

## triCerat ScrewDrivers® vs. ThinPrint .print Remote Desktop Print Engine

Features	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Maximum Resolution	No limit, reads from native driver.	600*600 dpi
Color and Grayscale	YES	YES
Compression of print stream	YES	YES
Print job streaming	YES	YES
MetaFile Format	triMeta, triCerat's format for printing. Overcomes limitations with EMF	EMF, will have issues inherent from EMF
Font Embedding	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	NO
Control Bandwidth on Server and/Or Client	YES, easy from control panel	NO
Printing bandwidth control for ICA and RDP	YES for Both	NO
Default printer spoofing function	YES	NO
Change of default printer on client reflected on server without logout	YES	NO
Delete printers on disconnect / add on reconnect	YES	YES
Archive Print jobs	Possible to save all print jobs as PDF files for archiving	NO
Save as PDF	On Server and/or Client drives	NO
Save as BMP	On Server and/or Client drives	NO
Works in mixed farms of Citrix Presentation server	YES, and also without Citrix	NO
Workflow integration	YES, Action feature can be used	NO
Auditing capabilities	YES, Action feature can be used	NO
Properties picked up from client	The following properties are queried from the local printer driver and passed to the server: <ol style="list-style-type: none"> <li>1. Bins (Trays)</li> <li>2. Collation</li> <li>3. Color</li> <li>4. Copies</li> <li>5. Duplex</li> <li>6. Resolutions (Print Quality)</li> <li>7. MaxExtent/MinExtent</li> <li>8. Orientation</li> <li>9. Paper Sizes</li> <li>10. Scaling</li> </ol>	NO, the printer is based on a template and needs user to know what functions they have
Auto Creation of printers	YES, seamless for users	Yes but it will only create the default printer with limited functionality
Driver template based print solution	NO, AutoDriver™	YES
Works with clients behind firewall or NAT	YES, seamless thru virtual channel	YES
Watermark on printout	NO, 30 days trial with no watermark.	YES, makes print out unusable.

Active Directory Integration	Available in triCerat *Simplify Suite®	NO
Assign settings based on Client IP Address, client name, server name, group or user	Available in triCerat *Simplify Suite®	NO
Assign settings based on Organizational unit	Available in triCerat *Simplify Suite®	NO
Dedicated Print Server support	Available in triCerat *Simplify Suite® with Native drivers	NO
THIN Client support for Windows CE and Linux	Available in triCerat *Simplify Suite® with Native drivers	NO

User Experience	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Looks like normal windows print dialog when printing	YES	NO
User can only see options that the printer has enabled	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	Optional. Configured from server component. (All printers, only default, only first 2 printers etc)	YES, only one printer per session
Requires user training	NO, seamless to the user	YES. User is required to make many decisions upon implementation.
Print Preview on Client	No, not needed as all printers are available in the session	YES, needed to print to a printer other than default without changing default printer and logout and back in to server again.
Extended Printer Properties Support (Stapling, sorting etc)	YES, opens clients print dialog with native driver settings	YES, thru print preview on client
Login overhead	No, creation of printers is very quick. One or multiple printers are created within seconds.	No, creation of printers is quite quick.
PrintFast™	Printing with ScrewDrivers is Fast!	Printing will be slow with some documents

Administration	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Administrators can access users printers	YES	YES
Other users can access other users' printers	NO	NO
Use normal print spooler functions	YES	YES
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, but only builds default printer in session, adding more pressure to the user. Also does not support all properties of the printer to be used from within the session.
Requires inventory of printer models and drivers	NO	NO
Requires printer name mapping	NO	NO
Replication of Drivers Needed	NO	NO
Possible to combine with native drivers	YES	YES
Support for 2 generation of printer drivers	YES	YES

Need of maintaining a Driver Compatibility List	NO	NO
Printer settings can be changed within session for store on client	NO, users will get the printer properties from local driver	NO
Universal driver requires Win32 device at printer location	YES	YES

Requirements	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Supported Server OS	Windows 2000 or Windows 2003 with Terminal Server enabled	Windows 2000 w/PS4 and Windows 2003 with Terminal Server enabled
Supported Client Platforms	Windows 95, 98, ME, 2000, XP, 2003	Windows 95, 98, ME, 2000, XP, 2003
Thin Client Support	Windows XP embedded and embedded Windows NT	Windows XP embedded and embedded Windows NT
Client Connection Protocol	RDP or ICA	RDP Only
Connection Client version supported	MS RDP Client and/or Citrix ICA 4 (or later) client	MS RDP Client
Client installation required	YES	YES
Windows Installer version 2.0	NO	YES, on win9x and WinME
Recommended number of users per server	No recommended limit with ScrewDrivers	ThinPrint does not recommend more than 40 users per Terminal Server

INSTALLATION	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Ease of Server installation	Very easy	Easy
Server Components	AutoDriver™ controlled from one configuration utility	.Print Server Engine for Terminal Services, Thin Print Output Gateway, License Manager
Output Gateway installation required	NO	YES, this is the Universal template driver
License manager installation required	NO	YES
Initial Installation requires restart of spooler	NO	YES, automatic
Configuration of printer template required	NO	YES
Trial license key required for evaluation	NO	YES
Ease of client installation	VERY EASY install, more ScrewDrivers client packages are available to download at: <a href="http://www.tricerat.com/clidown.php">http://www.tricerat.com/clidown.php</a>	EASY, Different client installers for different client OS
Client install package size	1,7MB (ICA and RDP, separate versions available on website)	9,7MB
Server install package size	1,4MB (RDP and ICA)	4MB
Clients for easy deployment available for download	YES	YES
TP Autoconnect configuration required	NO, automatic	NO, Only default printer is added to the session
Client can be installed and work with both ICA and/or RDP	YES	NO, ICA not supported
ActiveX client available	YES	YES

Server Configuration	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Option to control printer naming	YES	NO
Option to control Bandwidth settings for ICA and RDP	YES	No bandwidth control.
Easy way to control printer naming from server	YES, with naming schemes or custom names.	NO
Define print method for users	YES	NO
Control build in PDF rendering?	YES	NO, PDF function not available.
Control Action settings after print-out	YES	NO

Client Configuration	ScrewDrivers V3	ThinPrint .print Desktop Print Engine
Client Install needed	YES	YES
Client detects new local printers automatically	YES	NO, the client needs to be restarted or manually told to look for printer

### Conclusion of comparison

**Features:** ScrewDrivers provides administrators with a multitude of built-in functionality, making it a superior printing product.

**User experience:** ThinPrint's .print remote desktop engine and its universal driver "Output Gateway" is only like a small enhancement of what is normally referred to as a printer mapping. It functions as a template driver and the administrator still has to configure according to various options, i.e. will it support Duplex, will it have color support, what is the maximum resolution, etc. Once this is setup ALL users will be forced into having the same settings for ALL of their printers. This puts a burden on users because they will need to know exactly what the printer they are using supports, as they may be given alternatives at printout that they cannot support.

**Resolution:** Output gateway supports a maximum resolution of 600\*600dpi, ScrewDrivers does not have any limitation on maximum resolution.

**Font embedding:** ScrewDrivers will embed fonts that are not present on the client workstation, decreasing the administrator's work and time spent installing fonts on all client workstations. ThinPrint requires you to install ALL fonts used at the client workstations.

**Printer created in session:** With ScrewDrivers you can give users all of their printers from within their session. .print Remote Desktop Printing Engine only supports building of clients' default printer.

### \* Simplify Suite® v4

The most powerful and comprehensive package of integrated server management tools available for reducing the cost and complexity of administering and supporting your Terminal Server-based infrastructure. Simplify Suite v4 has been re-engineered from the ground up. It incorporates triCerat's Day Zero® Technology, a software framework that extends and enhances Windows 2000 and 2003 Server operating systems, boosting Terminal Server performance, reliability and security.