Scout Enterprise

Specification of the Scout Command Interface

September 2010

Build # 2

Contents

1 Scout Command Interface

1.1 *Specification*

The program **scmd** is located in the directory of the Scout Enterprise Server.

To call the program please enter:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] <filename1>
     <filename2> <filename3> <filename4>....or
```

```
scmd -v : shows the program version.
```

If the file name should not be fully qualified, the program path is used. The file name may also contain wild-cards. The file names are processed in the order they have been entered. In case the file names contain wild-cards they are put in alphabetical order.

The file format corresponds to the format of an ini file in Windows.

The scmd program connects to the Scout database by means of a dynamically created user DSN. The access data are those of the database of the Scout Enterprise server.

Then the defined files are read, interpreted and processed. Depending on the contents in the chapter [FileInfo] different actions are performed. The single chapters are described in detail below.

1.1.1 Chapter FileInfo

Chapter/Entry	Value/Example	Description	mandatory
[FileInfo]			x
Type	#typenumber	The following values may be used as #typenumber: 0 : Adding/Modifying a Clilent 1 : Deleting a Client 2 : Adding/Modifying an OU 3 : Deleting an OU 4 : Adding/Modifying a Setup 5 : Deleting a Setup 6 : Adding/Modifying an Application 7 : Deleting an Application 8 : Adding/Modifying Application Defaults 9 : Deleting Applications Defaults 10 : Setting Advanced Options 11 : Renaming an Application	x
PreImportFile PostImportFile	<filename>	Name of the setup file which is to be imported. If the file name is not qualified by the complete path, the directory of the Scout Enterprise is being used. This file name must not contain any wild-cards. When the client has been created the data are read from the file and are assigned to the client. The data are imported in the following order: - Data from the PreImportFile - Data from the current file - Data from the PostImportFile	

Depending on the type of file different chapters are required.

The scmd descritpion of the ini files contains two more types:

1.1.2 Chapter Setup

1.1.3 Query of client data (Type=12)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
AttributeKey	Mac_Address	A key which is searched for in the database.	x
AttributeValueString	001122334455	Text value string which is compared to the key content.	
AttributeValutInt		String of numbers which the content of the key is compared to.	

1.1.4 Add / Modify a Client (Type=0)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, which clients are to be added to.	x
ForceDBWrite	0 | 1	Specifies whether the read-in setup is written to the database, even if no modifications were found.	
Name	Client1	The name of the client	x
MAC	001122334455	The MAC address of the client This address is used to find out, if a client has already been entered into Scout. If so, the existing configuration data are modified.	x
Info1		Information about this client	
Info2		Information about this client	
Info3		Information about this client	
UseParentAppDefaults		Specifies whether the application default values having been defined for this OU are to be used.	
UseParentApps		Specifies whether this OU is to 'use parent'.	
UseParentScreenSettings	0 | 1	Specifies whether the screen settings of the parent OU are to be used. If this value is 0, then Prop_Resolution and Prop_Frequency and Prop_ColorDepth must be set.	
Prop_Resolution	1024x768	The screen resolution (as property)	
Prop_Frequency	60	The screen frequency (as property)	
Prop_ColorDepth	16	The color depth (as property)	
IniEntryFile# IniEntrySection#		Setting of an advanced file entry. All four entries must be set with a number	

Chapter/Entry	Value/Example	Description	mandatory
IniEntryKey# IniEntryValue#		(whereby # from 1 to 255) **Should no entries be defined, already existing entries are being deleted.**	
FileSrc# FileDst#		Setting of files which are to be transferred. Both entries must be set (whereby # from 1 to 255) **Should no entries be defined, already existing entries are being deleted.**	
UseParent	0 | 1	Specifies whether to set an individual configuration for this OU. If this value is set to 1, all values defined in the setup chapter of section 7 can be set.	
IpAddress		Ip address of the client	
DefaultPrinter			
DefaultPrinterType			
DriverNames			
LastApplicationAction	0	Specifies which action is to be initiated after the last running application at the client will have been closed.	
LastApplicationActionDelay	0	Specifies the period of time in after which the above mentioned action is to be performed.	
UseParentPeerIP	0 | 1	Specifies whether the Peer-IP settings of the parent OU are to be used.	
UsePeerIP	0	Specifies whether the alternative (peer) IP-address of the client is to be used.	
UseParentPartitions	0 | 1	Specifies whether the partition settings of the parent OU are to be used.	
RootPartitionSize	128		
HomePartitionSize	0		
SwapPartitionSize	2		
WOLServer		Defines the WakeOnLan-Server.	
UseParentMousKBSettings	0 | 1	Specifies whether the mouse and keyboard settings of the parent OU are to be used.	
Prop_Emulate3Buttons	empty or Emulate3DButtons	Specifies whether 3 mouse buttons are to be emulated.	
Prop_multiClickTime		Double click speed	
Prop_Buttons		Specifies the mouse type auto : automatic detection none : NoMouse 2 : Two button mouse 3 : Three button mouse 5 : Wheel mouse	
Prop_PointerSpeed		Mouse pointer speed	
Prop_XkbLayout		Specifies the keyboard language	
Prop_Numlock		Initial numlock state	
Prop_DontVTSwitch		Specifies whether Ctrl Alt F1…F12 should be enabled to switch beetween the consoles.	
Prop_DeadKeys		Specifies whether dead keys should be enabled.	

Chapter/Entry	Value/Example	Description	mandatory
Prop_KeyboardDelay		Keyboard delay	
Prop_KeyboardSpeed		Key repetition rate	

Values which do not exist in the chapter Setup, are disregarded.

If, for example, the value 'Info1' does not exist, it will not be modified nor deleted. To delete 'Info1' in this case, it must defined by an empty value field (Info=).

You can add printers as many as you like. Each printer requires a chapter !PRINTER!#.

Please note:

- The printer sections (#) must be numbered consecutively starting with 1.
- The client is always assigned the printers which are defined here.
- If no printer chapters exist, no printers are entered and existing printers, if any, are deleted.

1.1.5 Delete a Client (Type=1)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
MAC	001122334455	The MAC address of this client: The client with this MAC address is being deletet from Scout.	x or
Name	Client1	Name of the client: The client with this name is deleted from Scout.	x

The chapter [Setup] should contain either the entry **MAC** or the entry **Name.**

If both chapters exist, the MAC entry prevails.

1.1.6 Add an Organisation Unit (OU) (Type=2)

Chapter/Entry	Value/ Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, which is to be inserted into this OU. If an OU is to be created in the root directory, FQOU must be specified by '/' .	x
ForceDBWrite	0 | 1	Specifies whether the read-in setup is written to the database, even if no modifications were found..	
Name	Client1	The name of the OU, which is to be added.	x
Info1		Information about this OU	
Info2		Information about this OU	
Info3		In Information about this OU	
UseParentAppDefaults		Specifies whether the application default values having been defined for this OU are to be used.	
UseParentApps		Specifies whether this OU is to use parent applications.	
UseParentScreenSettings		Specifies whether the screen settings of the parent OU are to be used. If this value is 0, Prop_Resolution and Prop_Frequency and Prop_ColorDepth must be set.	
Prop_Resolution	1024x768	The screen resolution (as property)	
Prop_Frequency	60	The screen frequency (as property)	
Prop_ColorDepth	16	The color depth (as property)	
IniEntryFile# IniEntrySection# IniEntryKey# IniEntryValue#		Setting of an advanced file entry. All four entries must be set with a number (whereby # from 1 to 255) **Should no entries be defined, already existing entries are being deleted.**	
FileSrc# FileDst#		Setting of files which are to be transferred. Both entries must be set (whereby # from 1 to 255) **Should no entries be defined, already existing entries are being deleted.**	
DefaultPrinter			
DefaultPrinterType			
DriverNames			
LastApplicationAction	0	Specifies which action is to be initiated after the last running application at the client will have been closed.	
LastApplicationActionDelay	0	Specifies the period of time in after which the above mentioned action is to be performed.	
UseParentPeerIP	0 | 1	Specifies whether the Peer-IP settings of the parent OU are to be used.	
UsePeerIP	0	Specifies whether the alternative (peer) IP-address of the client is to be used.	

Chapter/Entry	Value/ Example	Description	mandatory
UseParentPartitions	0 | 1	Specifies whether the partition settings of the parent OU are to be used.	
RootPartitionSize	128		
HomePartitionSize	0		
SwapPartitionSize	2		
WOLServer		Defines the WakeOnLan-Server.	
UseParentMousKBSettings	0 | 1	Specifies whether the mouse and keyboard settings of the parent OU are to be used.	
Prop_Emulate3Buttons	Empty or Emulate 3DButtons	Specifies whether 3 mouse buttons are to be emulated.	
Prop_multiClickTime		Double click speed	
Prop_Buttons		Specifies the mouse type auto : automatic detection none : NoMouse 2 : Two button mouse 3 : Three button mouse 5 : Wheel mouse	
Prop_PointerSpeed		Mouse pointer speed	
Prop_XkbLayout		Specifies the keyboard language	
Prop_Numlock		Initial numlock state	
Prop_DontVTSwitch		Specifies whether Ctrl Alt F1…F12 should be enabled to switch beetween the consoles.	
Prop_DeadKeys		Specifies whether dead keys should be enabled.	
Prop_KeyboardDelay		Keyboard delay	
Prop_KeyboardSpeed		Key repetition rate	

1.1.7 Delete an Organisation Unit (OU) (Type=3)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU which contains the OU to be deleted.	x
Name	OU3	The name of the OU which is to be deleted.	x

1.1.8 Add / Modify a Setup (Type=4)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, which setup data are to be added to or modified. This entry deletes the value 'Use parent' and creates an individual setup for this OU.	x

Chapter/Entry	Value/Example	Description	mandatory
		The setup data of the next higher level are copied and the values of this file are then entered. In order to modify the values of the base configuration, please enter '/' .	
Network			
Timeout	#sec	Timeout in seconds, after which the attempt to connect to the manager is cancelled.	
DHCPTimeout	#sec	Specifies the timeout in seconds, after which the DHCP client cancels a DHCP request.	
BootMode	DHCP | BOOTP | off	Specifies whether the client gets its network data via DHCP, BOOTP or enters the data individually.	
IPAddr	192.168.10.21	IP address of the client	
Netmask	255.255.255.0	Network mask of the client	
Hostname	myclient	Host name of the client	
Domain	mycompany.com	domain name of the client	
Broadcast		Broadcast address of the client	
NBDomain	DOM01	Netbios domain name of the client	
Dot1x	true | false	Specifies whether the client is to use the IEEE 802.1 authorization protocol.	
Dot1xTimeout	#sec	Defines the timeout in seconds for the usage of the IEEE 802.1 authorization protocol.	
UseLease	true | false	Defines, whether the client is to pay regard to an existing Lease file, if the DHCP request should fail.	
DnsServer1	192.168.10.2	IP address of the first DNS server.	
Gateway1	192.168.10.1	IP address of the first gateway.	
HostAddr1	192.168.10.22	If a host table is required, the value pairs are defined here.	
HostName1	myclient22		
Desktop			
LANG	de_DE		
ShowTaskbar	true | false	Specifies whether the taskbar is to be displayed.	
TaskbarAlwaysOnTop	true | false	Specifies whether the taskbar is to be always on top.	
TaskbarAutoHide	true | false	Specifies whether the taskbar is to be hidden automatically.	
TaskbarShowClock	true | false	Specifies whether the clock is to be shown in the taskbar.	
AutostartStarter	true | false	Specifies whether the starter is to be opened automatically.	

Chapter/Entry	Value/Example	Description	mandatory
StarterDelay	#sec	Specifies the delay in seconds after which the starter is to be opened.	
Workspace	#	Specifies the number of the workspaces to be shown.	
NextFocusKey	Down | Tab	Specifies the shortkey for switching between active applications. **Down**: Use Ctrl-Alt-Down to switch between the applications. **Tab**: Ise Alt-Tab to switch between applications.	
DesktopBackColor	#FF00FF	Specifies the background color of the client desktop. The format is a RGB value. #rrggbb : whereby rr represents the red value, gg the green value and bb the blue value.	
Theme	greenCrux blueCrux Keramik SilverXP TrueCurve WinClassic XP	Specifies the desktop theme to be used.	
BackgroundImage	background.jpg	The file name of a background image	
TaskbarOption	0x07	Specifies whether the applets of Quick Setup are to be shown in the taskbar. No Applet : 0x0 MouseKeyboard : 0x1 Multimedia : 0x2 USB : 0x4 The values are allocated by 'or'.	
TimeZone	Berlin GMT+1	Specifies the time zone: (All 252 entries which exist in the Scout console in Setup > Desktop) e.g.: Belfast GMT Berlin GMT+1 Dubai GMT+4 Dublin GMT London GMT Los_Angeles GMT-8 Vancouver GMT-8 Yekaterinburg GMT+6 Zurich GMT+1	
TimeServer1		Name or IP address of the time server	
TimeServerProtocol1	RFC686 | NTP	Specifies the time server protocol Unix-time server : RFC686 Windows time server: NTP	

Chapter/Entry	Value/Example	Description	mandatory
Screen			
Resolution	1024x768	Screen resolution	
Frequency	60	Screen frequency	
ColorDepth	16	Color depth of the screen	
PrependUserPath	true | false	Specifies whether defined font paths are to be evaluated prior to the system paths.	
FontPath%d		Font path	
ScreenSaverOff	true | false	Specifies whether the power-save mode of the screen (screensaver) is to be switched on.	
StandbyTime	#min	Specifies the time in minutes after which the power-save mode is to be switched on.	
BackingStore	on | off	Optimization for graphical presentation at the client.	
UseScreenSaver	true | false	Specifies whether the screensaver is to be used.	
XAutoLockDelay	#min	Specifies the period of time in minutes, after which the screensaver is to be activated.	
XAutoLockPwd	empty or $ELUXPASSWORD	Entering the password $ELUXPASSWORD automatically uses the password of the ADS authorization. Otherwise the field must remain empty.	
Rotate	0 | 90 | 180 | 270	Specifies the level of rotation of the screen contents.	
NoDDC	true | false	Specifies whether to value the screen information.	
Mouse/Keyboard			
XkbLayout	de	Specifies the keyboard language	
LeftHandMouse	empty or LeftHandMouse	Specifies whether to swap left and right hand mouse button.	
Emulate3Buttons	empty or Emulate3Buttons	Specifies whether 3 buttons are to be emulated.	
multiClickTime	500	Double click speed	
Buttons	auto	Specifies the mouse type auto : automatic detection none : NoMouse 2 : Two button mouse 3 : Three button mouse 5 : Wheel mouse	
Numlock	on | off	Initial numlock state	
DontVTSwitch	true | false	Specifies whether Ctrl Alt F1…F12 should be enabled to switch between the consoles.	
DeadKeys	on | off	Specifies whether dead keys should be enabled.	
PointerSpeed		Mouse pointer speed	
KeyboardDelay		Keyboard delay	

Chapter/Entry	Value/Example	Description	mandatory
KeyboardSpeed		Key repetition rate	
Firmware			
ftphost		IP address of the server for the update.	
ftphostname		IP name of the server for the update	
ftppath		The path at the update server	
user		The user to be authorized at the server	
password		The password for authorization at the server	
idf	myimage.idf	The name of the image file	
UseHttp	true | false | file	Specifies whether the update is to be processed via HTTP, FTP or File.	
ProxyServer		IP address of the proxy server for the update	
ProxyServerName		IP name of the proxy server for the update	
ProxyServerPort		Port of the proxy server	
AutoCheckUpdate	true | false	Specifies whether it is to be checked for an update during the start of the client.	
CheckUpdateOnShutdown	true | false	Specifies whether it is to be checked for an update during the shutdown of the client.	
ConfirmUpdate	true | false	Specifies whether the client user is to confirm an update.	
Security			
LocalPassword		The password is used in the base configuration only.	
AllowX11Clients	true | false	Specifies whether other clients are allowed to open windows on this client.	
Mirror	true | false	Specifies whether the mirroring server is started.	
MirrorViewOnly	true | false	Specifies whether the mirroring client is authorized for viewing only..	
MirrorDialog	true | false	Specifies whether initiating a mirror session has to be confirmed at the client.	
MirrorDMCP	true | false	Specifies whether XDMCP sessions are to be mirrored, too.	
MirrorPassword		Password for the mirroring process.	
AuthType		Type of authorization	
AuthServer		Authorization server	
AuthBase			
AuthVersion			
AuthDomain			
AuthPDC			
AuthBDC			
AuthBindDN			
AuthBindPW			

Chapter/Entry	Value/Example	Description	mandatory
AuthDomainFieldStatus	0	Specifies how the domain field is to displayed at the client.	
AuthShowLastUser	0	Specifies whether the user, who has logged in last, is to be shown at the client.	
UseServerProfile	true | false	Specifies whether the client data are to be saved on a server.	
ServerProfilePath		The path in which the server profile is stored.	
Check	none | forever | boot	Specifies when to check the SmartCard. **none** : No check **boot** : SmartCard is checked for during the boot procedure of the client **forever** : The SmartCard must always be available.	
LockedFields		Bit string for the fields which are to be locked at the client.	
Multimedia			
MasterVolume	49	Master volume	
PCMVolume	24	PCM volume	
XDMCPSound	true | false	Specifies whether sound is to be available in XDMCP sessions.	
MicVolume	80	The microphone volume	
MicMute	true	The muting of the microphone	
Drives common settings			
Home		The Home drive	
[!NETDRIVE!#]			
Directory		Specifies which directory provides the access to the data.	
Server	servername	Server, where the network drive is shared.	
User		User for the authorisation at the server	
Password		Password for the authorisation at the server.	
Share	\\server\share	Share name at the server	
UseKerberos	true | false	Specifies whether authorization has to be done by certificate. (Requires that the security settings define ADS as authorization method.)	
Printer common settings			
LprTimeout	10	Timeout, after which a LPR-print is to be cancelled.	
port_usb	9101	Port number for the USB print	

Chapter/Entry	Value/Example	Description	mandatory
port_lp	9100	Port number for the LP print	
LpdService	true | false	Specifies whether the LPD Service is to initiated at the client.	
[!PRINTER!#]		whereby # : 1 to as many as you like	
Name	PR-Lexmark		x
Type	net | par | ser | usb	The printer type: net : network printer par : printer at parallel port usb : printer at the USB port ser : printer at a serial port	x
Address	printer1.my.org	The network address of the printer (only for type=net, then mandatory)	
Queue	queue1	The name of the printer queue (only for type=net, then mandatory)	
TpClass		The name of the ThinPrint class	
Default	true | false	Specifies whether this printer is to be the default printer.	
Com	0	The number of the COM port which is to be printed on. Always set to 0	
Baud	0 | 1200 | 2400 | 4800 | 9600 | 19200 | 38400	The baud rate: If set to 0, the value from the hardware settings is used.	
TextFilter	true | false	Specifies whether a text filter is to be used.	
PclFilter	true | false	Specifies whether a PCL filter is to be used.	
Driver		Specifies whether the driver name for this printer.	
Tp	true | false	Specifies whether the printer is to be defined as ThinPrint printer.	
Hardware			
Device	none | intern | extern | usb	Specifies the type of the Smart-Card devices.	
ScreenLayout	1-4	Specifies the number of monitors to be used.	
RamdiskPercent		Specifies the size of the RAM disk at the client (in %).	
USB	true | false	Specifies whether USB mass storage devices are to be allowed for use.	
USBUserInfo	true | false	Specifies whether the user is to be informed about USB mass storage devices when being mounted or dismounted.	
Media	ethernet | adsl | isdn | modem | tokenring | wavelan	Specifies which network media the client is to use for connection.	
Speed	auto | 100HD | 100FD | 10 HD |	Network speed in case of setting 'ethernet' or 'adsl'	

Chapter/Entry	Value/Example	Description	mandatory
	10FD | 1000 | BNC | AUI		
	4 | 16 | 100 auto	Network speed in case of 'tokenring'	
	1200 2400 3600 4800 9600 14400 19200 28200 38400 57600 115200	Network speed in case of 'modem'	
ESSID			
Channel			
WPAMode		Mode in case of setting 'wavelan' WEP : WEP WPA : WPA (PSK) WPA2 : WPA2 (PSK) WPA2-EAP : WPA2 (EAP) IEEE8021X : IEE802.1X (LEAP)	
WPAIdentity			
NetworkName			
Mode	auto	Tokenring mode	
[Com#Settings]		Setting of the Com ports whereby # can be 1 to 4	
Speed	9600	1200,2400,4800,9600,19200,38400,57600, 115200	
Parity	none	none, even, odd	
FlowControl	xonxoff	none, rtscts, xonxoff, both	
BitWidth	8	5, 6, 7, 8	
StopBits	1	1 , 2	
Diagnosis			
LogLevel	0-6		
DiagURL	ftp://ftpserver.de		

1.1.9 Delete a Setup (Type=5)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, whose setup data are to be deleted.	x
		Thus the value 'Use parent' is being set and the	

Chapter/Entry	Value/Example	Description	mandatory
		existing setup is deleted.	
		The setup data of the base configuration cannot be deleted.	

1.1.10 Add / Modify an Application (Type=6)

Chapter/Entry	Value/ Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, which applications are to be added to. To add or modifiy an application at the top level application OU please enter '/' .	x
Name	MyApp	Name of the application	x
AutoStart	true | false	Specifies whether the application is to be started automatically.	
AutostartDelay	#sec	Specifies the dely in seconds, after which the application is to started automatically.	
TM	true | false	Specifies whether the application is to run in terminal mode.	
Roaming	true | false	Enables the roaming when using a card reader.	
AppOnDesktop	0 | 1	Specifies whether a desktop icon is to be created at the client.	
Type	#type	Type of application, whereby #type can be: 0 : Emulation 3 : Browser 4 : ICA 5 : Local Shell 7 : Sap-Gui 10 : RDP 13 : PNAgent 15 : Virtual desktop	x
ICAServer		Name of the XenApp server	
ICAUser		Name of the ICA user	
ICAPass		Password of the ICA user	
ICADomain			
ICAApplication	appl1	The application which is to be run.	
	#pubappl1	In case of a published application the application name entered must begin with #.	
ICAWorkDir		The work directory for the application.	
ICAResolutionDefault	0 | 1	The general / default Citrix settings are to be used for the resolution.	
ICAResolution	0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8	0 : 640x480 1 : 800x600 2 : 1024x768 3 : 1280x1024	

Chapter/Entry	Value/ Example	Description	mandatory

		4 : 1600x1200
		5 : User-defined size:
		    ICAWidth and ICAHeight must be set.
		
		6 : User-defined percentage
		    ICAPercent must be set
		
		7 : Full Screen
		8 : Seamless	

ICAWidth	1280	Width of the ICA session	
ICAHeight	1024	Height of the ICA session	
ICAPercent	75	Screen resolution in percent	
ICAColorsDefault	0 | 1	The general Citrix settings are to be used for color depth.	
ICAColors	0 | 1 | 2 | 3	Specifies the color depth: 0: 16 colors 1: 256 colors 2: 16 Bit colors 3: 24 Bit colors	
ICAColorMapDefault	0 | 1	The general Citrix settings are to be used for mapping the colors in case of 256 colors.	
ICAColorMap	0 | 1	Specifies how to map the color table in case of 256 colors. 0 : common (approximate colors) 1 : private (precise colors)	
ICASound			
ICACrypt	0 | 1 | 2 | 3 | 4	0 : Basic 1 : RC5 (128 bit - Login Only) 2 : RC5 (40 bit) 3 :RC5 (56 bit) 4 : RC5 (128 bit)	
ICAAutologin	true | false	Specifies whether a higher encryption depth is to result in an automatic login.	
ICACompress	0 | 1	Specifies whether the transferred data are to be compressed.	
ICABitmapCache	0 | 1	Specifies whether a Bitmap Cache is to be created.	
ZLMouseMode	0 | 1 | 2	Specifies the values for the Latency Reduction. 0 : off 1 : on 2 : auto	
ZLKeyboardMode	0 | 1 | 2	Specifies the values for the Latency Reduction. 0 : off 1 : on 2 : auto	
ICAServerLocationDefault		The common Citrix settings are to be used for the server locations.	
BrowserProtocol	0 | 1	Specifies the browser protocol which is to be used by the ICA clients to search for the server rsp. the published applications. 0 : HTTPonTCP	

Chapter/Entry	Value/ Example	Description	mandatory
		1 : UDP	
BrowserAddress1	mybrowser1	Browser addresses	
BrowserAddress2	mybrowser2		
BrowserAddress3	mybrowser3		
BrowserAddress4	mybrowser4		
BrowserAddress5	mybrowser5		
DisableCtrlAltDel	true | false	Specifies whether the Citrix login dialog requests a PIN or username/password. This value is set in case of SmartCard operation.	

1.1.11 Delete an Application (Type=7)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU, whose setup data are to be deleted.	
		Thus the value 'Use parent' is being set and the existing setup is deleted.	x
		The setup data of the base configuration cannot be deleted.	
Name	MyApp	Name of the application An asterisk '*' as name will delete all the applications of this OU	x

1.1.12 Add / Modify an Application Default Setting (Type=8)

Chapter/Entry	Value/ Example	Description	mandatory
[Setup]			✓
FQOUName	/OU1/OU2	The fully qualified name of the OU, which the standards are to be defined for.	✓
TransferDefaults		Specifies whether these values are to be transfereed to the client.	
ClientNameTemplate	$ICAUSER	This is used to set the client name. The variables $ICAUSER, $ICADOMAIN and $ICAAPPLICATION may be used.	
BrowserProtocol	HTTPonTCP UDP	Specifies the browser protocol.	
SSLEnable	On | Off	Specifies the browser protocol (SSL/TLS + HTTPS)	

Chapter/Entry	Value/ Example	Description	mandatory
HttpBrowserAddress		Browser addresses	
HttpBrowserAddress2			
HttpBrowserAddress3			
HttpBrowserAddress4			
HttpBrowserAddress5			
HttpBrowserAddress6			
HttpBrowserAddress7			
HttpBrowserAddress8			
HttpBrowserAddress9			
HttpBrowserAddress10			
HttpBrowserAddress11			
HttpBrowserAddress12			
HttpBrowserAddress13			
HttpBrowserAddress14			
HttpBrowserAddress15			
TcpBrowserAddress			
TcpBrowserAddress2			
TcpBrowserAddress3			
TcpBrowserAddress4			
TcpBrowserAddress5			
TcpBrowserAddress6			
TcpBrowserAddress7			
TcpBrowserAddress8			
TcpBrowserAddress9			
TcpBrowserAddress10			
TcpBrowserAddress11			
TcpBrowserAddress12			
TcpBrowserAddress13			
TcpBrowserAddress14			
TcpBrowserAddress15			
DisableSound		Specifies whether the Citrix client is to play sound.	
ClientManagement	On | Off	Specifies whether an automatic update of the client is to be allowed.	
ClientDrive	On | Off	Specifies whether a Client drive assignment is to be allowed.	
DrivePathA	/misc/floppy	The name of the path which is to be assigned.	
DriveEnabledA	0 | 1	0 : Drive is not assigned 1 : Drive is assigned	

Chapter/Entry	Value/ Example	Description	mandatory
DriveReadAccessA	0 | 1 | 2	0 : Read access allowed	
		1 : Read access denied	
		2 : Read access to be confirmed in first session	
DriveWriteAccessA	0 | 1 | 2	0 : Write access allowed	
		1 : Write access denied	
		2 : Write access to be confirmed in first session	
DrivePathB			
DriveEnabledB	0 | 1		
DriveReadAccessB	0 | 1 | 2		
DriveWriteAccessB	0 | 1 | 2		
DrivePathC	/misc/cdrom		
DriveEnabledC	0 | 1		
DriveReadAccessC	0 | 1 | 2		
DriveWriteAccessC	0 | 1 | 2		
DrivePathD	/misc/usb0		
DriveEnabledD	0 | 1		
DriveReadAccessD	0 | 1 | 2		
DriveWriteAccessD	0 | 1 | 2		
DrivePathE			
DriveEnabledE	0 | 1		
DriveReadAccessE	0 | 1 | 2		
DriveWriteAccessE	0 | 1 | 2		
DrivePathF			
DriveEnabledF	0 | 1		
DriveReadAccessF	0 | 1 | 2		
DriveWriteAccessF	0 | 1 | 2		
DrivePathG			
DriveEnabledG	0 | 1		
DriveReadAccessG	0 | 1 | 2		
DriveWriteAccessG	0 | 1 | 2		
DrivePathH			
DriveEnabledH	0 | 1		
DriveReadAccessH	0 | 1 | 2		
DriveWriteAccessH	0 | 1 | 2		
DrivePathI			
DriveEnabledI	0 | 1		
DriveReadAccessI	0 | 1 | 2		
DriveWriteAccessI	0 | 1 | 2		
DrivePathJ			
DriveEnabledJ	0 | 1		

Chapter/Entry	Value/ Example	Description	mandatory
DriveReadAccessJ	0 | 1 | 2		
DriveWriteAccessJ	0 | 1 | 2		
DrivePathK			
DriveEnabledK	0 | 1		
DriveReadAccessK	0 | 1 | 2		
DriveWriteAccessK	0 | 1 | 2		
DrivePathL			
DriveEnabledL	0 | 1		
DriveReadAccessL	0 | 1 | 2		
DriveWriteAccessL	0 | 1 | 2		
DrivePathM			
DriveEnabledM	0 | 1		
DriveReadAccessM	0 | 1 | 2		
DriveWriteAccessM	0 | 1 | 2		
DrivePathN			
DriveEnabledN	0 | 1		
DriveReadAccessN	0 | 1 | 2		
DriveWriteAccessN	0 | 1 | 2		
DrivePathO			
DriveEnabledO	0 | 1		
DriveReadAccessO	0 | 1 | 2		
DriveWriteAccessO	0 | 1 | 2		
DrivePathP			
DriveEnabledP	0 | 1		
DriveReadAccessP	0 | 1 | 2		
DriveWriteAccessP	0 | 1 | 2		
DrivePathQ			
DriveEnabledQ	0 | 1		
DriveReadAccessQ	0 | 1 | 2		
DriveWriteAccessAQ	0 | 1 | 2		
DrivePathR			
DriveEnabledR	0 | 1		
DriveReadAccessR	0 | 1 | 2		
DriveWriteAccessR	0 | 1 | 2		
DrivePathS			
DriveEnabledS	0 | 1		
DriveReadAccessS	0 | 1 | 2		
DriveWriteAccessS	0 | 1 | 2		
DrivePathT			
DriveEnabledT	0 | 1		
DriveReadAccessT	0 | 1 | 2		
DriveWriteAccessT	0 | 1 | 2		

Chapter/Entry	Value/ Example	Description	mandatory
DrivePathU			
DriveEnabledU	0 | 1		
DriveReadAccessU	0 | 1 | 2		
DriveWriteAccessU	0 | 1 | 2		
DrivePathV			
DriveEnabledV	0 | 1		
DriveReadAccessV	0 | 1 | 2		
DriveWriteAccessV	0 | 1 | 2		
DrivePathW			
DriveEnabledW	0 | 1		
DriveReadAccessW	0 | 1 | 2		
DriveWriteAccessW	0 | 1 | 2		
DrivePathX			
DriveEnabledX	0 | 1		
DriveReadAccessX	0 | 1 | 2		
DriveWriteAccessX	0 | 1 | 2		
DrivePathY			
DriveEnabledY	0 | 1		
DriveReadAccessY	0 | 1 | 2		
DriveWriteAccessY	0 | 1 | 2		
DrivePathZ			
DriveEnabledZ	0 | 1		
DriveReadAccessZ	0 | 1 | 2		
DriveWriteAccessZ	0 | 1 | 2		
COM1	/dev/ttyS0	Allocation of a client to a COM port	
COM2		Allocation of a client to a COM port	
COM3		Allocation of a client to a COM port	
COM4		Allocation of a client to a COM port	
COM5		Allocation of a client to a COM port	
TransportReconnectEnabled	True | False	Specifies whether the connection is to be retried after a connection break.	
TransportReconnectRetries	#retries	Number of connections retries.	
TransportReconnectDelay	#delay	Number of seconds until next connection retry.	
Hotkey1Char		Definition of the hot keys	
Hotkey2Char			
Hotkey3Char			
Hotkey4Char			
Hotkey5Char			
Hotkey6Char			
Hotkey7Char			
Hotkey8Char			
Hotkey9Char			

Chapter/Entry	Value/ Example	Description	mandatory
Hotkey10Char			
Hotkey11Char			
Hotkey12Char			
Hotkey13Char			
Hotkey14Char			
Hotkey15Char			
Hotkey1Shift			
Hotkey2Shift			
Hotkey3Shift			
Hotkey4Shift			
Hotkey5Shift			
Hotkey6Shift			
Hotkey7Shift			
Hotkey8Shift			
Hotkey9Shift			
Hotkey10Shift			
Hotkey11Shift			
Hotkey12Shift			
Hotkey13Shift			
Hotkey14Shift			
Hotkey15Shift			
DesiredColor	1 | 2 | 4 | 8	1 : 16 colors 2 : 256 colors 4 : 16-Bit colors 8 : 24-Bit colors	
DesiredHRES		Horizontal resolution	
DesiredVRES		Vertical resolution	
ScreenPercent		Resolution percentage of screen	
ApproximateColors	Yes | No	Color assignment with 256 colors Yes : Common (approximate colors) No : Private (precise colors)	
TransparentKeyPassthrough	Local | FullScreenOnly | Remote	Specifies how local keyboard entries are transferred to the server. Local : The keyboard entries are evaluated by the local system. FullScreenOnly: During full-screen sessions the keyboard entries are evaluated by the server only. Remote: The keyboard entries are evaluated by the server only.	
KeyPassthroughEscapeChar	Shift	Shortkey which terminates the evaluation of the keyboard by the server only.	
KeyPassthroughEscapeShift	F1		
PersistentCachePath	/tmp	The path in which the cache data are to be stored.	
PersistentCacheSize	0	Maximum cache size in KBytes	
PersistentCachePercent	20	Maximum cache size in percent	
PersistentCacheMinBitmap	2048	The minimum bitmap size in bytes which is to	

Chapter/Entry	Value/ Example	Description	mandatory
		be stored.	
TcpGroupName1	maingroup	Specifies the name of the primary server group.	
TcpGroupName2	secure1	Specifies the name of the servergroup security list 1..	
TcpGroupName3	secure2	Specifies whether the name of the server group security list 2.	
UseAlternateAddress	0 | 1	Specifies whether an alternative address is to be used for the firewall connections.	
ProxyHost	proxy:8080	Name and port of the proxy for secure connections	
ProxyType	Socks | Secure | Wpad	Socks : SOCKS Secure : Secure (HTTPS) Wpad : Automatic proxy detection	
AllowAudioInput	False | True	Specifies whether audio input data are to be allowed.	

1.1.13 Delete Default Settings (Type=9)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			✓
FQOUName	/OU1/OU2	The fully qualified name of the OU, whose setup data are to be deleted. Thus the value 'Use parent' is being set and the existing setup is deleted.	✓

1.1.14 Set Advanced Options (Type=10)

Chapter/Entry	Value/ Example	Description	mandatory
[Setup]			✓
DiscoverPingTime	10	Ping time in which clients can be detected.	
DiscoverCollectTime	30		
UpdateMaxAtOnce	10		
UpdateConnectTimeout	2		
ManageOnlyLockedFields	0		
DoSmartSrv	0		
SmartSrvTimeout	30		
ScoutSrvGroup	0		
RenameExistingDevice	1		

Chapter/Entry	Value/Example	Description	mandatory
AllowDynamicHostnames	0		
DeactivateNewDevices	0		
WOLWithUDP	0		
WOLWithIpAddress	0		
DebugLevel	1		
AllowDynamicGroupID	1		
CheckNetCrossing	0		
DiscoverOnStart	0		
PrinterImportTime	0		
UseClassicLogin	1		
Password			
RecoverURL			
WolServer			
LastApplicationAction	0		
LastApplicationActionDelay	0		
UsePeerIP	0		
FirstContactAction	0		
RootPartitionSize	128		
HomePartitionSize	0		
SwapPartitionSize	2		
ReceiveTimeout	5		
UpdateResponseTimeout	10		
RecoverUsePartitionData	0		
RecoverAskUser	1		
RecoverProxy			
RecoverPort	0		

1.1.15 Rename an Application (Type=11)

Chapter/Entry	Value/Example	Description	mandatory
[Setup]			x
FQOUName	/OU1/OU2	The fully qualified name of the OU which contains the application.	x
Name		Name of the application	x
NewName		New name of the application	x

1.2 Delete List of Devices

This program can be used to delete a list of devices which exists as a text file with one device in every line of the file. Characters permitted are the device name (with name of OU, if required) or a MAC address.

Example:

```
Devicename1
Earth/Europe/Germany/Karlsruhe/UniCon/Devicename2
00018077C413
```

Different from the general command syntax of the program, deleting a list of devices is performed by the following call:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -
    deletedevices File
```

Username, **Password** und **Domain** are required to logon to the server, **File** means the file name of the list of the devices to be deleted.

1.3 Data Import and Export

There are two optional formats for the import and export of data:

- CSV files (only for the import of device lists)
- XML files

1.3.1 CSV Import

This program can import device lists in CSV format.
Differing from the general command syntax of the program the import call is:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -
    import CSV-File
```

Username, **Password** and **Domain** are required for the logon to the server. **CSV-File** is the file name of the device list to be imported.

1.3.2 XML Import

The program can import OU configurations, OU properties, device configurations and properties, applications and application lists in the XML format.

Differing from the general command syntax of the program the import of an OU or a device is executed by the following syntax:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -import
    (-ou | -device) [-setup] [-ignorefilter] [-dontcreate] [-
    saveinheritance] ([-FQName FQName] | [-destlist File]) File
```

Username, **Password** and **Domain** are required to logon to the server.

By entering **-ou** the data of an organisation unit are imported, by entering **-device** the data of a device are imported.
Entering **-setup** imports a configuration, otherwise the properties.

Entering **-ignorefilter** ignores an import filter contained in the file.

Entering **-dontcreate** imports only data if the given organisation unit or the given device exists.

Entering **-saveinheritance** imports only data, if the the given organisation unit or the given device have not the active option "Use parent" in their configuration. This option only affects the import of configurations.

Entering **FQName** the fully qualified name of the OU or the device will be used (e.g. Karlsruhe/UniCon/OU1). IF this entry does not exist nor the option **–destlist**, the name contained in the file will be used.

For the base configuration and the advanced options the FQName „/" is used.

Entering **-destlist**, the corresponding text file must contain a fully qualified OU name or device name in each line. Then the data will be imported for each OU or. each device. If a device configuration is to be imported, the option **-dontcreate** will be set implicitly.

The import of an application or an application list is performed by the syntax:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -export
     (-app|-apps) -FQName FQName File
```

Entering **-app** imports an application, entering -**apps** imports an application list..

If **FQName** is given, the fully qualified name will be used for the corresponding OU.

For global applications the FQName „/" is used.

1.3.3 XML Export

The program can export OU configurations, OU properties, device configurations and properties, applications and application lists in the XML format.

Differing from the general command syntax of the program the export of an OU or a device is performed by the following syntax:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -export
     (-ou|-device) [-setup] -FQName FQName File
```

Username, **Password** and **Domain** are required to logon at the server.

By entering **-ou** the data of an OU are exported, by entering **-device** the data of a device are exported.
If **-setup** has been entered, a configuration is exported, otherwise the properties are exported.

FQName is the fully qualified name of the OU or the device.

For the base configuration and the advanced options the FQName „/" is used.

The export of an application or an application list is performed by the call:

```
scmd -u[ser] Username -p[assword] Password [-d[omain] Domain] -export
     (-app|-apps) -FQName FQName File
```

Entering **-app** exports an application, entering -**apps** exports an application list..

In **FQName** the fully qualified name of the application of the OU is to be entered.

For global applications the FQName „/" is used.

1.4 Schedule Commands

The program allows to schedule commands.

1.4.1 Send Message

The program enables to send a message to a selected device or to the devices of a selected organisation unit.
Differing from the general command syntax of the program the sending of a message is performed by the following call:

```
scmd  -u[ser] Username -p[assword] Password [-d[omain] Domain]
      -sendmsg -msg Message -to FQName [-subous] [-visible Seconds]
      SchedulerSettings
```

Username, **Password** and **Domain** are required to logon to the server.

The parameter **msg** specifies the message text, the parameter **to** defines the fully qualified name of the organisation unit or the device which is to receive the message.

If **subous** is specified and the target is an organisation unit, the message will also be sent to all sub-organisation units.

If **visible** is specified, the message will be hidden automatically after the defined period of time.

As **SchedulerSettings** the following call parameters apply:

> -now
>
> or   -once -at Date Time
>
> or   -every {-day Day {Day}|-sun|-mon|-tue|-wed|-thu|-fri|-sat} -at Time

If **now** is given, the message is sent immediately.

If *once* is given, the message will sent at the specified point of time. The formats for the date are: *dd.mm.yy[yy]* or *mm-dd-yy[yy]*, the format for time: *hh:mm* .

If *every* is given, the message will be sent in iteration at the specified points of time.

Example:

```
scmd -sendmsg -msg "Hello" -to /TestOU -every -mon -day 1 15 -at 9:00
```

sends the message "Hello" every Monday and at the 1st and 15th every month to all devices of the organisation unit TestOU.

1.5 Console Communication

The program allows to send messages and commands to console instances.

1.5.1 Close Console

The program can send a command to close selected console instances..

Differing from the general command syntax of the program, sending this command is performed by the following call:

```
scmd  -u[ser] Username -p[assword] Password [-d[omain] Domain]
      -icc-closeconsole [-timeout Seconds] [-displaytime Seconds] [-
      cancancel] (-toall | -to Domain\User {Domain\User})
```

Username, *Password* and *Domain* are required to logon to the server.

If *displaytime* is specified, closing the receiving console will be shown by a dialog. If the period of time specified is greater 0, the dialog will be automatically closed after the given period of time has expired.

If *cancancel* is specified, the user of the receiving console can prevent the closing.

if *timeout* is specified, the closing of the console will be withheld until the specified period of time has expired. Without this parameter the program closes the consoles immediately.

if *toall* is given, all active consoles are closed. Otherwise a list of consoles must be defined in the format *Domain\User* and entered with the keyword *to.*

1.5.2 Send Message

The program can send a message to selected console instances.

Differing from the general command syntax of the program, sending this command is performed by the following call:

```
scmd  -u[ser] Username -p[assword] Password [-d[omain] Domain]
      -icc-sendmsg [-validfrom Date Time] [-validto Date Time]
      [-displaytime Seconds] [-cancancel] -msg Message
      (-toall | -to Domain\\User {Domain\\User})
```

Username, *Password* and *Domain* are required to logon to the server.

If *validfrom* and / or *validto* is specified, a time limit can be set for the validity of the command. The date must be in the format *dd.mm.yy[yy]* or *mm-dd-yy[yy]*, the format for time must be: *hh:mm:ss*.

If *displaytime* is specified, the dialog showing the message text will be closed after the time specified has expired.

If *cancancel* is specified, the user of the the receiving console can close the message without confirming the receipt of the message.

The key word *msg* is followed by the message text to be displayed. Multiline messages can be created by inserting the character string „\n".

if *toall* is given, the message will be sent to all active consoles. Otherwise a list of consoles must be defined in the format *Domain\User* and entered with the keyword *to.*

1.5.3 Synchronise Console Instances with Active Directory

The program enables to synchronise all the console instances existing in the database with the Active Directory.

Differing from the general command syntax of the program, the synchronisation is performed by the following call:

```
scmd  -u[ser] Username -p[assword] Password [-d[omain] Domain]
      -icc-checkadusers (-deactivate | -delete)
```

Username, *Password* and *Domain* are required to logon to the server.

If *deactivate* is specified, all console instances, which have not been found in the Active Directory, will be deactivated.

If *delete* is specified, all console instances, which have not been found in the Active Directory, will be deleted from the database.

1.6 Accelerated Batch Mode

In order to execute a sequence of `scmd` commands in a batch file, this can be accelerated by starting the `scmd` program in a special mode.

It can be done by the call:

```
scmd –startbatch
```

The command starts an instance of program in the background. Any following `scmd` calls are then transferred to this instance and processed by this instance. Initial phases like establishing the connection to the database need to run only once, thus speeding up the process.

To close the background instance, please enter:

```
scmd –stopbatch
```

.

Example:

```
scmd –startbatch

scmd -u user -p pw –d domain -sendmsg –msg Text1 -to OU1 –once –at 12.12.2012 12:34

scmd -u user -p pw –d domain -sendmsg –msg Text2 -to OU2 –once –at 13.12.2012 12:34

scmd -u user -p pw –d domain -sendmsg –msg Text3 -to OU3 –once –at 14.12.2012 12:34

scmd -stopbatch
```

Please consider that the specified user including password and domain must be the same in all the calls, otherwise it will not be processed.

Further, only one background program can run at a time, i.e. parallel processing of several batch files is not possible.