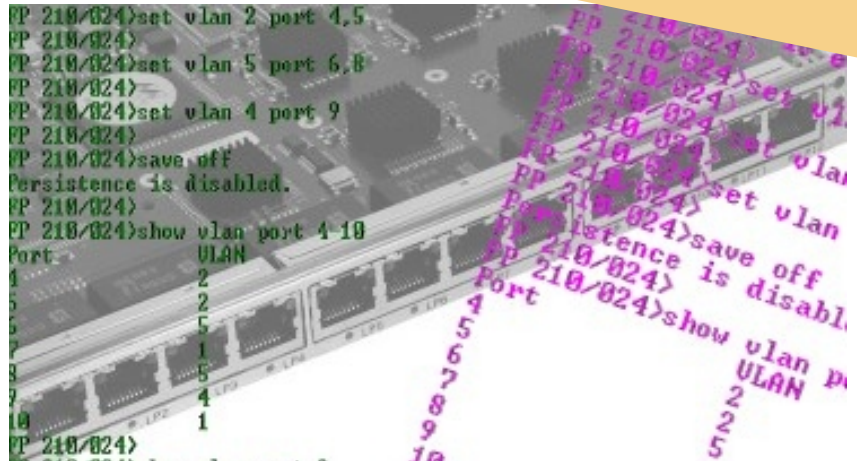# Fabric Switch Configuration Software Tool

APPLICATIONS

The SW FSC/001 Switch Configuration Tool is a software package which allows the user to configure and control several of the features of Concurrent Technologies Ethernet switch fabric board and PCI Express® switch fabric board products for VME, VXS, VPX and CompactPCI® architectures. It works in conjunction with the board's standard operating firmware but runs on a host computer (which may be a single-board computer or a PC) that is connected to the switch board via a serial port. Alternatively, when the host computer board and the switch board are both in a CompactPCI backplane, the communication between the host computer and the switch board may be via the IPMB connection in the backplane. The Switch Configuration Tool will run on Microsoft® Windows® or Linux® operating systems. The tool uses a command line dialog for operator command entry.

HIGHLIGHTS

- Remotely hosted software:
  - runs under Windows® XP, Windows® 7 and Windows® Server 2008
  - runs under RedHat Enterprise Linux®
  - level 2 switch management setup
- Uses serial port or IPMB connection to fabric switch in remote chassis
- Range of Ethernet Switch Fabric boards and PCI Express Switch Fabric boards available for VME, VXS, VPX and CompactPCI
- Command-line driven interface using plain text commands
- Uses the switch board's non-volatile memory to save configuration settings

- Supports a range of configuration and control commands, including:
  - switch setup and configuration display
  - hardware status display
  - VLAN setup and display
  - QoS configuration and display
- PCI Express configuration options include:
  - Transparent / Non-Transparent mode
  - PCI Express switch link/lane status
  - PCI Express switch register status
  - PCI Express switch statistics

CONCURRENT TECHNOLOGIES

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Fabric Switch Configuration Tool
- controls many switch features in Concurrent Technologies Ethernet switch fabric board products
- VME, VXS, VPX and CompactPCI® architectures
- tool operates on a host PC and communicates with the switch fabric board's firmware via a serial connection:
  → command line interpreter on host PC
- support for Microsoft® Windows® or Linux®
- level 2 switch management setup

Host Operating Systems
- Microsoft Windows® XP, Windows® 7 and Windows® Server 2008
- RedHat® Enterprise™ Linux®:
  → Linux ABI compliant software
- portable to other host operating system environments (contact your local sales office for details)
- serial port or IPMB connection to fabric switch
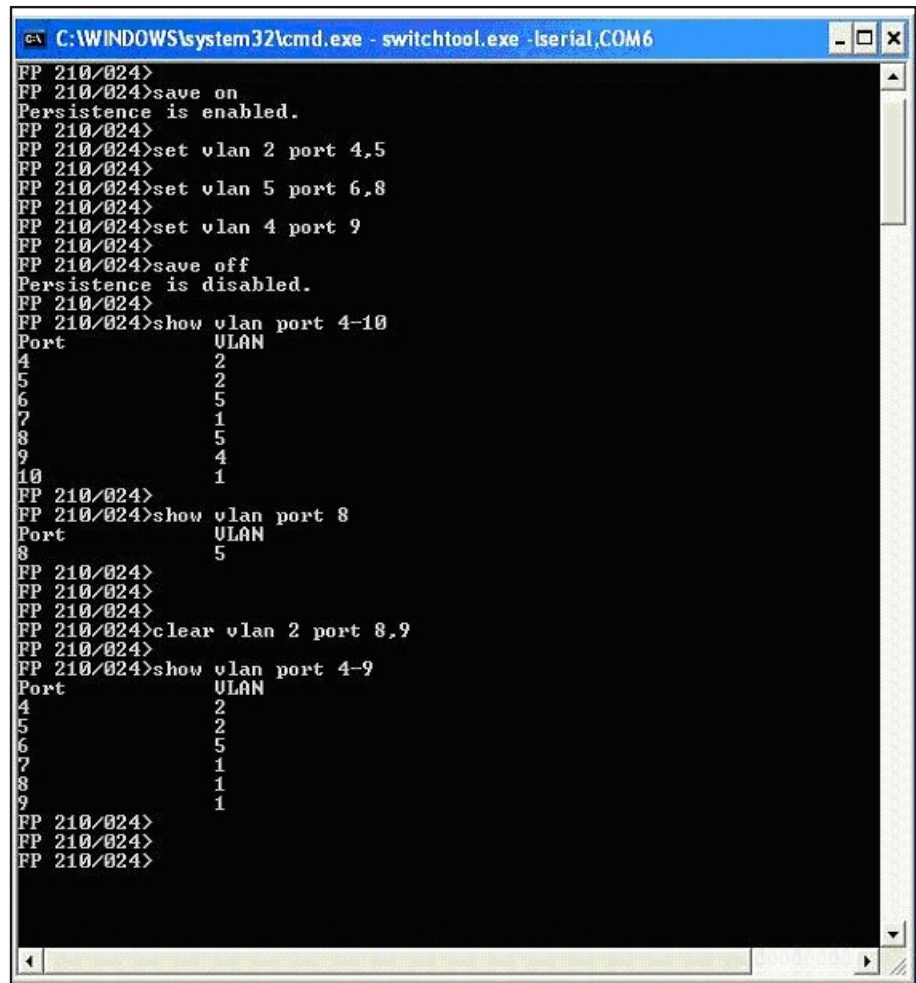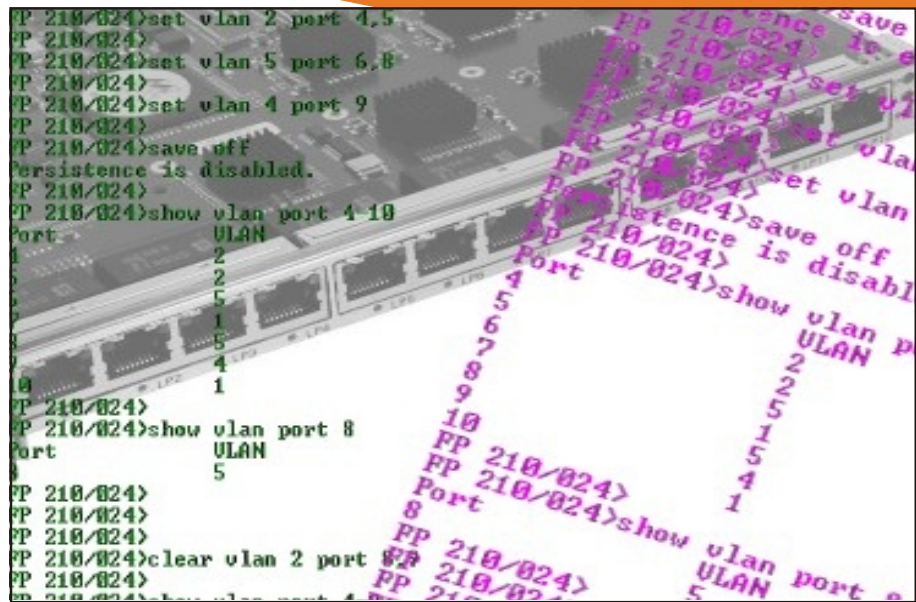- software tool is not required for normal operation of the switch

Operator Interface
- command-line driven
- plain text command language
- software allows for easy extension to support new switches and/or fabrics
- Concurrent Technologies support a range of fabric switch boards:
  → contact your local sales office for details

Switch Configuration Interface
- host connects to fabric switch via RS232 serial port or IPMB connection
- connection required only during setup or configuration change
- switch board provides support for non-volatile memory to save configuration settings

Command Options
- commands are available for the following types of operation:
  → switch setup and configuration display
  → control of non-volatile settings
  → Ethernet port setup and configuration display
  → Ethernet port statistics display
  → VLAN configuration and display
  → QoS parameter setting and display
  → PCI Express register access
  → PCI Express switch EEPROM access
  → configuration of Transparent / Non-Transparent modes
  → PCI Express switch link/lane status display

ORDERING INFORMATION

Order Number	Product Description (Software)
SW FSC/001-L0	Fabric Switch Configuration Tool