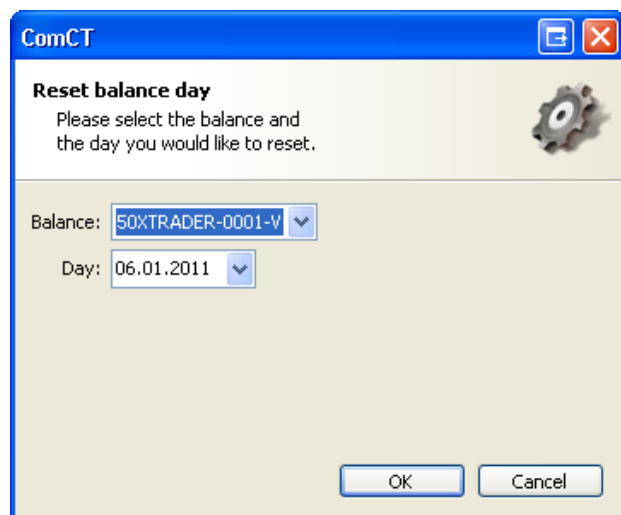
This setting displays an entry in respect of all timetables dispatched in the viewing period.

The default setting lists entries for all dispatched messages in the viewing period.

2.4. Extra features

2.4.1. Reset a balance day

In the main menu (File / Reset balance day) you have the option to completely reset a balance day for one balance party. The day status for this balance day is then saved in the folder <store>/<balance party>/<schedule day>"_corrupted" and the schedule day state is after the reset process empty.



2.4.2. KISS-Import with additional ESS-fields

In the Excel file you can enter special Message types in the register "ESS_Info". For example, you can represent the type station blackout („Z10“) as follows:

	A	B
1		
2		
3		
4	Process type	
5	Message type	Z10
6	Domain	
7	Domain coding scheme	
8	Subject party	
9	Subject role	
10	Subject party coding scheme	
11	Matching period	
12		
13		

Info ESS_Info Intern Extern

You also can enter special process types like „A02“ (concerning switzerland only) for Intraday as shown in the screenshot. For the changes to the swissgrid market rules that are scheduled to November 2011 you have to enter process type A17 instead of A02.

	A	B	C	D
1				
2				
3				
4	Process type	A02		
5				
6				
7				
8				
9				

Info ESS_Info Intern Extern

	A	B
1		
2		
3		
4	Process type	A17
5	Message type	
6	Domain	
7	Domain coding scheme	
8	Subject party	
9	Subject role	
10	Subject party coding scheme	
11	Matching period	
12		
13		

Info ESS_Info Intern Extern

In the comments-area of the extern register you can enter data for cross-border scheduling. The fields "Business type", "Capacity contract type" and "Capacity agreement identification" have to be provided.

	A	B	C
1	Extern	Datum	14.11.2005
2		aus Regelzone	10YDE-RWENET---I
3		an Regelzone	10YFR-RTE-----C
4		von Bilanzkreis	11X-BK-7-----1
5		nach Bilanzkreis	11X-BK-7-----1
6			TPS
7		Absender/Bilanzkreisverantwortlicher	11X-BK-7-----1
8		Version	1
9	Kommentarbereich	Business type	A03
10		Capacity contract type	A01
11		Capacity agreement identification	4711
12			
13			
14			
15	Kontrollsumme:	[MWh]	2016,133
16			
17	von	bis	MW
18	00:00	00:15	60.000

3. Individual Display

Individual displays are launched from within the main summary by double-clicking on the relevant timetables to be viewed, whereby the system differentiates between the following views:

Timetable file (if appropriate, including related ACK notifications)

Anomalies (via ANO)

Confirmations (via CNF)

Double-click on the import, dispatch or TSO version to display the related timetable file.

The timetable view can be switched between compact and full ESS view by clicking on the ETSO symbol () on the top right hand side.

3.1. Timetable view (compact)

In the individual display of timetable files, any error messages (via ACK) are highlighted in colour and visually displayed in relation to the affected areas (Message, Time Series and Period).

Schedule Message

Content: Trade-responsible party schedule Sender:

Version/ID: 50XTRADER-0001-10XDE-RWENET---10106 Receiver:

Time interval: Date and time:

Schedule Time Series

Date: 06.01.11

Out Area	10YDE-RWENET---I
In Area	10YDE-RWENET---I
Out Party	50XTRADER-0001-V
In Party	50XTRADER-0002-S
Version	001
Identification	rrs50XTRADER-0002-S
Responsible Party	50XTRADER-0001-V

Pos.	From	To	MAW	
1	00:00	00:15		0,000
2	00:15	00:30		0,000
3	00:30	00:45		0,000
4	00:45	01:00		0,000
5	01:00	01:15		0,000
6	01:15	01:30		0,000
7	01:30	01:45		0,000
8	01:45	02:00		0,000
9	02:00	02:15		0,000
10	02:15	02:30		0,000
11	02:30	02:45		0,000
12	02:45	03:00		0,000
13	03:00	03:15		0,000
14	03:15	03:30		0,000
15	03:30	03:45		0,000
16	03:45	04:00		0,000
Sum(Mwh)				0,000

Extern ☒ Intern

Close

Figure 9. Schedule message detail view

Switch between compact / full view

By clicking on the upper right icon you can expand the time series view to show more fields

Switch between extern / intern time series

the lower left area shows some register tabs to switch between internal time series and external time series contained in this schedule message

3.2. Timetable view (full)

The full (ESS) view also displays all ESS information. In addition, no differentiation is made between internal and external timetables.

Schedule Message

Schedule Message

Version/ID: 002 50XTRADER-0001-10XDE-RWENET---10111
Message type: A01 Balance responsible schedule

Date and time: 2011-01-10T10:23:04Z
Process type: A01 Day ahead

Time interval: 2011-01-10T23:00Z/2011-01-11T23:00Z
Classification type: A01 Detail

Sender
Identification: 50XTRADER-0001-V
Role: A01 Balance responsible party

Receiver
Identification: 10XDE-RWENET---W
Role: A04 System operator

Schedule Time Series

Time Interval	2011-01-10T23:00Z/2011-01-11T23:00Z	2011-01-10T23:00Z/2011-01-11T23:00Z
Out Area	10YDE-RWENET---I	10YDE-RWENET---I
In Area	10YDE-RWENET---I	10YDE-RWENET---I
Out Party	50XTRADER-0001-V	50XTRADER-0002-S
In Party	50XTRADER-0002-S	50XTRADER-0001-V
Version	002	001
Identification	rrs50XTRADER-0002-S	rr50XTRADER-0002-Ss
Business Type	A02	A02
Product	8716867000016	8716867000016
Object Aggregation	A01	A01
Meteringpoint Identification		
Capacity Contract Type		
Capacity Agreement Identification		
Resolution	PT15M	PT15M
Responsible Party	50XTRADER-0001-V	50XTRADER-0001-V
Pos.	From	To
1	00:00	00:15
	10,000	0,000

3.3. Anomalies (ANO)

In ANO view, the system displays currently unsettled anomalies (in accordance with ANO and CNF acknowledgements received).

By selecting/ highlighting a line in this list, the system displays the related timetables on the right hand side in the following sequence from left to right:

The related 'reasons' are shown on the bottom right.

Since the reasons are entered per timetable, reasons may exist in respect of the internal and/or counter/ comparative timetable.

Accordingly, the reasons are therefore displayed with a white or grey background.

The columns of the Anomaly Report view show on the left your own time series (if present), in the middle the difference column and on the right the nominated partner time series (if present)

AnomalyReport-Viewer

Parties

Party	Area
50XTRADER-0002-S	10YDE-RWENET---I
50XTRADER-0002-S	10YDE-RWENET---I

Reasons

Code	Text
A09	Time series mismatches.Differenz zur Zeitreihe der Gegenanmeldung
A09	Time series mismatches.Differenz zur Zeitreihe der Gegenanmeldung

Time Series Anomalies

Date		11.01.11	11.01.11	11.01.11	
Out Area		10YDE-RWENET---I		10YDE-RWENET---I	
In Area		10YDE-RWENET---I		10YDE-RWENET---I	
Out Party		50XTRADER-0001-V		50XTRADER-0001-V	
In Party		50XTRADER-0002-S		50XTRADER-0002-S	
Version		001		001	
Identification		rrs50XTRADER-0002-S		rr50XTRADER-0001-Vs	
Responsible Party		50XTRADER-0001-V		50XTRADER-0002-S	
Pos.	From	To	MAW	Difference	MAW
1	00:00	00:15	10,000	0,000	10,000
2	00:15	00:30	10,000	0,000	10,000
3	00:30	00:45	10,000	0,000	10,000
4	00:45	01:00	10,000	0,000	10,000
5	01:00	01:15	10,000	-10,000	20,000
6	01:15	01:30	10,000	-10,000	20,000
7	01:30	01:45	10,000	-10,000	20,000
8	01:45	02:00	10,000	-10,000	20,000
9	02:00	02:15	0,000	0,000	0,000
10	02:15	02:30	0,000	0,000	0,000
11	02:30	02:45	0,000	0,000	0,000
12	02:45	03:00	0,000	0,000	0,000
13	03:00	03:15	0,000	0,000	0,000
14	03:15	03:30	0,000	0,000	0,000
15	03:30	03:45	0,000	0,000	0,000
16	03:45	04:00	0,000	0,000	0,000
17	04:00	04:15	0,000	0,000	0,000
18	04:15	04:30	0,000	0,000	0,000
19	04:30	04:45	0,000	0,000	0,000
20	04:45	05:00	0,000	0,000	0,000
21	05:00	05:15	0,000	0,000	0,000
22	05:15	05:30	0,000	0,000	0,000
23	05:30	05:45	0,000	0,000	0,000
24	05:45	06:00	0,000	0,000	0,000
25	06:00	06:15	0,000	0,000	0,000
26	06:15	06:30	0,000	0,000	0,000
27	06:30	06:45	0,000	0,000	0,000
28	06:45	07:00	0,000	0,000	0,000
29	07:00	07:15	0,000	0,000	0,000
30	07:15	07:30	0,000	0,000	0,000
31	07:30	07:45	0,000	0,000	0,000
32	07:45	08:00	0,000	0,000	0,000
33	08:00	08:15	0,000	0,000	0,000
Sum(Mwh)			20,000	-10,000	30,000

Close

Figure 10. Anomaly Report view

3.4. Confirmations (via CNF)

The Confirmation Report displays the current (last) confirmation report from the TSO.

The display differentiates between pure confirmations and 'imposed confirmations', i.e. timetables which have been confirmed in amended form by the TSO.

If there are new, modified or imposed time series contained in the confirmation report, then ComCT represents this by coloring the confirmation cell background with yellow instead of green.

In the confirmation report view the matching time series are marked red.

In addition to the internal timetables, the confirmation report may also include non-registered 0-timetables.

This will be necessary if an appropriate counter registration was received, namely a related ANO message which the counter party subsequently retracted with a 0-timetable.

Final Confirmation

The display in the field 'Message Type' on the top right shows if the current Confirmation Report is a final confirmation or not.

Modified Time Series

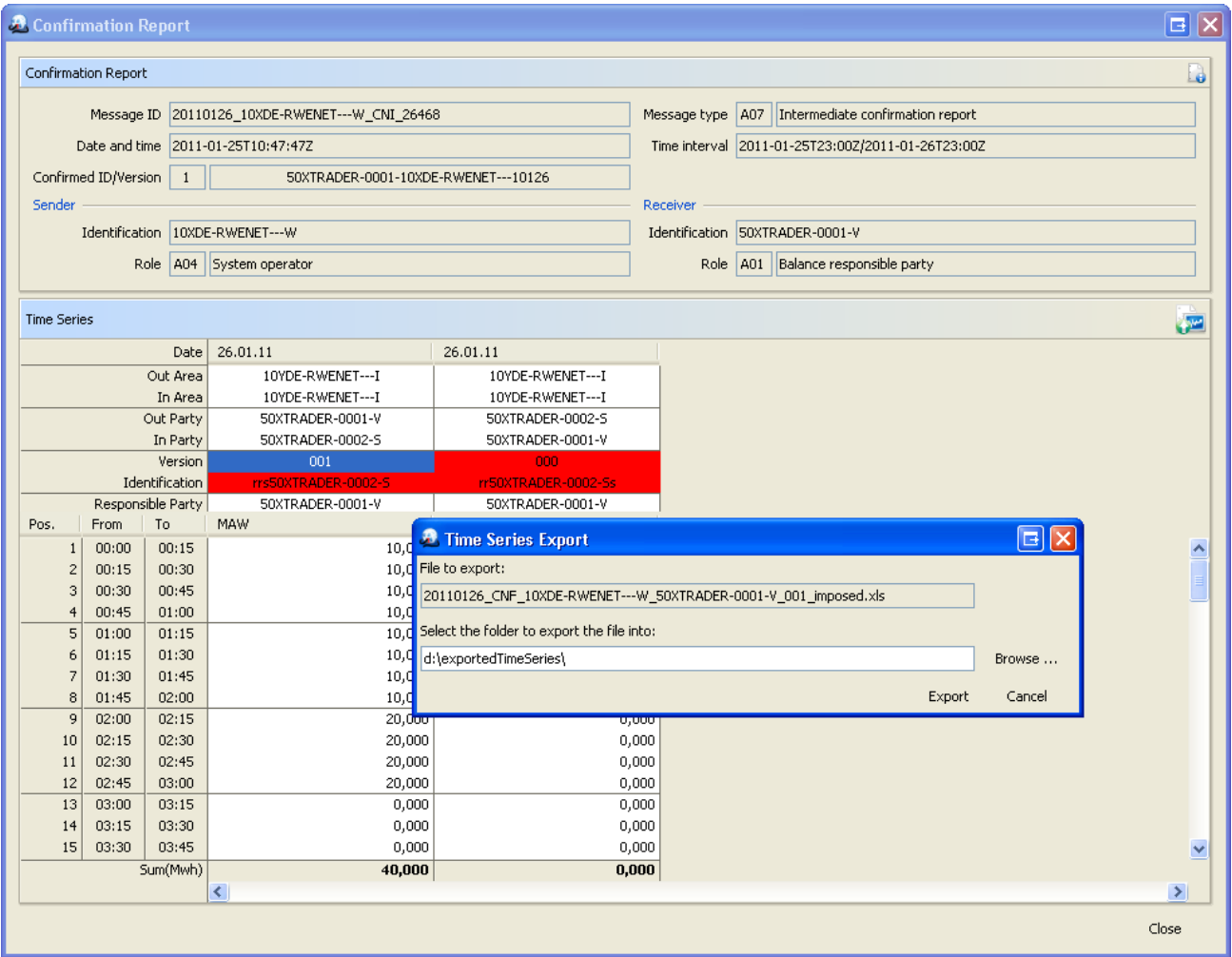


Figure 11. CNF time series export feature

Modified Time Series can be viewed in more detail with the Modified Time Series Viewer. When you double-click on a Time Series column in the Confirmation Report dialog the viewer will open instead of the usual Reasons dialog.

On the left you will see the Time Series as it was sent to the system operator in the Schedule Message and on the right you will see the Time Series in focus that has its origin in the Confirmation Report. In the differences column you can see what has been changed.

Modified Time Series-Viewer

Context information

Left time series origin: TPS
Right time series origin: CNF

Reasons

Code

Text

A63

Date	03.01.12	03.01.12	03.01.12			
Out Area	10YDE-EON-----1		10YDE-EON-----1			
In Area	10YDE-EON-----1		10YDE-EON-----1			
Out Party						
In Party						
Version	001		001			
Identification						
Reasonable Part						
Pos.	From	To	MAW	Difference	MAW	
1	00:00	00:15		0,152	0,152	0,000
2	00:15	00:30		0,152	0,152	0,000
3	00:30	00:45		0,152	0,152	0,000
4	00:45	01:00		0,152	0,152	0,000
5	01:00	01:15		0,144	0,144	0,000
6	01:15	01:30		0,144	0,144	0,000
7	01:30	01:45		0,144	0,144	0,000
8	01:45	02:00		0,144	0,144	0,000
9	02:00	02:15		0,140	0,140	0,000
10	02:15	02:30		0,140	0,140	0,000
11	02:30	02:45		0,140	0,140	0,000
12	02:45	03:00		0,140	0,140	0,000
13	03:00	03:15		0,143	0,143	0,000
14	03:15	03:30		0,143	0,143	0,000
15	03:30	03:45		0,143	0,143	0,000
16	03:45	04:00		0,143	0,143	0,000
17	04:00	04:15		0,170	0,170	0,000
18	04:15	04:30		0,170	0,170	0,000
19	04:30	04:45		0,170	0,170	0,000
20	04:45	05:00		0,170	0,170	0,000
21	05:00	05:15		0,202	0,202	0,000
22	05:15	05:30		0,202	0,202	0,000
23	05:30	05:45		0,202	0,202	0,000
24	05:45	06:00		0,202	0,202	0,000
25	06:00	06:15		0,233	0,233	0,000
Summe(Mwh)			6,828	6,828	0,000	

Schließen

Figure 12. CNF: Modified time series view

4. Master Data and Configurations (Preferences)

Master data and configuration data are managed via the menu item *File → Preferences*.

The information is initially created during the set-up of the Data Store (see chapter [Installation](#)) and can subsequently be changed or updated via this dialog.

These preferences are separated into the following categories:

General

Used to activate and deactivate the display of tips on the launch of the application. Can also be used to set memory usage.

The “Import directory scan” can be changed if you want to have a bigger or smaller frequency of directory checks of the import directory. You should increase the value if you are occurring problems on displaying the importable files in the main view. This may be the case if your data store is located on a network drive.

Directories

Used to set the Import, CSV export and Failed directories as well as the KISS archive.

SMTP Server (mail server)+ Used to define access to the SMTP mail server.

SOPTIM AS4 SFTP (SAGA)

Used to define access to the SOPTIM AS4 SFTP (SAGA).

Key Management

Here you can upload your private key files and system operators certificates for associating them in the system operators mail configuration for signing/encrypting mails.

System Operators

Used to store the TSOs together with the communication settings (email, FTP, file system).

Balance Areas (internal balance areas)

Used to manage information in respect of the internal balance area or areas, including the TSO allocation and the respective partner balance areas.

4.1. General Preferences

After to create a new data store, you can modify some general settings.

On start-up

Here you can activate the view of some information during the start-up of the ComCT.

Import directory scan

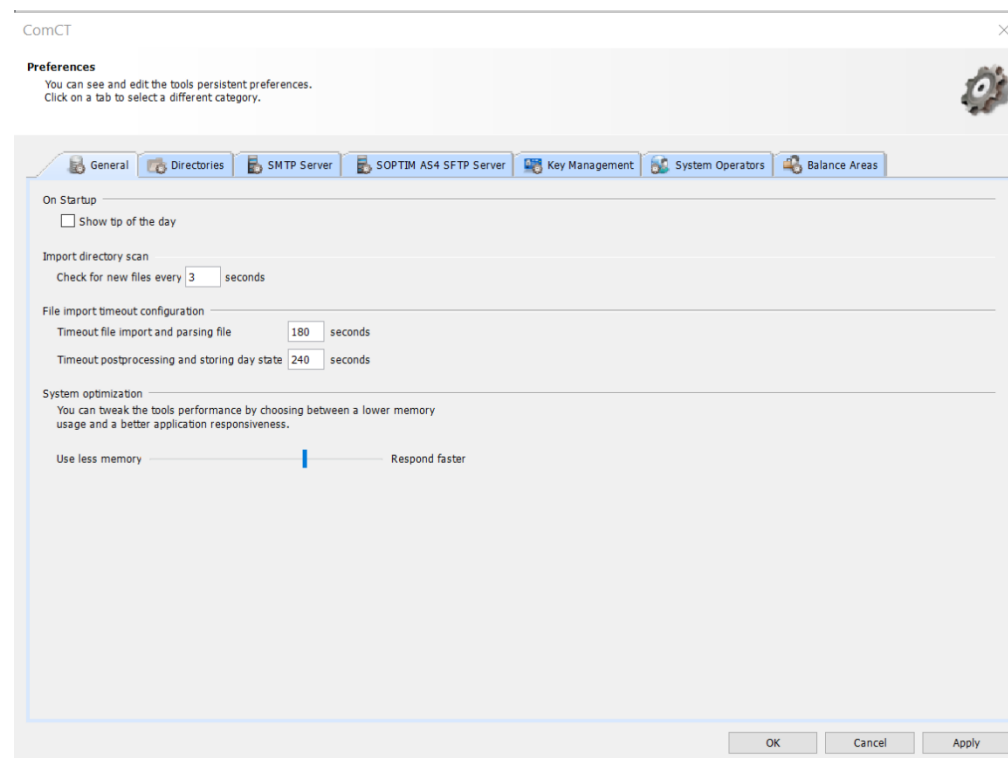


Figure 13. Preferences dialog

Here you can set the time interval in seconds to scan the import directory.

File import timeout configuration

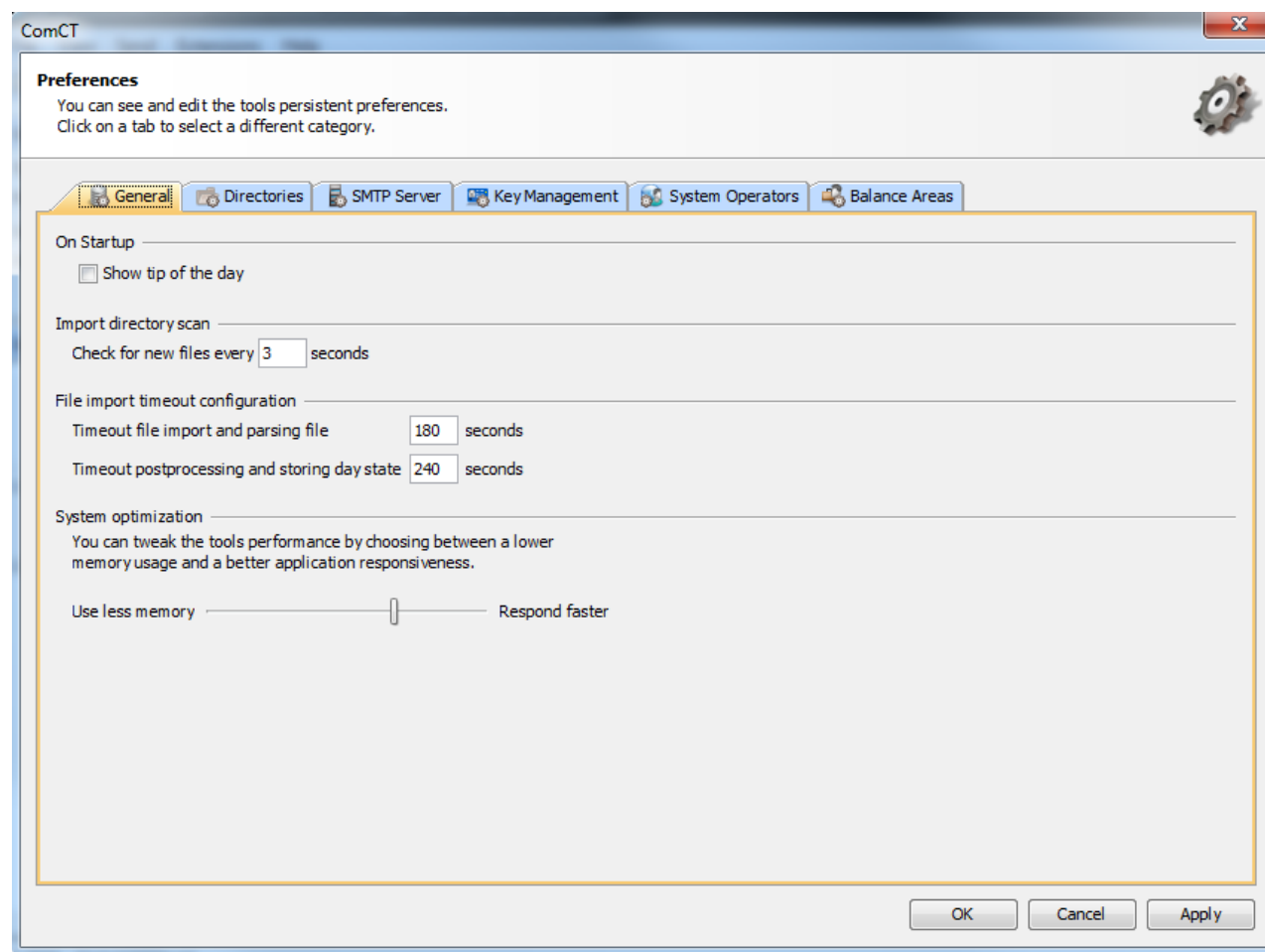
The file import timeouts concern the file import process. When a file import process takes too long, ComCT will try to abort the process after the entered time.

The timeouts are separated into a timeout for the plain file import and parsing (Kiss to TPS) and the processing, validation and save processes after the file import.

The timeout settings should be changed carefully and only in cases of errors.

System Optimization

Here you configure the use of main memory by the ComCT.



4.2. Directories

In the directories panel you can customize certain directories for data import or export to redirect them to a certain directory that are located outside of the default data store structure. For example, you can enter a custom import directory where you put all your import files. For setting a

custom directory, you need to check the checkbox "use user specified directory".

4.3. SMTP Server

Here you can set the address of the mail server to send out mails with ComCT.

Host: Here you have to enter the name of the SMTP-service server or directly the IP address of it.

Port: Please enter here the port of the SMTP-service. The default value is always set.

Sender email: Enter the email address of the sender of the email.

Send Copy To: Since the sent emails are sent directly by the SMTP server, the emails are not stored in a local mail client (like Outlook).

If you want to store the emails anyway. You can enter the email address that shall get the email in the field "Send Copy To".

Username and password

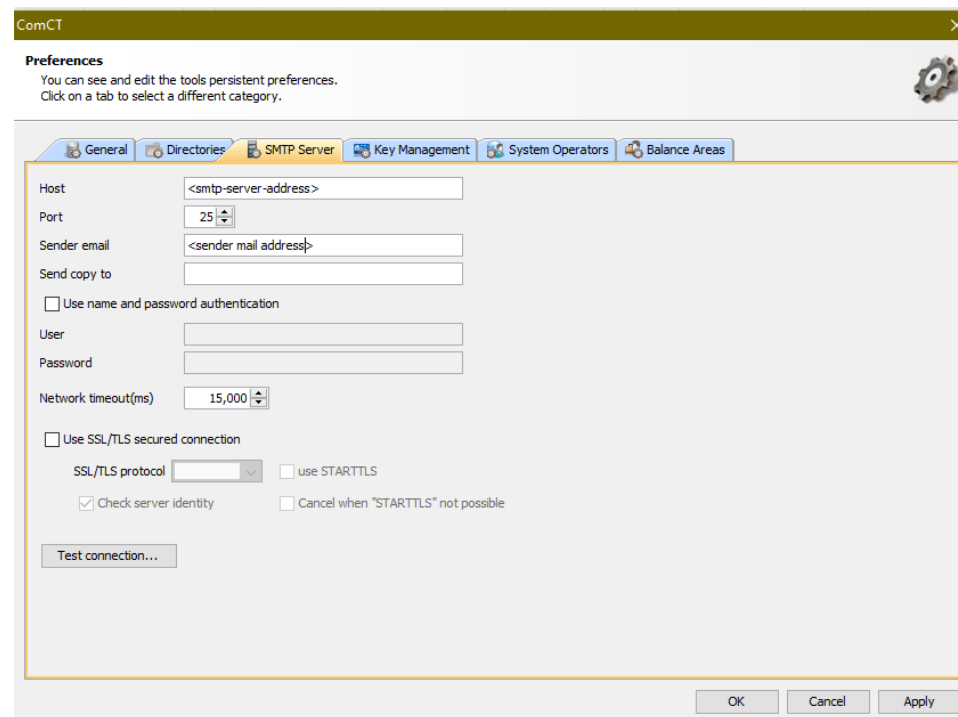
Usually a mail server requires user authentication. In the setup dialogue you have to activate the checkbox „Use name and password“ and enter your user credentials. In a company's network this often is the windows login username and the corresponding password.

Warning: On most mail servers the senders email address must correspond to the username.

The **network timeout** should not be changed in most cases. On a very slow network connection it may be necessary to increase the value.

Using SSL/TLS

Most modern public mail providers demand a secured connection for accessing and using their services. With the SSL/TLS option you can adjust the

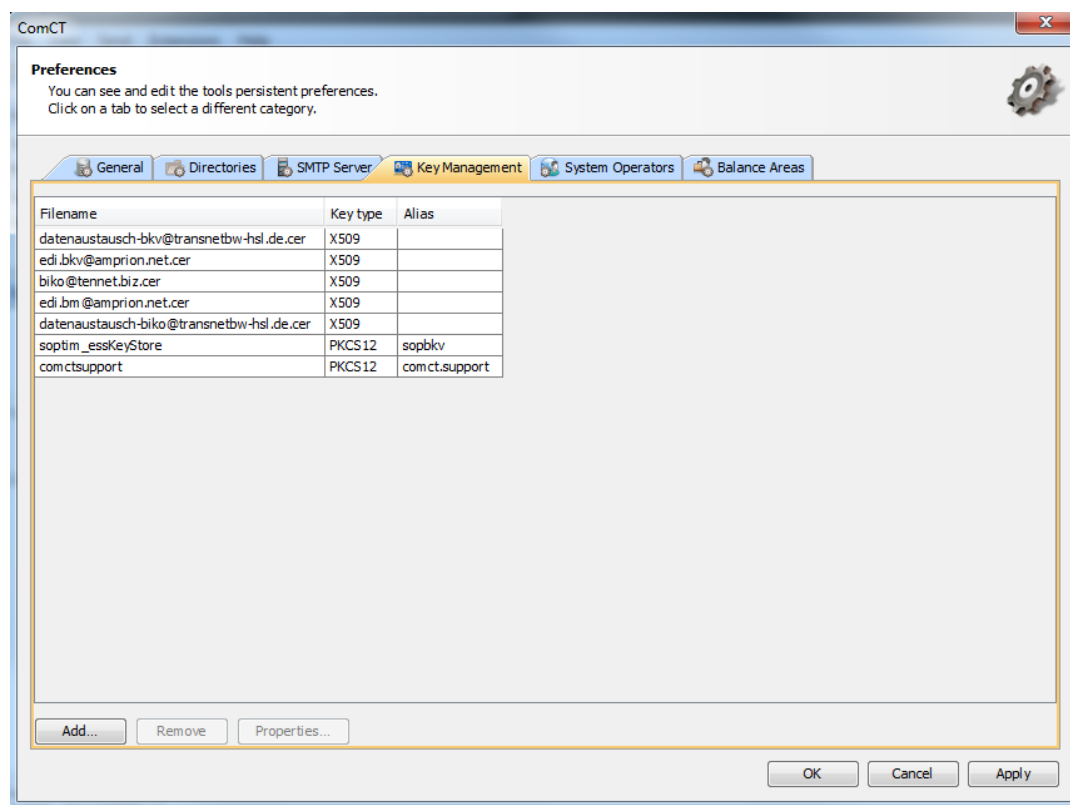


smtp connection to the requirements for your mail provider.

Note: ComCT requires a direct connection to the internet to use SSL/TLS. A proxy server may cause connection problems.

4.4. Key Management

With the key management preferences dialog you can upload, delete and manage certificates and private keys for using this data for signing/encrypting mails for schedule dispatching and MaBiS control file dispatching.



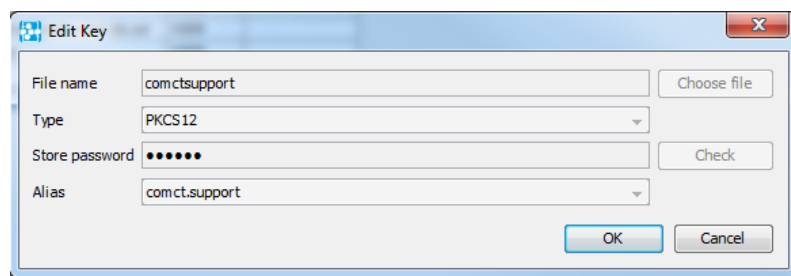
Click on the “Add...” Button to open the detail dialog to upload a new certificate. A certificate can just be imported. For private key files (in PKCS12 formatting), you need to select the appropriate file and then enter the key files password to get access to the key data.

Supported formats are X.509 (.cer, .crt), PKCS #12 (.p12, .pfx) und PKCS #7 (.p7b). Keys in the formats X.509 and PKCS #7 can be used as public keys (of the BiKos / System Operators). PKCS #12 files can be used as private keys.

It is not possible to import a file, where the filename already exists in the key management.

A subsequent editing of a key (e.g. for changing the Alias) is not possible.

A click on the “Check” button applies the password to the key file and tries to read the contained aliases. If the password was correct, the combobox “Alias” contains a list of available alias names for keys contained in the PKCS12 file. You must select on that will be used when dispatching signed mails to a system operator.



4.5. Transmission system network operators /Control areas (TSO)

The TSOs and ÜNBs are managed via the menu item *File → Preferences* and the Register System Operators respectively. The following information need to be defined:

Data fields		
Identifier	Comments	Characteristics
Identification	Used to specify the EIC in respect of the TSO (ÜNB).	Display field (via remote config. data)

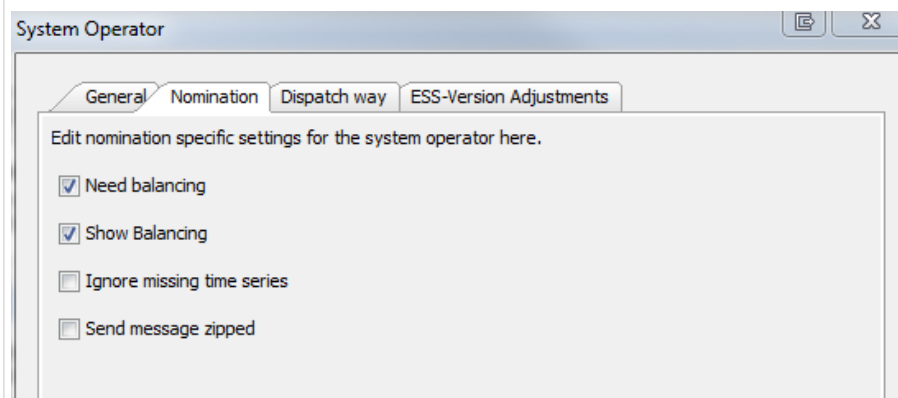
Data fields		
Area	Displays the relevant control zone with the EIC in respect of the TSO market operator. The display is based on the allocation table stored in the system.	auto. display field (via remote config. data)
Active	If flagged, the control zone is included in the total summary.	yes/no
Dispatch way	Specifies the communication path with the TSO (email, FTP or file system).	optional
Mail ...	Used to store the primary email address for the TSO.	optional
FTP ...	Used to store the information for FTP access (server, port, username, password and remote directory).	optional
Directory ...	Used to define the path information for filing in a particular director (i.e. on a network drive folder or an integrated ISDN drive).	optional

Functions Protocol summary		
Identifier	Comments	Characteristics
Add	Use this function to add another TSO.	-
Remove	Use this function to delete the selected TSO.	-

Functions Protocol summary

Properties

Use this function to edit the properties of the TSO.



4.6. Balance areas

'Internal' balance areas are managed via the menu item *File* → *Preferences* and the Register Balance Areas respectively. The following information needs to be defined:

Data fields		
Identifier	Comments	Characteristics
Identification	<p>Used to specify the EIC of the internal balance area subject to timetables.</p> <p>The data must relate to a valid EIC (16 characters including error detection character).</p> <p>For Germany, this can also be a Y-EIC code if you have a second balance party that only nominates within Germany.</p>	Display field

Data fields		
Export path	Used to set (optional) the 'export path' for any CSV exports specifically related to this balance area. If no data is input, the system uses the entry from the general directories.	<i>Optional field</i>

Functions Protocol summary		
Identifier	Comments	Characteristics
Add	Use this function to add another balance area.	-
Remove	Use this function to delete the selected internal balance area. The related directory, i.e. the stored files, will not be deleted.	-
Properties	Use this function to edit the properties of the balance area (see below). This includes both the list of allocated TSOs and the related list of the partner balance areas.	-

4.6.1. Related TSOs (System operators)

The TSOs with whom the balance area registers its time series are stored within the properties of the balance area.

TSOs entered here are shown in the main summary for the related balance area.

Balance area

Identification: 50XTRADER-0001-V

Export Path: Browse...

System operator | Partner balance areas

Identification	Control area	Active
10XDE-ENBW--TNGX	10YDE-ENBW----N	<input checked="" type="checkbox"/>
10XDE-RWENET---W	10YDE-RWENET---I	<input checked="" type="checkbox"/>

Choose... Remove Properties... OK Cancel

4.6.2. Partner balance areas

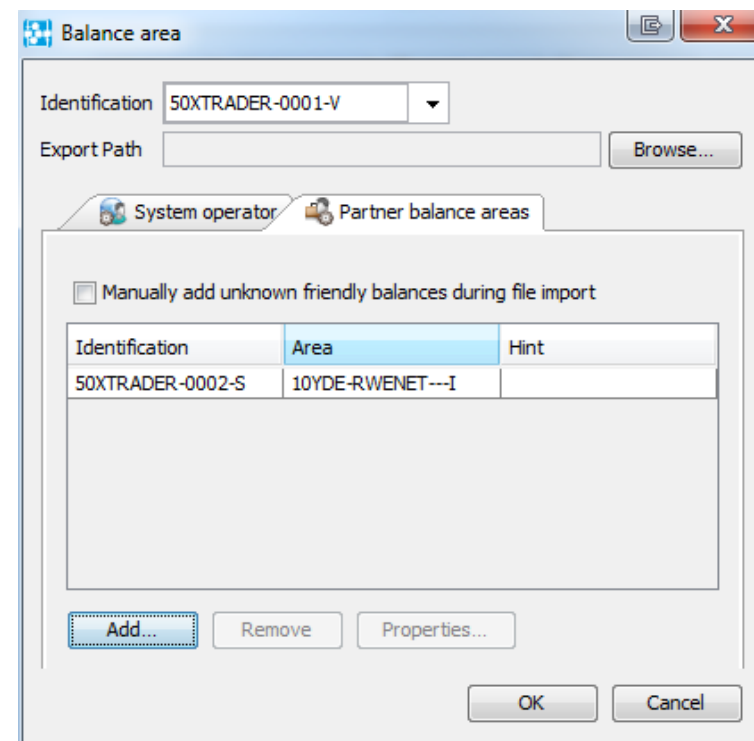
Partner balance areas can be stored within the properties for the respective partner balance area.

Basically, time series are only imported error-free if the relevant other balance area specified has also been entered/ stored as a partner balance area.

Since ComCT 3.4.0, if new partner balance areas are identified, the system will automatically add the new partner balance areas as partner.

In the partner balance area tab you can change this behaviour back to the requirement to manually add the partner balance areas.

If the checkbox is activated and an unknown partner balance area occurs in a schedule message, the schedule message will be rejected on import with an error annotation.



5. ComCT Extensions

5.1. MaBiS for Trader Extension

The MaBiS for Trader Extension targets a special field of application concerning the market rules for conducting settlement area billing in the electricity sector (refer to decision BK6-07-002 of Germanys Federal Network Agencies ruling chamber 6 - valid from 1st April 2011 – for details).

In the context of MaBiS the balance responsible parties need to be able to handle MSCONS, PRICAT and UTILMD EDI messages (sent by the balancing group coordinators) and need to answer them with a confirmation message.

The MSCONS files contain the metering data relevant for the invoicing of balancing energy.

The MaBiS for Trader Extension targets the special case, where the metering data in the MSCONS messages should sum up to zero, because the balance responsible party has no production or consumption parties, where derivations may occur.

5.1.1. Overview

The MaBiS for Trader Extension is integrated into Data Stores that are already created by ComCT. The concept is like a “Data Store in a Data Store”. The two Data Stores are handled separately and a user who only uses the standard ComCT features will have nearly no contact to the MaBiS extensions when he does not want to use it.

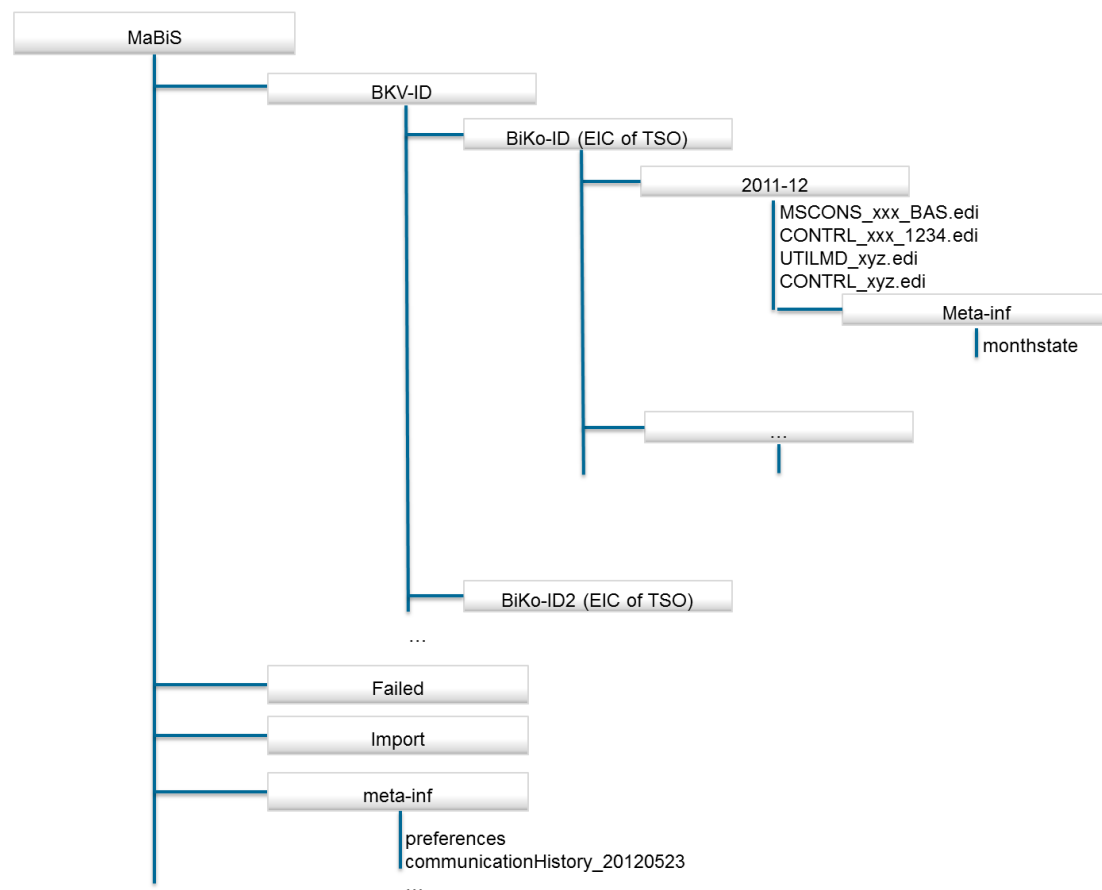
The Data Store integration into an already present ComCT Data Store is displayed in Figure 5-1. As you can see, the EDI Data Store for MaBiS files is stored into a subdirectory called MaBiS.



In Figure 5-2 the MaBiS Data Store is displayed in more detail. The direct subfolders of the MaBiS directories are the failed, import, meta-inf and BKV-ID folders. The failed, import and meta-inf directories have the same role and behavior of the ESS Data Store directory equivalents. In the import directory you have to copy all your EDI messages you receive from your balance group coordinator (or BiKo) in order to import and check them in the MaBiS extension.

The name for the BKV-ID directory is set by the preferences dialog in the application. Also the subdirectories for the BKV ID are set by the MaBiS configuration in the MaBiS preferences Dialog. The subdirectories match the EIC codes of the BiKos you have configured and associated to your BKV ID.

For each BiKo directory there is a subdirectory that contains the EDI data on a monthly basis. The month folder is set by “yyyy-MM” date format.



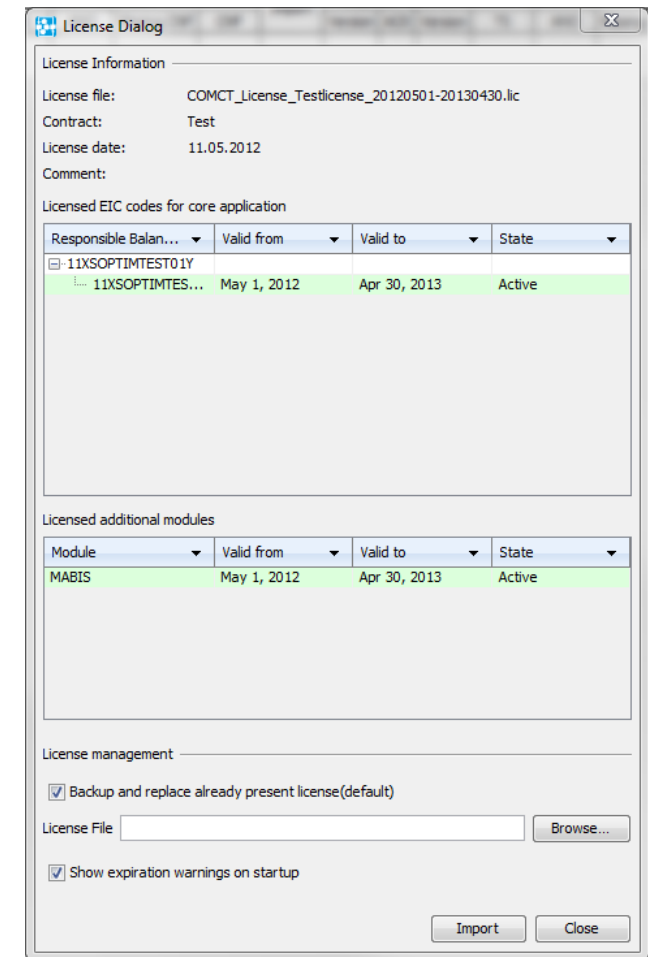
The month directory contains all the EDI files that are associated to it. Each month directory also contains a Meta-inf directory, where the application state for this month is saved.

5.1.2. Accessing the MaBiS for Trader Extension

The extension is integrated into ComCT application and you can open the MaBiS dialogs when you have opened an ESS Data Store in ComCT and have a valid license file for ComCT with the ComCT_{EDI} license module included.

For the MaBiS for Trader Extension the Licensing dialog in ComCT has been extended in order to list additional modules that are licensed in the dialog.

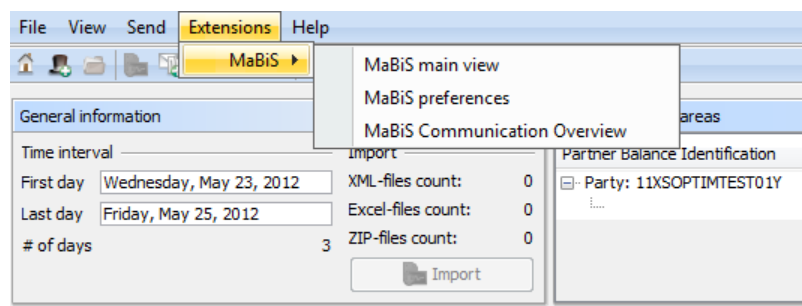
The MaBiS extension can be found in the ComCT menu in the menu “Extensions”. The menu item MaBiS is deactivated when no valid license is found for using the MaBiS extension.



When a valid license is installed you can access the menu item and have the options to open the three main dialogs in the MaBiS extension:

Wednesday, May 23, 2012		Thursday, May 24, 2012														
Party	Import	Dispatch		System Operator				Import	Dispatch		System Operator					
		Version	ACK	Version	TS	ANO	Missing CNF		CNF	Version	ACK	Version	TS	ANO	Missing CNF	CNF
11XSOPTIMTEST01Y																
10XDE-RWENET---W																

- The MaBiS main view
- The MaBiS preferences dialog
- The MaBiS communication overview



5.1.3. Configuring the MaBiS extension: The MaBiS preferences dialog

In the MaBiS preferences you need to configure your master data. You need to add data for associating the EDI files to a certain balance responsible party and to a corresponding BiKo. You also have to enter the connection data for the SMTP settings because they might differ from the settings you have entered in the ComCT preferences.

Configuration of the balance responsible party (BKV)

For adding a new balance responsible party, you have to select the tab “Balance responsible party (BKV)” in the MaBiS preferences dialog. With the add button you can add and configure a new BKV.

The BKV requires a unique id you can choose by yourself. The id will be used in the application for displaying the BKV in the different views and tables.

For associating the EDI files to this BKV you need to enter either your BDEW (VDEW) code or your GS1 / GLN code. It depends on how you are registered at the corresponding organization. The BDEW codes can be found at the web address: <http://codenummern.strom.de/>.

For a BKV you need to associate the balancing group coordinators who will send you MaBiS data. The available BiKos are listed in the BiKo tab.

Configuration of the metering points

For each BKV you need to add the metering points that are associated to it. The metering points can be added and configured in the Metering Points tab. By clicking the “Add...” Button you can add a new metering point. You have also the option to import metering points from an UTILMD message.

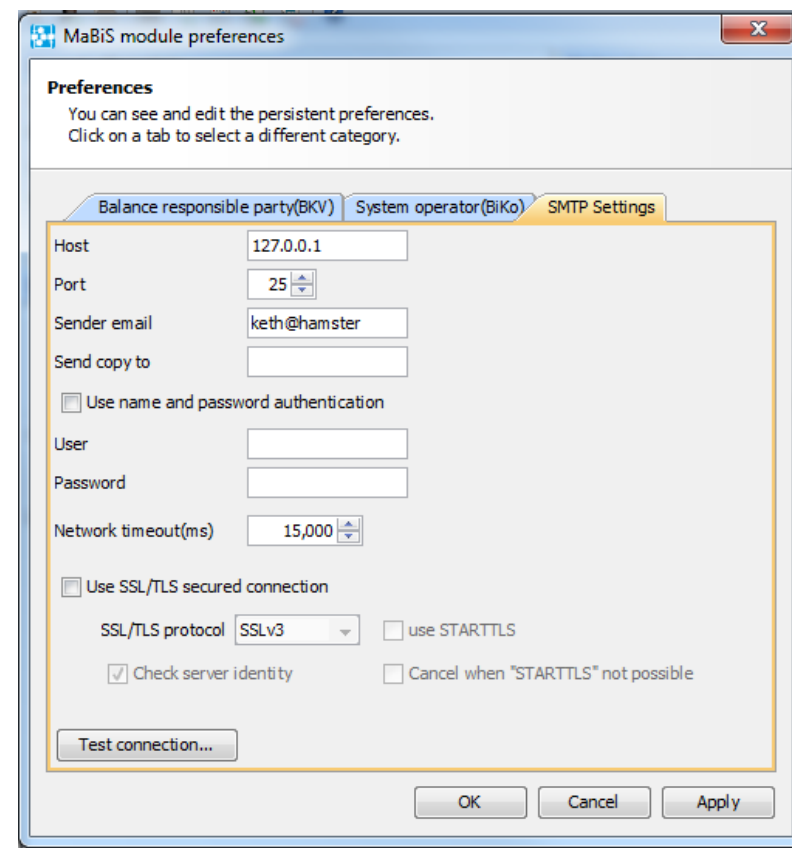


Figure 14 shows the 'Edit BkV' dialog box. The 'BkV' tab is selected, displaying the 'BkV Identification' field with the value 'SOPTIMTEST001' and the 'BDEW code' field with the value '99p4431000007'. The 'Metering Points' tab is also visible, showing a list of BIKOs with checkboxes. The instructions at the top state: 'Please enter a unique ID for your BkV and enter your GS1 or BDEW code. The BkV Identification will be used for the folder in the data store and for display purposes.'

Figure 14. MaBiS: Balance Coordinator association

A metering point is defined by:

- the metering point id
- the associated system operator
- the metering point type
- and the product id or OBIS number.

Adding a metering point with the Metering Point Editor

In the metering point editor dialog you can configure these settings. The metering point id sometimes represents already which metering point type it represents, but you cannot always rely on this.

The configuration data for each metering point should be delivered also in the UTILMD EDI messages. (The metering point id is defined by the LOC+172 segment, the System Operator by the LOC+231 segment. The metering point type is defined by the CAV+ segment and the OBIS number follows in the PIA+5 segment).

The metering point type and its corresponding OBIS number can be chosen from the following options:

FPE

The FPE type is the German abbreviation for “Fahrplanentnahmesumme” and the metering point of type FPE contains the reading of real energy that is drawn from the corresponding balance responsible party. The associated OBIS number is 1-1:1.29.0

FPI

The FPI type is the German abbreviation for “Fahrplaneinspeisesumme”. The metering point of type FPI contains the reading of real energy that is supplied to the corresponding balance responsible party. The associated OBIS number is 1-1:2.29.0

BAS

The BAS type is the German abbreviation for “Bilanzkreisabweichungssaldo”. The metering point of type BAS contains the reading of balancing power. The BAS metering point type is a special case, because the BAS metering point has two OBIS numbers: 1-1:1.29.0 and 1-1:2.29.0 and must thus be added twice, because the BAS time series for balancing power is dependent on the direction (overfunded / underfunded).

You have to add all metering points associated to your BKV such that the MaBiS extension can correctly check your MSCONS messages for differences to zero. For the check of differences only the BAS metering points need to be used.

When the metering points are configured you can close the BKV Editor and advance to the configuration of the system operator settings.

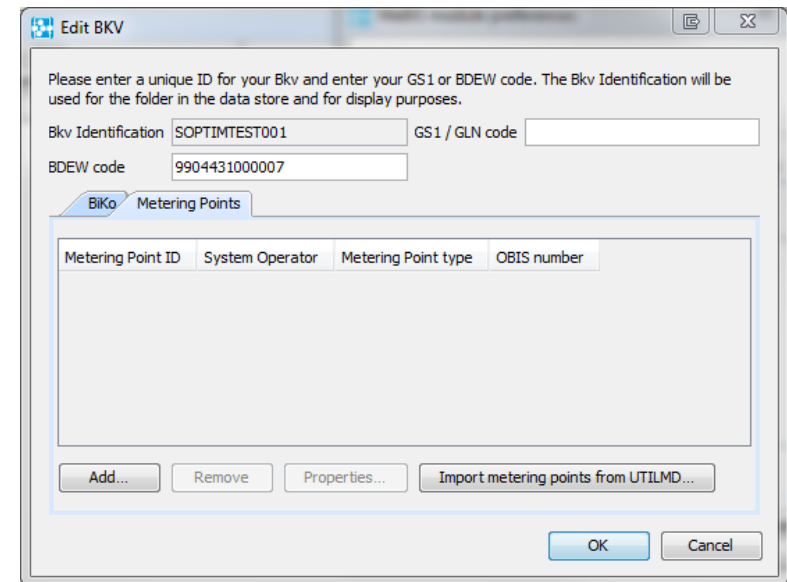
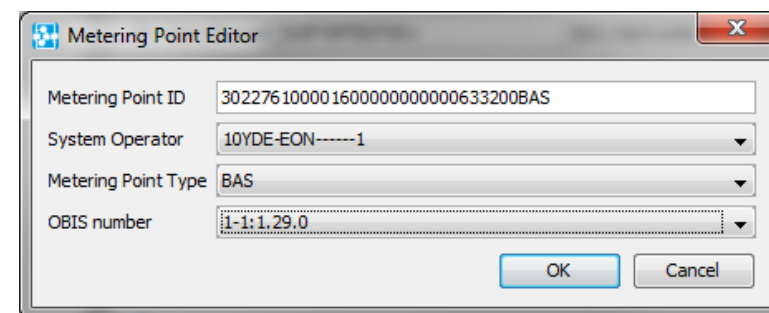


Figure 15. MaBiS: Metering point configuration dialog

Adding metering points from an UTILMD message

When you click the “Import metering points from UTILMD...” button in the Bkv Editor dialog you have the option to import metering points from an UTILMD file into the Bkv preferences.

In the “Metering point import” dialog you can select a UTILMD file from the file system with the “Browse” button. After this you are able to import the UTILMD file with the “Import and show metering points...” button.

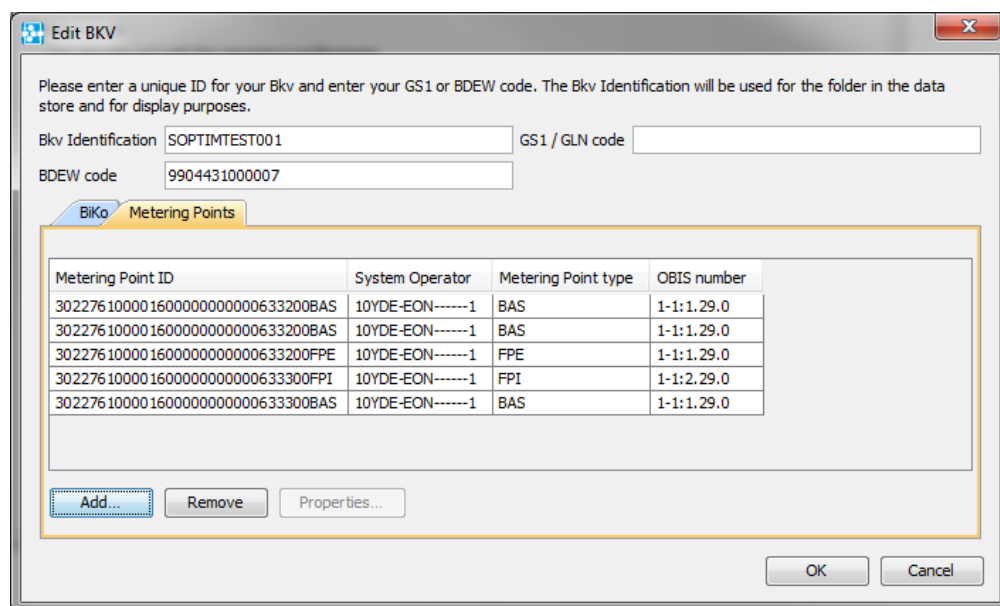


The Metering Point Editor dialog box contains the following fields:

- Metering Point ID: 3022761000016000000000000633200BAS
- System Operator: 10YDE-EON-----1
- Metering Point Type: BAS
- OBIS number: 1-1:1.29.0

Buttons: OK, Cancel

Figure 16. Metering point editor dialog



The Edit Bkv dialog box shows the following information:

Please enter a unique ID for your Bkv and enter your GS1 or BDEW code. The Bkv Identification will be used for the folder in the data store and for display purposes.

Bkv Identification: SOPTIMTEST001 GS1 / GLN code:

BDEW code: 9904431000007

Tab: BiKo / Metering Points

Metering Point ID	System Operator	Metering Point type	OBIS number
3022761000016000000000000633200BAS	10YDE-EON-----1	BAS	1-1:1.29.0
3022761000016000000000000633200BAS	10YDE-EON-----1	BAS	1-1:1.29.0
3022761000016000000000000633200FPE	10YDE-EON-----1	FPE	1-1:1.29.0
3022761000016000000000000633300FPI	10YDE-EON-----1	FPI	1-1:2.29.0
3022761000016000000000000633300BAS	10YDE-EON-----1	BAS	1-1:1.29.0

Buttons: Add..., Remove, Properties..., OK, Cancel

Figure 17. Imported Metering points

The import process may take a moment. After import dialog report is shown and no errors occurred you can see the detected metering points that can be selected for adding them to the BKV preferences in the table. Below the table you have the option to select if the selected metering points from the table shall be added to the BKV metering points list or if they should replace the existing metering points. Default setting is to add the selected metering points to the already present metering points in the BKV preferences.

PARTIN data

From ComCT version 4.3 onwards the format PARTIN 1.0d (and newer) is supported. The PARTIN data of a BRP can be managed in the tab “PARTIN data”

All PARTIN fields with a star need to be filled, the other fields are optional. Additional information about the fields can be found in the [official PARTIN documentation](#).

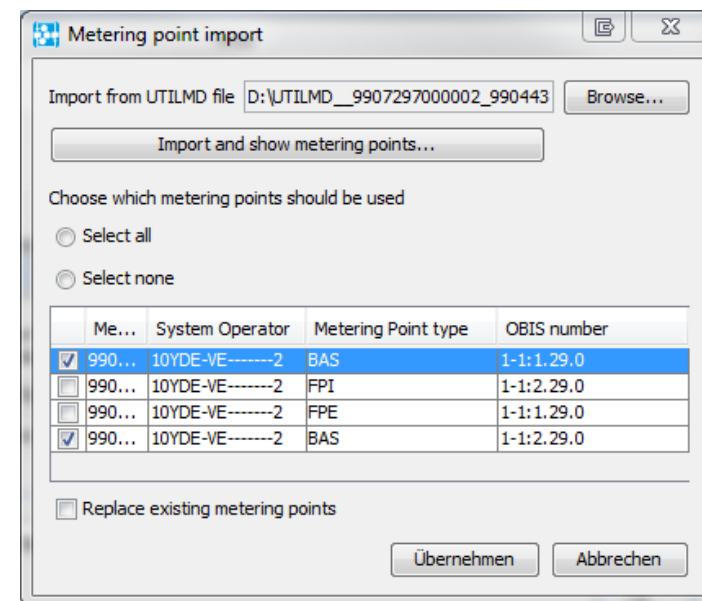


Figure 18. Possible selection of metering points for import

Edit BRP

Please enter a unique ID for your BRP and enter your GS1 or BDEW code. The BRP Identification will be used for the folder in the data store and for display purposes.

BRP Identification GS1 / GLN code

BDEW code

Biko **Metering Points** **PARTIN data**

version*: 0

address:

receiver*:

street*: house number*:

city*: postcode*:

country*:

bankdetails:

receiver*:

receiver 2:

IBAN*:

bank institution*: BIC*:

other:

court: company registr...

VAT Number*: tax number*:

website*:

general fax:

contact person:

contact person **contact framework contract** **contact balancing process and management**

correspond to section Z10:

department*:

receiver*:

street*: house number*:

city*: postcode*:

country*:

email*:

phone*:

fax:

sender contact:

name:

email:

phone:

phone 2:

mobilephone:

fax:

availability:

monday from 15:00 to 15:00

tuesday from 15:00 to 15:00

wednesday from 15:00 to 15:00

thursday from 15:00 to 15:00

friday from 15:00 to 15:00

break time from 15:00 to 15:00

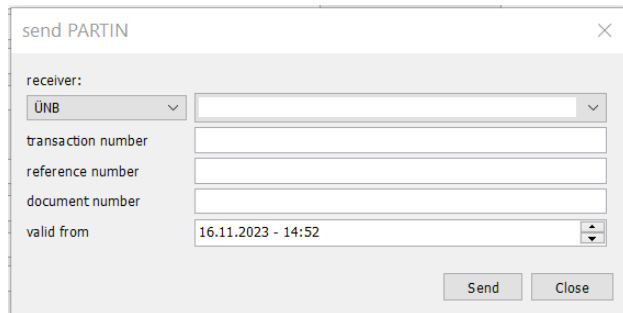
send PARTIN

OK Cancel

Figure 19. Master data dialog for PARTIN message generation

PARTIN dispatch

The PARTIN can be generated and sent via the button “Send PARTIN”, which opens a new dialogue. In this dialogue a BiKo or TSO can be selected as receiver. Also, some additional message specific data like transaction number, reference number and document number need to be provided. Fill in a validity date from which the PARTIN should be valid.



send PARTIN

receiver:

UNB

transaction number

reference number

document number

valid from 16.11.2023 - 14:52

Send Close

Figure 20. Send PARTIN message

Via the “send” button the PARTIN is sent to the receiver selected over the selected protocol. After dispatch, a popup shows up indicating the success, and the dispatch can be seen in the communication history.

Configuration of the System operators (BiKo)

The system operators require the configuration of a proper dispatch way for dispatching the generated response messages.

On the System operator ("BiKo") tab in the MaBiS module preferences dialog you need to add a system operator for the configuration of the dispatch way.

In the combo box "BiKo ID" you can select the system operator and in the combo box "Dispatch Way" you can select the required dispatch way. You can choose between mail and directory export.

For the correct formatting of the response message you need to set the correct version. Since 6th June 2025 the official version is APERAK 2.1i.

Depending on the selected dispatch way you have to add additional information in the tabs on the bottom of the dialog.

For the email configuration you need to add a valid email address and you can also enter a subject and mail body optionally.

The encoding of the attachment can be changed from "Automatic" to "Base64". This is necessary when the BiKo is not able to process the emails because of the attachment encoding.

For a secure email communication, a security option from the combo box "Mail security" can be chosen. Depending on the choice a private / public key must be assigned. Those keys must be imported in the tab "Key management" in the ComCT preferences dialog first.

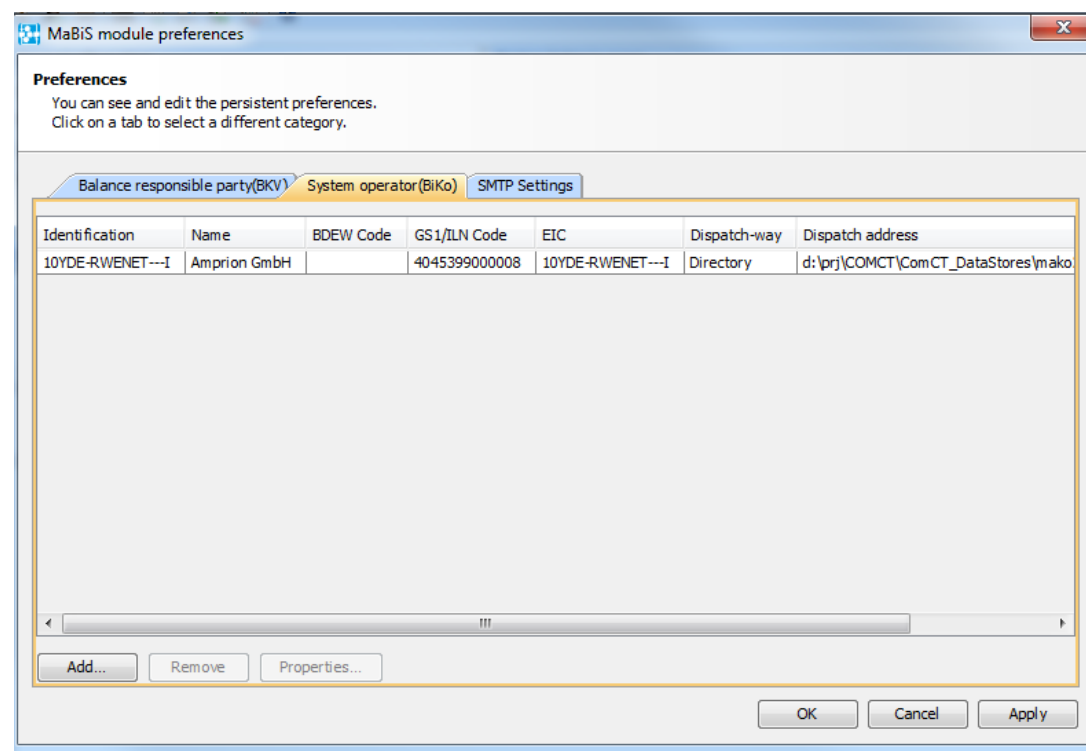


Figure 21. MaBiS preferences: Balance Coordinator

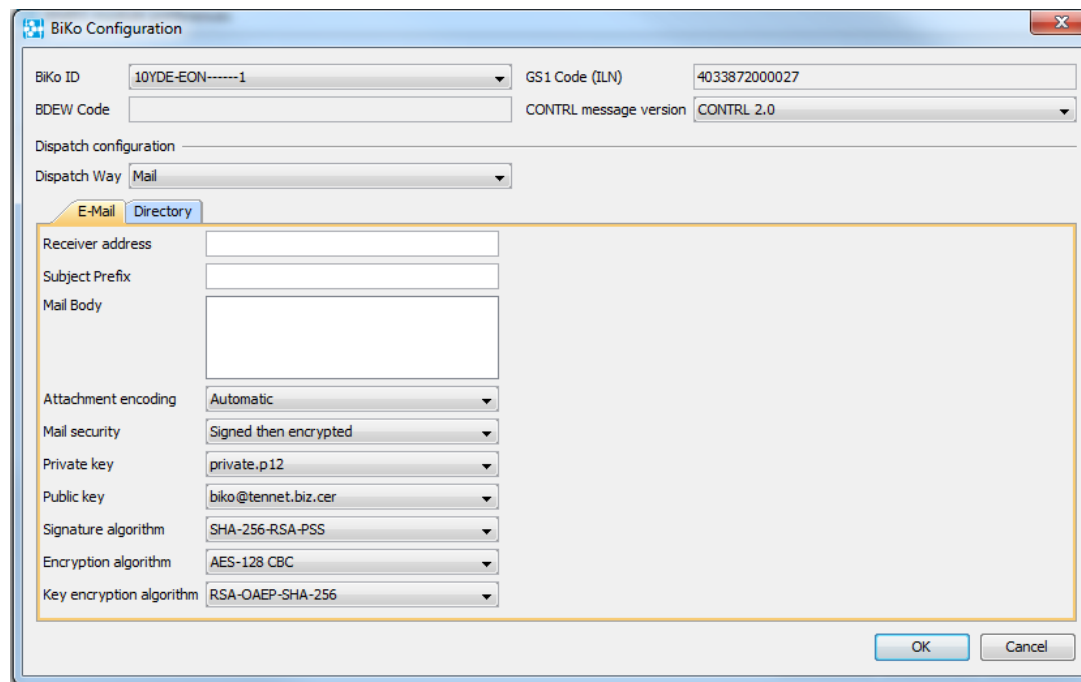


Figure 22. MaBiS Mail Dispatching for balance coordinator

According to the selected mail security, the signature algorithm and the encryption algorithm can be set according to the requirements of the BiKos. By default, SHA-256 (signature algorithm) and AES-128 CBC (encryption algorithm) are set.

From 1.1.2018 German regulators demand additional settings for mail security level (refer to „Regelungen zum sicheren Austausch von EDIFACT Übertragungsdateien“ by edi@energy):

- The signature algorithm must be set on a basis of RSA-PSS family. Recommended is SHA-256-RSA-PSS
- A key encryption algorithm must be set if you need to send encrypted mails. The new field key encryption algorithm needs to be set with at least RSAES-OAEP-SHA-256

When you have configured the dispatch way directory, you have to enter a valid path on the file system where the generated response files are exported to.

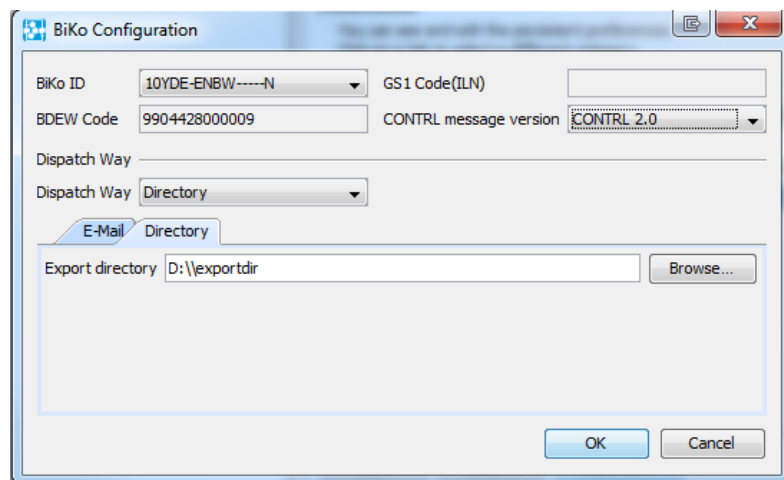


Figure 23. Balance coordinator configuration: Directory export

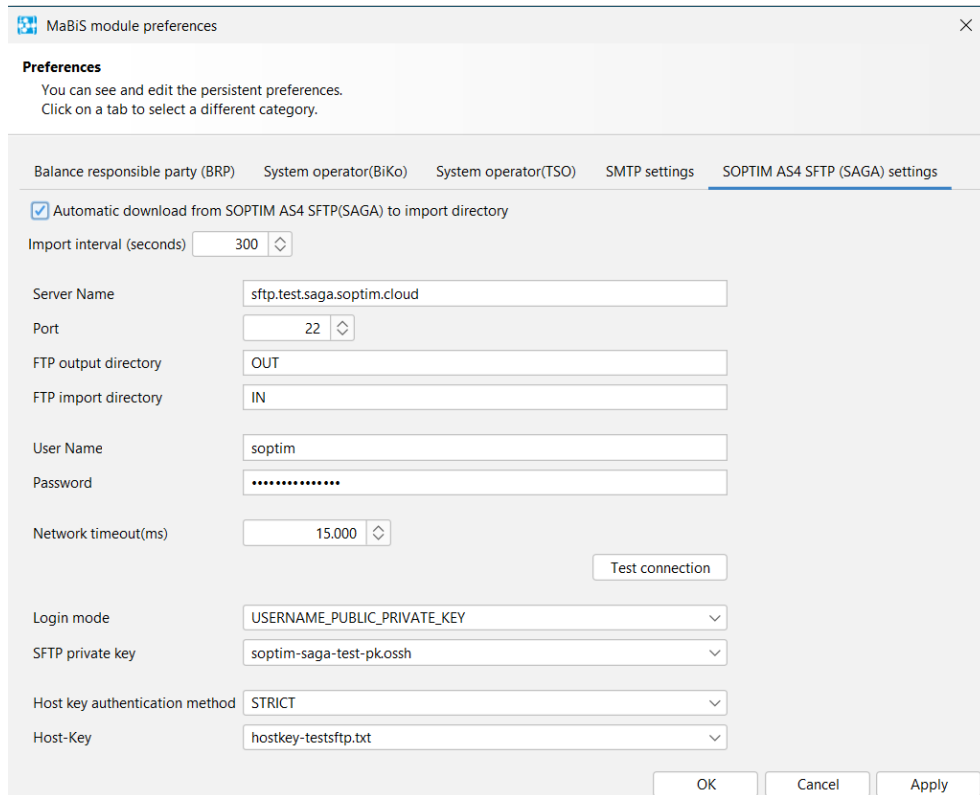
Configuration of the SMTP settings

The MaBiS SMTP settings tab is similar to the ComCT preferences SMTP settings dialog. Please refer to [SMTP Server](#) where the configuration is described.

Configuration of the SOPTIM AS4 SFTP (SAGA) settings

The MaBiS SOPTIM AS4 SFTP (SAGA) settings are similar to the ComCT SOPTIM AS4 SFTP (SAGA) settings.

In addition to these settings, you can define a FTP import directory, for importing MaBiS files direct from the SFTP server. You can also choose to use the automated import from the in-directory of the sftp server and on which frequency (in seconds) ComCT should try to import new files.



The image shows a 'MaBiS module preferences' dialog box. It has a title bar with a close button. Below the title bar is a 'Preferences' section with a brief instruction: 'You can see and edit the persistent preferences. Click on a tab to select a different category.' There are five tabs: 'Balance responsible party (BRP)', 'System operator(BiKo)', 'System operator(TSO)', 'SMTP settings', and 'SOPTIM AS4 SFTP (SAGA) settings'. The 'SOPTIM AS4 SFTP (SAGA) settings' tab is selected. Under this tab, there is a checked checkbox for 'Automatic download from SOPTIM AS4 SFTP(SAGA) to import directory'. Below this is a spin box for 'Import interval (seconds)' set to 300. Then there are text input fields for 'Server Name' (sftp.test.saga.soptim.cloud), 'Port' (22), 'FTP output directory' (OUT), and 'FTP import directory' (IN). Below these are 'User Name' (soptim) and a masked 'Password' field. A 'Network timeout(ms)' spin box is set to 15.000. A 'Test connection' button is located to the right of the network timeout field. Below these fields are four dropdown menus: 'Login mode' (USERNAME_PUBLIC_PRIVATE_KEY), 'SFTP private key' (soptim-saga-test-pk.ossh), 'Host key authentication method' (STRICT), and 'Host-Key' (hostkey-testsftp.txt). At the bottom right are three buttons: 'OK', 'Cancel', and 'Apply'.

MaBiS module preferences

Preferences
You can see and edit the persistent preferences.
Click on a tab to select a different category.

Balance responsible party (BRP) System operator(BiKo) System operator(TSO) SMTP settings **SOPTIM AS4 SFTP (SAGA) settings**

☒ Automatic download from SOPTIM AS4 SFTP(SAGA) to import directory

Import interval (seconds) 300

Server Name sftp.test.saga.soptim.cloud

Port 22

FTP output directory OUT

FTP import directory IN

User Name soptim

Password

Network timeout(ms) 15.000

Test connection

Login mode USERNAME_PUBLIC_PRIVATE_KEY

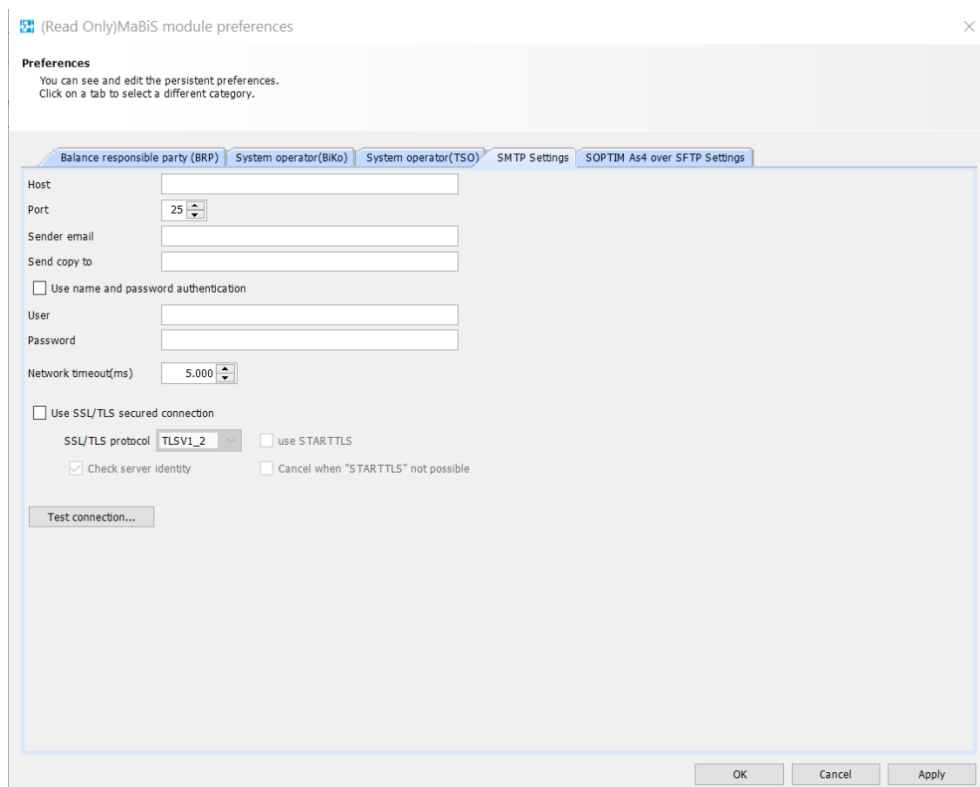
SFTP private key soptim-saga-test-pk.ossh

Host key authentication method STRICT

Host-Key hostkey-testsftp.txt

OK Cancel Apply

Be aware that the auto import does a full backend processing with no advanced reporting of failures or successes towards the user interface. Please check the communication history for details frequently. You will also see new files within the MaBiS main view where you can check the file state and the state of the generated response file.

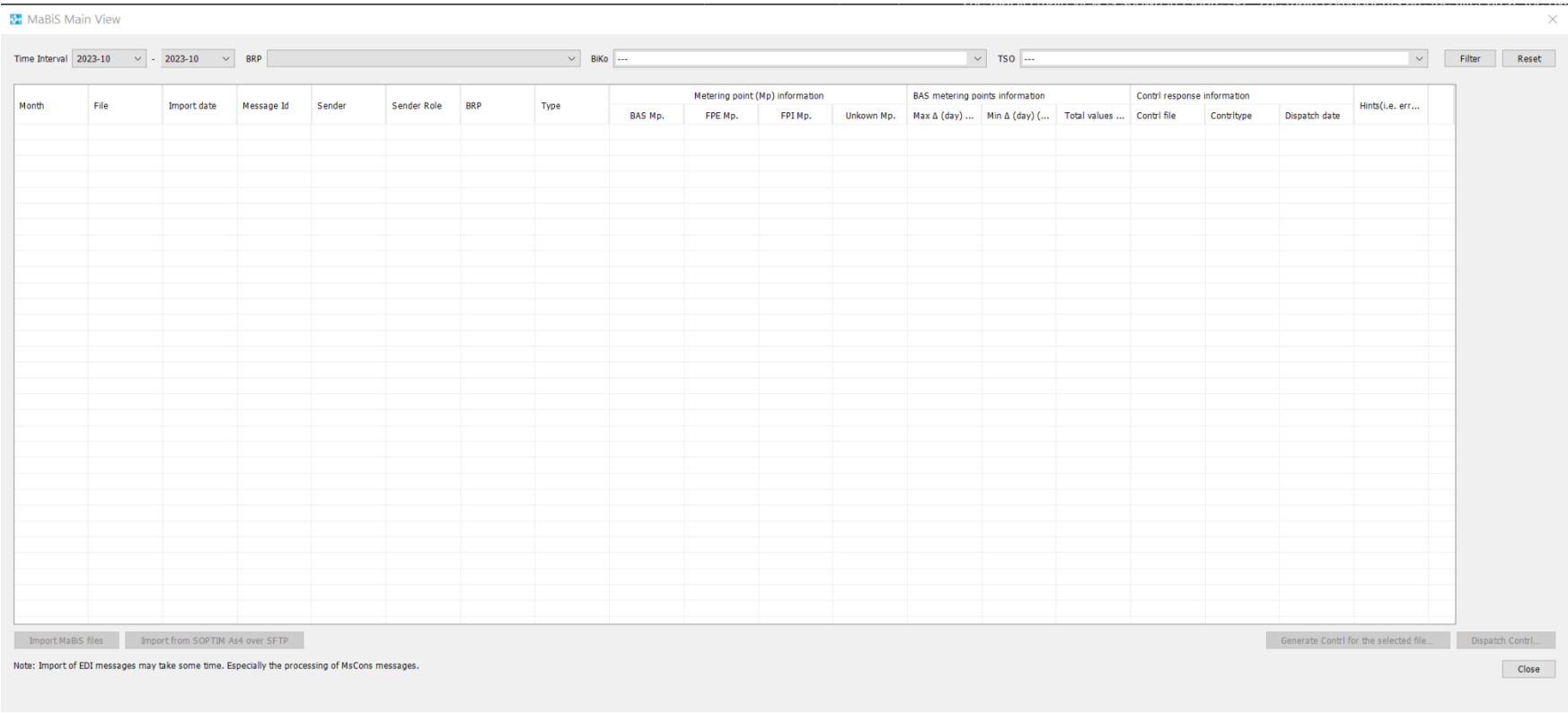


The image shows a dialog box titled "(Read Only)MaBiS module preferences" with a close button (X) in the top right corner. Below the title bar, there is a "Preferences" section with a sub-header: "You can see and edit the persistent preferences. Click on a tab to select a different category." There are five tabs: "Balance responsible party (BRP)", "System operator(Biko)", "System operator(TSO)", "SMTP Settings", and "SOPTIM As4 over SFTP Settings". The "SMTP Settings" tab is currently selected. The settings are organized into two columns. The left column contains: "Host" (text input), "Port" (spin box with value 25), "Sender email" (text input), "Send copy to" (text input), "Use name and password authentication" (checkbox, unchecked), "User" (text input), "Password" (text input), "Network timeout(ms)" (spin box with value 5.000), "Use SSL/TLS secured connection" (checkbox, unchecked), "SSL/TLS protocol" (dropdown menu showing "TLSV1_2"), "use STARTTLS" (checkbox, unchecked), "Check server identity" (checkbox, checked), and "Cancel when 'STARTTLS' not possible" (checkbox, unchecked). The right column is empty. At the bottom left of the settings area is a "Test connection..." button. At the bottom right of the dialog are three buttons: "OK", "Cancel", and "Apply".

Figure 24. MaBiS module SMTP settings

5.1.4. The MaBiS Main view

The main components of the MaBiS main view are the filter area, the overview table, the operation buttons and the importing status line.



Initially the main view is empty. By using the filter you can select a certain range of data that shall be displayed in the main view. You can select the time interval on a monthly range and choose the BKVs and BiKos for whom you want to see the MaBiS files that were imported into the data store. A click on the Filter button loads the corresponding MaBiS file states into the file state table. The reset button resets the filter to the default settings.

In the table you will see the file states in the data store for each MaBiS file that was imported. [Figure MaBiS file state table with metering point information from MSCONS messages](#) shows an example state of the file state table in the MaBiS main view.

Month	File	Import date	Message Id	Sender	Sender Role	BRP	Type	Metering point (Mp) information				BAS metering points information			Response file information			Hints(i.e. errors)
								BAS Mp.	FPE Mp.	FPI Mp.	Unkown ...	Max Δ (da...	Min Δ (da...	Total valu...	Response file	response type	Dispatch date	
2012-03	MSCONS_...	9 May 202...	TB2608440...	TenneT TS...	BIKO	SOPTIMEIV	MSCONS	0	0	0	15	0	0	0	APERAK_111...	POS		

Figure 25. MaBiS file state table with metering point information from MSCONS messages

The first columns in the table define the related month of the file, the file name itself, the file id that is contained in the MaBiS file and the associated BiKo(sender of the file) and BKV (receiver of the file) that are associated to the files by the MaBiS module preferences settings.

The Type column defines the type of EDI file. Currently supported are EDI files of type MSCONS, UTILMD and PRICAT.

The following two column groups, Metering point (Mp) information and BAS metering points information, are only relevant for MSCONS file states. They will be empty for any other EDI file.

The last columns show the response file generation state. If a response file has been generated, the file name will be displayed in the corresponding column. A response file can be positive (POS) or negative (NEG). When the response file has been dispatched, the last dispatch date will be displayed in the dispatch date column.

The columns for the MSCONS files give you quick information about the contained metering points and if the MSCONS files contain any differences to zero. The metering point information distinguishes between metering points of type BAS, FPE, FPI and unknown. The information is received from the configured metering points in the preferences. When a metering point id is found in the MSCONS file that is not configured in the preferences, it will be listed in the unknown metering points column and the background color turns to red.

When there are unknown metering points in the file, the MaBiS module cannot compute the differences to zero correctly, because the module requires the knowledge, of which type of metering point the metering point is.

When such a case occurs, it may be the case that you have forgotten to configure the metering point in the preferences or there is really a metering point contained in the file that was wrongly associated to the BKV by the BiKo. In such a case you should contact the BiKo for clearing. When you just have forgotten to configure the metering point you can add the metering point in the preferences and reimport the MSCONS file.

The group column BAS metering points shows detailed information about the metering data in the MSCONS file. In the use case for this application the resulting data in this column should always display zero.

When there are differences to zero, the total count of metered data entries not equal to zero is displayed in the last column.

Usually the metered values in the MSCONS files have a 15 Minutes resolution and contain data for a whole month. The MaBiS module aggregates the differences to zero on a daily basis and adds only values of the same OBIS number (FPI or FPE BAS values). So the displayed values Max delta is the maximum difference to zero that occurred on a day. The minimum delta column is computed the same way but represents the minimum difference to zero on a day.

Currently only for MSCONS file states you have the possibility to open a more detailed dialog by double-clicking on a MSCONS file state column. The new dialog displays context information about each single difference entry that differs to zero.

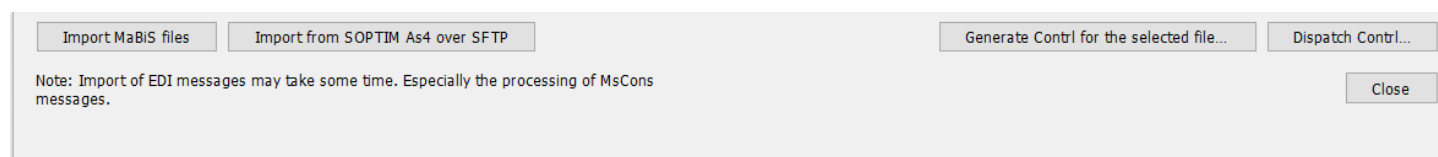
When an EDI file was imported but there were errors on reading or interpreting some data in it, the MaBiS extension shows the file with a red background color in the filename column. The last column may contain some additional data about the error. If a CONTRL message can be generated for the erroneous file it will be displayed and depending on the error you can send a negative CONTRL message. Otherwise, the file will be moved to the failed directory and will only be displayed in the communication history dialog.

The button bar below the main view table provides you with the options to import new files, generating a CONTRL file for a selected MaBiS file in the main view and the dispatching of the CONTRL messages.

Importing files

For importing your EDI files you have to copy the files into the import directory of the MaBiS data store (<path-to-ComCT-DataStore>/MABIS/import). Now you click the import button on the MaBiS main view dialog.

By clicking the “Import from SOPTIM AS4 SFTP (SAGA)” you can import MaBiS files over the configured SOPTIM AS4 SFTP (SAGA) server.



Since the EDI data is more complex and especially the processing of MSCONS messages takes some time because of checking for differences and computing the daily differences, the file import and processing may take some more time than the import of ESS/CIM or KISS messages.

When you have clicked on the import MaBiS files button the progress status bar provides you with the information about the current import progress and the file that is currently processed.

You can cancel the import process by clicking on the Cancel button that is visible during the import process.

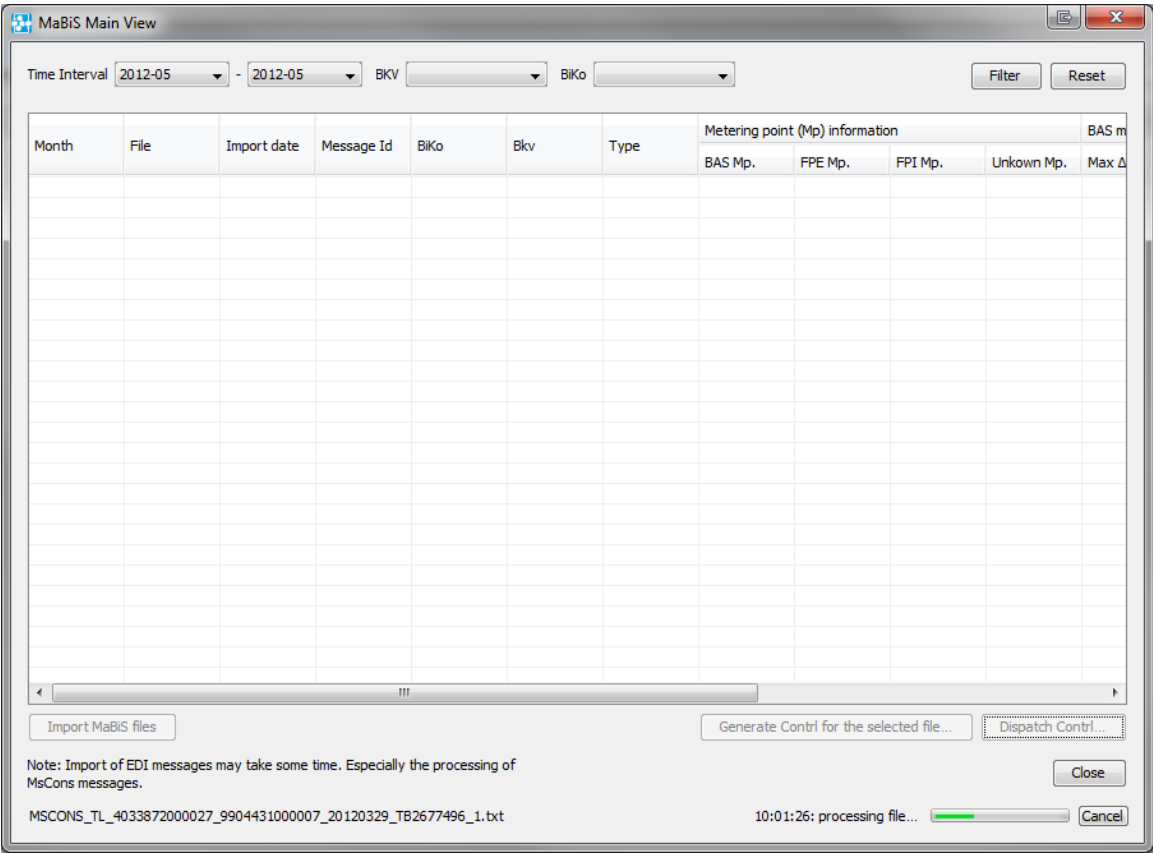
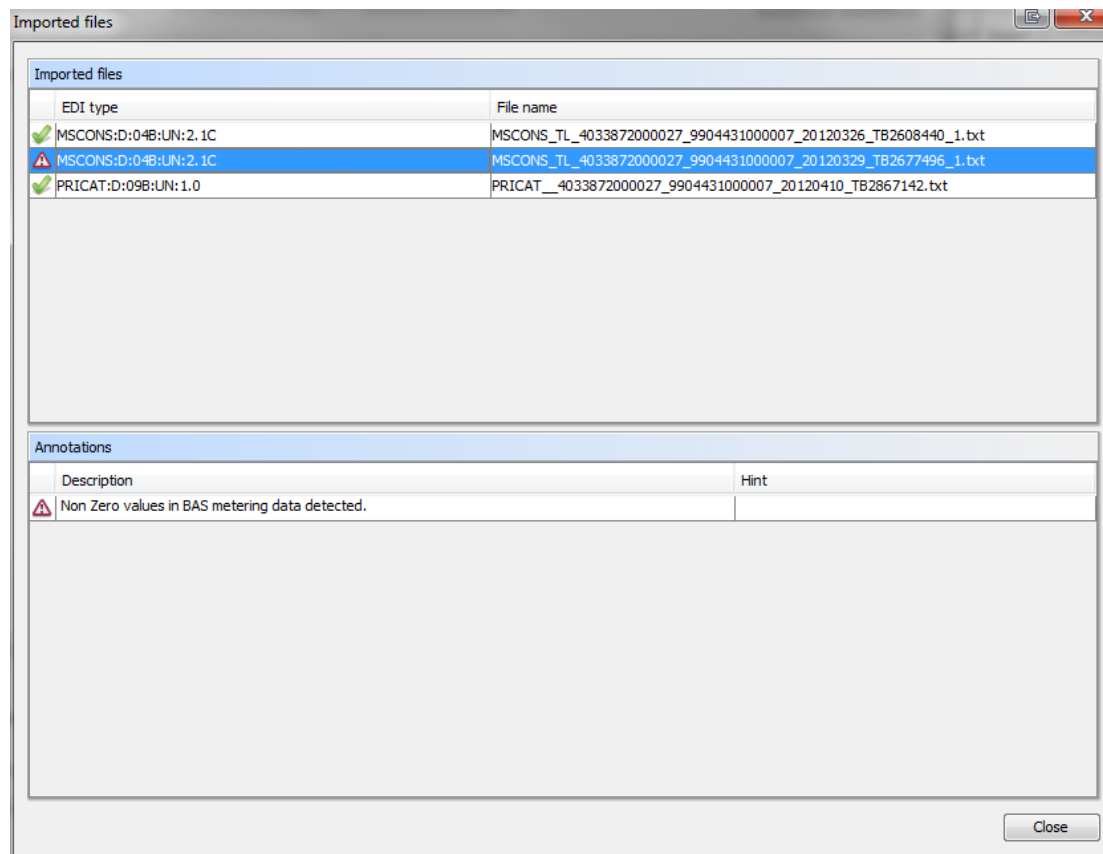


Figure 26. MaBiS main view

When the import of EDI files has finished you will see a final overview about the import result of the imported files. Refer to [MaBiS file import with validity check error](#) where three messages were imported and one MCONS message had some differences in the metered values. There are three states after import: OK, Warning and Error. Messages that were successfully imported and messages that contain warnings will be moved to its corresponding folder in the MaBiS data store. In the example this would be the folder for the BKV SOPTIM001 and the BiKo TenneT and the month folders for March and April 2012.

Messages with errors will be moved from the import directory to the failed directory.

MaBiS file import with validity check error

After importing the files you can see or filter for the messages in the main view.

Displaying EDI messages

In the MaBiS main view you can open detailed information to some EDI message types by double-click on the row in the main overview table.

Currently additional data for MSCONS (BAS) and PRICAT files is stored.

Displaying MSCONS Difference reports

For the BAS-typed MSCONS messages there are stored additional data concerning deviations of the metered values to zero. Those values may be important for negotiating errors in the billing process with the system operator.

When double-clicking on the MScONS entry in the MaBiS main overview table the MsCons Diff-Report opens and displays information about the known and unknown metering points and in the table, a detailed view of the metered values not equal to zero sorted by the product (incoming or outgoing power).

MSCONS Diff report

MsCons Diff Report

File Id: XXXXXXXXXX Filename: MSCONS_TL_ XXXXXXXXXX
 BKV: XXXXXXXXXX BKO: 10YDE-EON-----1

BAS metering points: 3 Unknown metering points: 0 FPE metering points: 3 FPI metering points: 3

Maximum difference to zero (day) (kWh): 8
 Minimum difference to zero (day) (kWh): 3
 Entries with difference to zero: 6

Document date	Data segment id	Position(Meteringdatablock)	Product-Id	Metering-begin	Metering-end	Reading(FPE)...	Reading(FPI)...
Metering point:							
Mar 29, 2012 11:17 AM	TB2677496_1-1	1	1-1:1.29.0	Jan 1, 2012 12:00 AM	Jan 1, 2012 12:15 AM	5	
Mar 29, 2012 11:17 AM	TB2677496_1-1	1	1-1:1.29.0	Jan 1, 2012 12:15 AM	Jan 1, 2012 12:30 AM	1	
Mar 29, 2012 11:17 AM	TB2677496_1-1	1	1-1:1.29.0	Jan 1, 2012 12:30 AM	Jan 1, 2012 12:45 AM	2	
Mar 29, 2012 11:17 AM	TB2677496_1-1	1	1-1:1.29.0	Jan 31, 2012 9:00 AM	Jan 31, 2012 9:15 AM	1	
Mar 29, 2012 11:17 AM	TB2677496_1-1	1	1-1:1.29.0	Jan 31, 2012 9:15 AM	Jan 31, 2012 9:30 AM	2	
Metering point:							
Mar 29, 2012 11:17 AM	TB2677496_1-4	2	1-1:2.29.0	Jan 2, 2012 4:45 PM	Jan 2, 2012 5:00 PM		5

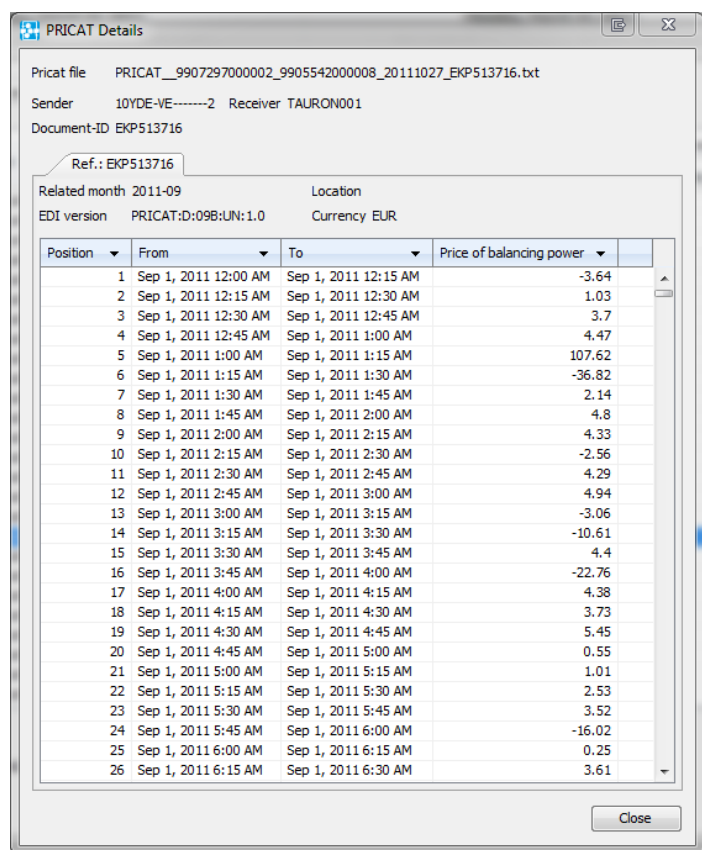
Close

PRICAT View

In the context of the MaBiS processes each market participant gets the prices of balancing power as a file in PRICAT formatting. The file contains values for one month in a quarter-hour resolution.

During import of a PRICAT EDI message ComCT extracts the pricing information from the EDI file and stores it in a more convenient formatting. Double-clicking the PRICAT row in the MaBiS main overview opens the PRICAT detail view.

PRICAT detail view



PRICAT Details

Pricat file PRICAT__9907297000002_9905542000008_20111027_EKP513716.txt

Sender 10YDE-VE-----2 Receiver TAURON001

Document-ID EKP513716

Ref.: EKP513716

Related month 2011-09 Location

EDI version PRICAT:D:09B:UN:1.0 Currency EUR

Position	From	To	Price of balancing power
1	Sep 1, 2011 12:00 AM	Sep 1, 2011 12:15 AM	-3.64
2	Sep 1, 2011 12:15 AM	Sep 1, 2011 12:30 AM	1.03
3	Sep 1, 2011 12:30 AM	Sep 1, 2011 12:45 AM	3.7
4	Sep 1, 2011 12:45 AM	Sep 1, 2011 1:00 AM	4.47
5	Sep 1, 2011 1:00 AM	Sep 1, 2011 1:15 AM	107.62
6	Sep 1, 2011 1:15 AM	Sep 1, 2011 1:30 AM	-36.82
7	Sep 1, 2011 1:30 AM	Sep 1, 2011 1:45 AM	2.14
8	Sep 1, 2011 1:45 AM	Sep 1, 2011 2:00 AM	4.8
9	Sep 1, 2011 2:00 AM	Sep 1, 2011 2:15 AM	4.33
10	Sep 1, 2011 2:15 AM	Sep 1, 2011 2:30 AM	-2.56
11	Sep 1, 2011 2:30 AM	Sep 1, 2011 2:45 AM	4.29
12	Sep 1, 2011 2:45 AM	Sep 1, 2011 3:00 AM	4.94
13	Sep 1, 2011 3:00 AM	Sep 1, 2011 3:15 AM	-3.06
14	Sep 1, 2011 3:15 AM	Sep 1, 2011 3:30 AM	-10.61
15	Sep 1, 2011 3:30 AM	Sep 1, 2011 3:45 AM	4.4
16	Sep 1, 2011 3:45 AM	Sep 1, 2011 4:00 AM	-22.76
17	Sep 1, 2011 4:00 AM	Sep 1, 2011 4:15 AM	4.38
18	Sep 1, 2011 4:15 AM	Sep 1, 2011 4:30 AM	3.73
19	Sep 1, 2011 4:30 AM	Sep 1, 2011 4:45 AM	5.45
20	Sep 1, 2011 4:45 AM	Sep 1, 2011 5:00 AM	0.55
21	Sep 1, 2011 5:00 AM	Sep 1, 2011 5:15 AM	1.01
22	Sep 1, 2011 5:15 AM	Sep 1, 2011 5:30 AM	2.53
23	Sep 1, 2011 5:30 AM	Sep 1, 2011 5:45 AM	3.52
24	Sep 1, 2011 5:45 AM	Sep 1, 2011 6:00 AM	-16.02
25	Sep 1, 2011 6:00 AM	Sep 1, 2011 6:15 AM	0.25
26	Sep 1, 2011 6:15 AM	Sep 1, 2011 6:30 AM	3.61

Close

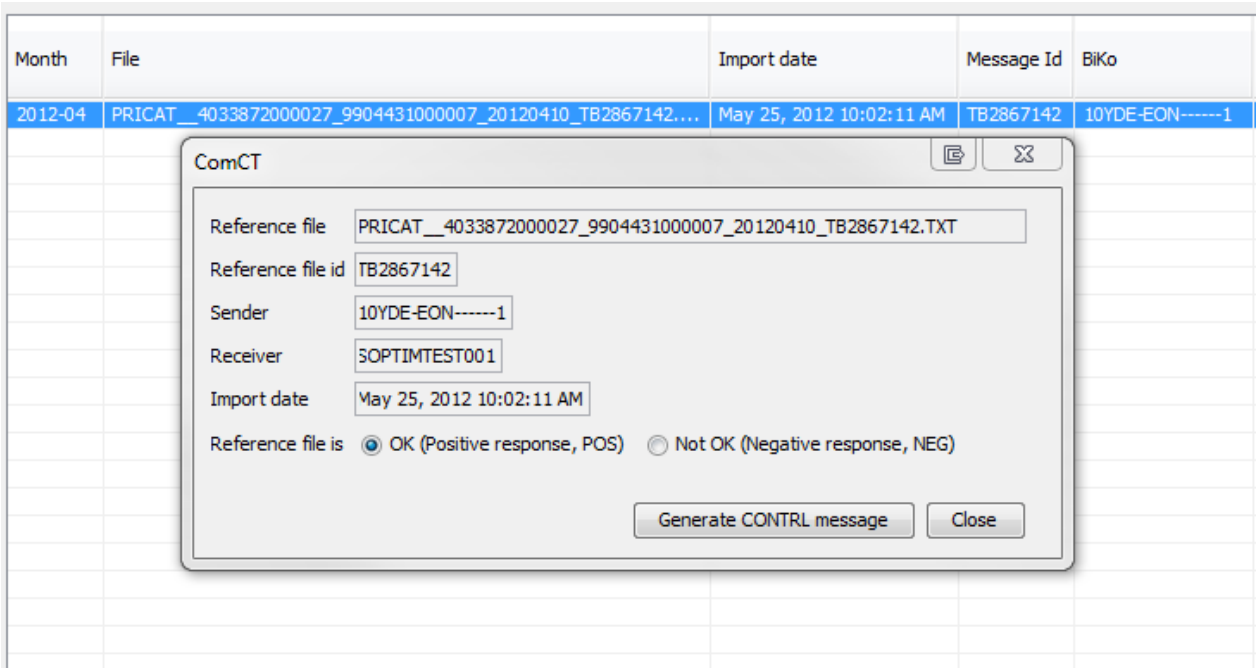
The columns can be filtered by right-clicking on the column header.

Generating response messages

The MaBiS rules require the response to the EDI files with a response message. With a response message you tell the BiKo that you have received the message and that you were able to process the message. If you detect differences or errors in the content of the message you should contact the BiKo directly and also consult ComCT support.

You can generate a response message in the MaBiS main view by selecting a row in the table and click on the button “Generate response for the selected file...”.

A new dialog that is shown in Figure 5-14 is displayed.



You see the relevant data for the EDI file and can decide whether you want to reply with a positive (file seems to be correct) or negative (file seems to have some errors in it) response.

Dispatching response messages

For dispatching a response message you can click on the “Dispatch response...” button in the MaBiS main view. The dialog is initially filled with the filter result from the MaBiS main view where a Contrl message is already generated for.

	Source	Contrl	Contrl response	BKV	BiKo	Dispatch date
<input type="checkbox"/>	PRICAT__403387200...	CONTRL_9904431000007_403387200002...	POS	SOPTIMTEST001	10YDE-EON-----1	

You have the option to select all files and even resend response messages that have already been dispatched, or you can select all response messages in the table that were not sent recently. You can also select / deselect the messages to be dispatched individually by the checkbox in the first column for each row.

A final click on the “Send” button will dispatch the messages by using the configured dispatch way for each BiKo. A final dispatching report will provide you with the dispatching results for each file.

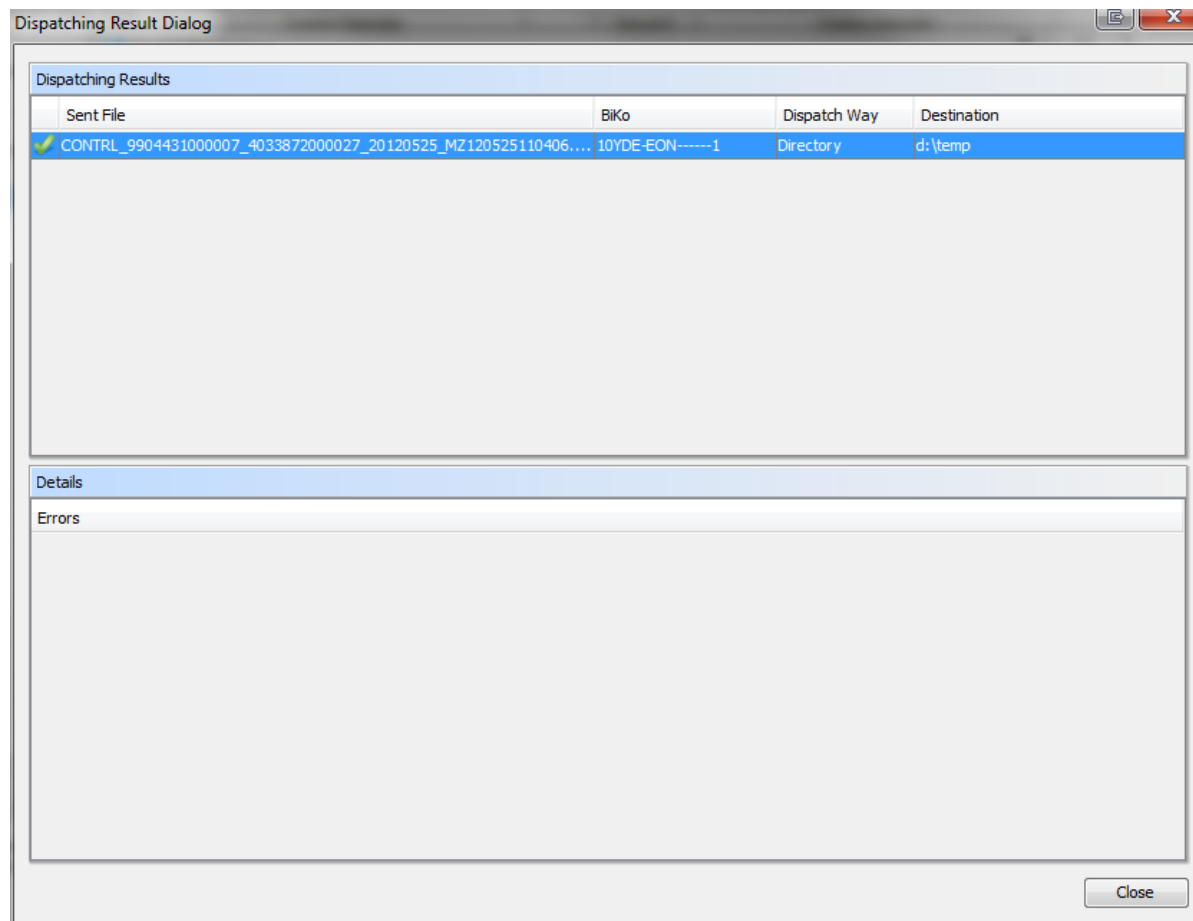


Figure 27. Successful response dispatching

All imported and dispatched data will be added to the communication history.

5.1.5. The MaBiS communication history

The communication history for the MaBiS data can be accessed by opening the MaBiS extensions menu and clicking on the menu item “MaBiS Communication Overview”.

MaBiS Communication Overview

Time interval: May 15, 2012 - May 24, 2012

Filter Reset

Filename	At	Related Month	Direction	Import/Dispatch way	Result	Hint
MSCONS_TL_4...	May 21, 2012 4:45:15 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 21, 2012 6:18:03 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 3:49:32 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 3:50:14 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 3:51:15 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 3:52:22 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 3:55:24 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 3:56:23 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 3:57:09 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 5:51:31 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 5:51:50 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 5:52:17 PM	2012-03	IN	DIRECTORY	OK	
MSCONS_TL_4...	May 22, 2012 5:52:43 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 5:53:10 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 5:53:36 PM	2012-03	IN	DIRECTORY	WARNING	Abweichungen beim Prüfen der BAS Zeitreihen auf Nullwerte erkannt
MSCONS_TL_4...	May 22, 2012 5:54:18 PM	2012-03	IN	DIRECTORY	OK	
CONTRL_9905...	May 23, 2012 5:08:05 PM	2012-03	OUT	MAIL	ERROR	Fehler beim Mailversand
CONTRL_9905...	May 23, 2012 5:08:06 PM	2012-03	OUT	MAIL	ERROR	Fehler beim Mailversand
CONTRL_9905...	May 23, 2012 5:08:07 PM	2012-03	OUT	MAIL	ERROR	Fehler beim Mailversand
CONTRL_9905...	May 24, 2012 7:37:02 PM	2012-03	OUT	MAIL	ERROR	Error sending mail
CONTRL_9905...	May 24, 2012 7:37:03 PM	2012-03	OUT	MAIL	ERROR	Error sending mail
CONTRL_9905...	May 24, 2012 7:37:04 PM	2012-03	OUT	MAIL	ERROR	Error sending mail
CONTRL_9905...	May 24, 2012 7:38:11 PM	2012-03	OUT	DIRECTORY	OK	
CONTRL_9905...	May 24, 2012 7:38:11 PM	2012-03	OUT	DIRECTORY	OK	
CONTRL_9905...	May 24, 2012 7:38:11 PM	2012-03	OUT	DIRECTORY	OK	
CONTRL_9905...	May 24, 2012 7:45:59 PM	2012-04	OUT	DIRECTORY	OK	

Close

The communication overview can be filtered for a certain period with a daily resolution and all incoming and outgoing files are displayed and also the state of importing or dispatching. The hint column gives short information about what happened during processing the file.

6. Verification Rules

Checks are carried out in accordance with the ESS Implementation Guide Version 2 Release 3 and, as far as possible, according to the related German market rules.

In accordance with the 'internal process', each check is carried out as follows:

ACK In the event of an error, the timetable file is still imported despite errors, i.e. the file is displayed in the main summary. However, the import version is highlighted in red. Double clicking on the item from within the main summary, displays the file together with the related errors. However, the file can not be sent. The imported files are also added to the communication protocol

Text In the event of an error, the timetable file is not imported and accordingly is filed in the Failed directory. The error messages are shown informally during import and can also not be viewed subsequently via the import error protocol.

not relevant Verification has been carried out only for the sake of completeness. However, ComCT will not perform the check.

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P1.1	1	E K	M	Registration with incorrect recipient. The 'Receiver Identification' specified is rejected by the recipient.	A53	not relevant
P1.2	1	E K	M	Registration with incorrect receiver role. The 'Receiver Role' shown is rejected by the recipient.	A53	ACK
P2	2.1	E	M	The Schedule Time Interval is not a single full calendar day.	A04	Text
P2	2.2	E	M	The 'Schedule Time' information is not provided in UTC format.	A04	Text

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P3	3	E K	M	Time of receipt is after the deadline.	A57	not relevant
P4.1	4	E	M	BRP(balance responsible party) Sender ID in receiver control zone is invalid.	A05	not relevant
P4.2	4	E	M	'Coding scheme' on message level is invalid.	A05	Text
P4.3	4	E	T	'Coding scheme' on TS level is invalid.	A05	Text
P4.4	4	E	M	'Sender role' incorrect.	A05	ACK
P5.1	5	E	M	Message ID already exists (regarding Sender ID, Receiver ID and 'Day').	A51	not relevant (verification technically not practical)
P5.2	5	E	M	Message ID not identical with the Message ID already used for the Sender ID, Receiver ID and Day.	A51	Text
P5.4	5	E	M	Message ID exceeds 35 characters.	A51	Text
P5.5	5	E, K	M	Message Version is lower than the Message Version already received.	A51	ACK
P6	6	E	M	The information on the 'Message Type', 'Process Type' and 'Schedule Classification Type' is not valid in this form. (Content type not recognisable)	A59	Text
P7	7	E, K	M	Balance area total does not equal zero, i.e. portfolio is not balanced.	A54	ACK

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P8	8	E, K	T	The entry under 'Measurement Unit' does not correspond with the standard value.	A59	Text
P9	9	E	T	'Metering Point ID' is not blank or related 'Coding scheme' is not blank.	A59	Text
P10	10	E	T	Capacity Contract Type is not blank.	A59	Text
P11	11	E	T	Capacity Agreement ID is not blank.	A59	Text
P12	12	E	T	Entry under Product Information is invalid.	A59	ACK
P13	13	E	T	Entry under Object Aggregation is invalid.	A59	ACK
P14	14	E	T	Entry in Business Type is invalid.	A59	ACK
P15	15	E, K	T	Timetable with the same header (address) information exists more than once.	A55	ACK
P16	16	E, K	T	EIC (In-Party, Out-Party) not valid. a) format error: incorrect EIC-Code or coding scheme format or b) content error: BRP (balance responsible party) not registered/ authorised with TSO	A22	a) Text + b) not rel.
P17.1	17	E, K	T	Control zone unknown (relates to external timetables only).	A23	not relevant
P17.2	17	E, K	T	Timetable not valid with this control zone (relates to external timetables only).	A23	not relevant

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P18	18	E, K	T	Value(s) changed and version not updated, i.e. the values have been changed compared to the version already received but the version number of the individual timetable has not been increased exponentially.	A50	ACK
P19	19	E, K	T	Version is lower than the version already received.	A50	ACK
P20.1	20	E, K	T	Invalid version number format (lower or equal 0 ...).	A50	Text
P20.2	20	E, K	T	Version number higher than the Message Version	A50	ACK
P21	21	E, K	T	New individual timetable with invalid version, i.e. the TS Version is lower or equals the Message Version of the last accepted message.	A50	ACK
P22	22		T, I	The two individual timetables of a 'from/to' relationship both differ 0, i.e. they have not been balanced (incorrect netting).	A56	ACK
P23	23	E, K	T	This version does not contain an individual timetable which has already been registered in the version received. (output of each missing TS)	A52	ACK
P24.1	24	E	T	Time Series ID invalid. (i.e. incorrect format: blank, exceeds 35 characters ...)	A55	Text
P24.2	24	E	T	Time Series ID ambiguous.	A55	ACK
P24.3	24	E	T	Invalid change of the 'Time Series ID' (in subsequent message versions) in respect of the same 'from/to' information.	A55	ACK

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P25	25	E, K	T	Entries in cross control zone timetables (Business type A06 or A03) are identical under InArea and OutArea.	A23	ACK
P26	26	E, K	T	None of the entries in individual cross control zone (external) timetables under the 'InArea' and 'OutArea' of the receiver party correspond (wrong recipient or superfluous individual timetable).	A59	ACK
P27	27	E, K	T	Entries in individual cross control zone (external) timetables under 'InParty' and/or 'OutParty' do not correspond to the sender. (i.e. at least one of the two in/out party details must correspond to the sender)	A22	ACK
P28	28	E, K	T	Invalid cross registration in respect of individual cross control zone (external) timetables.	A58	ACK (reg. X-FP)
P29	29	E, K	T	At least one of the entries in individual internal control zone timetables under 'InArea' and 'OutArea' does not match the control zone of the receiving party. (expected entry: In Area = Out Area = CA of the receiving party)	A23	ACK
P30	30	E, K	T	Entries in individual internal control zone timetables under 'InParty' and 'OutParty' are identical.	A22	ACK
P31	31	E, K	T	None of the entries in individual internal control zone (internal) timetables under 'InParty' and 'OutParty' correspond to the sender.	A22	ACK

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P32	32	E, K	T	<p>Energy generation forecast - Individual timetable:</p> <p>The entry under 'InArea' does not correspond to the control zone of the receiving party.</p> <p>(Expected entry: In Area = Out Area = CA of the receiving party)</p>	A23	ACK
P33	33	E, K	T	<p>Energy generation forecast - Individual timetable:</p> <p>The entry under 'OutArea' does not correspond to the control zone of the receiving party.</p> <p>(Expected entry: In Area = Out Area = CA of the receiving party)</p>	A23	ACK
P34	34	E, K	T	<p>Energy generation forecast - Individual timetables:</p> <p>The entry under 'InParty' does not correspond to the sender.</p> <p>(Expected entry: In Party = sender)</p>	A22	ACK
P35	35	E, K	T	<p>Energy generation forecast - Individual timetables:</p> <p>The entry under 'OutParty' has not been left blank and does not correspond to the standard value.</p>	A22	ACK

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P36	36	E, K	T	Consumption forecast - Individual timetable: The entry under 'OutArea' does not correspond to the control zone of the receiving party. (Expected entry: Out Area = RZ of the receiving party)	A23	ACK
P37	37	E, K	T	Consumption forecast - Individual timetable: The entry under 'InArea' does not correspond to the control zone of the receiving party. (Expected entry: In Area = Out Area = RZ of the receiving party)	A23	ACK
P38	38	E, K	T	Consumption forecast - Individual timetable: The entry under 'OutParty' does not correspond to the sender. (Expected entry: Out Party = sender)	A22	ACK
P39	39	E, K	T	Consumption forecast - Individual timetable: The entry under 'InParty' has not been left blank and does not correspond to the standard value.	A22	ACK
P40	40	E	T	The 'Period Time Interval' (UTC) does not match the 'Schedule Time Interval'.	A04	Text
P41	41	E	T	The entry under Resolution does not correspond to the standard value.	A41	Text

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P42.1	42	E, K	I	This position exists more than once.	A49	Text
P42.2	42	E, K	I	Missing position. Output of each missing Interval Position.	A49	ACK
P43	43	E, K	I	Superfluous position. Output of each superfluous Interval Position.	A49	Text
P44	44	E	I	Invalid format (i.e. no decimal point).	A42	ACK
P45	45	E, K	I	Invalid negative value.	A46	ACK
P46	46	E, K	I	Invalid places after comma (more than 3 places).	A42	ACK
P47.1	47		I	The values within the related MultiTimeFrameSystem are not identical. (i.e. in respect of the registration of hours: different ¼ hours within a full hour)	A59	not relevant
P47.2	47		I	The values do not correspond to the MultiTimeFrameSystem (i.e. no full MW).	A59	not relevant
P48	48	E,K	T	A time series was modified and does not comply with the previously sent version	A63	Text
V1	1	E, K	T	File with counter registration not received.	A28	not relevant
V2	2	E, K	T	File with counter registration received, individual timetable not included in counter registration.	A09 +A28	not relevant

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
V3	3	E, K	T, I	Difference to the individual timetable of the counter registration.	A09	not relevant
V4	4	E, K	T, I	Default limits exceeded. (i.e. transport bottleneck, auctioning, etc.)	A27	not relevant
P9501	-	E, K	M	Recipient (TSO) not stored in Preferences.	C01	Text
P9502	-	E, K	M	Recipient (TSO) not stored in the sender balance area.	C02	Text

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For further questions or hints, the SOPTIM AG is of course always at your service.

Before you send us a service request please be sure that this request is not already covered by the list of „Known Problems“ in the Release Notes document that is included in your ComCT installation.

In the case of an unexpected error (runtime error) ComCT generates a log file that contains as much information as possible to help the developers to find a problem resolution. A log file is stored in the „comct“- directory, that is located in the users home directory.

Please attach the log files when you send us an error report.

When you are interested in the full function range and the newest features of ComCT ask the SOPTIM AG. We will be glad to give you information about our services.

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