

分類/Classification	☑ tDS ☑ tGW		Ø PETL/tET/t	PET 🗹 DS/PDS/PF	DS 🗹	⊿ tM-752N	
	□ I/O Care	d	U VXC Card	□ VxComm		l Other	
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Q. How to disable TCP ACK Delay time on Windows XP/7?

A: The TCP delayed acknowledgment is a technique used by some implementations of the Transmission Control Protocol in an effort to improve network performance. In essence, several ACK responses may be combined together into a single response to reduce the protocol overhead. However, the TCP layer does not know if the application will send ACK immediately or not, so it will delay sending an ACK response by up to 500 ms, and the remain data will be queued by the sender until an ACK is received. It will reduce the user's application performance. If you would like to enhance the application performance, to transfer data without the ACK delay, the following instructions guide you to disable the delayed ACK.





to use keyboard shortcuts, press the [Windows logo key]] + [R] to open the Run Command dialog box.)



Figure 1-2

Step 2: In the "Run Command" dialog box, type "regedit" in the "Open:" field and then click the "OK" button to open a "Registry Editor" window, as indicated in Figure 1-3.

Run	? 🔀
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
<u>O</u> pen:	regedit 🗸 🗸
	OK Cancel <u>B</u> rowse

Figure 1-3

Step 3: In the left Pane of the "Registry Editor" window, click the HKEY LOCAL MACHINE→ SYSTEM → CurrentControlSet \rightarrow services \rightarrow Tcpip \rightarrow Parameters \rightarrow Interfaces \rightarrow {NIC-id}.



Step 4: Create **"DWORD Value"** registry keys called **TCPAckFrequency**, and double-click on new registry name and change the value from **"0"** to **"1"**.







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Step 5: In the left Pane of the "Registry Editor" window, click the HKEY_LOCAL_MACHINE \rightarrow SOFTWARE \rightarrow Microsoft \rightarrow MSMQ \rightarrow Parameters.



Figure 1-8

Step 6: Create **"DWORD Value"** registry keys called **TCPNoDelay**, and double-click on new registry key and change the value from **"0"** to **"1"**.





Step 7: Close **Registry Editor** window and **restart** the system to complete the configuration.

(Finish)



For Windows 7 configuration

Step 1: Click the "Start" button and then In the Start Search box type "regedit" and then press enters.

Control Panel (1)				
📸 regedit				
₽ See more results				
regedit	×	Shut c	lown 🕨	
		V		4

- Figure 1-12
- Step 2: In the left Pane of the "Registry Editor" window, click the HKEY_LOCAL_MACHINE→ SYSTEM → CurrentControlSet → services → Tcpip → Parameters →Interfaces→ {NIC-id}.



- Figure 1-13
- **Step 3:** Create two **"DWORD Value"** registry keys called **TCPAckFrequency** and **TCPNoDelay**, and doubleclick on new registry key and change the value from **"0"** to **"1"**.



manuscive NEO_DE RegisterAdapter... REG DWORD 0x00000000 (0) 11 Reg 00001 (1) 2. Type "TCPAckFrequency", <mark>않</mark> T1 74f0f (1390890767) and then Double-click 👪 T2 84c2f (1390955567) UseZeroBroadcast_REG_DWORD 0x00000000 (0) TCPAckFrequency EG_DWORD 0x00000000 (0) Figure 1-15 22 Edit DWORD (32-bit) Value Value name: Figure 1-16 3. Type "1" **TCPAckFrequency** Value data: Base Hexadecimal 1 Decimal Click 👯 RegistrationEnabled REG_DWORD ΟК Cancel 嘂 T1 REG_DWORD **않** T2 REG_DWORD UseZeroBroadcast REG D KD 1x00000000 👪 UseZeroBroadcast REG DWORD 0x00000000 (0) B TCPAckFrequency REG_DWORD 0x00000001 (1) Figure 1-17

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Name Type Right click again and choose the 5. ab (Default) REG_SZ "New" → "DWORD (32-bit) Value" 8 AddressType REG DWDR 0~00000000 (0) REG_DWORD BhcpConnForce... New Key ۲ ab DhcpDefaultGat... REG_MU ab DhcpDomain REG 5Z String Value 🚻 DhcpGatewayH... REG BIN **Binary Value** For 32-bit Windows 7 REG_DW 🟙 DhcpGatewayH... DWORD (32-bit) Value 0 00 00 00 00 00 00 81 a0... 🚻 DhcpInterfaceO... REG BIN QWORD (64-bit) Value REG_5Z DhcpIPAddress For 64-bit Windows 7 DhcpNameServer REG_5Z Multi-String Value DhcpServer REG SZ Expandable String Value ab DhcpSubnetMask REG SZ 200.200.0.0

Figure 1-18

H'A

RegistrationEnabled	REG DWORD	0x00000001 (1)
🥮 🏞 6. Type "T	2e74f0f (1390890767)	
then Dc	2e84c2f (1390955567)	
🔡 Use		0000000 (0)
R TCPAckErequency	REG_DWORD	0x00000001 (1)
30 TCPNoDelay	REG_DWORD	0x00000000 (0)

Figure 1-19



Step 4: Close **Registry Editor** window and **restart** the system to complete the configuration.

(Finish)