

Communication Client for Trader (ComCT)

User Manual

Version 1.01
of 25 November 2003

- **Setup, Functionality and Installation**

General information, imports and filing
[Installation](#)

- **Operation and Functions**

Display messages, input of new timetables, dispatch and acknowledgements

- **Master data and Configuration (Preferences)**

Download and installation, set up of master and configuration data, online and offline updates

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1. Set up, 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 formats, the program is also able to process old KISS files. When reading in KISS timetables, files are automatically converted into the ESS 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**

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.

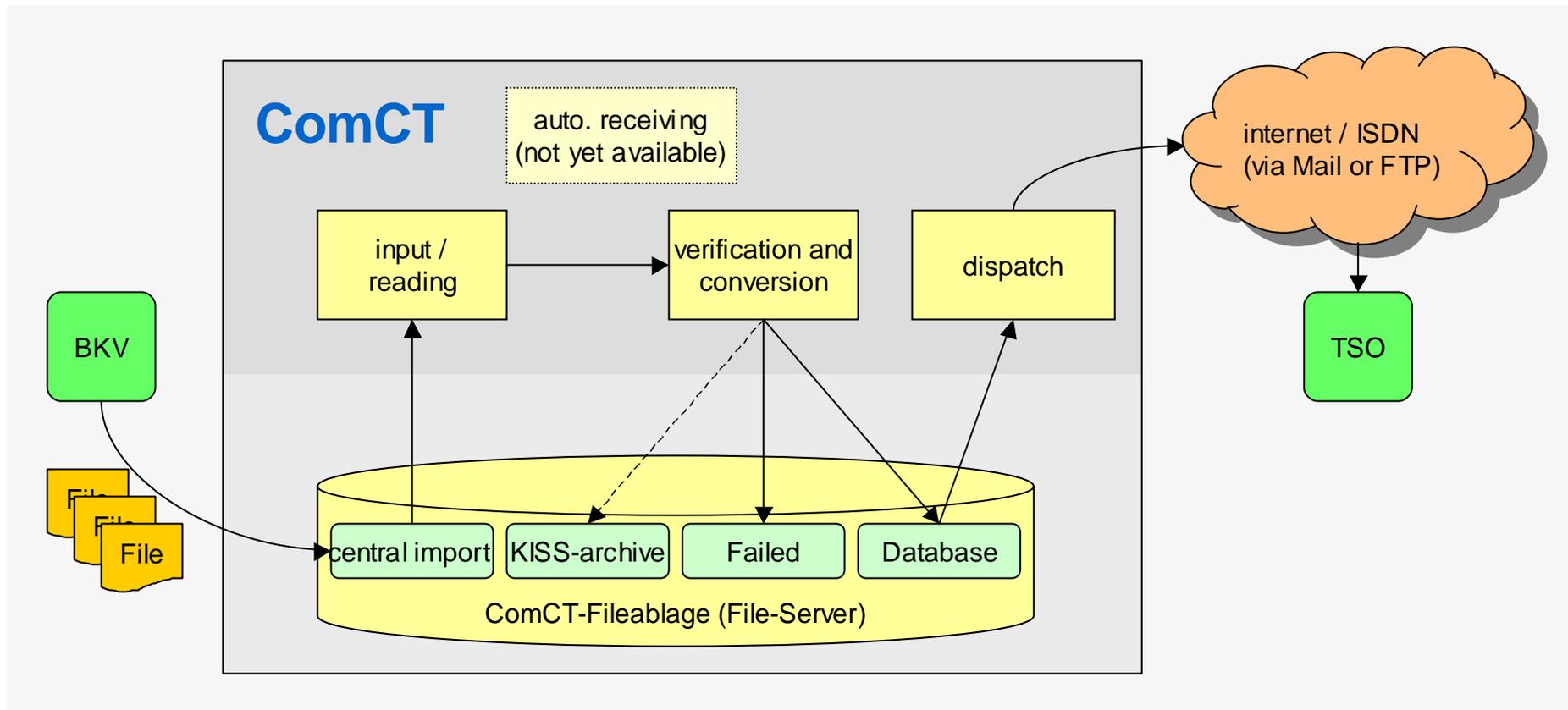
⇒ **Configuration / Parameter assignment**

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 set up and structures of ComCT:



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 recognises the intake of new files and updates the relevant status displays in the main summary.

Timetables can be imported in both **KISS** and **ESS** format. KISS timetables are converted into the ESS format at the time of import. Internally, and in exchanges with the transmission line network operators, only the ESS 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>
  <'internal' balance area A >
    /YYYY_MM_DD/...
    ...
  <'internal' balance area B >
    /YYYY_MM_DD/...
    ...
  /export      or free parameter assignment per balance area (see below)
  /failed
    /YYYY_MM_DD/...
  /import
  /kiss archiv
    /YYYY_MM_DD/...
  /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 sub-directory 'Meta-Inf').

1.3 Installation

The basic steps for the installation of the application as well as support for ComCT ('Communication Client for Trader') have been set out in the ReadMe file ([..\..\ReadMe_de.htm](#)).

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.



Prior to the first operation of ComCT, a so-called 'Data Store' need to be created. Click on the link 'Create new Data Store' and follow the dialog.

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 which are converted into ESS files during import.

New Data Store

Steps

1. Directories
2. SMTP Server
3. Email Body
4. System Operators
5. Balance Areas

Directories

Data store

Directory C:\Programme\Communication Client for Trader Browse...

Use user specified directory

Import

Directory C:\Programme\Communication Client for Trader Browse...

Use user specified directory

Export

Directory C:\Programme\Communication Client for Trader Browse...

Use user specified directory

Failed

Directory C:\Programme\Communication Client for Trader Browse...

Use user specified directory

KISS-Archive

Directory C:\Programme\Communication Client for Trader Browse...

Use user specified directory

< Back Next > Finish Cancel

In addition, access to the mail server (SMTP server) needs to be set up to enable the transmission of emails.

Primary Server

At a minimum, this requires entry of the server name (or IP address) and the port number (if different to the standard setting).

Send Copy To

Since outgoing emails are transmitted directly via the SMTP server, email messages are not stored or displayed in the local mail client (i.e. Outlook).

In order to display emails in Outlook, emails may be sent to an own account (as a copy). This means that emails are not only sent to the respective TSO but are also copied to the internal site and therefore displayed in the local mail client (i.e. Outlook).

Optionally, a second mail server (**Secondary Server**) may be positioned which will be used if the primary server is not available.

User name and password

If the mail server requires explicit authentication, the user name (namely the email account) and the related password must be stored.

If the mail server does not call for explicit authentication, the fields may be left empty.

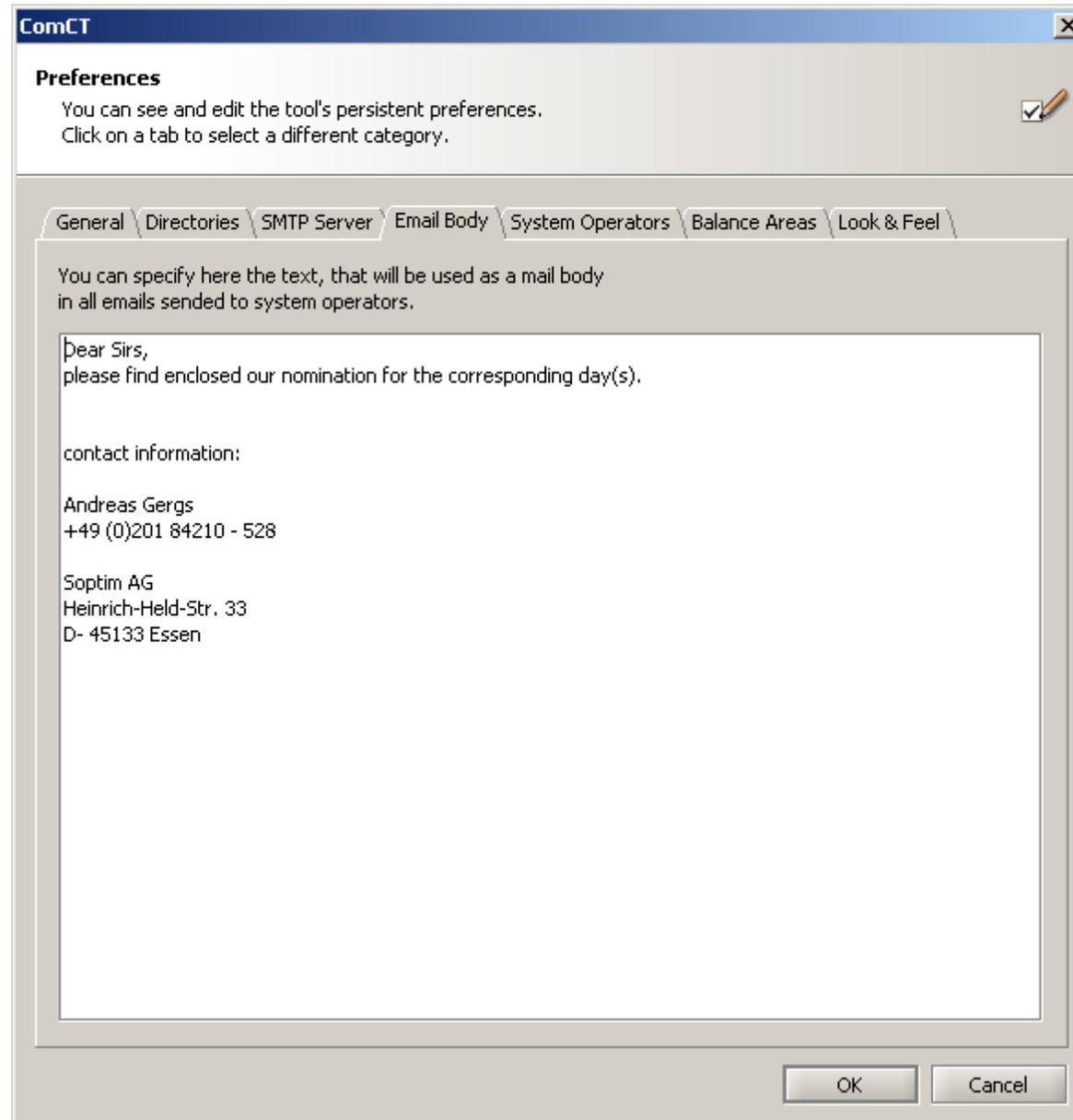
The screenshot shows the 'ComCT' application window with the 'Preferences' dialog box open. The 'SMTP Server' tab is selected. The dialog box contains the following fields and options:

- Primary SMTP Server**
 - Host: SoptimMailserver12
 - Port: 25
 - Email address: comct@soptim.de
 - Send Copy To: comct_out@soptim.de
 - Use name and password
 - User Name: [empty]
 - Password: [empty]
- Secondary SMTP Server**
 - Host: [empty]
 - Port: 25
 - Email address: [empty]
 - Send Copy To: [empty]
 - Use name and password
 - User Name: [empty]
 - Password: [empty]

At the bottom right of the dialog box are 'OK' and 'Cancel' buttons.

You may then enter free-form text in the email body (i.e. your contact address).

This text will then be sent with every email message.



System Operators

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

All transmission line network operators entered (including active characteristic) are then available during the subsequent parameter assignment of the 'internal' balance areas.

Need balancing

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

A communication path needs to be set up for each transmission line network operator (email, FTP or file system).

Within the Part of the email address you are able to define the mail **subject** (e.g. DATA).

TSO/BKO in Austria

The ComCT makes differences between TSO's and BKO's. The BKO's will get the „receiver role“ A05 instead of A04 for the TSO's.

Further, in the KISS converting scope to identify the receiver X-EIC all BKO's will be ignored. That means, that the filename of a nomination to a BKO shut have a X-EIC (not a Y-EIC) in the second Part of the filename.

The screenshot shows a 'System Operator' dialog box with the following fields and options:

- Identification: 10XDE-RWENET---W
- Area: 10YDE-RWENET---I
- Active:
- Need balancing:
- Dispatch way: Email

Under the 'Dispatch ways' section, the 'Email Addresses' tab is active, showing:

- Primary email: tsoplan@rwe.com
- Secondary email: (empty)
- Subject prefix: (empty)

Buttons for 'OK' and 'Cancel' are located at the bottom right.

Balance area (internal balance areas)

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

Enter the internal EIC code in the identification field.

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 timetables need to be entered in the **List of System Operators**. The transmission line network operators will then be displayed in the main summary.

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.

If new partner balance areas are identified, the system will ask if the relevant balance area should be added as a new partner balance area.

After confirmation, the new partner balance is automatically entered in the list of your partner balance areas.

Balance area

Identification: 11X-TRADER-1---W

Export path: Browse...

System Operators | Partner balance areas

Identification	Control Area	Active
10XDE-RWENET---W	10YDE-RWENET---I	<input checked="" type="checkbox"/>
10XDE-EON-NETZ-C	10YDE-EON-----1	<input checked="" type="checkbox"/>
10XDE-ENBW--TNGX	10YDE-ENBW-----N	<input checked="" type="checkbox"/>
10XDE-VE-TRANSMK	10YDE-VE-----2	<input checked="" type="checkbox"/>

Choose... Remove Properties...

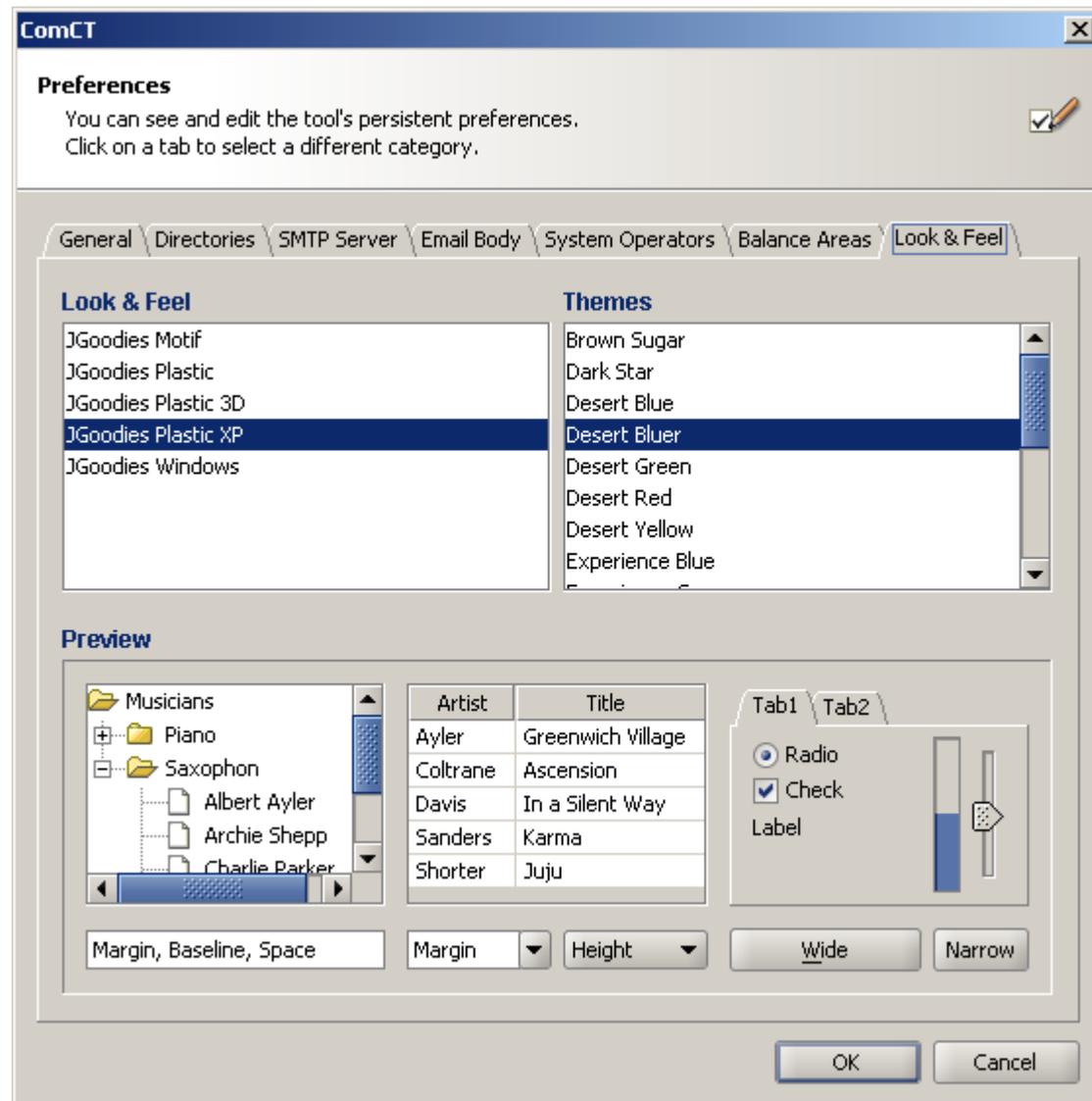
OK Cancel

Look & Feel and Themes

This function is used to select and set different layouts for the interface.

The appearance is set on the left hand side and the related colour spec on the right.

The lower part (in preview) is used to display the current settings.



General Preferences

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

On Startup

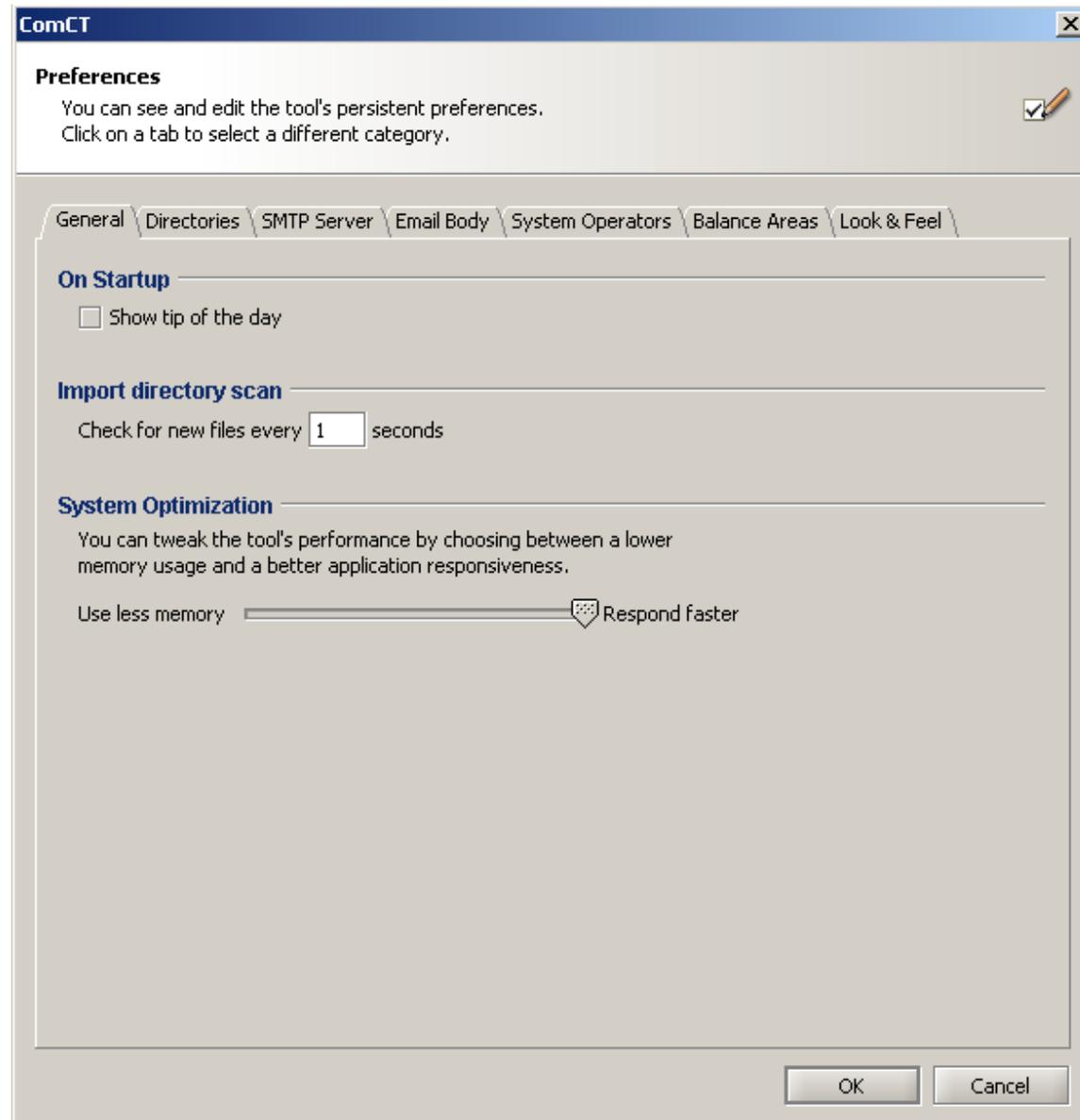
Here you can activate the view of some information during the startup of the ComCT.

Import directory scan

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

System Optimization

Here you configure the use of main memory by the 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 acknowledgements

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

2.2 Open Data Store

After opening a 'Data Store', the main summary is displayed together with the default viewing period (focus days) and the import directory is read in.

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.

The screenshot shows the ComCT software interface. The 'General Information' section includes fields for 'Time interval' (First day: Donnerstag, 18. September 2003; Last day: Freitag, 19. September 2003; Number of days: 2) and 'Import' statistics (XML-files count: 0; XLS-files count: 0). The 'Partner balance areas' table lists several areas with their first and last use dates. The 'Total Summary' table provides a detailed breakdown of data for two days: Donnerstag, 18. September 2003 and Freitag, 19. September 2003. The table columns include Party, Import, Dispatch (Version, ACK), and System Operator (Version, TS, ANO, Missing CNF, CNF). Callouts explain that 'imported version' is shown in green, 'dispatched Version (ggf. mit ACK)' is shown in yellow, and the 'TS' column contains data from the TSO accepted version and numbers of TS (intern/extern): total number, number of ANO, number of missing CNF, and number (final) CNF.

Partner balance areas

Party	Area	First use	Last use
11X-TRADER-1---W			
11X-TRADER-2---R	10YDE-RWENET---I	10.10.2003	10.10.2003
11X-TRADER-4---H	10YDE-ENBW---N	10.10.2003	10.10.2003
11X-TRADER-3---M	10YDE-ENBW---N	10.10.2003	10.10.2003
11X-TRADER-2---R			

Total Summary

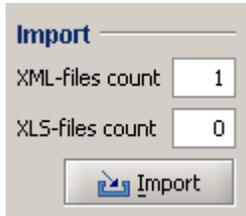
Party	Donnerstag, 18. September 2003								Freitag, 19. September 2003								
	Import		Dispatch		System Operator				Import		Dispatch		System Operator				
	Version	ACK	Version	ACK	Version	TS	ANO	Missing CNF	CNF	Version	ACK	Version	TS	ANO	Missing CNF	CNF	
11X-TRADER-1---W																	
10XDE-RWENET---W	001	0	001														
10XDE-EON-METZ-C																	
10XDE-ENBW--TNGX	001	001	✓	001	3e / 3i		0e / 1i	3e / 2iF									
10XDE-VE-TRANSMK																	
11X-TRADER-2---R																	

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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	<p>Used to set the current viewing period (namely the focus days).</p> <p>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.</p> <p>By setting the focus days, the system determines the days which are to be displayed in the timetable summary.</p> <p>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.</p> <p>The viewing period is set via a separate dialog which is launched from within the toolbar</p> 	Input fields for the configuration of the timetable summary

Data fields		
Identifier	Comments	Characteristics
Import XML file count XLS file count 	<p>This shows how many files are ready for import. The system differentiates between XML (ESS) and XLS (KISS) 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>	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 ComC/T.

Functions		
Identifier	Comments	Characteristics
Start import (Toolbar or  Button) 	<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>	-

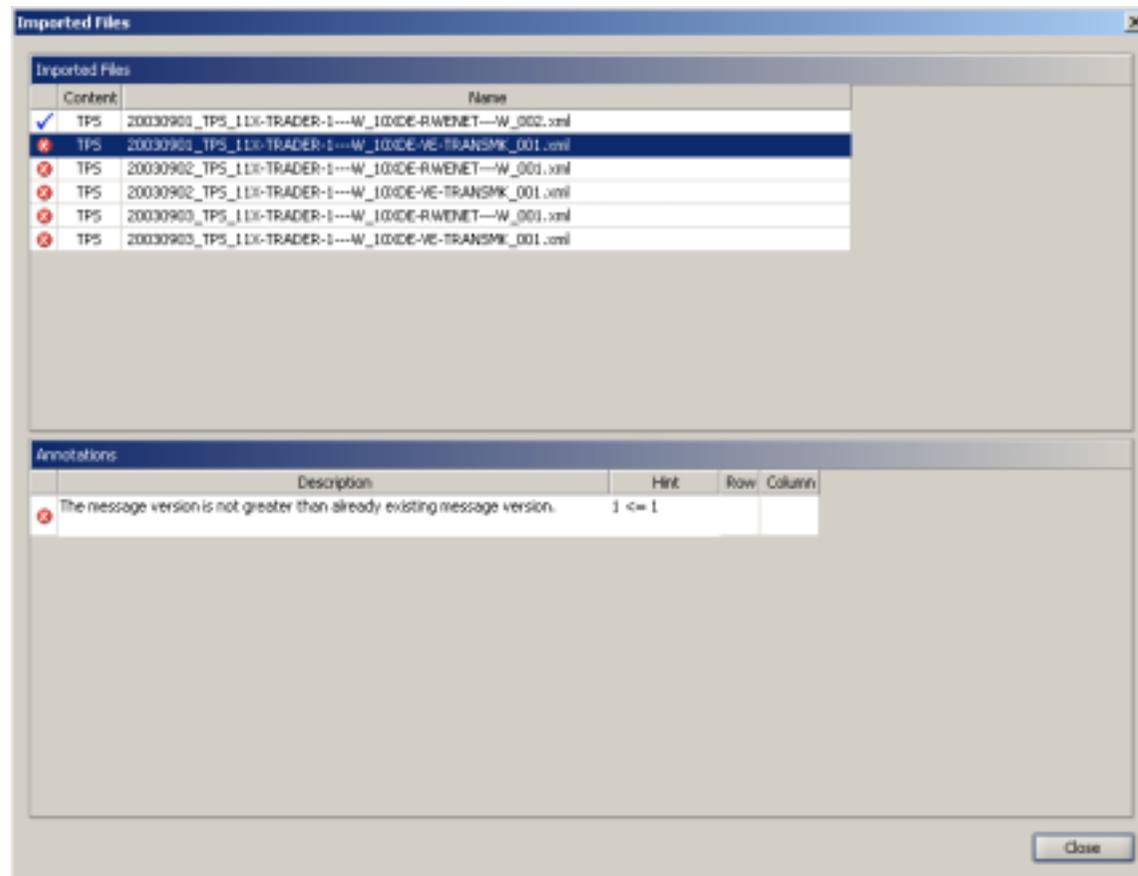
2.3.1.1 Display of import results

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	Displays the import result in form of a symbol:  OK, the file has been imported error-free, without any errors and without alerts.  OK, the file has been imported with alerts (i.e. not balanced) but without errors.  not OK, the file has been imported with errors, the file can not be sent.  not OK, the file has not been imported as a result of serious errors.	Display field
Content	Displays the identified data type: TPS Timetable Registration ACK Acknowledgement Report ANO Anomaly Report CNF Confirmation Report	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	Displays the error type as shown in the file status field:  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			
Party	Area	First use	Last use
[-] 11X-TRADER-1---W			
[-] 11X-TRADER-2---R	10YDE-RW...	15.09.2003	15.09.2003
[-] 11X-TRADER-3---M	10YDE-RW...		

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	Donnerstag, 18. September 2003								Freitag, 19. September 2003							
	Import	Dispatch		System Operator					Import	Dispatch		System Operator				
		Version	ACK	Version	TS	ANO	Missing CNF	CNF		Version	ACK	Version	TS	ANO	Missing CNF	CNF
[-] 11X-TRADER-1---W																
[-] 10XDE-RWENET---W																
[-] 10XDE-EON-NETZ-C																
[-] 10XDE-ENBW--TNGX	001	001	✓	001	3e / 3i			3e / 3i								
[-] 10XDE-VE-TRANSMK																
[-] 11X-TRADER-2---R																
[-] 10XDE-RWENET---W																
[-] 10XDE-EON-NETZ-C	001	✘	001													
[-] 10XDE-ENBW--TNGX	001	✘	001													
[-] 10XDE-VE-TRANSMK																

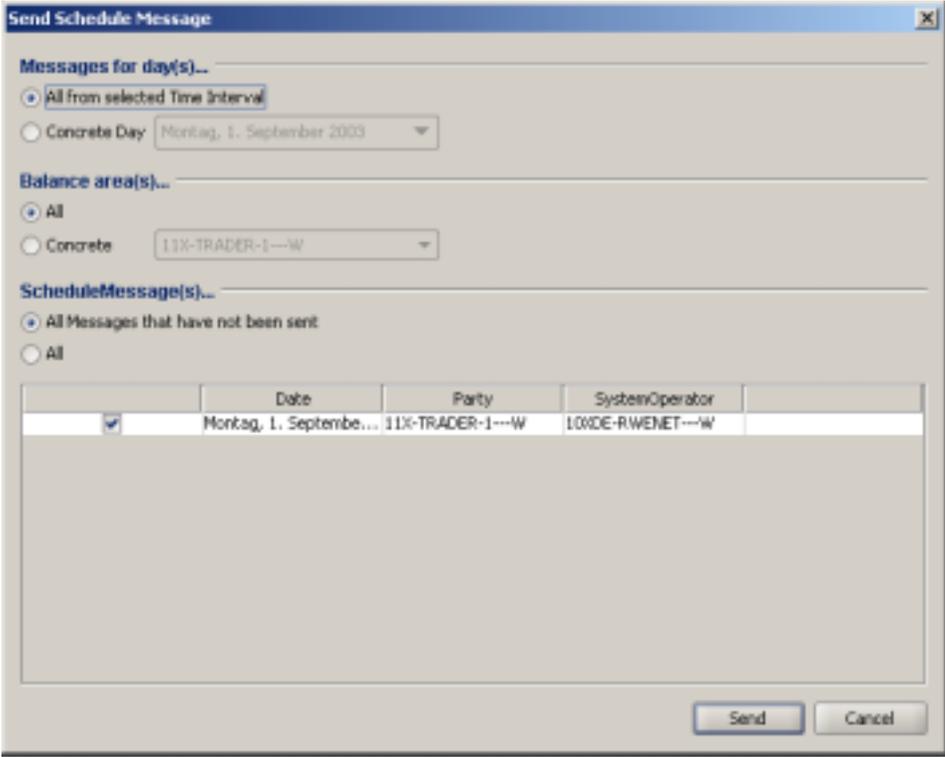
Please find below additional comments on the individual status information:

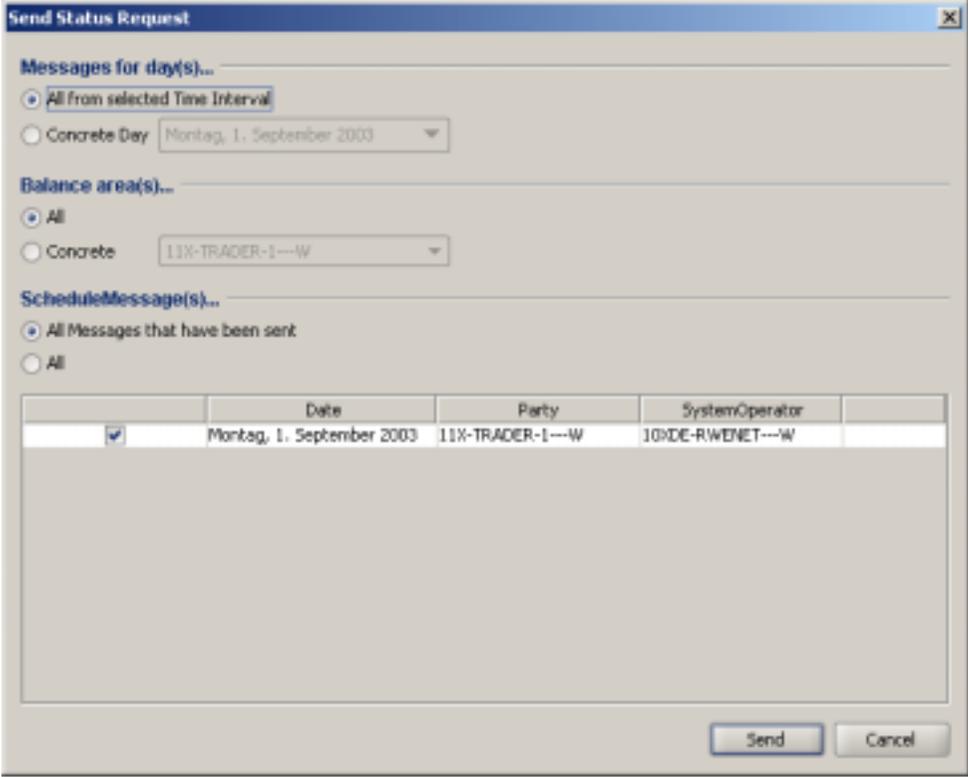
Data fields for the Total Summary		
Identifier	Comment	Characteristics
Party (TP, TSO)	<p>Shows the internal balance areas together with the respective related TSOs (control zones) in a tree structure.</p> <p>The relevant allocations as to which TSO is to be displayed in each case are made during the 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>	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
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	Displays the last version to be positively accepted by the TSO. This version is therefore the version currently available to the TSO.	Display field <ul style="list-style-type: none"> • Continuation func. Double click for

Data fields for the Total Summary		
Identifier	Comment	Characteristics
	Registration versions that have been rejected by the TSO (ACK with 'fully rejected') are therefore not taken into account in this field.	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
TSO - (final) CNF	Shows if a confirmation has already been received. The display differentiates between the following: <ul style="list-style-type: none"> o OK Green display, the timetable registration has been confirmed as registered. o 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>	Display field <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
Individual display	Individual displays are shown by double clicking on the following fields: <p>Import Dispatch Version TSO Version</p>	-

Functions		
Identifier	Comments	Characteristics
	TSO ANO TSO missing CNF TSO (final) CNF	
Symbol  or Menu Send – Schedule Messages	<p>Use this menu item to start a dialog to send the timetable files.</p>  <p>Use the settings 'Messages for day(s)', 'Balance area(s)' and 'Schedule Message(s)' to display the related timetables in the lower list.</p> <p>The default setting displays all timetables for the current viewing period that have as yet not been sent.</p> <p>You can also use this setting to re-send files which have already been sent.</p>	-

Functions		
Identifier	Comments	Characteristics
<p>Menu: Send – Status Requests</p>	<p>Use this menu item to start a dialog to send a status request.</p>  <p>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.</p> <p>This setting displays an entry in respect of all timetables dispatched in the viewing period. The default setting lists an entry for all timetables dispatched in the viewing period.</p>	<p>-</p>

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, Period).

The screenshot shows a window titled "Schedule Message" with the following details:

- Content: TPS Trade-responsible party schedule
- Sender: 11X-TRADER-1---W
- Version/ID: 001 20030902_11X-TRADER-1---W_01
- Receiver: 10YDE-RWENET---W
- Time interval: Dienstag, 2. September 2003
- Date and time: 21.08.2003 11:27:50

Below the details is a "Schedule Time Series" section with a table:

Date	02.09.03
Out Area	10YDE-RWENET---I
In Area	10YDE-RWENET---I
Out Party	11X-TRADER-1---W
In Party	11X-TRADER-2---R
Version	001
Identification	rrs11XRWE-NHEEG---Q

Below the table is a detailed timetable table:

Pos.	From	To	MAW
1	00:00	00:15	8,851
2	00:15	00:30	8,851
3	00:30	00:45	8,851
4	00:45	01:00	8,851
5	01:00	01:15	8,851
6	01:15	01:30	8,851
7	01:30	01:45	8,851
8	01:45	02:00	8,851
9	02:00	02:15	8,851
10	02:15	02:30	8,851
11	02:30	02:45	8,851
12	02:45	03:00	8,851
13	03:00	03:15	8,851
14	03:15	03:30	8,851
15	03:30	03:45	8,851
Sum (MWh)			212,424

At the bottom of the window are "Extern" and "Intern" buttons, and a "Close" button.

switch for compact or full view

switch for compact or full view

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.

The screenshot shows a 'Schedule Message' dialog box with the following details:

- Version/ID:** 001 20030902_11X-TRADER-1---W_01
- Date and time:** 2003-08-21T09:27:50Z
- Time interval:** 2003-09-01T22:00Z/2003-09-02T22:00Z
- Message type:** A01 Balance responsible schedule
- Process type:** A01 Day ahead
- Classification type:** A01 Exchange type
- Sender Identification:** 11X-TRADER-1---W
- Receiver Identification:** 10YDE-RWENET---W
- Sender Role:** A01 Balance responsible party
- Receiver Role:** A01 System operator

The 'Schedule Time Series' table is as follows:

Time Interval		2003-09-01T22:00Z/2003-09-02T...	2003-09-01T22:00Z/2003-09-02T...	
Out Area		10YDE-ENBW---N	10YDE-RWENET---I	
In Area		10YDE-RWENET---I	10YDE-RWENET---I	
Out Party		11X-TRADER-1---W	11X-TRADER-1---W	
In Party		11X-TRADER-1---W	11X-TRADER-2---R	
Version		001	001	
Identification		10YDE-ENBW---N---N---N	ms11XRWE-N-EEG---Q	
Business Type		A05	A02	
Product		8716867000016	8716867000016	
Object Aggregation		A01	A01	
Meteringpoint Identification				
Capacity Contract Type				
Capacity Agreement Identification				
Resolution		PT15M	PT15M	
Pos.	From	To	MAW	MAW
1	00:00	00:15	8,851	8,851
2	00:15	00:30	8,851	8,851
3	00:30	00:45	8,851	8,851
4	00:45	01:00	8,851	8,851
5	01:00	01:15	8,851	8,851
6	01:15	01:30	8,851	8,851
7	01:30	01:45	8,851	8,851
8	01:45	02:00	8,851	8,851
9	02:00	02:15	8,851	8,851
Sum (MWh)			212,424	212,424

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:

Internal timetable
(if available)

Difference timetable
(always)

Counter/ comparative report
(if available)

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.

Parties		Time Series Anomalies										
Party	Area	Date	08.10.03	08.10.03	08.10.03							
11X-TRADER-3---M	10YDE-ENBW----N	Out Area	10YDE-ENBW----N		10YDE-ENBW----N							
11X-TRADER-4---H	10YDE-ENBW----N	In Area	10YDE-ENBW----N		10YDE-ENBW----N							
11X-TRADER-5---C	10YDE-ENBW----N	Out Party	11X-TRADER-1---W		11X-TRADER-1---W							
11X-TRADER-6---7	10YDE-ENBW----N	In Party	11X-TRADER-5---C		11X-TRADER-5---C							
11X-TRADER-7---2	10YDE-ENBW----N	Version	001		001							
11X-TRADER-1---W	10YDE-RWENET---I	Identification	nr11X-TRADER-5---C		nr11X-TRADER-1---Ws							
11X-TRADER-1---W	10YDE-VE-----2	Responsible Party	11X-TRADER-1---W		11X-TRADER-5---C							
Reasons		Pos.	From	To	MAW	Difference	MAW					
A44	Quantity decreased	79	19:30	19:45	16,569	0,000	16,569					
A09	Time series not matching	80	19:45	20:00	35,562	0,000	35,562					
A09	Time series not matching	81	20:00	20:15	0,352	-57,745	58,097					
A20	Time series fully rejected	82	20:15	20:30	3,772	-16,885	20,667					
		83	20:30	20:45	23,284	-41,838	68,122					
		84	20:45	21:00	24,057	11,834	13,023					
		85	21:00	21:15	47,295	35,564	10,631					
		86	21:15	21:30	0,105	-0,957	1,062					
		87	21:30	21:45	4,085	-1,670	5,755					
		88	21:45	22:00	63,297	95,867	8,230					
		89	22:00	22:15	7,508	-6,289	1,299					
		90	22:15	22:30	11,390	0,891	11,299					
		91	22:30	22:45	34,583	0,000	34,583					
		92	22:45	23:00	42,339	0,000	42,339					
		Sum (MWh)			552,750	-34,999	587,750					

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.

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.

The screenshot shows a 'Confirmation Report' window with the following details:

- Message ID: 20030601_10XDE-RWENET---W_CNF_12
- Message type: A07 Intermediate confirmation report
- Date and time: 2003-09-17T09:20:27Z
- Time interval: 2003-09-17T22:00Z/2003-09-18T22:00Z
- Confirmed ID/Version: 1 11X-TRADER-1---10XDE-ENBW--TNG30917
- Sender: Identification 10XDE-ENBW--TNGX, Role A04 System operator
- Receiver: Identification 11X-TRADER-1---W, Role A01 Balance responsible party

The 'Time Series' table below shows data for three consecutive dates (18.09.03):

			18.09.03	18.09.03	18.09.03
Out Area			10YDE-ENBW----N	10YDE-ENBW----N	10YDE-ENBW----N
In Area			10YDE-ENBW----N	10YDE-ENBW----N	10YDE-ENBW----N
Out Party			11X-TRADER-4---H	11X-TRADER-1---W	11X-TRADER-3---M
In Party			11X-TRADER-1---W		11X-TRADER-1---W
Version			001	001	001
Identification			r11X-TRADER-4---Hs	rs	r11X-TRADER-3---Ms
Responsible Party			11X-TRADER-1---W	11X-TRADER-1---W	11X-TRADER-1---W
Pos.	From	To	MAW	MAW	MAW
1	00:00	00:15	7,074	120,912	114,820
2	00:15	00:30	7,074	120,981	114,820
3	00:30	00:45	7,074	121,025	114,820
4	00:45	01:00	7,074	121,076	114,820
5	01:00	01:15	7,074	119,100	112,821
6	01:15	01:30	7,074	119,130	112,821
7	01:30	01:45	7,074	119,138	112,821
8	01:45	02:00	7,074	119,155	112,821
9	02:00	02:15	7,074	109,012	102,678
10	02:15	02:30	7,074	109,021	102,678
Sum (MWh)			169,776	2658,981	2530,328

At the bottom, there are radio buttons for 'Confirmed' and 'Imposed', and a 'Close' button.

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 [1.3. Inbetriebnahme](#)) 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.

Directories

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

SMTP Server (mail server)

Used to define access to the SMTP mail server.

System Operators

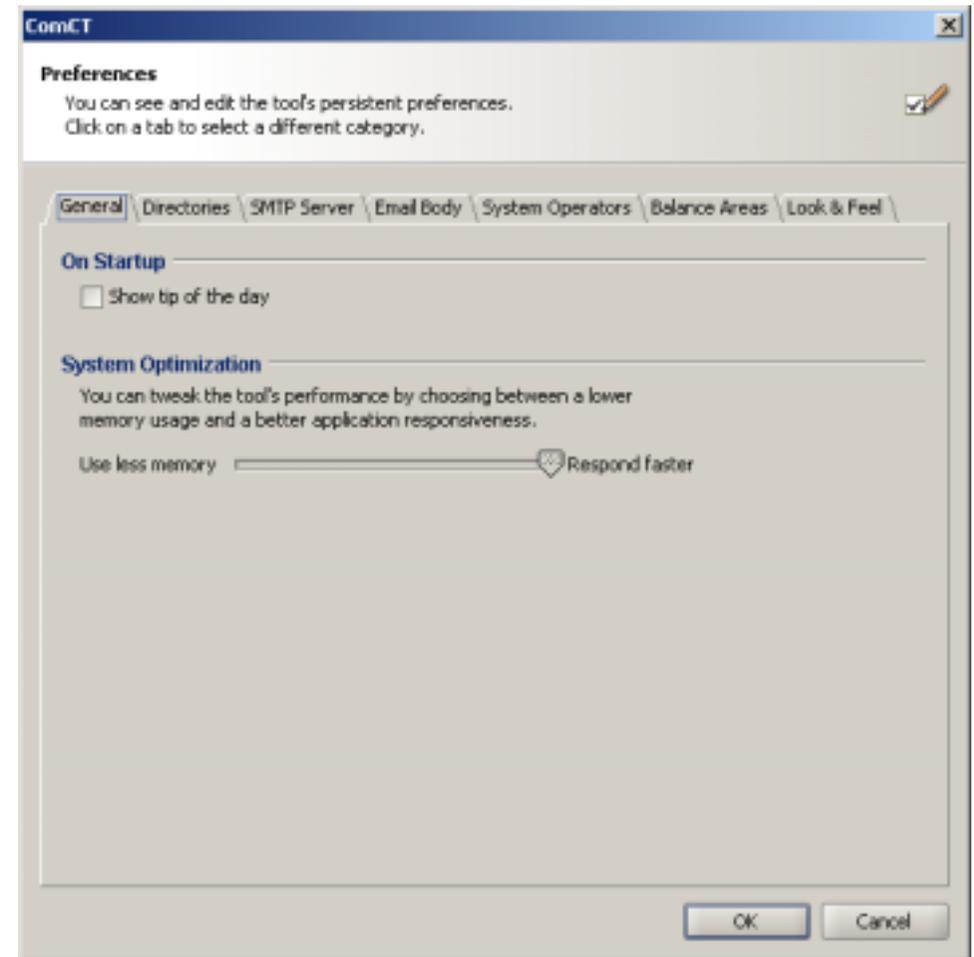
Used to store the TSOs together with the communication settings (email, FTP, file system).

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.

Look & Feel

Used to define the layout and colour spec of the user interface. This does not relate to the display of status information (colours).



4.1 Transmission line network operators /Control zones (ÜNBs)

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)
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 and secondary email address for the TSO.	optional
FTP ...	Used to store the information for FTP access (server, port, user name, 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.	-
Properties	<p>Use this function to edit the properties of the TSO.</p>	

4.2 (internal) Balance areas

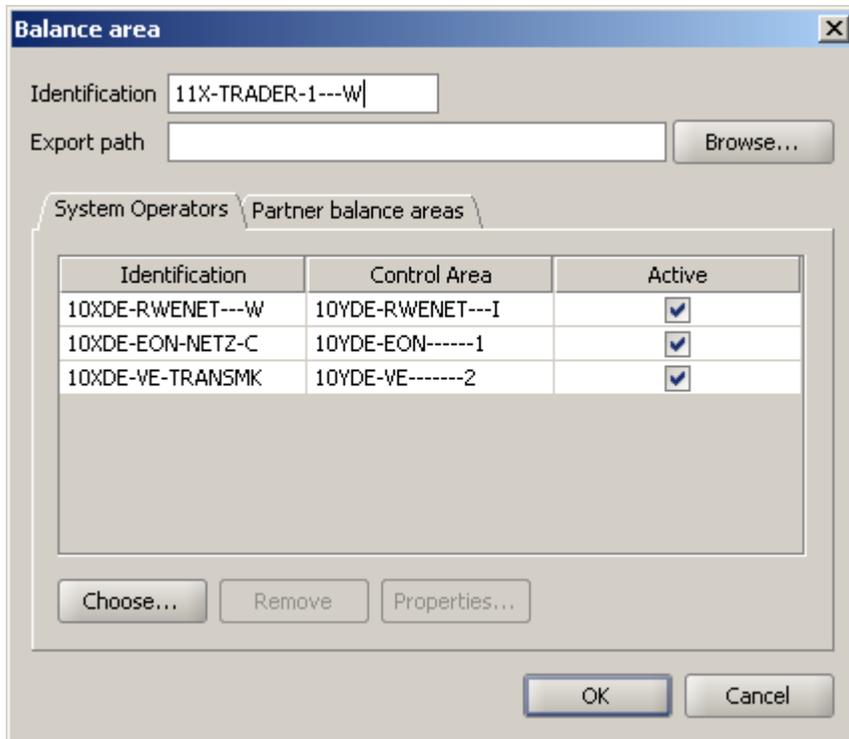
'Internal' balance areas are managed via the menu item *File* → *Preferences* and the Register Balance Areas respectively. The following information needs to be defined:

Data fields		
Identifier	Comments	Characteristics
Identification	Used to specify the EIC of the internal balance area subject to timetables. The data must relate to a valid EIC (16 characters including error detection character).	Display field
Export path	Used to optionally set 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.	Mandatory field

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.	-

4.2.1 Related TSOs (System operators)

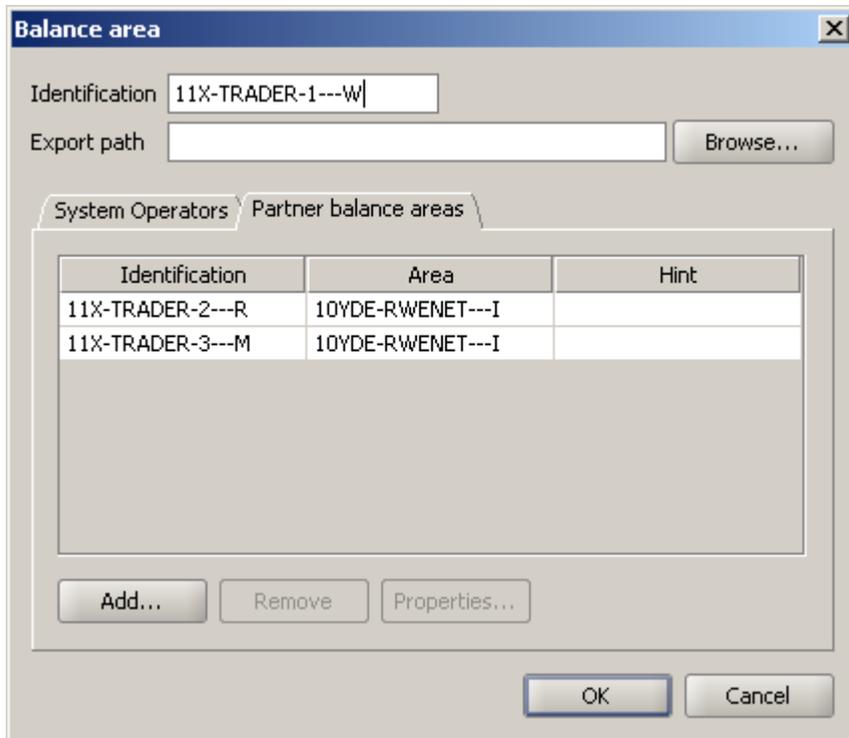
The TSOs with whom the balance area registers its timetables are stored within the properties of the balance area.



TSO's entered here are shown in the main summary for the related (internal) balance area.

4.2.1 Partner balance areas

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



Basically, timetables are only imported error-free if the relevant other balance area specified has also been entered/ stored as a partner balance area. If the system identifies a new balance area during the timetable import, this balance area is automatically accepted as a new partner balance area after a dialog confirmation.

5. 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 (text missing???) in 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
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

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
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
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

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
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
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

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
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
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
P32	32	E, K	T	Energy generation forecast - Individual timetable: The entry under 'InArea' does not correspond to the control zone of the receiving party. (Expected entry: In Area = Out Area = CA of the receiving party)	A23	ACK
P33	33	E, K	T	Energy generation forecast - Individual timetable: The entry under 'OutArea' does not correspond to the control zone of the receiving party. (Expected entry: In Area = Out Area = CA of the receiving party)	A23	ACK

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
P34	34	E, K	T	Energy generation forecast - Individual timetables: The entry under 'InParty' does not correspond to the sender. (Expected entry: In Party = sender)	A22	ACK
P35	35	E, K	T	Energy generation forecast - Individual timetables: The entry under 'OutParty' has not been left blank and does not correspond to the standard value.	A22	ACK
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
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

Internal test number	DMR test number	Relev. ESS, KISS	Relev. Message, TimeSeries, Interval	Error description	Related reason code	Internal process
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
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
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