

# XL-1000 SERIES DATA RETRIEVAL USING THE FTP INTERFACE ON THE SERVER CARD

ETC\_PAN\_XL-1000\_FTP ACCESS FOR DATA RETRIEVAL\_v1.1

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# 3 CONTACT EXCEL TECHNOLOGY CO

- Email: enquiries@exceltech.com.au
- Website: www.exceltech.com.au
- Phone: +61 7 3279 4322
- Address: 18 Staple Street Seventeen Mile Rocks Queensland, AUSTRALIA 4073

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## 5 OVERVIEW

This document covers the basic process of connecting to the FTP server on an XL-1000 vehicle detector that is fitted with a Web Server comms card.

**Note**: It is important to make sure the XL-1000 you are trying to connect to has the Web Server comms card as this is the only comms card with FTP file logging capabilities.

The Web Server comms card hosts an FTP server which allows users to access data stored on the internal compact flash card using an FTP client such as WinSCP.

#### 5.1 SCOPE

This manual assumes the user has a basic knowledge of the Windows operating system, Internet Protocol (IP) setup, and has already installed WinSCP (WinSCP can be downloaded from https://winscp.net)

It is assumed that the computer running WinSCP is on the same subnet as the XL-1000. If this is not the case the user will need to determine how to access the XL-1000 based on their network configuration.

Refer to the XL-1000 user manual for instructions on how to configure the XL-1000 itself. To connect to the FTP server, you will need to know the IP address, FTP username and FTP password.

#### 5.2 USING THE SERVER CARD

*Note*: When using the server card FTP interface, the following must be considered:

- The server card FTP server does not support simultaneous connection
- The external IP address setting for the server card is used to populate the FTP PORT command and should match the IP address setting. However, if Network Address Translation (NAT) is being performed by a device such as a modem or router between the server card and the user then the external IP address should match the IP address of the NAT device. Consult the network administrator if the server card is not on the same subnet as the computer running the FTP client (WinSCP)
- The FTP server is running on an embedded processor that is not as powerful as most PC-based FTP servers. For this reason, the server card does not implement a full FTP server. All the major commands such as file system navigation, downloading, uploading, deleting, and renaming are present. Wildcards in the parameters are not supported.

NOOP	USER	PASS	PWD	CWD	CDUP	QUIT
SYST	TYPE	PASV	PORT	LIST	NLIST	RETR
REST	DELE	STOR	RMD	MKD	RNFR	RNTO

The following is a list of all the raw FTP commands supported:

## 6 WINSCP

Download and install the latest version of WinSCP (from https://winscp.net). Follow the instructions in the installer to install WinSCP, using the recommended settings.

Run WinSCP once the installation has finished. If the program does not automatically display the Login screen (as per fig. 6a below), double click the new session tab towards the top left of the screen (circled in RED in figure 6b).

Figure 6a. Main login screen.

On the Login screen select New Site on the left side, then fill out the details on the right side as below:

File protocol	FTP			
Encryption	No encryption			
Host name [IP address of the XL-1000]				
Port number	[FTP Control Port number from XL-1000 settings] DEFAULT: 21			
Username	[FTP Username from XL-1000 settings] DEFAULT: user			
Password	[FTP Password from XL-1000 settings] DEFAULT: pass			

Click the Login button once all the details are filled out. A small window should display the connection process and then disappear once connected successfully. If the connection was successful the window should look like below, with the XL-1000 files on the right and the local computer's files on the left. From here the process for navigating folders, copying files, and deleting files is the same as with Windows File Explorer. For example, you can double click a folder on the XL-1000 to navigate inside it or copy files to your computer by dragging them from right to left (ctrl+C also works). It is recommended to delete files on the XL-1000 after copying them to your computer to save memory. You can delete files by highlighting them and pressing delete.

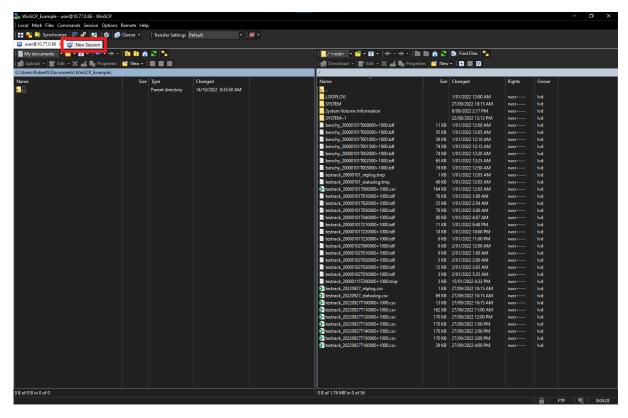


Figure 6b. New FTP session.

# 7 DOCUMENT CONTROL

Version	Date	Change	Author
1.0	02/10/2015	Document created	AK
1.1	14/10/2022	Added: EULA, Compatibility Guide, Document Control Updated: Formatting, Disclaimer, requirements, WinSCP included as standard FTP program, misc. typographical corrections Removed: Outdated OS references, FileZilla setup/use.	DJC