

MT9750 (Windows) Version 7.0 Terminal emulation

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Multi-terminal emulation software for the connection of personal computers to BS2000 systems

MT9750 is a 32-bit MS Windows® application which can emulate the display terminals of the 9750 terminal family (up to 9763) on a PC. Apart from a few exceptions due to system dependencies, all of the terminal features can be emulated on the PC. In addition, functionalities are made available which go beyond pure terminal functions, for example a ftp based virtual file transfer window. MT9750 V7.0 is installable on Windows workstations as well as on terminal-servers from Citrix or Microsoft.

MT9750 V7.0 contains the Unicode-Support for European-characters in the Unicode range U+0000 to U+2FFF. With this feature it is possible that symbols from various character-sets can be displayed in one form.

MT9750 V7.0 also supports the Kerberos authentication protocol, enabling a Single Sign On (SSO) to the TIAM application \$DIALOG.

For this features a corresponding BS2000/OSD-Version is required.

Installation and configuration

Windows 2003, Windows 2000, Windows XP, Windows Vista install / uninstall with version checking and updating. Before using the emulation MT9750 V7.0 the license has to get activated.

Interface

A well-designed user interface makes it very easy to use the emulation:

- Up to 16 windows (16 logical terminals on one screen) can be displayed simultaneously.
- Simultaneous connections can be set up to several BS2000 systems.
- Online help system.
- Configurable decimal character (decimal point or comma). Configurable key for line feed or entering data on the numeric keypad.
- If you want the option of using programmable P keys, a programmable keys (P keys) editor can be called up from the menu, allowing you to display and/or change the current assignments saved in a file (session-specific).
- The emulation can be operated in 7-bit mode with the following character sets: International (US), German, Belgian, Danish, English, French, Italian, Spanish and Swedish.
- The ISO character sets 8859-1, -2, -5, -7, 9, -15 are supported in 8-bit- and Unicode-mode; these can be selected from the menu.
- In 8-bit- and Unicode-mode any characters that are not available on the keyboard can be generated with the COMPOSE key function.
- Unicode-characters can be inserted with the clipboard.
- Freely selectable session title.
- Easy switching between the session windows using a key combination.
- Operation is made easier with a toolbar for frequently used menu items which can be enabled in the session window and in the keyboard mapping program.
- All session parameters are saved (e.g. current window size/position, connection parameters). User and session-specific. Previously saved session parameters can be created, modified and deleted.
- Foreground and background colors can be set and saved for individual sessions.
- Function key assignments can be displayed in a separate window.
- Selection of frequently used function keys in a session-specific function key window.
- The cursor can be positioned in the emulation window using the mouse.
- Dynamic font change for higher screen resolutions.
- Support of changing to all 9763 screen-formats (80 x 24, 80 x 32, 80 x 43 and 132 x 27) under control of host application.
- Full screen mode can also be enabled, if required, where the Windows scrollbars are hidden and the view for the user is very similar to the original terminal.
- Support for the Euro currency symbol.

Printing

Comprehensive print functionalities:

- Programmable (initiated by host) hardcopy
- User-defined hardcopy
- Printing a marked area of the screen
- Bypass printing with passive connection setup as of BCAM V.11
- Transparent printing:
The print data is output on the printer attached to the PC without further conversion.
- Printing (GDI printing):
The control characters of the TRANSDATA print data stream are converted into Windows print control characters.
- Configuration during existing session.
- Portrait, landscape and rotated landscape can be set.

Data exchange

- Data can be transferred into other applications via the Windows Clipboard, via DDE or via a file.
- File transfer "VFT" (FTP)
- "openFT" file transfer available as option

Communication

The PC is connected to the BS2000/OSD system via a LAN link. Communication takes place using the Microsoft Windows Socket-API.

APIs

The following programming interfaces are supported:

- Siemens HLLAPI V1.1 (High Level Language Application Program Interface) programming interface.
- SNIDDE V1.2 programming interface.
- Entire-Connection 3.1.1 interface (SAG/SAP)
- OLE automation

Peripherals

- Printer
Both Windows and Transdata printers.
The following TRANSDATA printer data streams can be output on PC printers which are connected via the MS Windows Print Manager:
 - 9001 format
 - 9011 format
 - 9012 format
 - 9013 format
 - HP LaserJet format
 - Diabolo 630 format
 - IBM Proprinter format
- Keyboard
 - PC standard keyboard (MF2)

- KBPC E ergonomic keyboard
- Trimodal keyboards (not on Windows Vista):
 - German
 - English US
 - English UK
 - Swiss (German/French)
 - German system keyboard
- ID card reader:
German system keyboard with integral ID card reader

On systems whose processor and Bios the function NX memory protection supports, the driver of the "trimodal" keyboard tries to write feasible code to area on a storage, that are closed by the Bios to it. The consequence of it is Bluescreen under Windows XP. As Workaround is in the Bios under Advanced / Advanced system configuration the parameter NX memory protection to put down on disabled. A correction of the driver is not intended. The driver is Windows realized on basis 9X and can only used in Windows XP, but not produced under Windows XP. New functions of Windows XP are not supported. Furthermore, the driver for trimodal keyboards cannot use under Windows Vista. The delivery of the driver (no official product-component) takes place with this version last.

Tools

- Keyboard assignment:
An easy-to-use tool with a graphical user interface is included in the set of functions, allowing custom keyboard assignments to be programmed. It not only allows function keys to be reassigned, but also permits user-defined assignment of all keys, macro keys and hotspots on the keyboards supported by the emulation.
- Menu lock:
Menu items can be selectively locked by means of entries in a file, e.g. to prevent the user from changing parameters.
- Macro recorder:
A macro recorder permits inputs made during a session to be recorded and the recorded sequence to be played back.
- Simple SW-licensing per type in the license-key.
Dependent on the configuration online over internet, over mail, or over fax.
- Session logging:
An integrated trace function for recording the data stream from and to the BS2000 system simplifies troubleshooting in the event of an error.

Technical data

Hardware

MT9750 emulation runs on Windows PCs and notebooks with at least an 80586 processor (or compatible), a minimum of 32 Mbytes RAM and a hard disk with approx. 8 Mbytes capacity.

For the connection to the BS2000-System a TCP/IP LAN-connection is necessary.

Software

Software requirements on the PC:

Windows 2000
Windows XP
Windows 2003
Windows Vista

Software requirements on the BS2000 system:
BS2000 V9.5 or higher for LAN (TCP/IP) connections

Operating mode

Dialog

Implementation language

C, C++

User interface

German or English

Installation

The emulation is installed by the customer according to the instructions in the user guide and release notice.

Documentation

User guide (German or English) and programmer reference guide (German or English) is part of the product CD as a pdf-file, Online-access is possible with the „help function“. The User guides are available as online manuals in addition <http://manuals.fujitsu-siemens.com/>

Demands on the user

None

Training

On request courses can be arranged

Conditions

This software product is transferred to the customer for a one-off payment in accordance with the terms of the system contract.

Ordering and delivery

The software product can be purchased from your local Fujitsu Siemens Computers regional office.