zenon manual
Remote Transport
v.7.11
Contents

1. Welcome to COPA-DATA help ........................................................................................................ 4
2. Remote Transport ......................................................................................................................... 4
3. Toolbar Remote Transport ........................................................................................................... 7
4. Context menu Remote Transport ................................................................................................ 9
5. Engineering in the Editor ............................................................................................................... 11
   5.1 TCP/IP ................................................................................................................................. 18
   5.1.1 Automatic setting in network projects ............................................................................. 19
   5.2 Serial ..................................................................................................................................... 19
   5.3 Define files ............................................................................................................................. 21
   5.4 Runtime changeable data ....................................................................................................... 26
   5.5 Windows CE ......................................................................................................................... 28
6. Establishing a connection ............................................................................................................. 30
   6.1 Change connection password ............................................................................................... 32
   6.2 Configure the encryption of the network connection ............................................................ 33
7. Status processing .......................................................................................................................... 34
1. Welcome to COPA-DATA help

GENERAL HELP

If you cannot find any information you require in this help chapter or can think of anything that you would like added, please send an email to documentation@copadata.com (mailto:documentation@copadata.com).

PROJECT SUPPORT

You can receive support for any real project you may have from our Support Team, who you can contact via email at support@copadata.com (mailto:support@copadata.com).

LICENSES AND MODULES

If you find that you need other modules or licenses, our staff will be happy to help you. Email sales@copadata.com (mailto:sales@copadata.com).

2. Remote Transport

The Remote Transport is used to transport Runtime files to a target system. Information about saving and reloading Editor files can be found in the chapter project backups.

If the Runtime and the Editor are on the same PC, the Runtime files now are directly available to the Runtime. If the Runtime is not on the same PC, there are two possibilities:

1. The according directory with the Runtime files is connected as a network drive.
2. The Runtime files are copied to the target system.

At connecting as network device the working of the Runtime depends on the performance of the network. If the files are available directly on the Runtime computer, it is better to assure execution and performance.

The transfer of the Runtime files to the Runtime computer can be carried out with the help of the Windows Explorer. You can do this easier, more systematic and safer with the zenon Remote Transport. The Remote Transport makes sure that always all necessary files are transported to the target system.

---

**Attention**

*PNG* graphics files cannot be overwritten if they are currently being displayed in Runtime.

**Background:** The Runtime protects opened *.png* files against overwriting.

**Solution:** Before Remote Transport is initiated, it must be ensured that screens with the *.png* file are not being displayed in Runtime and that the file is also not being used by another program. This also applies for the reloading of amended Runtime files. The Runtime sync in the network does not work for a *.png* screen if this is switched on a zenon computer that is involved in the process (standby server, client).

Also any other files can be transported with the Remote Transport.

---

**License information**

*Part of the standard license of the Editor and Runtime.*

---

**FUNCTIONALITIES**

Additional to that pure copy function the Remote Transport offers other functionalities:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incremental copy</td>
<td>The Editor automatically recognizes which files on the target system differs from the files which should be transferred and transfers only the changed files.</td>
</tr>
<tr>
<td>Setting the start project</td>
<td>With the Remote Transport the start project on the remote station can be set.</td>
</tr>
<tr>
<td>Starting and stopping the Runtime</td>
<td>The Runtime can be started and closed in the remote computer.</td>
</tr>
<tr>
<td>Transfer the system status</td>
<td>The current status of the remote PC (operating system, zenon version, existing drives etc.) can be found out.</td>
</tr>
<tr>
<td>PC reboot</td>
<td>A remote PC can be rebooted.</td>
</tr>
<tr>
<td>Online reload</td>
<td>Remote Runtime is updated online in the process</td>
</tr>
<tr>
<td>Start Remote desktop connection</td>
<td>Creates a Remote desktop connection</td>
</tr>
<tr>
<td>Copy back project data</td>
<td>An entire project can be copied back from the remote system.</td>
</tr>
<tr>
<td>Copy and register data</td>
<td>Files are not only copied, but also registered on the target system. Particularly interesting for fonts and ActiveX elements.</td>
</tr>
<tr>
<td>Copy and execute data</td>
<td>Executable files are copied and started.</td>
</tr>
</tbody>
</table>

⚠️  **Attention**

*Note the following when starting Runtime via Remote Transport:*

- The 32-bit `zensyssrv.exe` starts the 32-bit Runtime
- The 64-bit `zensyssrv.exe` starts the 64-bit Runtime
3. Toolbar Remote Transport

A development computer can set up remote connections to other stations. The Remote transport toolbar provides functions for the transfer and request of data.
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Remote Transport: Connection settings</strong></td>
<td>Opens the configuration dialog of the remote transport for setting the target system and the target folder.</td>
</tr>
<tr>
<td><strong>Remote Transport: Establishing a connection</strong></td>
<td>Establishes a Remote Transport connection (on page 30) to the remote system.</td>
</tr>
<tr>
<td><strong>Remote: Transport changed Runtime files</strong></td>
<td>Transfers all Runtime files that were changed on the development computer to the target computer since the last change.</td>
</tr>
<tr>
<td><strong>Remote: Restore all Runtime files</strong></td>
<td>Restores all files that can be edited in Runtime (such as recipes or user administration) from the remote system back to the local Runtime folder.</td>
</tr>
<tr>
<td><strong>Remote: Setting the start project</strong></td>
<td>Sets the active project as the start project on the remote system.</td>
</tr>
<tr>
<td><strong>Remote: Start Runtime</strong></td>
<td>Starts Runtime on the remote system.</td>
</tr>
<tr>
<td><strong>Remote: Stop Runtime</strong></td>
<td>Stops Runtime on the remote system.</td>
</tr>
<tr>
<td><strong>Remote: Reload project</strong></td>
<td>Executes the reload function on the remote system.</td>
</tr>
<tr>
<td><strong>Remote Desktop: Start connection</strong></td>
<td>Starts a connection to operate the target computer using Remote Desktop. This allows visual operation.</td>
</tr>
</tbody>
</table>
| **Options for symbol bar** | Clicking on the arrow opens the submenu:  
**Active:** Tool bar is displayed  
If the toolbar is not displayed, it can be activated using the Menu Options -> Toolbar.  
**Note:** For free placed toolbar (undocked from the Editor) options are not displayed. The toolbar can be closed by clicking on button X. |
| **Further symbols can be added using the toolbar options:** |  |
| **Transport all Runtime files** | Transfers all Runtime files to the target system. |
| **Restart the operating system** | Starts the operating system of the target computer after confirmation. Under Windows CE this option is not supported. |
Determine system status

Determines system status of the target computer and writes data to the output window. The following are determined:

- Computer name
- Operating system
- Runtime active/not active
- Start project
- Real memory
- Drives
- Remote serial number
- Remote activation number
- Remote zenon version

Change password and display licensing

Opens dialog for connection establishing (on page 30).

Enables:

- Changing the password for the connection establishment
- Display and change of the licensing of the target computer
- Configuration of the encryption at the target computer

**Note:** All commands for Remote Transport are available in the project's context menu (on page 9).

### 4. Context menu Remote Transport

You can reach the commands for the Remote Transport via the tool bar or the context menu of the project:

1. Right-click the project in the project manager
2. in the context menu select node Remote Transport
3. select the desired command from the drop-down list
<table>
<thead>
<tr>
<th>Command</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establishing a connection</td>
<td>Sets up a connection (on page 30) with the target computer.</td>
</tr>
<tr>
<td>Connection settings</td>
<td>Opens dialog to configure the connection (on page 30).</td>
</tr>
<tr>
<td>Transport changed Runtime files</td>
<td>Transports all Runtime files that were changed on the development computer to the target computer.</td>
</tr>
<tr>
<td>Transport all Runtime files</td>
<td>Transports all Runtime files from the development computer to the target computer.</td>
</tr>
<tr>
<td>Restore all Runtime files</td>
<td>Loads all files that can be edited in the Runtime (like recipes or user administration) to the development computer.</td>
</tr>
<tr>
<td>Define project as start project</td>
<td>Set start project for target station.</td>
</tr>
<tr>
<td>Start Runtime</td>
<td>Starts the Runtime on the target station.</td>
</tr>
<tr>
<td>Stopping the Runtime</td>
<td>Stops the Runtime on the target station.</td>
</tr>
<tr>
<td>Reload project</td>
<td>Executes the function <code>reload</code> on the target computer.</td>
</tr>
<tr>
<td>Restart the operating system</td>
<td>Starts the operating system of the target computer after confirmation. Under Windows CE this option is not supported.</td>
</tr>
<tr>
<td>Determine system status</td>
<td>Determines system status of the target computer and writes data to the output window. The following are determined:</td>
</tr>
<tr>
<td>Change password and display licensing</td>
<td>Opens dialog for connection establishing (on page 30). Enables:</td>
</tr>
</tbody>
</table>
Changing the password for the connection establishment
Display and change of the licensing of the target computer
Configuration of the encryption at the target computer

Remote: Start desktop connection
Starts a connection to operate the target computer using Remote Desktop.

5. Engineering in the Editor

The Remote Transport is configured in the project properties under General/Remote transport and controlled via the tool bar Remote Transport (on page 7).

To configure the Remote Transport:

1. navigate to the General node in properties
2. Click on the Remote transport property
3. The dialog for the configuration of the connection properties and the files to be transferred is opened.

**Note:** the screenshot shows the configuration for the transport medium TCP/IP.

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport medium</td>
<td>Transfer via a serial connection, e.g. to a CE Terminal.</td>
</tr>
<tr>
<td>Serial (on page 19)</td>
<td>Port</td>
</tr>
</tbody>
</table>
### Parameters

**TCP/IP (on page 18)**

- **Computer name or IP address**
  
  The computer name or the TCP/IP address is entered as target:
  - Enter the computer name manually or via clicking button...
  - Enter the IP address manually

  The IP address must have conform the defined IP version (IPv4 or IPv6).

**Note**: At the connection with name you can also use port numbers.

For example: `Runtime1;PORT=1105`
### Parameters

<table>
<thead>
<tr>
<th>Source/Target</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Folder for files which should be transferred.</td>
</tr>
<tr>
<td>Objective</td>
<td>Target folder.</td>
</tr>
</tbody>
</table>

**Source/Target List of connections.**

In the first line you can define a target for the top most folder of the structure. Right click in the cell in order to open the context menu for selection.

**Attention:** This path must be permanently available on the target system. This means no integrated network device and no removable data device.

**active** Defines files which should be transferred optionally.

Project base path cannot be deselected.

**Source** Folder for files which should be transferred.

**Objective** Target folder.

Target for the top most folder and new entry can be defined.

Sub-folders cannot be changed. This makes sure that all files are found on the target system in the Runtime.

**Note:** The default folder is the Runtime folder defined in the project properties. If the target folder is entered manually, take care that it ends with the project name. This is important for the multi-user administration. For example:

```
C:\Users\Public\Documents\zenon_Projects\MY_PROJECT
```

### Editing

Type of transfer. Can be defined freely for the top most folder and new entries. Right click to open the drop-down list:

- **Copy:** Copy files
- **Copy and register:** copies files and registerd them in the system. Helpful for ActiveX elements and for fonts (ttf files).
- **Copy and execute:** copies files and then executes them

### Description

Optional text input for new entries for describing the files which should be transferred.

---

**Attention**

*For redundant projects: If drivers are used which need a configuration file, you must deactivate entry \zenon\custom\drivers*.
REMOTE CONTROL IN THE NETWORK

In the context menu select projects -> Remote Transport -> <Command>:
<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Establishing a connection</td>
<td>With the service zenSysSvr a connection to the target device is established. On both devices the service zenSysSvr.exe or on the CE device the service SysSrvCE.exe has to be started. The versions have to be identical.</td>
</tr>
<tr>
<td>Transport changed Runtime files</td>
<td>If this setting is selected, the Runtime changed since the last transport are transported. If no Runtime files exist on the target device, all Runtime files are transported.</td>
</tr>
<tr>
<td>Transport all Runtime files</td>
<td>If this entry is activated, all Runtime files are transported. The only exception are files like e.g. standard recipes or Message Control, which are defined in the setting: 'RT changeable data'.</td>
</tr>
<tr>
<td>Read all Runtime files</td>
<td>If this setting is selected, all Runtime files of the modules Recipes, Recipegroup Manager, Message Control, User administration and Production &amp; Facility Scheduler (PFS) are transported from the target system to the local Runtime directory. Then the changes in the Runtime can be read to the Editor with the option 'Import Runtime files'.</td>
</tr>
<tr>
<td>Define project as start project</td>
<td>The selected project is defined as the start project. This project is loaded on each Runtime start.</td>
</tr>
<tr>
<td>Start Runtime</td>
<td>Starts the Runtime.</td>
</tr>
<tr>
<td>Stopping the Runtime</td>
<td>The Runtime is closed.</td>
</tr>
<tr>
<td>Reload project</td>
<td>The project is reloaded. Changes Runtime files are read.</td>
</tr>
<tr>
<td>Restart the operating system</td>
<td>The device with which the connection exists is restarted after a confirmation message. If necessary, it must be logged on to the operating system again. Under Windows CE this option is not supported.</td>
</tr>
</tbody>
</table>
| Get system status           | It is checked, if the Runtime is running on the target system and with which status. Also the installed zenon version is checked. The following are determined:  
  - Computer name  
  - Operating system  
  - Runtime active/not active  
  - Start project  
  - Real memory  
  - Drives |
<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change password and display licensing</td>
<td>Opens dialog for connection establishing (on page 30).</td>
</tr>
<tr>
<td></td>
<td>Enables:</td>
</tr>
<tr>
<td></td>
<td>▶ Changing of the password</td>
</tr>
<tr>
<td></td>
<td>▶ Display and change of the licensing</td>
</tr>
<tr>
<td></td>
<td>▶ Configuration of the encryption</td>
</tr>
<tr>
<td>Start remote desktop connection</td>
<td>Starts a connection to operate the target computer using Remote Desktop.</td>
</tr>
</tbody>
</table>

- Remote serial number
- Remote activation number
- Remote zenon version
5.1 TCP/IP

In the Remote Transport configuration the name of the target system or the IP address is entered. The IP address must conform to the defined IP version, i.e. IPv4 compliant when using IPv4 and IPv6 when using IPv6.

When using the name, the names used recently are saved and can be selected via the drop-down list. Using port number is only possible together with names.

⚠️ **Attention**

*As a default the Remote Transport always uses the TCP port 1101. This port must not be blocked by other applications.*
5.1.1 Automatic setting in network projects

If the project to be transferred is configured as a network project, no other settings need to be made in the Computer name or IP address input field in the Remote Transport connection setting. In this case, Remote Transport always uses the computer entered in the network configuration as Server 1 in the properties field. It is therefore guaranteed that the changes are always transferred to the server, which then automatically transfers them to all clients!

If the checkbox Upload to Server 1 and Server 2 has been activated, not only the computer to which there is a connection is updated. The servers that have been entered are also updated.

The requirements for this are:

- Checkbox active
- network active
- Server 1 entered

Server 2 is only entered if a computer name has been entered for Server 1.

If the connected computer is one of the servers (regardless of whether it is connected via name or IP) no additional download is carried out on this computer any more. This additional upload would be redundant in this case, because the update has already taken place via Remote Transport.

Information

You can find further information on the zenon network in the Network chapter.

5.2 Serial

As default the communication in the Remote Transport is carried out via TCP/IP. You can however change it to serial communication. So you can connect for example to Windows CE devices. For this:

- change the communication type of the transport service at the remote device via zenon6.ini
- configure the Remote Transport in the Editor
If the `zeno6.ini` is edited, the changes become effective after a restart of the transport service.

**ZENON6.INI ENTRIES**

If the transport service should be used for serial transport, the following entries have to be made in the `zenon6.ini` on the target system by hand: **Note**: Under Windows CE these entries are automatically generated in the `zenon6.ini` with the help of the user interface of the transport service.

```plaintext
[SYS_REMOTE]

; SysService attached to the COM interface:

CONFIG=DEVICE=COM;

PORT=COM2;
```

**Attention**

*Do not forget the ; (semi-colon) at the end.*

With this setting the Remote Transport works with the baudrate 115200 bits/second. As a default the Editor is also set to this baudrate.
In the Editor select:

1. *Serial* as Transport medium

2. In the drop-down list the COM port of the source computer

### 5.3 Define files

You define which files are transferred in the configuration dialog via the check box in column *active*. The line with the project base path cannot be deactivated. The project files always are transported.
**Note:** Source paths are always created relative to the project base path.

![Project settings](image)

**Attention**

*Note the effects of settings if the project is used in the network.*

*For example:*

Transport of graphics is deactivated, because these are already on the server. Then a client is started. The client finds out that the graphics should not be transported and thus does not transport them to itself. No graphics are then displayed on the client.

*Or vice-versa, files are transferred to the client and the files there are overwritten.*

**FILES FOR TRANSFER**

With Remote Transport, all files required for the project are transferred to the target system.

In doing so, all files are always transferred to the folder:
**Standard**

All files that are in the project's Runtime folder (`\RT\FILES\zenon\system\`). These files determine the appearance and behavior of the project and are transferred as standard:

---

**Info**

*Files with the following suffixes are not transferred by default:*

- .hot
- .ho
- .ret
- .re

---

**Optional**

In addition, all files that are embedded into the project must be transferred. They are selected using the *Active* checkbox of the Remote Transport settings. These files are in the following subfolders of the project directory:

- `\zenon\custom\graphics:` for graphics
- `\zenon\custom\lists:` for language tables
- `\zenon\custom\media:` for all media files
- `\zenon\custom\reports:` for the reports of the Report Generator
- `\zenon\custom\help:` for help files
- `\zenon\custom\additional:` for additional files
- `\zenon\custom\additional:` for Report Viewer files
- `\zenon\custom\drivers:` for drivers
- `\straton:` for straton

**Recommendation:** Project basis path, graphics, language tables, report tables and media files are always transferred.

The following are transferred from the basis path by default: The files `project.ini`, `Projekt.vba`, `Monitor.mon` and the `Projekt` folder.
As a default, Zenon always uses relative paths and not absolute paths, so that the files can easily be found on the target system.

For the files that can be transferred optionally, the original paths should be used (empty field under target), so that Zenon can find them on the target system.

**GLOBAL PROJECT**

If there is a global project in the workspace, this is automatically transferred. No additional settings need to be made. Always all files necessary for the global project will be transported.

**SETTING THE START PROJECT**

For Runtime, the start project must always be entered in `zenon6.ini`. To do this, click on the Set remote Runtime start project in the Remote Transport toolbar (on page 7). In doing so, the following entries are set:

```
[PATH]
VBF30=project path

[DEFAULT]
DEFANWENDUNG30=project name
```

**SELECTING INDIVIDUAL FILES**

To transfer own individual files:

1. right click in the first empty cell in column Source
2. in the context menu select File selection or Folder selection
3. the explorer is opened for selection
4. select the desired file or the desired folder
5. activate the checkbox in column active
6. right click in the cell in column Target
7. define the target folder
   If the target remains empty the files are transferred in the same directory structure as defined under source.

   ![Project settings](image)

   **Attention**

   Specify paths relatively!

   *Enter the paths to your individual files relative to the project base path. With this the target system also has the correct directory structure.*

   **Example:**

   Specification at **Source**: enter `/default.iso`.

   *The Remote Transport now automatically knows that the file is in the project basis path. Directories are entered the same way.*

   **WINDOWS CE:**

   If the target system is a Windows CE terminal and no explicit destination is entered for the project basis path, the destination `/Storage Card/Data` is used as a default.

   **ACTION AT TRANSFER**

   In newly added lines the entry of the column Revision defines, how to proceed with the according files during Remote Transport. Three possibilities are available here:
<table>
<thead>
<tr>
<th>Action</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy</td>
<td>The file is copied to the remote system.</td>
</tr>
<tr>
<td>Copy&amp;register</td>
<td>The file is copied to the remote system and entered in the registry.</td>
</tr>
<tr>
<td></td>
<td><strong>Hint</strong>: Helpful for ActiveX elements and for fonts (ttf files).</td>
</tr>
<tr>
<td>Copy&amp;execute</td>
<td>The file is copied to the remote system and executed there.</td>
</tr>
</tbody>
</table>

5.4  **Runtime changeable data**

There are different data which can be changed in the zenon Editor as well as in the Runtime. These are files for:

- Recipegroup Manager
- Standard recipes
- User administration
- Scheduler

**PROTECT RUNTIME FILES FROM OVERWRITING**

If all Runtime files are created or transported, the files meanwhile changed in the Runtime would be overwritten. In order to avoid unwanted overwriting the files, that should not be created or transported, can be selected here in the section *Do not generate and transfer*.

**PROTECT EDITOR FILES FROM OVERWRITING**

Data changed in the Runtime can be read back. In this case the corresponding Editor data are overwritten. In order to avoid unwanted overwriting the files, that should not be read back, can be selected here in the section *Do not decompile*. 
DIALOG RT CHANGEABLE FILES

You can reach the dialog for configuring the Runtime changeable files via project settings General/RT changeable data:

![Screenshot of the dialog settings]

The following file types can be selected:

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recipegroup Manager</td>
<td>Recipe groups and recipes of the Recipegroup Manager. At the transfer new files are transferred and new sub-folders are created, deleted files and sub-folders are also deleted on the target system.</td>
</tr>
<tr>
<td>Standard recipes</td>
<td>Standard recipes.</td>
</tr>
<tr>
<td>User administration</td>
<td>User administration for login and rights administration in the Runtime.</td>
</tr>
<tr>
<td>Scheduler</td>
<td>Changes in the time models and schedules of the PFS.</td>
</tr>
</tbody>
</table>

⚠️ Attention

At the project conversion take care that Runtime changeable files are also converted. For this Runtime files must be imported to the Editor and after the Update copied back to the Runtime. For details see chapter Recommended procedure for converting Runtime files in manual project conversion.

TRANSFERRING THE FILES

IN THE RUNTIME

To transfer files to the Runtime:

1. all files can be transferred
2. only changed files can be transferred

Both possibilities consider the files defined in property RT changeable data.

FROM THE RUNTIME

To read files from the Runtime, there are two processes available:

1. Restore all Runtime files:
   a) reads back all Runtime files in the folder which was defined in property Runtime folder
   b) regardless of the settings of property RT changeable data

2. Import Runtime files:
   a) imports the files defined in property RT changeable data and
   b) replaces the engineering in the Editor by these Runtime files
   c) is suitable for taking over data from a remote system in the Editor

CONNECTION ERROR

During the transfer existing data are overwritten in accordance with the settings.

If errors occur at the transfer to or from the Runtime or if the connection is disrupted, the files must be completely transferred again.

5.5 Windows CE

Transfer to Windows CE systems can be effected via a TCP connection, a serial connection or via memory cards.

CONFIGURATION

SERIAL OR TCP/IP

1. Ensure that in the project properties the General property in node Windows CE project is activated.
2. Select the connection type
   - TCP/IP
   - Serial

3. The configuration dialog now contains nine entries; C:\Storage Card\Data is pre-set as a target directory.
   The C:\ \ is automatically removed by Remote Transport, because communication with CE systems is carried out without drive letters.

**MEMORY CARD**

The Remote Transport supports a special transport type, where the project is transported directly to a storage card instead of using a serial or TCP/IP connection. To do this a computer which can directly access a memory card (PCMCIA, ATA card, Compact Flash, etc.) is necessary.
Establishing a connection

Attention

It has to be guaranteed that the CE Runtime and the zenon6.ini are in the root of the card!

*Insert the card in the according slot and check which drive letter is assigned to the card by the operating system. (e.g.: D:, or E:, ...)*

1. **Activate check box** Use local card reading device
2. **Define the Runtime folder at the target device.**

**Example:** if the memory card is listed as \Storage Card under CE, the Runtime folder on the target system must be C:/Storage Card/project path! C:\ will then automatically be removed by the Remote Transport!

3. **Establish a connection to your own PC and transfer the files to the local memory card.**

4. **Write the Runtime folder at the target device with the help of function Set remote start project (Tool bar Remote Transport (on page 7)) in file zenon6.ini on the memory card.**

5. **Put the memory card in the CE terminal and start the Runtime.**

6. **Establishing a connection**

To establish a Remote connection:

1. **Click on the corresponding button in the Remote Transport toolbar (on page 7) or select, in the project’s context menu: Set up Remote Transport> connection**
2. the dialog for setting up the connection is opened
Establishing a connection

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Connection password</strong></td>
<td>Setting for the password for the remote connection.</td>
</tr>
<tr>
<td><strong>Password</strong></td>
<td>Enter the password for the connection establishment (optional).</td>
</tr>
<tr>
<td><strong>Change connection password (on page 32)</strong></td>
<td>Opens the dialog for changing the password.</td>
</tr>
<tr>
<td><strong>Configuration of the target system</strong></td>
<td>Settings for the target system.</td>
</tr>
<tr>
<td><strong>Configure serial number and activation number</strong></td>
<td><strong>Active</strong>: The licensing of the remote computer is displayed after establishing the connection and can be changed.</td>
</tr>
<tr>
<td><strong>Configure the encryption of the network communication (on page 33)</strong></td>
<td><strong>Active</strong>: After the connection has been established you can activate or deactivate the encryption of the network communication at the target system. <strong>Note</strong>: For this the connection of the Remote Transport must be protected by a password.</td>
</tr>
<tr>
<td><strong>Do not show this dialog again</strong></td>
<td><strong>Active</strong>: This dialog is not opened at the establishing of the connection. <strong>Note</strong>: To display the dialog again, in the context menu of the project select Remote Transport -&gt; Change password and display license</td>
</tr>
<tr>
<td><strong>OK</strong></td>
<td>Applies settings and establishes the connection.</td>
</tr>
<tr>
<td><strong>Cancel</strong></td>
<td>Discards changes and closes the dialog without establishing a connection.</td>
</tr>
<tr>
<td><strong>Help</strong></td>
<td>Opens online help.</td>
</tr>
</tbody>
</table>

### 6.1 Change connection password

To change the connection password:

1. in the context menu of the project select **Remote Transport -> Establish connections or Change password and display license**

2. in the dialog click button **Change connection password**
3. The dialog for changing the password is opened

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old password</td>
<td>Enter existing password.</td>
</tr>
<tr>
<td>New password</td>
<td>Enter new password.</td>
</tr>
<tr>
<td>Confirm password</td>
<td>Enter new password again and confirm it by doing so.</td>
</tr>
</tbody>
</table>

6.2 Configure the encryption of the network connection

The network communication can be protected by serious encryption. Encryption is either activated locally using the zenon Startup Tool, using a tool for the zenon Web Client or via Remote Transport in the Establish connection (on page 30) dialog:
### Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read in local configuration</td>
<td>Reads in the encryption parameter of the local computer.</td>
</tr>
<tr>
<td>Encrypt network communication</td>
<td>Active: The encryption of the network is activated at the remote computer. Default: Inactive</td>
</tr>
<tr>
<td>Password</td>
<td>Enter password. For the criteria, see the &quot;Network encryption password&quot; section in the Strong encryption of network communication chapter. The displayed length is always set at 20 characters, in order to hide the actual length.</td>
</tr>
<tr>
<td>Confirm password</td>
<td>Enter the password for verification again.</td>
</tr>
<tr>
<td>OK</td>
<td>Saves changes and closes dialog.</td>
</tr>
<tr>
<td>Cancel</td>
<td>Discards changes and closes the dialog.</td>
</tr>
<tr>
<td>Help</td>
<td>Opens online help</td>
</tr>
</tbody>
</table>

The password defined here is stored encrypted in the `zenon6.ini` of the remote computer.

**Information**

You can find notes on error messages from strong encryption in:

Network handbook -> Strong encryption of network communication chapter -> Error messages section.

---

### 7. Status processing

Several computers can be addressed at the same time with the help of status processing.

**Configuration of Remote Transport Status Processing:**

1. Create a file named `hosts.txt`.A-Z
2. Enter the IP address or the computer name of each computer on a separate line

   Example:
   HOST=192.168.0.24;
   HOST=192.168.0.15;

3. Place hosts.txt in the zenon\custom\additional folder.