L-force Controls

Software Manual

Industrial PC

Windows® CE Thin Client

Operating system
Please read these instructions before you start working!
Follow the enclosed safety instructions.
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1 About this documentation

1.1 Validity information

These instructions are valid for
► “Windows® CE Thin Client” software

1.2 Target group

This documentation is directed at qualified skilled personnel according to IEC 60364.
Qualified skilled personnel are persons who have the required qualifications to carry out all activities involved in installing, mounting, commissioning, and operating the product.

Tip!
Information and auxiliary devices around the Lenze products can be found in the download area at http://www.Lenze.com

1.3 Document history

<table>
<thead>
<tr>
<th>Material number</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID11999/13205</td>
<td>1.0</td>
<td>First edition</td>
</tr>
<tr>
<td>13167788</td>
<td>2.0</td>
<td>10/2006 TD29 Changed layout and change of company name</td>
</tr>
<tr>
<td>13386754</td>
<td>3.0</td>
<td>08/2011 TD29 General revision</td>
</tr>
</tbody>
</table>

1.4 Conventions used

<table>
<thead>
<tr>
<th>Type of information</th>
<th>Identification</th>
<th>Examples/notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spelling of numbers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decimal separator</td>
<td>Point</td>
<td>In general, the decimal point is used. For instance: 1234.56</td>
</tr>
<tr>
<td>Text</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program name</td>
<td>» «</td>
<td>PC software For example: »Engineer«, »Global Drive Control« (GDC)</td>
</tr>
<tr>
<td>Icons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Page reference</td>
<td></td>
<td>Reference to another page with additional information For instance: [16] = see page 16</td>
</tr>
</tbody>
</table>
2 Product description

2.1 About this software

The «Windows® CE Thin Client» software is an operating system specifically designed for the access to Microsoft terminal services, based on Windows® CE 6.0 and its RDP 6.0 protocol.

Its difference to other Windows systems is the minimised user interface providing a safe and simple application to the user.

All processes are executed on the server connected to the Thin Client. The computing power of the Thin Client can therefore be kept on an accordingly low level. Performance is only required with regard to the network connection and the graphics.

The «Terminal Connection Manager» via which all settings can be made serves as user interface of the software.

![Terminal Connection Manager](image)

**Fig. 2-1** User interface

**Note!**

Further information on the respective registers can be gathered from the chapter "Operation" (7).
Further functions

Command line: The software supports the entry of commands via the CE command line (19)/(20)

Network programs: In the software the IPConfig and Ping network programs are implemented. These programs can be used for the configuration of the network. They are called via the command line (see above).

Compact Flash memory card: The contents of the CF card in the Thin Client can be accessed via the command line (see above) or via the FTP server (23). The contents of the CF card appear as the "storage" folder.

Note!
The memory card also contains the CE image and the persistent registry within which all configuration data are saved ("REG" directory).

In order to reset the default setting of the Thin Client, the REG directory can be renamed via the command line during runtime. At the next restart a new registry is created.

2.2 Operating conditions

The use of the «Windows® CE Thin Client» software is permissible with Lenze Thin Clients of the following types:

- Command Station CS 5800 TC - CS 9800 TC
- Embedded Line EL 1800 TC - EL 9800 TC
3 Operation

3.1 Starting the «Terminal Connection Manager»

The operating system is located on the CF card of the Thin Client. When the Thin Client is started, the operating system is loaded. The user interface, the Terminal Connection Manager, appears.

![User interface](image)

Fig. 3-1 User interface

3.2 Terminal Connection Manager user interface (overview)

<table>
<thead>
<tr>
<th>Register of the «Terminal Connection Manager»</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level 1</strong></td>
</tr>
<tr>
<td>Connections</td>
</tr>
<tr>
<td>Configure</td>
</tr>
<tr>
<td>→[Add] WTS Connection Wizard</td>
</tr>
<tr>
<td>→[Edit] General</td>
</tr>
<tr>
<td>Display</td>
</tr>
<tr>
<td>Local Resources</td>
</tr>
<tr>
<td>Programs</td>
</tr>
<tr>
<td>Experience</td>
</tr>
<tr>
<td>Advanced</td>
</tr>
<tr>
<td>F-Keys</td>
</tr>
<tr>
<td>General</td>
</tr>
</tbody>
</table>
3.3 "Connections" register

In the "Connections" register you can establish a connection to a server, which was established previously in the "Configure" register.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection Name</td>
<td>List of the connections. The standard Microsoft connection &quot;Default Remote Desktop Connection&quot; is always available.</td>
</tr>
<tr>
<td>Type</td>
<td>Connection type; at present only &quot;RDP&quot; is possible here.</td>
</tr>
<tr>
<td>Status</td>
<td>Connection status</td>
</tr>
<tr>
<td>[Connect]</td>
<td>Activate connection selected in the list field.</td>
</tr>
<tr>
<td>[End]</td>
<td>Deactivate connection selected in the list field.</td>
</tr>
</tbody>
</table>
3.4 "Configure" register

In the "Configure" register you create or edit connections.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection Name</td>
<td>List of the connections configured. The standard Microsoft connection &quot;Default Remote Desktop Connection&quot; is always available.</td>
</tr>
<tr>
<td>Type</td>
<td>Connection type; at present only &quot;RDP&quot; is possible here.</td>
</tr>
</tbody>
</table>
| Startup | Starting performance  
Default: Standard connection  
Auto-start: The connection is configured for an automatic start. |
| [Add...] | Create new connection via the "WTS Connection Wizard" (10). |
| [Edit...] | Edit connection selected in the list field (12). |
| [Delete] | Delete connection selected in the list field after a confirmation prompt. |
| [Startup...] | Set starting performance. The following options can be set:  
**Make the selected connection your Default connection:** The connection selected is preselected in the "Connections" register.  
**Automatically start the selected connection at startup:** The connection selected is started automatically at the next start-up of the Thin Client.  
Please note that the server must be available in the network, i.e. it must be already started. The Thin Client does not wait until the server is booted up. For further information see 20 (LAN). |
3.4.1 Creating a new connection via the connection wizard

Call: "Configure" register → [Add...] button

The connection wizard guides you through the steps required for the creation of a new connection.
**Operation**

"Configure" register

Creating a new connection via the connection wizard

<table>
<thead>
<tr>
<th>Dialog name</th>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Connection</td>
<td>Select the type of connection to create</td>
<td>The Thin Client supports the &quot;Microsoft Remote Desktop Client&quot;. The &quot;New Connection&quot; window can thus be simply confirmed with [OK].</td>
</tr>
<tr>
<td></td>
<td>[OK]</td>
<td>Change to the next dialog of the connection wizard.</td>
</tr>
<tr>
<td>WTS Connection</td>
<td>Name</td>
<td>Enter name of the connection.</td>
</tr>
<tr>
<td>Wizard (Dialog 1)</td>
<td>Server</td>
<td>Enter network name or IP address of the server to which a connection is to be established.</td>
</tr>
<tr>
<td></td>
<td>[&lt; Back]/[Next &gt;]</td>
<td>Change to the previous/next dialog of the connection wizard.</td>
</tr>
<tr>
<td>WTS Connection</td>
<td>Desktop</td>
<td>If selected, the desktop configured on the server is displayed after logon on the server. A prerequisite for this is the access authorisation to the server.</td>
</tr>
<tr>
<td>Wizard (Dialog 2)</td>
<td>Application file name</td>
<td>If selected, after logon on the server an application is started. &quot;Application file name&quot; field: Application.exe &quot;Working directory&quot; field: Directory path of the exe file (e.g. c:\programs) Only this application is started; the user has neither access to the Windows taskbar nor to the desktop. A prerequisite for this is the access authorisation to the server. The automatic start of programs during logon on the server can also be established directly on the server via the user accounts. In this case the settings carried out here are disregarded.</td>
</tr>
<tr>
<td></td>
<td>[&lt; Back]/[Next &gt;]</td>
<td>Change to the previous/next dialog of the connection wizard.</td>
</tr>
<tr>
<td>WTS Connection</td>
<td>[&lt; Back]/[Finish]</td>
<td>Change to the previous dialog of the connection wizard or exit the connection wizard.</td>
</tr>
<tr>
<td>Wizard (Dialog 3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3 Operation
"Configure" register
Configuring the connection (extended configuration)

3.4.2 Configuring the connection (extended configuration)

In the registers presented in the following you configure the connection selected.

"General" register
Call: "Configure" register → [Edit...] button

![General register screenshot]

Note!
Some dialog elements can only be viewed if after the first call of the connection, when the user data are entered, the "Remember my password" control field has been ticked.

![Note]

Fig. 3-2 Query of the user data during connection establishment
### Dialog Box

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Computer</strong></td>
<td>Network name of the server. Both the network name and the IP address can be specified.</td>
</tr>
<tr>
<td><strong>User Name</strong></td>
<td>User name according to the user account created on the server. Behind the &quot;User name&quot; it says &quot;None specified&quot; until a connection has been established for the first time. During the connection establishment, a query with regard to the &quot;User name&quot; and the password is carried out.</td>
</tr>
</tbody>
</table>
| **User Name:** User name for the user account created on the server  
**Password:** Password for the user account created on the server  
**Remember my password:** If this control field is ticked, the access data are transferred automatically during the following connections are established. The "General" register shows further buttons for the configuration of the automatically transferred user data.  
**[Delete]** Delete automatically transferred user data. For every following connection, the access data are queried. This button is only available if the "Remember my password" control field has been ticked during the entry of the user data.  
**[Edit]** Open dialog for the configuration of the automatically transferred user data. In the dialog the user name and the password can be edited. This button is only available if the "Remember my password" control field has been ticked during the entry of the user data.  
**Always ask for credentials** If this control field has been ticked, the automatic transmission of the user data is deactivated. At every connection establishment the user data have to be entered. The [Delete] and [Edit] buttons are masked out. This control field is only available if the "Remember my password" control field has been ticked during the entry of the user data.  
**[Save]** The parameters of the connection are written to the connection name.rdp file.  
**[Save As]** The parameters of the connection can be written to an rdp file under any name.  
**[Open]** The parameters of the connection are read from an rdp file. |
**Operation**

"Configure" register
Configuring the connection (extended configuration)

**"Display" register**

Call: "Configure" register → [Edit...] button

In the "Display" register you configure the display properties of the Thin Client.

![Dialog Box](image)

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote desktop size</td>
<td>Resolution in which the server session is displayed on the Thin Client.</td>
</tr>
<tr>
<td>Colors</td>
<td>Colour depth with which the server session is displayed on the Thin Client. Possible settings are 8 bits and 16 bits.</td>
</tr>
<tr>
<td>Display the connection bar</td>
<td>If this control field is ticked, the connection bar above the desktop view of the server session is shown.</td>
</tr>
</tbody>
</table>
“Local Resources” register

Call: "Configure" register → [Edit...] button

This register can be used to enable local resources of the Thin Client for the use during a terminal session.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote Computer Sound</td>
<td>Set sound output.</td>
</tr>
<tr>
<td></td>
<td><strong>Bring to this Computer</strong>: Not supported by the hardware</td>
</tr>
<tr>
<td></td>
<td><strong>Do not play</strong>: The sound output is inhibited both on the server and on the Thin Client</td>
</tr>
<tr>
<td></td>
<td><strong>Leave at Remote Computer</strong>: Sound output only on server</td>
</tr>
<tr>
<td>Keyboard</td>
<td>The keyboard entries of an externally connected keyboard are transferred in the case of all configurations. The commands of the function keys, however, are only transferred if &quot;On the local computer&quot; has been selected.</td>
</tr>
<tr>
<td>Printers, Clipboard, Smart cards, Drives, Serial ports</td>
<td>Transfer printer, clipboard, memory cards, drives, and serial interfaces to the server. Example: If the &quot;Smart cards&quot; control field has been ticked, the internal memory card of the Thin Client appears as drive in the Explorer of the server, so that data can be exchanged.</td>
</tr>
</tbody>
</table>
"Programs" register

Call: "Configure" register → [Edit...] button

On this register the settings for the start application can be changed.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start the following program on connection</td>
<td>If selected, after logon on the server an application is started. &quot;Application file name&quot; field: Application.exe &quot;Working directory&quot; field: Directory path of the exe file (e.g. c:\programs) Only this application is started; the user has neither access to the Windows taskbar nor to the desktop. A prerequisite for this is the access authorisation to the server. If the control field is not ticked, the desktop configured for the user is displayed after logon on the server.</td>
</tr>
<tr>
<td>Program path and file name</td>
<td>Name of the program that is to be started.</td>
</tr>
<tr>
<td>Start in the following folder</td>
<td>File path of the program which is to be started.</td>
</tr>
</tbody>
</table>
"Experience" register

Call: "Configure" register → [Edit...] button

This register can be used to carry out settings on the network performance.

---

**Dialog Box**

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose your connection speed to optimize performance.</td>
<td>Select preconfigured setting.</td>
</tr>
<tr>
<td>Desktop background</td>
<td>If selected, background images of the server interface are transferred.</td>
</tr>
<tr>
<td>Show contents of window while dragging</td>
<td>If selected, the contents of Windows pages is shown when the mouse is moved.</td>
</tr>
<tr>
<td>Menu and window animation</td>
<td>If selected, animations of the Windows screens are transferred from the server.</td>
</tr>
<tr>
<td>Themes</td>
<td>If selected, &quot;Themes&quot; set on the server are transferred.</td>
</tr>
<tr>
<td>Bitmap caching</td>
<td>If selected, bitmaps transferred from the terminal server are stored temporarily on the Thin Client.</td>
</tr>
<tr>
<td>Reconnect if connection is dropped</td>
<td>If selected, a cyclic attempt to re-establish the connection is made if a connection to the terminal server is lost.</td>
</tr>
</tbody>
</table>
"Advanced" register

Call: "Configure" register → [Edit...] button

This register can be used to preselect settings on the "Server authentication". This serves to check that the connection has been established to the correct server.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
</table>
| Authentication options | **Always connect, even if authentication fails:** A connection to the server is established, independent of the result of the server authentication.  
**Warn me if authentication fails:** A connection to the server is established. The failed authentication is reported to the user.  
**Do not connect if authentication fails:** No connection to the server is established if the authentication has failed. |
3.5 "F-Keys" register

In the "Connection" register you can configure the function keys (F-keys) and the software keyboard.

<table>
<thead>
<tr>
<th>Function</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Input Panel</td>
<td></td>
</tr>
<tr>
<td>Right Mouse Click</td>
<td></td>
</tr>
<tr>
<td>Calibrate Touch</td>
<td></td>
</tr>
<tr>
<td>Restart</td>
<td></td>
</tr>
<tr>
<td>Software Input Panel Style</td>
<td></td>
</tr>
</tbody>
</table>

**Function**

Specify function of the respective F-key.

- The functions of keys F1, F2, and F3 can be executed in the standard mode.
- The key with the spanner symbol corresponds to the F1-key after switch-over to the service mode. This key is fixedly pre-assigned on the Thin Client with the "Restart" function (of the Thin Client) and cannot be changed.
- **Adjustable functions:**
  - none: Key is without function.
  - Run Program: Starts the program that is specified in the "Parameter" field.
  - Software Input Panel: Shows the screen keyboard.
  - Right Mouse Click: Pressing the right mouse button is emulated. By this, the context menu can be called during a server session without mouse operation.
  - Calibrate Touch: Starts the calibration software for the touchscreen.
  - Terminal Connection Manager: Places the «Terminal Connection Manager» in the foreground or the background, which means that it can also be shown during an active server session. However, changes to the configuration are only accepted after the connection is established again.

**Parameter**

Only for the "Run Program" function: File path and name of the program that is to be executed when the key is pressed.

**Software Input Panel Style**

Set style of the on-screen keyboard.

- LargeKB: Alphanumeric keyboard, normal size
- XLargeKB: Alphanumeric keyboard, oversize
- LargeNUM: Numerical keyboard, normal size
- XLargeNUM: Numerical keyboard, oversize

**Note!**

You can assign the command for opening the command line to a function key (Function: Run Program; Parameter: cmd.exe)

In the service mode the display brightness can be set via F2/F3.
3.6 "General" register

In the "General" register you can configure the network connection, calibrate the touchscreen, set a system password, and restart a program and the device.

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAN, Terminal Name</td>
<td>Enter network name of the Thin Client</td>
</tr>
<tr>
<td>LAN, [Settings...]</td>
<td>Open dialog for the entry of network parameters. Possible entries: Obtain IP address via DHCP server or use fixed IP address.</td>
</tr>
<tr>
<td>LAN, [Advanced...]</td>
<td>Enter dialog for the entry of extended network parameters. Possible entries:</td>
</tr>
<tr>
<td>Touch, Calibrate Touch [...]</td>
<td>Start touch calibration software. For the calibration, dots are displayed on the screen, which are confirmed by touching the screen.</td>
</tr>
<tr>
<td>Configuration Password,</td>
<td>Open dialog for the entry of a system password. The password protects the</td>
</tr>
<tr>
<td>[Settings...]</td>
<td>«Terminal Connection Manager» against unauthorised access. If a server session is aborted, or the «Terminal Connection Manager» is brought into the foreground, the allocated password has to be entered here. Possible entries:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Please note**: If the «Terminal Connection Manager» is accessible via one of the F-keys, it is possible for any user to change the configuration during a current terminal session. In this case the password protection should always be activated.
**Operation**

"General" register

<table>
<thead>
<tr>
<th>Dialog Box</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifecheck, Enabled</td>
<td>If the control field is ticked, the &quot;Lifecheck&quot; function is active, which transmits a “sign of life” to the server to check the connection.</td>
</tr>
<tr>
<td>Lifecheck, [Settings]</td>
<td>Opens the dialog for the configuration of the lifecheck.</td>
</tr>
</tbody>
</table>

Depending on the "Send “F9” Key" control field, two variants are provided:

- **Send “F9” Key not ticked:** An F9 keystroke is emulated cyclically. The cycle corresponds to the setting in the “Timer” field.

- **Send “F9” Key not ticked:** A specified string is transmitted cyclically via the specified port. The cycle corresponds to the setting in the “Timer” field.

<table>
<thead>
<tr>
<th>Device, [Restart]</th>
<th>Triggers the restart of the Thin Client. The current settings are saved.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Device, [Restart Clean]</td>
<td>Triggers the restart of the Thin Client and saves the current registry &quot;\storage\REG&quot; as backup on the memory card under &quot;\storage\REGBack&lt;date&gt;&lt;time&gt;&quot;.</td>
</tr>
<tr>
<td>Remote Desktop, Enabled</td>
<td>If the control field is ticked, the CE remote desktop component Cerdisp.exe is activated. The CERDISP service runs in the background and waits for connection attempts by the CERHOST server component. The service increases the loads in the network and in the Thin Client.</td>
</tr>
<tr>
<td>Command, [Open]</td>
<td>Start Windows CE command line to access the local file system or start other applications.</td>
</tr>
</tbody>
</table>
4 Communication

4.1 Web server

The Thin Client is provided with a web server which can be accessed with a web browser.

4.1.1 Calling the web server as web administrator

Call: http://<Thin Client IP address> /webadmin

Call the web server as web administrator when you want to configure it. More detailed information on the possible settings can be found in the Microsoft online help or the "help topics" on the page.

4.1.2 Calling the web server as system administrator

Call: http://<Thin Client IP address> /sysadmin

Call the web server as system administrator if you ...

▶ Want to read out system information
▶ Start and complete processes
▶ Access the local files
▶ Edit the registry.

After it is called, the web server responds with the following page:

For a better overview we recommend selecting the "Internet Explorer 4.0 +" as client. In the case of "No Frames (simple)", no navigation frames are displayed at the left border of the window.
The following menu items are available:

<table>
<thead>
<tr>
<th>Menu item</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>System tools</td>
<td>Read out system information (operating system version, number of processors, architecture, memory size and assignment)</td>
</tr>
<tr>
<td>File Browser</td>
<td>The “File Browser” menu item contains a kind of FTP functionality. The user can access the file structure of the device via the web browser, i.e. upload and download data. <strong>PLEASE NOTE:</strong> Do not delete or shift any system data, since some functionalities require fixed paths.</td>
</tr>
<tr>
<td>Registry Editor</td>
<td>Edit the registry <strong>PLEASE NOTE:</strong> Do not delete or shift any registry entries, since this can lead to maloperation of the device.</td>
</tr>
</tbody>
</table>

### 4.2 FTP server

The FTP server of the Thin Client can be addressed with any FTP client.

**Call:** ftp://< Thin Client IP address >

After a successful call, the FTP server responds and shows the contents of the "storage" memory card enabled (standard).
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