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1. Intent & Scope

The Application Note describes some of the common command line commands for the DXI system that can be used when in the QNX shell prompt. It also describes how to access the DXI menu system from a remote computer (such as access from a modem or telnet session using qtalk or kermit).

2. Introduction

This document is to be used in conjunction with APP-104 (Installing Kermit and/or FTP support for DXI Admin Computer). Note that all commands from the QNX prompt are case sensitive. Make sure that you type these commands with the correct upper/lower case letters.

3. Command line commands

3.1 DXI functions

To perform some standard DXI functions, the following commands are the equivalents to the menu system functions.

3.1.1 Modifying hardware parameters (Maintenance “Edit/Modify Hardware”)

```
Mod_HW↵
```

3.1.2 Modifying software parameters (Administration “Edit/Modify Software”)

```
Mod_SW↵
```

3.1.3 View logs (Administration or Maintenance “Log/Multi Viewer”)

```
exchview 65535 0 M1↵
```

where M1 is the logs for node 1. If you want to see the logs on #2, you can enter

```
exchview 65535 0 M2↵
```

or to see logs on both 1 and 2

```
exchview 65535 0 M1 M2↵
```

The first number is actually a bitmap of what types of logs to view (65535 shows all log types, being a 16-bit number with all 1's), and the second parameter is the language (0=English)

3.1.4 Swap cards (Maintenance “Maint/Swap Card”)

```
CardSwap.↓
```

3.1.5 View faults (Maintenance “View/Faults”)

```
List_Faults.↓
```

3.1.6 View card status (Maintenance “View/Networks”)

```
NetView.↓
```

3.1.7 Exit a terminal session

To exit a terminal session, you can just close the terminal window (if using Kermit), or if you are on a modem and want to make sure the modem is disconnected, type "exit" into the QNX prompt. But if you are using ditto (see below), make sure you exit out of ditto first.

3.2 QNX functions

To perform some standard QNX functions, the following commands can be used

3.2.1 Short directory listing

```
ls.↓
```

3.2.2 Long directory listing

```
ll.↓
```

3.2.3 Change directory

```
cd <directory>.↓
```

3.2.4 Copy files

```
cp <source> <destination>.↓
```

3.2.5 Copy file to DOS formatted disk in floppy drive

```
cp <source> /dos/a/<destination>.↓
```

3.2.6 Rename file

```
mv <source> <destination>↵
```

3.2.7 Delete file

```
rm <file>↵
```

3.2.8 Make a zip archive of a file

```
zip <file.zip> <file1>...<fileN>↵
```

3.2.9 Extract a zip archive

```
zip -j <file.zip>↵
```

4. Upload/Download functions

To perform some standard file upload or download functions from Kermit or Qtalk, the following commands can be used

4.1 Qtalk (QNX terminal)

4.1.1 Upload files from remote access computer to on-site DXI system using QCP

```
qcp re↵
```

Then press 'Control A'

Qtalk will then respond with:

```
Command(?):
```

Then press 's'

Qtalk will then respond with:

```
Send file(s)
```

Then type in:

```
<file1> ... <fileN>
```

where <file1> is the filename of the first file to send, optionally adding more file names (without the ...) as shown above.

4.1.2 Download files from on-site DXI system to remote access computer using QCP

```
qcp se <file1>...<fileN>↵
```

4.2 Zmodem Protocol (Kermit terminal)

4.2.1 Upload files from remote access computer to on-site DXI system using Zmodem

Switch to the Kermit command screen by pressing the second icon from the left on the Kermit menu bar (which looks like )

```
send <file1>...<fileN>␣
```

4.2.2 Download files from on-site DXI system to remote access computer using Zmodem

```
sz <file1>...<fileN>␣
```

4.3 Kermit Protocol (Kermit terminal)

4.3.1 Upload files from remote access computer to on-site DXI system using Kermit

```
cksend <file>␣
```

4.3.2 Download files from on-site DXI system to remote access computer using Kermit

```
ckget <file>␣
```

5. Mirroring the system console / using the DXI menu system

To use the system console, a QNX program called "ditto" is used. Using/mirroring the system console allows a remote user to assist staff on site by performing functions on the system console while the staff can see the activity happening on the console, or, alternatively, to use the standard DXI menu functions when remotely accessing a DXI system (since the menu system only runs on the system console).

If you want to mirror the console to use the menu system, you can use the "ditto" command:

```
ditto -k //1/dev/con1␣
```

This allows you to work on the console for node 1.

The first number (after the //) is the node number to mirror. The second number (con1) is the console to mirror (usually there's only one console).

Hence, to mirror node 3, you can type

```
ditto -k //3/dev/con1␣
```

To exit ditto, type 'Control-E', and ditto will prompt you asking what you want to do. "q" from this prompt quits ditto.

Make sure that you exit ditto before exiting your terminal session, or before uploading or downloading files to the remote SAC computer.