

Documentation

HiPath TAPI 120 V2.0 Installation and Configuration

Administrator Documentation

P31003-H3540-T120-7-76A9, 09/2010

Communication for the open minded

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1 Introduction

1.1 General

The product **HiPath TAPI 120 V2.0** consists of the following software components:

- **HiPath TAPI 120 TAPI Service Provider (TSP)**
HiPath TAPI 120 TSP is a first party telephony provider software based on MS Windows TAPI functionality and is always deployed on client PCs.
HiPath TAPI 120 TSP enables TAPI-based applications to have the control and status / presence display of telephones connected to a communication system. To enable this, HiPath TAPI 120 communicates with the communication system directly via LAN and CSTA III protocols.
- **CSTA Message Dispatcher CMD**
Per client, HiPath TAPI 120 occupies one CSTA link on the communication system. If there are insufficient CSTA links on a communication system to connect all clients, you can use CSTA Message Dispatcher (CMD) component. The CMD SW-component merges the CSTA links of multiple TAPI 120 TSP applications on one CSTA link on the communication system.

Documentation

- To improve readability, "telecommunications system(s)" has been abbreviated to "communication system(s)" or "system(s)" in this document.
- The product name **HiPath TAPI 120 V2.0** has also been abbreviated to **TAPI 120** for the same reason.
- All described operation sequences and dialogs refer to older Windows versions, e.g. Windows XP. With using newer Windows versions you have to activate the functions accordingly.

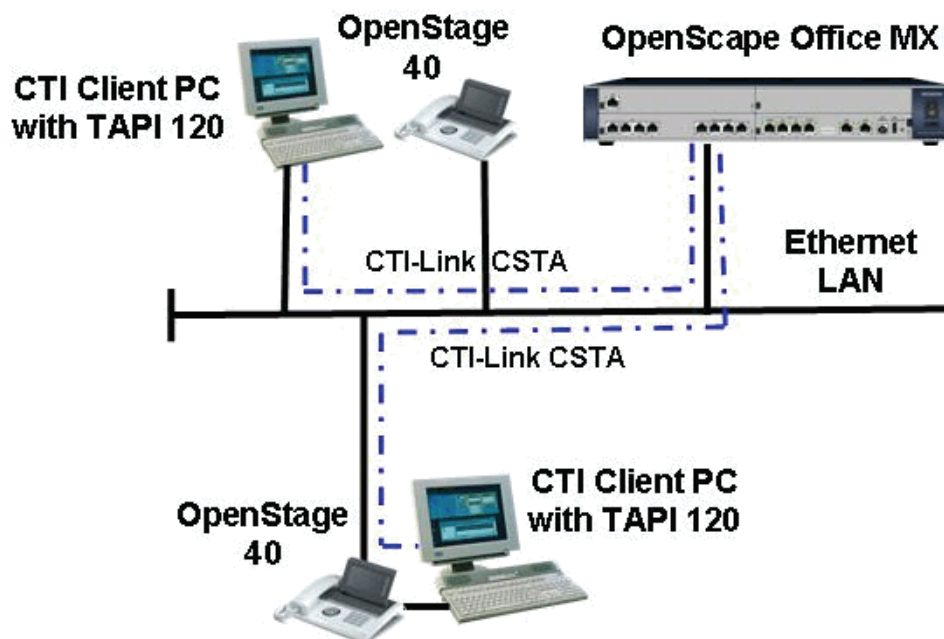
Solutions

TAPI 120 can be used as standalone software with a system / server or can be purchased and used in conjunction with several systems / servers. Basic operation is identical:

- HiPath 500
- HiPath OpenOffice EE
- HiPath 2000
- HiPath 3000
- OpenScape Office

Alternatively the system connection can be established using CMD

Configuration example: TAPI 120 direct connection



In a direct connection, the CTI client PC communicates directly with HiPath TAPI 120 TSP via the communication system using Ethernet LAN and CSTA protocols. The number of CTI client PCs that can be connected with TAPI 120 is equal to the number of free CSTA links available on the system.

In a direct connection, the CTI client PC communicates directly using HiPath TAPI 120 TSP with the communication system via Ethernet LAN and CSTA protocols. The number of CTI client PCs that can be connected with TAPI 120 is equal to the number of free CSTA links available on the communication system.

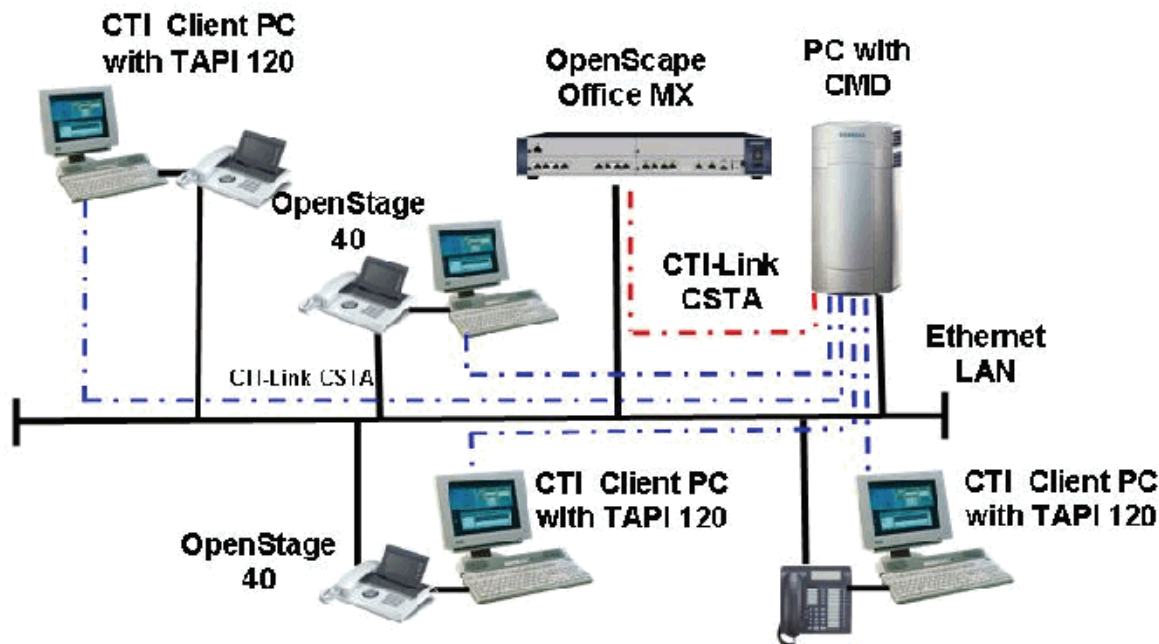


In a direct connection of TAPI 120 with the OpenScape Office system every CSTA link TAPI 120 is using requires a single licence.

Introduction

General

Configuration example: TAPI 120 connection via CMD



In a connection via CMD, the TAPI 120 client PC communicates using TSP with the PC where the CMD is installed via Ethernet LAN and CSTA protocols. The CMD multiplexes the CSTA CTI links on individual TSP systems using a separate CSTA CTI link to the communication system (here: OpenScape Office).

License monitoring

If TAPI 120 is operating with CMD licenses are monitored for the access of TAPI 120 to the CSTA-interface of the CMD. License administration is located in the CMD.



Connecting TAPI 120 to the system OpenScape Office via CMD requires only one CSTA-licence.

Features

The following features are available:

- outgoing connection setup
- incoming call acceptance
- dropping of calls
- display of call state, display of caller id, display of caller name (internal calls)
- logging of calls

- call pickup (group)
- consultation hold
- toggling between calls
- call transfer, speed extend, call park / hold
- conference
- call forwarding, do not disturb
- additional information for redirected calls
- data exchange between TAPI applications

TAPI application: Example

The easiest way to work with TAPI is to use the default Windows application *Dialer*. It is possible to start outgoing calls with this application.

1.2 Requirements

Requirements for server connection

Connection to the communication systems or connection to CMD is realized via TCP/IP.

Software requirements for TAPI 120 PCs

- 32-bit operation system versions:
 - Windows XP Professional
 - or Windows 2003 Server / 2003 Server R2
 - or Windows Vista (except Home Edition)
 - or Windows 7 (except Starter / Home Basic / Home Premium Edition)
 - or Windows 2008
- 64-bit operation system versions:
 - Windows 7 (except Starter / Home Basic / Home Premium Edition)
 - or Windows 2008
 - or Windows 2008 R2



The listed operation systems above are not released in virtual environments.



When using Microsoft Vista, Microsoft Windows 7 or Windows 2008 / 2008 R2 different confirmation prompts might appear during TAPI 120 configuration.



For more information about appropriate operating system variants please consider the file `readme.txt` on the TAPI 120 installation CD.

TAPI 120 configurations with 64-bit operation system versions

Possible configurations for TAPI 120 on 64-bit operation system versions are:

- TAPI 120 with direct connection:
 - PC with 64-bit operation system version with the 64-bit version of TAPI 120 and 32-bit or 64-bit TAPI applications
- TAPI 120 with connection via CMD
 - PC with 64-bit operation system version with the 64-bit version of CMD
 - Client-PC with 64-bit operation system version with the 64-bit version of TAPI 120 and 32-bit or 64-bit TAPI applications

Other requirements

- Network protocol: TCP/IP must be installed and configured.
- Installation of TAPI 120 must be executed by an user with administration rights.

Overview of used TAPI 120 ports (default)

Port number	Description
--------------------	--------------------

7001	CSTA-link th the system (HiPath 500 / OpenOffice EE / 2000 / 3000)
8001	CSTA-link to CMD
8800	CSTA-Link to OpenScape Office

Limitations

Operating TAPI 120 and TAPI 170 on the same PC is not possible.

2 Installation of TAPI 120

2.1 General

Scope of installation

The components to be installed for TAPI 120 can be selected when during setup. The following components are available in principle:

- TSP
- CMD

Installation and configuration

If both components are selected for installation, the individual installation routines and dialogs for entering the configuration parameters may be automatically started one after the other. In the present document, installation procedures are described in section [Starting installation](#) and configurable parameters are described in section [Configuring components](#).

2.2 Starting installation

Starting installation

1. Log on as an administrator and close all running applications.
2. Insert the TAPI 120 installation CD. Select **Start - Run**, enter the file `\TAPI120\setup.exe` on the installation drive and confirm with **OK**.



The setup determines the operation system version (32-bit or 64-bit) and automatically starts the installation of the correct TAPI 120 setup version.



Under Windows Vista, Windows 2008 or Windows 7 please confirm the UAC (User Account Control) prompt, that appears now.

3. Select the language for the installation dialogs, the installation is prepared.
4. After installation preparation the welcome-Dialog appears. Confirm it with **Next**.

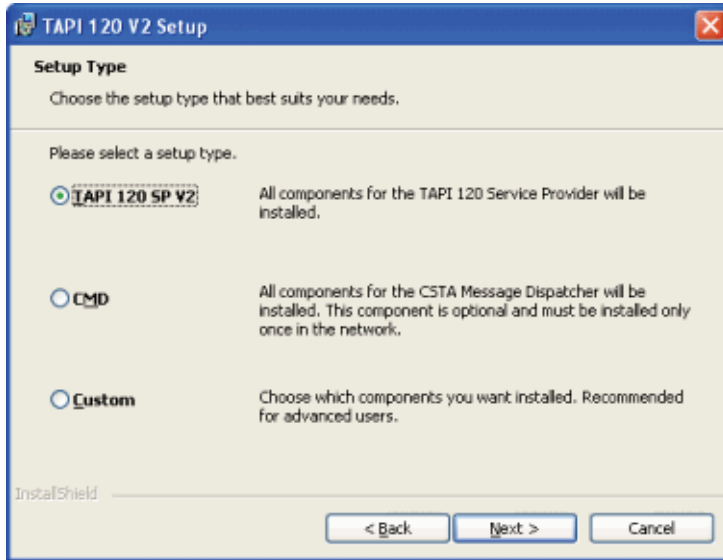


Make sure, that the service-control dialog and all TAPI applications are inactive. Corresponding to this a red marked notice appears in the installation dialog.

5. Continue installation with clicking **Next**.

- The installation setup type must then be specified:

Display



- Select the components to be installed in the dialog displayed and confirm with **Next**.
- Installation of the selected components is started after clicking **Install**.



The initial installation of TAPI 120 on a PC with Windows Vista or Windows 7 requires a reboot of the TAPI-PC. In that case the installation dialog displays an additional red marked notice. You then can cancel the installation. For continuing the installation you click on **Install**, the PC automatically reboots. After logging on you return to this point of the TAPI 120 installation procedure.

- [Installing the CMD component](#)
- [Installing the TSP component](#)

- To finish installation click on the **Finish** button displayed in the final dialog.

Installation of TAPI 120

Starting installation

2.2.1 Installing the CMD component

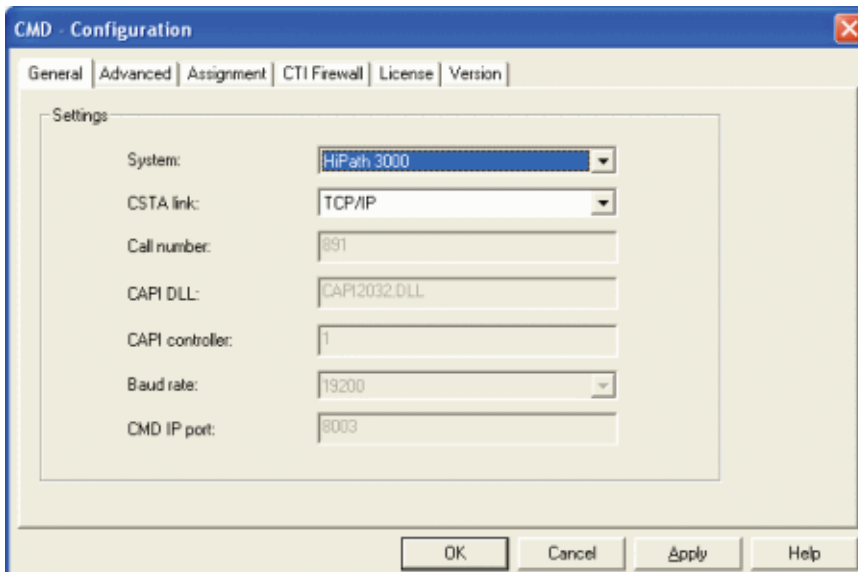


When using Microsoft Vista, Microsoft Windows 7 or Microsoft 2008 / 2008 R2 different confirmation prompts might appear during TAPI 120 configuration.

If required the CMD component can be installed on a central PC. This PC has to meet the following requirements:

- Cover the operating time of all HiPath TAPI 120 clients.
 - It is not allowed to use applications that might cause a resource supply shortfall (CPU load, network traffic, etc.).
1. A welcome dialog is not displayed when installing the CMD component. Progress is displayed in a window.
 2. For PCs with two network cards, a dialog appears prompting you to select the IP address to be used.
 3. The CMD configuration dialog opens automatically following successful CMD installation. The required parameters can be entered in this dialog or configured at a later stage.

Display



The individual configuration parameters are described under [Configuring the CMD component](#).

CMD installation is complete once you have exited the configuration dialog. The component TSP may now be installed automatically depending on the setup type selected.

2.2.2 Installing the TSP component



When using Microsoft Vista, Microsoft Windows 7 or Microsoft 2008 / 2008 R2 different confirmation prompts might appear during TAPI 120 configuration.

1. Click **Next** to confirm the install TSP welcome dialog.
TAPI 120 installation is then started and progress is displayed in a window.
2. The TSP configuration dialog opens automatically following successful TSP installation.
The required parameters can be entered in this dialog or configured at a later stage.

Display

The individual configuration parameters are described under [Configuration the TSP component](#).

TSP 120 installation is complete once you have exited the configuration dialog.

Installation of TAPI 120

Uninstall TSP and/or CMD

2.3 Uninstall TSP and/or CMD

To uninstall TSP or CMD proceed as follows:

- > Open **Start - Settings - Control Panel** and click on **Software**.
- > Activate the entry **HiPath TAPI 120 SP V2**
 - To uninstall one of both components click the **Change** button and follow the instructions.
 - To uninstall one of both components click the **Remove** button and follow the instructions.

3 Configuring components

3.1 General

Manual activation of configuration dialogs

The individual component parameters can be configured during installation or at a later stage. You find the description of how to activate the components configuration after installation in these sections:

- [Configuring the CMD component](#)
- [Configuration the TSP component](#)

Effectiveness of modified configuration parameters

Modified configuration parameters are immediately effective once the data has been saved in the configuration dialog (**Apply** or **OK** buttons). Components do not have to be reassigned and the PC does not have to be rebooted.

3.2 Configuring the CMD component

3.2.1 Starting the configuration dialog

Activating the configuration dialog

To edit the CMD configuration parameters after installation, start the configuration dialog as follows:

1. Open the Windows Control Panel via **Start - Settings - Control Panel**. Activate the **CSTA Message Dispatcher** by double-clicking the associated icon.

The CMD configuration dialog is then displayed.

2. Edit the following parameters as required:

- [General CMD parameters](#)
- [Advanced CMD parameters](#)
- [CMD assignment parameters](#)
- [CMD parameters for CTI firewall](#)
- [CMD license parameters](#)

Up-to-date [CMD version information](#) can be found in the configuration dialog.

Configuring components

Configuring the CMD component



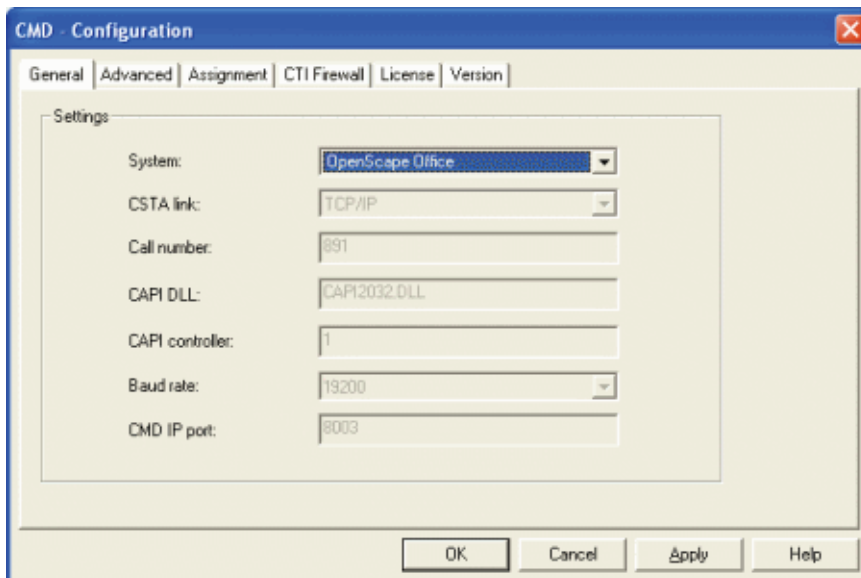
When using Microsoft Vista, Microsoft Windows 7 or Microsoft 2008 / 2008 R2 different confirmation prompts might appear during TAPI 120 configuration.

3.2.2 General CMD parameters

The type of system connected, the type of connection between the CMD and the system and the relevant connection parameters must be determined when configuring the general CMD parameters.

- > Activate the **General** tab in the CMD configuration dialog.

Display



These parameters and information is displayed:

Parameter	Description
System	For selecting the connected system. The following systems can be selected: <ul style="list-style-type: none">• HiPath 500• HiPath OpenOffice EE• HiPath 2000• HiPath 3000 (default)• OpenScape Office
CSTA link	Connection type between CMD and the system. By default this is TCP/IP and cannot be changed.



Existing installations of TAPI 120 can be connected to the HiPath 3000 system via S₀ (ISDN card) or V.24 (null modem cable) instead of TCP/IP. This connection type is supported for existing installations. With new installations of TAPI 120 or installations with newer operating systems the connection to the HiPath 3000 system has to be realized via TCP/IP.

Parameter	Description
Call number	When using a system connection via S ₀ this is the access number for the system's CSTA interface (default setting is 891).
CAPI-DLL	When using a system connection via S ₀ this is the name of the DLL file including the CAPI driver for the S ₀ card (default setting is CAPI2032.DLL).
CAPI controller	When using a system connection via S ₀ this is the S ₀ card controller number (default is 1).
CMD IP port	When using a system connection to HiPath 3000 via S ₀ this is the CMD Listener Port port number to be configured for the system, e.g. 8001, 8002, etc. When connecting other communication systems this field is inactive. Then you configure this parameter in the Assignment tab.



If the system is changed, a message may appear indicating that the licensing information may have been changed. If this occurs, the licensing information for the new system must be checked.

Saving parameters

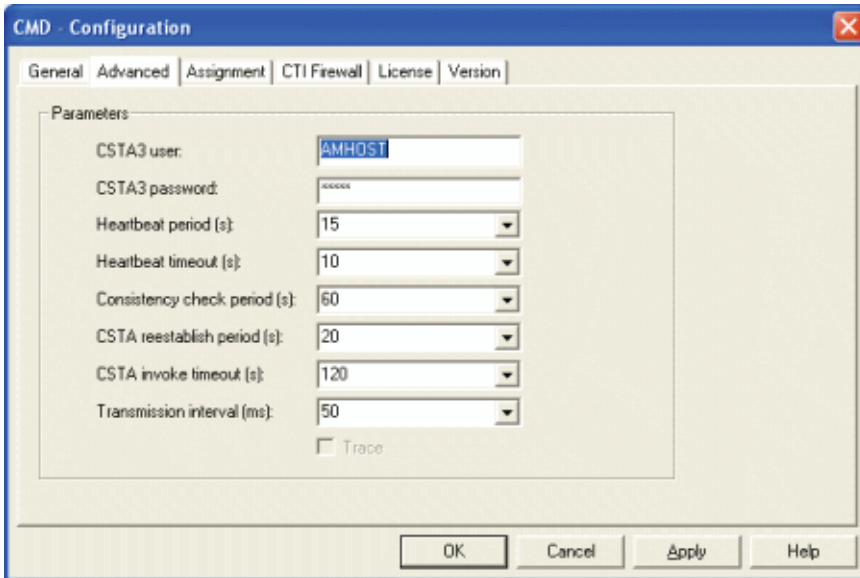
- To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).
- A confirmation message appears in both cases before the parameter values are saved in the database. Click **Yes** to confirm this message.

3.2.3 Advanced CMD parameters

When configuring advanced CMD parameters, you are configuring parameters that are relevant to the connection between the connected system and the CMD. System-dependent parameters are defined on the system and should be specified here accordingly.

- > Activate the **Advanced** tab in the CMD configuration dialog.

Display

The screenshot shows the 'CMD - Configuration' dialog box with the 'Advanced' tab selected. The 'Parameters' section contains several fields: 'CSTA3 user' (text box with 'AMHOST'), 'CSTA3 password' (password box with 'x' characters), 'Heartbeat period (s)' (dropdown with '15'), 'Heartbeat timeout (s)' (dropdown with '10'), 'Consistency check period (s)' (dropdown with '60'), 'CSTA reestablish period (s)' (dropdown with '20'), 'CSTA invoke timeout (s)' (dropdown with '120'), and 'Transmission interval (ms)' (dropdown with '50'). There is also an unchecked 'Trace' checkbox. At the bottom are 'OK', 'Cancel', 'Apply', and 'Help' buttons.

Enter the following parameters:

Parameter	Description
CSTA3 user	CSTA3 user name of the system. Entering a name opens an input dialog in which you can determine and confirm the new name, then return to the configuration dialog.
CSTA3 password	CSTA3 system password. Entering a password opens an input dialog in which you can determine and confirm the new password, then return to the configuration dialog.



CSTA-login on the system is not possible if the CSTA3 password entered here does not correspond to the system password.

Parameter	Description
Heartbeat period (s)	Time interval (seconds) for checking CSTA interface activity. The value 0 disables the check. The default value is 15 seconds and should not be changed.
Heartbeat timeout (s)	Additional time in seconds until automatic re-establishment in the case of CSTA interface failure. The default value is 10 seconds and should not be changed.
Consistency check period (s)	Time interval in seconds for cyclical plausibility checks. The value 0 disables the check. The default value 60 seconds should not be changed.
CSTA reestablish period (s)	CMD waiting time in seconds until a connection is re-established following connection failure. The default value is 120 seconds.
CSTA invoke timeout (s)	CMD timeout in seconds. The default value is 120 seconds.
Transmission interval (ms)	Waiting time between two CMD messages. The default value is 50 ms.
Trace	With TCP/IP connection of the CMD this parameter is not relevant. You must define the trace option for each of the connected systems when configuring the assignment parameters. See also CMD assignment parameters .

Saving parameters

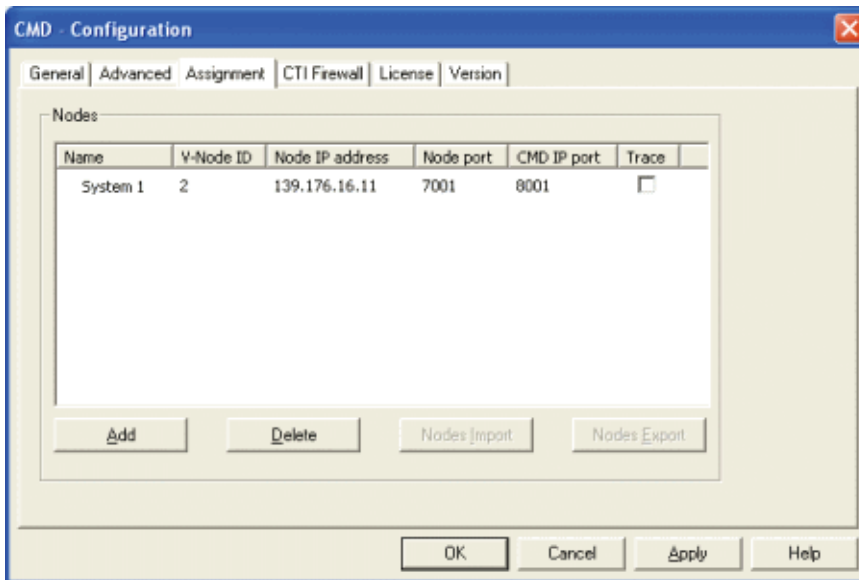
- > To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).
- > A confirmation message appears in both cases before the parameter values are saved in the database. Click **Yes** to confirm this message.

3.2.4 CMD assignment parameters

The advanced CMD parameters are determining settings relevant for to the connection between the connected system and the CMD. System-dependent parameters are defined on the system and should be specified here accordingly.

- > Activate the **Assignment** tab in the CMD configuration dialog.

Display



A list of assigned CMDs/systems is displayed under the following entry:

Column/field	Description
Name	System description, entered during installation/configuration (KDS) - usually the customer name and / or location.
V-Node ID	Node ID of the system connected to the CMD. The node ID is entered during system installation/configuration and is unique in the network.
Node IP address	Node IP address of the system connected to the CMD.
Node port	IP port number of the system, always set to 7001.
CMD IP port	CMD Listener Port port number to be configured for the system, e.g. 8001, 8002, etc.
Trace	Option for activating trace messages (CSTA messages) for the assigned system that can be interpreted using a separate standard tool.

Sorting the list displayed

The list can be sorted in ascending/descending order according to column content by clicking the relevant column heading, e.g. **Name**.

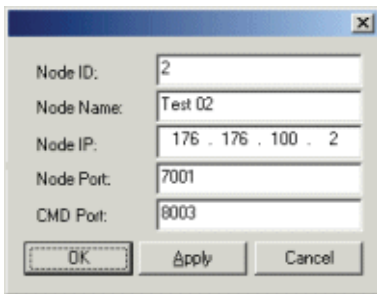
Saving parameters

- > To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).
- > A confirmation message appears in both cases before the parameter values are saved in the registration database. Click **Yes** to confirm this message.

3.2.4.1 Adding nodes

1. Click **Add** in the **Assignment** tab.

Display



Enter the following parameters:

Column/field	Description
Node ID	Node ID of the system connected to the CMD. The node ID is entered during system installation and configuration and is unique in the network.
Node Name	System description, entered during installation / configuration (KDS) - usually the customer name and / or location.
Node IP	Node IP address of the system connected to the CMD.
Node Port	IP port number of the system, always set to 7001.
CMD Port	CMD Listener Port port number to be configured for the system, e.g. 8001, 8002, etc.

2. Click **Apply** to save entries. You can then enter additional parameters for other systems. Click **OK** to save changes and exit the entry dialog. The CMD configuration dialog re-appears.

A maximum of 64 systems/nodes can be configured.

Configuring components


Configuring the CMD component

3.2.4.2 Editing / deleting an entry

Editing an entry

- > To edit the parameters of a configured system double-click the corresponding value. The value can then be changed in the entry field displayed.

Deleting an entry

- > Highlight the entry to be deleted using the mouse and click **Delete** or press the  key. The entry is then deleted from the list.

3.2.4.3 Exporting / importing parameters (nodes)

Exporting

1. The configured node information can be exported to a file, e.g. to save a specific level. Click **Nodes Export** to start exporting.
2. Enter the name of the export file in the dialog displayed and confirm.
The entries are exported. The CMD configuration dialog re-appears.

Importing

1. Node parameters can also be imported from a file, e.g. containing exported parameter information. Click **Nodes Import** to start importing.
2. Select the file to be imported.
The entries are imported and the CMD configuration dialog re-appears.

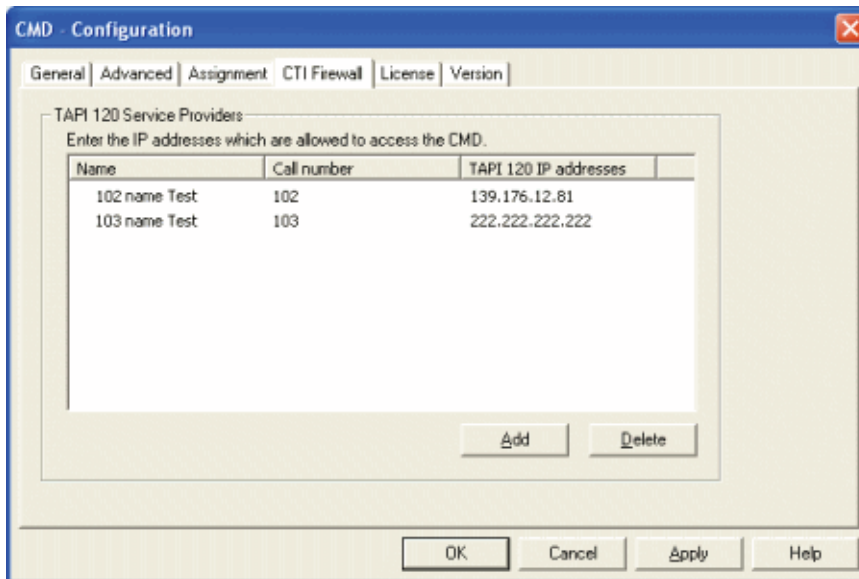
3.2.5 CMD parameters for CTI firewall

Every TAPI 120 client that is connected to the CMD and permitted to seize a line, must be entered in the **CTI Firewall** tab to enable this access.

- > Activate the **CTI Firewall** tab in the CMD configuration dialog.

You will see a list of the TAPI 120 clients (IP addresses) already configured for access:

Display



Entries are displayed with the following information:

Column	Description
Name	Freely chosen name for the TAPI 120 client, enabling a single entry in the firewall to be identified.
Call number	Call number of the extension to be monitored
TAPI 120 IP addresses	IP address of the TAPI 120 client

Sorting the list displayed

The list can be sorted in ascending/descending order according to column content by clicking the relevant column heading, e.g. **Name**.

Saving parameters

- > To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).

Configuring components

Configuring the CMD component


- > A confirmation message appears in both cases before the parameter values are saved in the database. Click **Yes** to confirm this message.

3.2.5.1 Editing/deleting an entry

Editing an entry

- > To edit the parameters of an entered TAPI 120 client, double-click the corresponding value. The value can then be changed in the entry field displayed.

Deleting an entry

- > Highlight the entry to be deleted using the mouse and click **Delete** or press the  key. The entry is then deleted from the list.

3.2.5.2 Adding a TAPI 120 client

1. Click **Add** in the **CTI Firewall** tab.
2. Enter the data of the TAPI 120 client in the input dialog and confirm with **OK**. You return to the **CTI Firewall** tab.

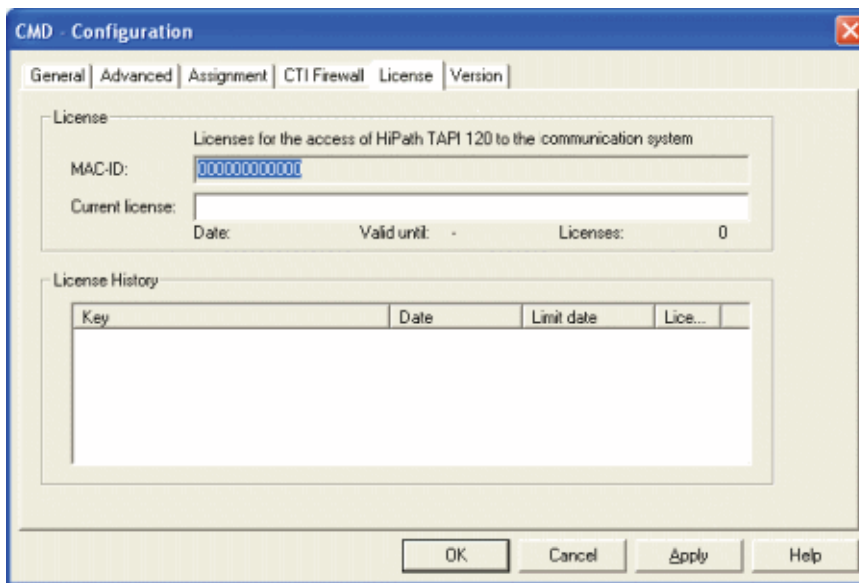
An unlimited number of clients can be entered on this tab. However, please note that the number of clients permitted to seize lines at any one time is limited by the licensing agreement (see also [CMD license parameters](#)).

3.2.6 CMD license parameters

Access by TAPI 120 clients via the CMD to the connected system is protected by a licensing procedure. You can obtain information on the current license as well as any license history that may exist. If necessary the administrator can download a new license code from the license server and enter it here.

- > Activate the **license** tab in the CMD configuration dialog.

Display



The parameters contain the following information:

Parameter	Description
MAC ID	MAC ID that is used for encryption. This is the MAC ID of the first network card in the PC.
Current license	Current license code for licensing (in accordance with information in the central database). The administrator can download this key from the license server and enter a new license code. If a license is changed, the license key entered will be checked. Old keys are recorded in the license history. If the wrong license key is entered, a message appears and the license key is rejected.
Date Limit date licenses	Details of license date, limit date and number of licenses with the current license code.

Configuring components

Configuring the CMD component

Parameter	Description
License History	Previous licenses are displayed here with the relevant information.

Saving parameters

- To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).
- A confirmation message appears in both cases before the parameter values are saved in the database. Click **Yes** to confirm this message.

3.2.7 CMD version information

The version numbers of the components that are used and installed are listed in the **Version** tab.

3.3 Configuration the TSP component

3.3.1 Manual activation of configuration dialogs

1. The individual component parameters can be configured during installation or at a later stage. To edit TSP configuration parameters after installation, start the configuration dialog as follows:

Starting the configuration dialog

- > Open the Windows Control Panel via **Start - Settings - Control Panel**. Activate the **Telephone and Modem Options** by double-clicking the associated icon.

The **Phone and Modem Options** dialog is displayed.

- Activate the **Advanced Options** tab
- select the entry **HiPath TAPI 120/170 TAPI 2.0 SP** from the list of providers displayed
- and click **Configure**.

The TSP configuration dialog appears.

Configuring components

Configuration the TSP component

3.3.2 Configuration of TSP 120 parameters

The configuration dialog appears following installation or manual activation:

Display for CMD

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'CMD'. The 'CSTA link' is 'TCP/IP'. The 'Call number' is '104'. The 'Name' field is empty. The 'IP address' is '139 . 176 . 6 . 55'. The 'IP port' is '7001'. The 'Trunk access code start' is '7801' and the 'Trunk access code end' is '7920'. The 'Trace' checkbox is checked. The bottom buttons are 'OK', 'Apply', 'Config Import', 'Config Export', 'Info', 'Help', and 'Cancel'. On the right, the copyright is '© Copyright 1998-2008' and the version is 'HiPath TAPI 170 V2 #01.58.0'. A list of sub-versions is shown: TSP-Version: 3.2.0.668, UI-Version: 4.0.0.122, ASN1-Version: 1.0.0.29, LIB2-Version: 1.0.0.32, and LIB3-Version: 1.0.0.52. A small icon of a telephone handset is also visible.

Display for HiPath 500

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'HiPath 500'. The 'CSTA link' is 'TCP/IP'. The 'Call number' is '104'. The 'Name' field is empty. The 'IP address' is '139 . 176 . 6 . 55'. The 'IP port' is '7001'. The 'Trunk access code start' is '801' and the 'Trunk access code end' is '816'. The 'Trace' checkbox is checked. The bottom buttons are 'OK', 'Apply', 'Config Import', 'Config Export', 'Info', 'Help', and 'Cancel'. On the right, the copyright is '© Copyright 1998-2008' and the version is 'HiPath TAPI 170 V2 #01.58.0'. A list of sub-versions is shown: TSP-Version: 3.2.0.668, UI-Version: 4.0.0.122, ASN1-Version: 1.0.0.29, LIB2-Version: 1.0.0.32, and LIB3-Version: 1.0.0.52. A small icon of a telephone handset is also visible.

Display for HiPath OpenOffice EE

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'HiPath OpenOffice EE'. The 'CSTA link' is 'TCP/IP', 'Call number' is '104', and 'Name' is empty. The 'IP address' is '139 . 176 . 6 . 55', 'IP port' is '7001', 'Trunk access code start' is '7801', and 'Trunk access code end' is '7840'. The 'Trace' checkbox is checked. On the right, the version information for 'HiPath TAPI 170 V2' is displayed, including TSP-Version (3.2.0.668), UI-Version (4.0.0.122), ASN1-Version (1.0.0.29), LIB2-Version (1.0.0.32), and LIB3-Version (1.0.0.52). The bottom buttons are OK, Apply, Config Import, Config Export, Info, Help, and Cancel.

Display for HiPath 2000

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'HiPath 2000'. The 'CSTA link' is 'TCP/IP', 'Call number' is '104', and 'Name' is empty. The 'IP address' is '139 . 176 . 6 . 55', 'IP port' is '7001', 'Trunk access code start' is '7801', and 'Trunk access code end' is '7840'. The 'Trace' checkbox is checked. On the right, the version information for 'HiPath TAPI 170 V2' is displayed, including TSP-Version (3.2.0.668), UI-Version (4.0.0.122), ASN1-Version (1.0.0.29), LIB2-Version (1.0.0.32), and LIB3-Version (1.0.0.52). The bottom buttons are OK, Apply, Config Import, Config Export, Info, Help, and Cancel.

Configuring components

Configuration the TSP component

Display for HiPath 3000

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'HiPath 3000'. The 'CSTA link' dropdown is set to 'TCP/IP'. The 'Call number' field contains '104'. The 'Name' field is empty. The 'IP address' field is set to '139 . 176 . 6 . 55'. The 'IP port' field is set to '7001'. The 'Trunk access code start' field is set to '7801'. The 'Trunk access code end' field is set to '7920'. The 'Trace' checkbox is checked. The bottom of the window contains buttons for 'OK', 'Apply', 'Config Import', 'Config Export', 'Info', 'Help', and 'Cancel'. On the right side, there is a text area showing version information: 'Siemens Enterprise Communications GmbH & Co. KG', '© Copyright 1998-2008', 'Version: HiPath TAPI 170 V2 R11.58.0', and a list of sub-versions: 'TSP-Version: 3.2.0.668', 'UI-Version: 4.0.0.122', 'ASN1-Version: 1.0.0.29', 'LIB2-Version: 1.0.0.32', and 'LIB3-Version: 1.0.0.52'.

Display for OpenScape Office

The screenshot shows the 'HiPath TAPI 120 V2.0' configuration window. The 'System' dropdown is set to 'OpenScape Office'. The 'CSTA link' dropdown is set to 'TCP/IP'. The 'Call number' field contains '104'. The 'Name' field is empty. The 'IP address' field is set to '139 . 176 . 6 . 55'. The 'IP port' field is set to '8800'. The 'Trunk access code start' field is set to '##700'. The 'Trunk access code end' field is set to '##949'. The 'Trace' checkbox is checked. The bottom of the window contains buttons for 'OK', 'Apply', 'Config Import', 'Config Export', 'Info', 'Help', and 'Cancel'. On the right side, there is a text area showing version information: 'Siemens Enterprise Communications GmbH & Co. KG', '© Copyright 1998-2010', 'Version: HiPath TAPI 170 V2 R11.58.0', and a list of sub-versions: 'TSP-Version: 3.2.0.668', 'UI-Version: 4.0.0.122', 'ASN1-Version: 1.0.0.29', 'LIB2-Version: 1.0.0.32', and 'LIB3-Version: 1.0.0.52'.

The parameters contain the following information:

Parameter	Description
System	For selecting the connected system. The following baud rates can be selected: <ul style="list-style-type: none">– CMD– HiPath 500– HiPath OpenOffice EE– HiPath 2000– HiPath 3000 (default)– OpenScape Office
CSTA link	Connection type between TSP and the system. By default this is always TCP/IP and cannot be changed.
Call number Name	Enter the Call number of the telephone and Name of the telephone's user.
IP address	With system connection via TCP/IP this is the system's IP address determined during installation and configuration of the system.
IP port	Connecting the system without CMD you enter the IP port number of the system determined during its installation and configuration (7001). Connecting the system with CMD you enter the listener port number of the CMD determined by the CMD configuration, e.g. 8001.
Trunk access code start Trunk access code end	Range of system station numbers for trunk access codes. The values may need to be aligned with the deviating system settings. An entry is mandatory. The default values are: <ul style="list-style-type: none">• HiPath 500: 801 / 816• HiPath 2000: 7801 / 7840• HiPath OpenOffice EE: 7801 / 7840• HiPath 3000: 7801 / 7920• OpenScape Office: ##700 / ##949
Trace	Option for activating trace messages (CSTA messages) that can be interpreted using separate standard debugging tools.

Saving parameters

- > To save entries, click **Apply** (to configure parameters in other tabs for example) or **OK** (to exit the configuration dialog and save changes).
- > A confirmation message appears in both cases before the parameter values are saved in the registration database. Click **Yes** to confirm this message.

Configuring components

Configuration the TSP component



It is necessary to restart the TSP (net stop tapisrv), for instance after modifying the connection type (CSTA link).

Importing / exporting of TSP configuration parameters

Exporting

1. The configured general configuration parameters can be exported to a file, e.g. to save a specific level. Click **Config Export** to start exporting.
2. Enter the name of the export file in the dialog displayed and confirm.
The entries are exported. The TSP configuration dialog re-appears.

Importing

1. General configuration parameters can also be imported from a file, e.g. containing exported parameter information. Click **Config Import** to start importing.
2. Select the file to be imported.
The entries are imported and the TSP configuration dialog re-appears.

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