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分 領/Classification	□ I/O Card		□ VXC Card	☑ VxComm	C] Other
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Q: How to enable write-buffer in the VxComm Driver/Utility?

A: Some serial programs are only able to transmit one byte of data at a time, even if there is a large amount of data to be sent. This situation can cause a range of problems and leads to poor communication efficiency.

To resolve this issue, an option to "Enable Write-Buffer to collect small packets into big one" has been added to the VxComm Driver/Utility. By enabling this function, the driver will create a write-buffer for the virtual COM port, and the driver will then collect each single byte packet written from the serial program and then send it to the Ethernet in large packet, thereby improving the performance of the Ethernet communication.

The timeout value for the write-buffer can be adjusted using the Auto-Flush Interval parameter (50 ms by default), so that if no more data is transmitted from the serial program within the specified interval, the accumulated data is combined into a single packet and sent to the Ethernet.

To enable the write-buffer in the VxComm Utility, follow the procedure described below:

Step 1: Double-click the VirtualCOM port of your device (e.g. thetDS-718 module) in theright-hand pane of VxCommUtility.





Step 2: In the Port Configuration dialog box, click the "Port Mapping [PC]" tab.

Step 3: Check the **"Enable Write-Buffer to collect small packets into big one"** option and set the Auto-Flush Interval time (default: 50 ms) to a suitable value depending on the requirements of your program.

Step 4: Click the **"OK"** button to complete the configuration.

	Port Configuration	×				
	Server: tDS-718 (10.0.8.246), Port 1					
2	Port Mapping (PC) Port Setting (Device)	_ 1				
0	Select COM COM2					
	🗖 Re-assign COM number for all subsequent ports.					
	Apply to all subsequent solts.					
	Fixed baud rate, use server current settings.					
	Skip baud rate and data format changes from client program.					
	(Less conflicts when sharing port to multiple clients.)					
	🔲 Disable purge command (e.g. ModScan32).					
	Enable Write-Buffer to collect small packets into big one.					
	Auto-Flush Interval: 50 (ms, 10 ~ 500, default=50)					
	4 OK Cancel					

Step 5: Ensure that all Virtual COM ports have been closed and then click the "<u>Restart Driver</u>" item from the "<u>Tools</u>" menu. Click "Restart Driver" button in the warning dialog box to restart the driver and complete the configuration process.

File Server Port Tools File Server Port Tools File Server Port Tools System Information Information	Configure Port Port Virtual COM Baudrate Port I/O Reserved N/A Port 1 COM2 Dynamic Complete
Web VxComm Utility : Kesta Search Servers VxComm Utility : Kesta Configuration (UDP) Nam, UDS-7 Exit DS-7 Status: Driver is run Restart I	rting Driver e driver to use new configuration. you have closed all virtual COM ports first. nning. Driver Cancel

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