

Terminal Services

Feature Compare Matrix

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Version 0.8

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DOCUMENT OVERVIEW

HISTORY

<i>Version</i>	<i>Date</i>	<i>Author(s)</i>	<i>Remarks</i>
0.1	September 2004	Ruben Spruijt	
0.5	November 2006	Martijn Bellaard	
0.6	November 2006	Ruben Spruijt	
0.7	November 2006	Martijn Bellaard	
0.8	November 2006	Ruben Spruijt	CPS 4.5 and Longhorn added

REVIEWERS

<i>Version</i>	<i>Date</i>	<i>Author(s)</i>	<i>Remarks</i>

Terminal Services Feature Compare Matrix

	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
APPLICATIONS							
Windows 32/64 bit ¹	✓	✓	✓	✓	✓	✓	✓
DOS (non graphic), Windows 16 bit	✓	✓	✓	✓	✓	✓	✓
Java	✓	✓	✓	✓	✓	✓	✓
Web	✓	✓	✓	✓	✓	✓	✓
CLIENT OPERATING SYSTEMS							
Windows Vista, XP, 2000	✓	✓	✓	✓	✓	✓	✓
Windows NT, 9x	✓		✓	✓	✓	--	--
Windows CE	✓		✓	✓	✓	--	--
DOS			✓	✓	✓	--	--
MAC/OS	✓		✓	✓	✓	✓	✓
Browser – Active X	✓		✓	✓	✓	✓	✓
Browser – Java			✓	✓	✓	✓	✓
Browser – Netscape			✓	✓	✓	✓	✓
Unix (Solaris,DEC,HP/UX,AIX,SCO,SGI)	✓ ²		✓	✓	✓		
Linux (Red Hat, Caldera, SuSE, Slackware)			✓	✓	✓		
Java			✓	✓	✓		
RISC			✓	✓	✓		
pSOS			✓	✓	✓		
NCI OS			✓	✓	✓		

¹ Alleen op een 64 bits platform

² Rdesktop <http://www.rdesktop.org> (waar is de 2 gebleven)

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
NET OS			✓	✓	✓		
QNX			✓	✓	✓		
EPOC 32			✓	✓	✓		
Client Devices							
PC (Windows 9x or higher)	✓		✓	✓	✓		
Macintosh	✓		✓	✓	✓		
Hand-held PCs	✓		✓	✓	✓		
Network Computers (ZOALS!)			✓	✓	✓		
Windows Based Terminals (CE)	✓		✓	✓	✓		
Windows terminals (DOS, Linux, Java)			✓	✓	✓		
Network Terminals			✓	✓	✓		
PDA (Psion, iPaq)	✓		✓	✓	✓		
GSM (Nokia, Motorola, Ericsson)			✓	✓	✓		
Build into Windows XP/2003/Vista	✓						
Transport Protocols							
TCP/IP	✓	✓	✓	✓	✓	✓	✓
IPX/SPX			✓	✓	✓	--	--
NetBEUI			✓	✓	✓	--	--
Connections							
LAN	✓	✓	✓	✓	✓	✓	✓
WAN (waarom verschil tussen WAN en LAN)	✓	✓	✓	✓	✓	✓	✓
RAS Dail-up	✓		✓	✓	✓	✓	✓
Console connection	✓		✓	✓	✓	✓	✓

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Access to Local Resources							
System sounds	✓	✓	✓	✓	✓	✓	✓
16-bit stereo	✓	✓	✓	✓	✓	✓	✓
Bidirectional Audio				✓	✓	✓	✓
Client drive redirection	✓		✓	✓	✓	✓	✓
Auto (client?) printer creation	✓		✓	✓	✓	✓	✓
USB twain redirection				✓	✓	✓	✓
USB PDA redirection, activesync version 3.8 for Windows				✓	✓	✓	✓
Smart Card Sign On	✓		✓	✓	✓	✓	✓
Local printer spooler	✓		✓	✓	✓	✓	✓
Clipboard redirection	✓		✓	✓	✓	✓	✓
COM port redirection	✓		✓	✓	✓	✓	✓
Local time zone support	✓ ³		✓	✓	✓	✓	✓
Domain & AD Passthrough auth.			✓	✓	✓	✓	✓
Novell NDS passthrough auth.			✓	✓	✓	✓	✓
Parameter passing to Published apps			✓	✓	✓	✓	✓
Performance							
Bitmap caching	✓		✓	✓	✓	✓	✓
Speedscreen 3			✓	✓	✓	✓	✓
24 bits color reduced bandwidth			✓	✓	✓	✓	✓
Text entry prediction			✓	✓	✓	✓	✓
Instant mouse-click feedback			✓	✓	✓	✓	✓

³ Werkt alleen op Microsoft Windows

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Priority packet tagging		✓?	✓	✓	✓	✓	✓
Speedscreen Browser Acceleration			✓	✓	✓	✓	✓
Speedscreen Acceleration: Image			✓	✓	✓	✓	✓
Speedscreen Acceleration: Audio and Video				✓	✓	✓	✓
Speedscreen Acceleration: Macromedia Flash				✓	✓	✓	✓
Speedscreen Acceleration: Progressive Display						✓	✓
Microsoft Remote Desktop Client support	✓		✓	✓	✓	✓	✓
Application Display & Navigation							
Seamless Windows			✓	✓	✓	✓	✓
High Colour support	✓			✓	✓	✓	✓
True Colour support			✓	✓	✓	✓	✓
2700 x 2700 video resolution			✓	✓	✓	✓	✓
Multi monitor support (spanning/..)			✓	✓	✓	✓	✓
Application save position			✓	✓	✓	✓	✓
Panning & Scaling			✓	✓	✓	✓	✓
Luna support (XP)			✓	✓	✓	✓	✓
Aero support (Vista)							
Dynamic Display Reconfiguration			✓	✓	✓	✓	✓
Workspace Control				✓	✓	✓	✓
Session Reliability				✓	✓	✓	✓
Zone Preference and Failover					✓		✓
New Printer Driver			✓	✓	✓	✓	✓
Smart Card Roaming			✓	✓	✓	✓	✓

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Application & Information Access						✓	✓
Local Connection configuration	✓		✓	✓	✓	✓	✓
Browse available servers			✓	✓	✓	✓	✓
Program Neighborhood			✓	✓	✓	✓	✓
Icon publishing on Local desktop, Startmenu, Quicklaunch bar			✓	✓	✓	✓	✓
Program Neighborhood Agent			✓	✓	✓	✓	✓
Program Neighborhood Agent Backup URL support						✓	✓
Local Application Publishing			✓	✓	✓	✓	✓
Content Publishing			✓	✓	✓	✓	✓
Disconnect – reconnect support	✓		✓	✓	✓	✓	✓
Auto Client reconnect	✓		✓	✓	✓	✓	✓
Business Recovery Client			✓	✓	✓	✓	✓
Non-administrator Win32 client install						✓	✓
Client Management							
Client printer management utility			✓	✓	✓	✓	✓
Automatic Client update	✓ ⁴		✓	✓	✓	--	--
Web-based client install			✓	✓	✓	✓	✓
Client version control			✓	✓	✓	✓	✓
ReadyConnect client			✓	✓	✓	✓	✓
Client lockdown settings through Group Policy						✓	✓

⁴ Alleen mogelijk als de client lid is van Active directory

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Advanced Load Management							
Network Load Balancing	✓		✓	✓	✓	✓	✓
Dynamic load balancing				✓	✓	✓	✓
Application-based loadbalancing				✓	✓	✓	✓
Instant load balancing feedback				✓	✓	✓	✓
Schedule application availability				✓	✓	✓	✓
Load balancing by Site				✓	✓	✓	✓
Load balancing by application usage				✓	✓	✓	✓
Connection Control				✓	✓	✓	✓
CPU Prioritization				✓	✓	✓	✓
Load Balancing reconnect support	✓ ⁵			✓	✓	✓	✓
Load Throttling						✓	✓
Network Management							
Health monitoring and recovery							✓
Advanced Shadowing							
One-to-one shadowing	✓		✓	✓	✓	✓	✓
Cross-server shadowing			✓	✓	✓	✓	✓
Many-to-one shadowing			✓	✓	✓	✓	✓
One-to-many shadowing			✓	✓	✓	✓	✓
Shadowing administration			✓	✓	✓	✓	✓
Shadowing Indicator			✓	✓	✓	✓	✓

⁵ Alleen aanwezig als er gebruik wordt gemaakt van Session Directory Service

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Shadowing Taskbar			✓	✓	✓	✓	✓
Shadow delegation			✓	✓	✓	✓	✓
Application Management							
Anonymous user support			✓	✓	✓	✓	✓
Application publishing			✓	✓	✓	✓	✓
Program Neighborhood			✓	✓	✓	✓	✓
TCP-based browsing			✓	✓	✓	✓	✓
Content Publishing			✓	✓	✓	✓	✓
Printer Management							
Printer driver Access Control			✓	✓	✓	✓	✓
Printer driver Replication			✓	✓	✓	✓	✓
Printer Bandwith per Server			✓	✓	✓	✓	✓
Printer file compression			✓	✓	✓	✓	✓
Universal Printer drivers I			✓	✓	✓	✓	✓
Universal Printer drivers II			✓	✓	✓	✓	✓
Universal Printer drivers III			✓	✓	✓	✓	✓
Printer Bandwith Control per Client/User/Server/Subnet			✓	✓	✓	✓	✓
Windows Enhanced Metafiles Format support (EMF)			✓	✓	✓	✓	✓
Session Printer Policy			✓	✓	✓	✓	✓
Application Packaging & Delivery⁶							
Application Streaming							✓

⁶ Bij de enterprise Edition versie van Presentation server 4.0 wordt installation manager meegeleverd.

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Application Isolation					✓		✓
Centrally installand uninstall apps					✓		✓
Create logical server groups					✓		✓
Customizable project details					✓		✓
Delivery verification					✓		✓
Distribute Applications, files and Service Packs.					✓		✓
MSI support					✓		✓
Package applications, files and Service packs					✓		✓
Package inventory					✓		✓
Packer rollback					✓		✓
Schedule package delivery					✓		✓
Server reboot support					✓		✓
Support for unattended installs					✓		✓
Application Isolation					✓		✓
Virtual IP Address Support				✓	✓	✓	✓
Web Interface Enhancements			✓	✓	✓	✓	✓
Enhanced Smart Card Support			✓	✓	✓	✓	✓
Application Monitoring⁷							
Application monitoring					✓		✓
Customized Reporting					✓		✓
Data capture scheduling					✓		✓
Historical analysis & graphing (48h)					✓		✓

⁷ Bij de enterprise Edition versie van Presentation server 4.0 wordt resource manager meegeleverd.

Terminal Services Feature Compare Matrix

	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Historical analysis & graphing					✓		✓
Billing					✓		✓
Perform system capacity planning					✓		✓
Real-time graphing and alerting					✓		✓
Server farm monitoring					✓		✓
Track user access to applications					✓		✓
User definable metrics					✓		✓
Watcher window					✓		✓
ICA Session monitoring					✓		✓
Resource Manager Enhancements					✓		✓
Centralized Administration							
Active Directory support (UPN)	✓		✓	✓	✓	✓	✓
Novell NDS support			✓	✓	✓	✓	✓
Administration toolbar			✓	✓	✓	✓	✓
User Policies			✓	✓	✓	✓	✓
Centralized Datastore			✓	✓	✓	✓	✓
Citrix Administrative accounts			✓	✓	✓	✓	✓
Citrix Management Console			✓	✓	✓	✓	✓
Citrix Web Console			✓?	✓?	✓?	✓?	✓?
MMC Console	✓		✓	✓	✓	✓	✓
Delegated Administration	✓		✓	✓	✓	✓	✓
CPU Prioritization				✓	✓	✓	✓
Webinterface and Program Neighborhood Agent Administration-Console			✓	✓	✓	✓	✓

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Cross server administration			✓	✓	✓	✓	✓
Cross subnet administration			✓	✓	✓	✓	✓
Integration with Tivoli Netview					✓		✓
Integration with HP Openview					✓		✓
Integration with TNG Unicenter TNG					✓		✓
SNMP monitor agent					✓		✓
Integration with Microsoft Operations Manager 200 / 2005					✓		✓
Configuration logging reporting							✓
Security							
128-bit credential encryption	✓		✓	✓	✓	✓	✓
Secure ICA/RDP 128bit RC4 encryption	✓		✓	✓	✓	✓	✓
Smart card support	✓		✓	✓	✓	✓	✓
Socks 4 & 5 support			✓	✓	✓	✓	✓
SSL encryption	✓		✓	✓	✓	✓	✓
SSL encryption ICA session			✓	✓	✓	✓	✓
Ticketing			✓	✓	✓	✓	✓
No server IP address on client			✓	✓	✓	✓	✓
RSA Secure ID and Safeword intagrations with webinterface			✓	✓	✓	✓	✓
Bastion host support ⁸			SG	SG	SG ⁹	SG	SG ¹⁰

⁸ Met Bastion Host support wordt bedoeld dat het niet nodig is om een interne server direct vanaf internet te kunnen bereiken. Het verkeer tussen de server en de client wordt via een speciale host in de DMZ doorgerouteerd naar het interne netwerk.

⁹ Met Citrix Access Gateway Advanced Edition is het mogelijk om naast ICA verkeer, via een SSL VPN, ander verkeer op een veilige en verantwoorde manier naar het interne LAN te routeren.

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	MS W2K3 Std. TS	MS Longhorn TS*	CPS 4.0 Std.	CPS 4.0 Adv.	CPS 4.0 Ent.	CPS 4.5 Adv.*	CPS 4.5 Ent. *
Trusted server configuration		✓				✓	✓
AES-128/256 support			AG	AG	AG	AG	AG
Internet Access							
Static Web connection access	✓		✓	✓	✓	✓	✓
Dynamic webinterface			✓	✓	✓	✓	✓
Webinterface Application filtering & cache			✓	✓	✓	✓	✓
Webinterface Multiple server farms			✓	✓	✓	✓	✓
Support for corporate portals			✓	✓	✓	✓	✓
Multilingual User Interface Support for Web Interface			✓	✓	✓	✓	✓
Integration with MS Sharepoint 2003							
ADFS support for Web Interface						✓	✓
License							
Central licensing	✓		✓	✓	✓		
License activation	✓		✓	✓	✓	✓	✓
Cross product licensing ¹¹			✓	✓	✓	✓	✓
Plug and Play licensing (..)			✓	✓	✓	✓	✓
License server Enhancements			✓	✓	✓	✓	✓
License server high availability			✓	✓	✓	✓	✓

Voor vragen of opmerking kunt u contact zoeken met Martijn Bellaard martijn.bellaard@pqr.nl of Ruben Spruijt ruben.spruijt@pqr.nl

¹¹ Meerdere producten van de betreffende leverancier kunnen gebruik maken van dezelfde license server.