



TECH ARTICLE

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Topic / Issue: Windows 2000 fails to Connect to remote Terminal Server via Bintec Router-
Bintec X series

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If you have a Bintec router as your gateway router, and you have trouble connecting to a remote Terminal Server service, then you may need to adjust the PMTU settings on your Windows 2000 clients.

I. Hint to enable the PMTU-function for Windows 2000 Sever (Win2000)

- For all Windows Operating Systems without Windows 2000 the PMTU function is enabled by default.

(Maybe sometimes other default values in some cases)

- For Operating System Windows 2000 the PMTU function has to be enabled by adding the two following keys

HKEY-LOCAL MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters

Parameter	Type	Value
EnablePMTUBHDDetect	DWORT-Wert	1
EnablePMTUDiscovery	DWORT-Wert	1

Date of state: 10.4.2003

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Additional Information to the statement:

> For all Windows Operating Systems without Windows 2000 the PMTU function is enabled by default.

> (Maybe sometimes other default values in some cases)

Excerpt from MS-knowledge-base articles:

1. TCP/IP and NBT Configuration Parameters for Windows

The information in this article applies to:

- Microsoft Windows 2000 Professional
- Microsoft Windows 2000 Server
- Microsoft Windows 2000 Advanced Server
- Microsoft Windows 2000 Datacenter Server
- Microsoft Windows NT Workstation versions 3.5 , 3.51 , 4.0
- Microsoft Windows NT Server versions 3.5 , 3.51 , 4.0

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EnablePMTUDiscovery

Key: Tcpip\Parameters
Value Type: REG_DWORD - Boolean

Valid Range: 0,1 (False, True)

Default: 1 (True)

Description: Setting this parameter to 1 (True) causes TCP to attempt to discover the Maximum Transmission Unit (MTU or largest packet size) over the path to a remote host. By discovering the Path MTU and limiting TCP segments to this size, TCP can eliminate fragmentation at routers along the path that connect networks with different MTUs. Fragmentation adversely affects TCP throughput and network congestion. Setting this parameter to 0 causes an MTU of 576 bytes to be used for all connections that are not to machines on the local subnet.

2. TCP/IP and NBT Configuration Parameters for Windows

The information in this article applies to:

Microsoft Windows 95

Microsoft Windows 98

Microsoft Windows 98 Second Edition

Microsoft Windows Millennium Edition

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PMTUDiscovery = 0 oder 1

Summary:
(If required)