



## triCerat ScrewDrivers vs ThinPrint

	<b>ScrewDrivers V4</b>	<b>Simplify Printing 4.5</b>	<b>ThinPrint 7.x</b>	<b>ThinPrint RDP Engine for TS</b>	<b>ScrewDrivers v4 for XP Remote Desktop</b>	<b>.print RDP Engine XP</b>
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### Features


Maximum Resolution	No limit, reads from native driver.	No limit, reads from native driver.	Up To 1600dpi	Up To 1600dpi	No limit, reads from native driver.	Up To 1600dpi
Colour and Grayscale	YES	YES	YES	YES	YES	YES
Compression of print stream	YES	YES	YES	NO	YES	YES
Print job streaming	YES	YES	YES	YES	YES	YES
MetaFile Format	TMF, triCerat Meta File	TMF, triCerat Meta File	EMF	EMF or PCL	TMF, triCerat Meta File	EMF
Font Embedding	YES	YES	NO, All fonts must be installed on client	NO, All fonts must be installed on client	YES	NO, All fonts must be installed on client
Customizable naming scheme	YES, 4 pre defined schemes and 1 custom name scheme which the administrator controls	YES, 4 pre defined schemes and 1 custom name scheme which the administrator controls	Yes 2 predefined, NO custom name available	NO	YES, 4 pre defined schemes and 1 custom name scheme which the administrator controls	NO
Control Bandwidth on Server and/Or Client	YES	YES	YES	NO	YES	NO
Printing bandwidth control per printer	NO	YES	YES	NO	NO	NO
Separate Printing bandwidth control for ICA and RDP	YES	YES	YES	NO	NO	NO
Set default client printer as default in server	YES	YES	YES	NO	YES	YES

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Default printer spoofing function (use other default printer in session)	YES	YES	YES	NO	YES	YES
Recapture default printer after X seconds	YES	YES	NO	NO	YES	NO
Change of default printer on client reflected on server without logout	YES	YES	NO	NO	YES	NO
Monitor Client for new printers and add to server during session	YES	YES	NO	NO	YES	NO
Monitor client for removed printers and remove from server during session	YES	YES	NO	NO	YES	NO
Multiple printer add methods	YES, add all, only default, add X printers, no printers	YES, add all, only default, add X printers, no printers	YES	NO, only default printer is added	YES, add all, only default, add X printers, no printers	NO, only default printer is added
Delete printers on disconnect / add on reconnect	YES	YES	YES, can be configured with autoconnect. (Scripts)	YES	YES	YES
Deny creation of clients local or network printers	YES	YES	NO	NO	YES	NO

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Allow second printer dialog for selection of manufacturer-specific printer features	YES, only on client based printers	YES, only on client based printers	no, preview of printout needs to be done first and then additional print selection	no, preview of printout needs to be done first and then additional print selection	YES, only on client based printers	no, preview of printout needs to be done first and then additional print selection
64bit server and client support	YES and mixed mode: Connect a 64bit client to a 32bit server or vice versa	YES and mixed mode: Connect a 64bit client to a 32bit server or vice versa	YES	YES	YES and mixed mode: Connect a 64bit client to a 32bit server or vice versa	YES
Postscript and PCL passthrough for applications that only output direct to the printer	YES	YES	NO	NO	YES	NO
Works in mixed farms of Citrix Presentation server	YES	YES	YES, dependant on licensing.	NO	NO	NO
Requires specific Citrix Client to work	NO	NO	NO	NO	NO	NO
Workflow integration	NO	NO	NO	NO	NO	NO
Auditing capabilities	NO	NO	NO	NO	NO	NO
Properties picked up from client	Mimic all standard Windows printer capabilities as: <ul style="list-style-type: none"> <li>o Bins/Trayso</li> <li>o Collateo</li> <li>o Color/Grayscaleo</li> <li>o Copieso</li> <li>o Duplexo</li> <li>o Extentso</li> <li>o Media Typeso</li> <li>o Orientationso</li> <li>o Paperso</li> <li>o NUPO</li> <li>o Resolutions (DPI and Indexed)o</li> <li>o Stapling (windows 2000 or later)o</li> <li>o Other Lowlevel capabilities</li> </ul>	Mimic all standard Windows printer capabilities as: <ul style="list-style-type: none"> <li>o Bins/Trayso</li> <li>o Collateo</li> <li>o Color/Grayscaleo</li> <li>o Copieso</li> <li>o Duplexo</li> <li>o Extentso</li> <li>o Media Typeso</li> <li>o Orientationso</li> <li>o Paperso</li> <li>o NUPO</li> <li>o Resolutions (DPI and Indexed)o</li> <li>o Stapling (windows 2000 or later)o</li> <li>o Other Lowlevel capabilities</li> </ul>	Bins, duplex, resolution, paper sizes. All other properties are template based	Bins	Mimic all standard Windows printer capabilities as: <ul style="list-style-type: none"> <li>o Bins/Trayso</li> <li>o Collateo</li> <li>o Color/Grayscaleo</li> <li>o Copieso</li> <li>o Duplexo</li> <li>o Extentso</li> <li>o Media Typeso</li> <li>o Orientationso</li> <li>o Paperso</li> <li>o NUPO</li> <li>o Resolutions (DPI and Indexed)o</li> <li>o Stapling (windows 2000 or later)o</li> <li>o Other Lowlevel capabilities</li> </ul>	Bins

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AutoCreation of printers	YES, seamless for users	YES, seamless for users	YES, with .print AutoConnect setup and configured	Yes but it will only create the default printer with limited functionality	YES, seamless for users	Yes but it will only create the default printer with limited functionality
Driver template based print solution	NO, AutoDriver™	NO, AutoDriver™	YES for most properties	YES	NO, AutoDriver™	YES
Active Directory Integration	NO	YES, gives you full control over assignments to user, groups, domains, IP Addresses etc	NO	NO	NO	NO
Client IP address printer assignment possible	NO	YES, on IP address or range	YES	NO	NO	NO
Assign settings based on Organizational unit	NO	YES	NO	NO	NO	NO
Supports Proximity printing	NO	YES	YES, complicated setup	NO	NO	NO
Watermark on printout	NO, 30 days trial with no watermark.	NO, 30 days trial with no watermark.	YES, makes print out unusable during eval	YES, makes print out unusable during eval	NO, 30 days trial with no watermark.	YES, makes print out unusable during eval
Login pop up screen during trial period	YES	YES	No	NO	YES	NO
Assign native network printers to users thru an easy drag and drop operation	NO	YES	NO	NO	NO	NO

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	ScrewDrivers V4	Simplify Printing 4.5	ThinPrint 7.x	ThinPrint RDP Engine for TS	ScrewDrivers v4 for XP Remote Desktop	.print RDP Engine XP
Assign native local RDP or ICA printers to users thru an easy drag and drop operation	NO	YES	NO	NO	NO	NO
Printer Classes	NO	NO	Used for mapping native drivers to printer	NO	NO	NO
Using PCL or PS as print format	NO	YES, when managing native drivers	YES, when managing native drivers	YES, for THIN Clients	NO	NO
Using PDF as print format	NO	NO	NO	NO	NP	NO
Dedicated Print Server support	NO	YES, any windows 2000/XP/2003/XPx64/2003x64 can act as a print server with no additional license required	YES, requires additional license for each print server	NO	NO	NO
THIN Client support for Windows CE and Linux	NO	YES, with Native Driver or dedicated Win32 Print server	YES, with Native Driver or dedicated Win32 Print server	YES, with native driver.	NO	NO
Works with clients behind firewall or NAT	YES, seamless thru virtual channel	YES, seamless thru virtual channel	YES, thru .print connection server	YES	YES	YES
Works with print servers behind NAT	NO	NO	YES, thru .print connection server	NO	NO	NO
SSL Encryption for print data over RDP/ICA	NO	NO	YES	NO	NO	NO


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### User Experience

Looks like normal windows print dialog when printing	YES	YES	YES	YES	YES	YES
Users can only see options that the printer has enabled	YES	YES	NO, users may be given options that they do not have on their printer. Increases support calls	NO, users may be given options that they do not have on their printer. Increases support calls	YES	NO, users may be given options that they do not have on their printer. Increases support calls
Only clients local default printer is connected	Configured from server component. (No printers, add all printers, only default, add X number of printers)	Totally configurable from Simplify Console	Configurable on client	YES	Configured from server component. (No printers, add all printers, only default, add X number of printers)	YES
Requires user training	NO	NO	YES, May be needed as a lot of decisions are put on the user	YES, May be needed as a lot of decisions are put on the user	NO	YES, May be needed as a lot of decisions are put on the user
Print Preview on Client	No, not needed as all printers are available in the session	No, not needed as all printers are available in the session	YES	YES, needed to print to other printer than default without changing default printer a logoff/login or disconnect/reconnect	No, not needed as all printers are available in the session	YES, needed to print to other printer than default without changing default printer a logoff/login or disconnect/reconnect

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Extended Printer Properties Support (Stapling, sorting etc)	YES	YES	YES, but will require a extra preview and the user will need to go thru additional steps before printing	YES, but will require a extra preview and the user will need to go thru additional steps before printing	YES	YES, but will require a extra preview and the user will need to go thru additional steps before printing
Login overhead	No, creation of printers is very quick. One or multiple printers are created within seconds.	No, creation of printers is very quick. One or multiple printers are created within seconds.	There is a lot of processes and login scripts launched.	NO	No, creation of printers is very quick. One or multiple printers are created within seconds.	NO

### Administration


Administrators can access users printers	YES	YES	YES	NO	YES	YES
Other users can access other users printers	NO	NO	NO	NO	NO	NO
Using normal print spooler functions	YES	YES	YES	YES	YES	YES
Configuration Ease	Very Easy	Easy	Very complex with 10 different components that administrators need to have knowledge about and configure	Easy	Very Easy	Easy
Administration Ease	Very Easy	Very easy with Simplify Console®	Complex as each server has to be configured separately, lots of places to change settings and confusing for first time users	Easy, but limited due to template driver	Very Easy	Easy, but limited due to template driver

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Adds additional services to the server making the print process more complex to troubleshoot and more likely to fail	No, functions as normal windows printing.	Adds a print service for dedicated print server support, but only for transferring the data. All rendering etc is done by the spooler.	No, functions as normal windows printing.	No, functions as normal windows printing.	No, functions as normal windows printing.	No, functions as normal windows printing.
Designed to be a fall back solution and only to be used when native driver is not available.	No, designed to replace printing in Terminal Server based environments.	No, designed to replace printing in Terminal Server based environments.	YES, for alot of functions native drivers will have to be used, especially when printing over TCPIP to dedicated print servers	NO, but only builds default printer in session adding more pressure to the user and also do not support all properties of the printer to be used from within the session.	No, designed to replace printing in Terminal Server based environments.	NO, but only builds default printer in session adding more pressure to the user and also do not support all properties of the printer to be used from within the session.
Requires inventory of printer models and drivers	No, printers are virtualized on server based on properties of native driver	No, printers are virtualized on server based on properties of native driver	YES, to be able to configure all templates the administrator needs to know what printers users could possibly have.	Depends on setup	No, printers are virtualized on server based on properties of native driver	NO
Requires printer name mapping	NO	NO	YES, this maps either native driver or template driver to printer	NO	NO	NO
Replication of Drivers Needed	NO	NO	Environment dependent	NO	NO	NO
Possible to combine with native drivers	YES	YES, also have functions to manage native drivers.	YES	YES	YES	YES

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Support for 2nd generation of printerdrivers	YES	YES	YES	YES	YES	YES
Need of maintaining a Driver Compatibility List	NO	NO	Depends on setup	Depends on setup	NO	NO
Printer Caching in server side user profile	NO	NO	NO	NO	NO	NO
Printer settings can be changed within session for store on client	NO	NO	NO	NO	NO	NO
Universal driver requires Win32 device at printer location	YES	YES	YES	YES	YES	YES

### Requirements


Supported Server OS	Windows 2000 or Windows 2003/2003x64 with Terminal Server enabled	Windows 2000 or Windows 2003/Windows 2003x64 with Terminal Server enabled	Windows 2000 w/SP4 and Windows 2003/Windows 2003x64 with Terminal Server enabled	Windows 2000 w/SP4 and Windows 2003/Windows 2003x64 with Terminal Server enabled	Windows XP Professional, Windows XP Professional x64	Windows XP Professional, Windows XP Professional x64
Supported Client Platforms	Windows 95, 98, ME, NT4, 2000, XP, 2003, XPx64, 2003x64, XP Embedded	Windows 95, 98, ME, NT4, 2000, XP, 2003, XPx64, 2003x64, XP Embedded	Windows 95, 98, ME, NT, 2000, XP, 2003 for Universal driver to be used	Windows 95, 98, ME, NT, 2000, XP, 2003 for Universal driver to be used	Windows 95, 98, ME, NT4, 2000, XP, 2003, XPx64, 2003x64, XP Embedded	Windows NT 4, 2000, 2003, XP, XP x64, 95, 98 or ME

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ThinClient Support for Universal Driver	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT
ThinClient Support with Native Drivers	NO	YES	YES	YES	NO	YES
Client Connection Protocol	RDP OR ICA	RDP OR ICA	RDP or ICA	RDP	RDP	RDP
Connection Client version supported	MS RDP Client and/or Citrix ICA 4 (or later) client	MS RDP Client and/or Citrix ICA 4 (or later) client	MS RDP client 5.2 or ICA client 4 or later	MS RDP client 5.2	MS RDP Client	MS RDP client 5.2
Vista RDP client support	YES	YES	no information	no information	YES	no information
Client installation required	YES	NO	NO	YES	Yes	YES
Windows Installer version 2.0	NO	NO	YES	YES	NO	YES
Recommended number of users per server	No recommended limit	No recommended limit	No more than 40 users per server recommended	No more than 40 users per server recommended	Limited to 1 due to operating system	Limited to 1 due to operating system


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## Licensing

License model	Licensed per MS Terminal Server	Licensed per MS Terminal Server	Licensed per Terminal Server, Print Server, connected client gateway, desktop engine and more	Licensed per Terminal Server	Per Windows XP Professional	Licensed per Windows XP client
Requires license for each terminal sever	YES	YES	YES	YES	Yes, on each windows XP client	Yes, on each windows XP client
Requires license for each dedicated print server	Not supported	NO, only Terminal Server is licensed	YES	Not supported	Not supported	Not supported
Central license manager for all servers	NO	YES, all licenses are stored in SQL database	NO	NO	NO	NO


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## INSTALLATION

Ease of Server installation	Very easy	Easy	Very complex with 10 different components that administrators need to have knowledge about and configure	Easy	Very Easy	Easy
Server Components	AutoDriver controlled from 1 configuration utility	AutoDriver, Print Server Agent and Simplify Console	Installation of: .print Server Engine; .print Server Engine for Terminal Services; Thin Print Auto-connect;ThinPrint Output Gateway;Virtual Channel Gateway;Thin Print Ports;Name translation table;Printer Templates;License Manager;Port Manager	.print RDP Engine for TS, Output Gateway, HP Color Laser Jet 5 printer driver and license manager	AutoDriver controlled from 1 configuration utility	.print RDP Engine XP, Output Gateway and HP Color Laser Jet 5 printer drivers, License Manager
Output Gateway installation required	NO	NO	YES, this is the Universal template driver. 1 template is installed by default	YES, this is the Universal template driver. 1 template is installed by default	NO	YES, this is the Universal template driver. 1 template is installed by default
License manager installation required	NO	NO	YES on each server	YES on each server	NO	YES on each server
Initial Installation requires restart of spooler	NO	NO	YES, automatic	YES, automatic	NO	YES, automatic

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Configuration of printer template required	NO	NO	YES	YES	NO	YES
Trial license key required for evaluation	NO	NO	YES	YES	NO	YES
Ease of client installation	VERY EASY install, more ScrewDrivers client packages can be downloaded from the triCerat support website.	VERY EASY install, more ScrewDrivers client packages can be downloaded from the triCerat support website.	EASY, Different client installers for different client OS	EASY, Different client installers for different client OS	VERY EASY install, more ScrewDrivers client packages can be downloaded from the triCerat support website.	EASY, Different client installers for different client OS
Client install package size	1.1MB (ICA and RDP MSI file)	1.1MB (ICA and RDP MSI file)	~1-3MB depending of client package type	~1-3MB depending of client package type	1.1MB (ICA and RDP MSI file)	~1-3MB depending of client package type
Server install package size	1MB	14MB	>5MB, depends on parts to install	6MB	1MB	5MB
Clients for easy deployment available for download	YES	YES	YES	YES	YES	YES
Print port configuration required	NO, dynamic	NO, dynamic	YES, thin print ports must be manually configured if TCPIP is to be used as print protocol, as when using dedicated print servers	NO, dynamic	NO, dynamic	NO, dynamic
Wildcards required	NO	NO	Environment specific	NO	NO	NO
TP Autoconnect config required	NO, automatic	NO, automatic	Environment specific but recommended	NO, Only default printer is added to the session	NO, automatic	NO, Only default printer is added to the session

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Client can be installed and work with both ICA and/or RDP	YES	YES	YES, but requires an second install	NO, ICA not supported	NO, ICA not supported	NO, ICA not supported
Name translation required	NO	NO	Environment dependant	NO	NO	NO
Requires specific printer names	NO	NO	Changing printer names may cause printers not to create as names can be used in printer mapping, or printer ID could change because the name change	NO	NO	NO
DNS/WINS lookup required for printer mapping	NO	NO	YES for autoconnect to work with client name when printing over IP	NO	NO	NO
ActiveX client available	YES	YES	YES	YES	YES	YES

### SERVER CONFIGURATION

Requires customized login scripts for users	NO, all configuration is GUI based	NO, all configuration is GUI based	YES	NO	NO	NO
Server configuration is stored locally on each server	YES	NO, stored is SQL database managed thru 1 console	YES, manual replication of configuration needed.	YES	YES	YES

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### CLIENT CONFIGURATION

Client Install needed	YES	NO	NO	NO, but then native drivers are used	YES	YES
Printer ID config required	NO	NO	This is done automatic, but admins may need to know the ID for each printer to setup printing correct	NO	NO	NO
Printer Class config needed	NO	NO	Environment dependant	NO	NO	NO
Client detect new local printers automaticly	YES	YES	NO, manual task required or restart of client	NO, manual task required or restart of client	YES	NO, manual task required or restart of client
Renaming printer may require server configuration change	NO	YES, on print servers	YES, if printer ID is changed when printer is renamed or other printer is added	NO	NO	NO