

SW Config: Web-based, User Friendly, Switch Set Up

This graphical, web based software allows quick and easy set up of WTL switches locally or remotely. The application is highly intuitive and can be used immediately without the need for extensive training or the use of difficult command line interfaces.

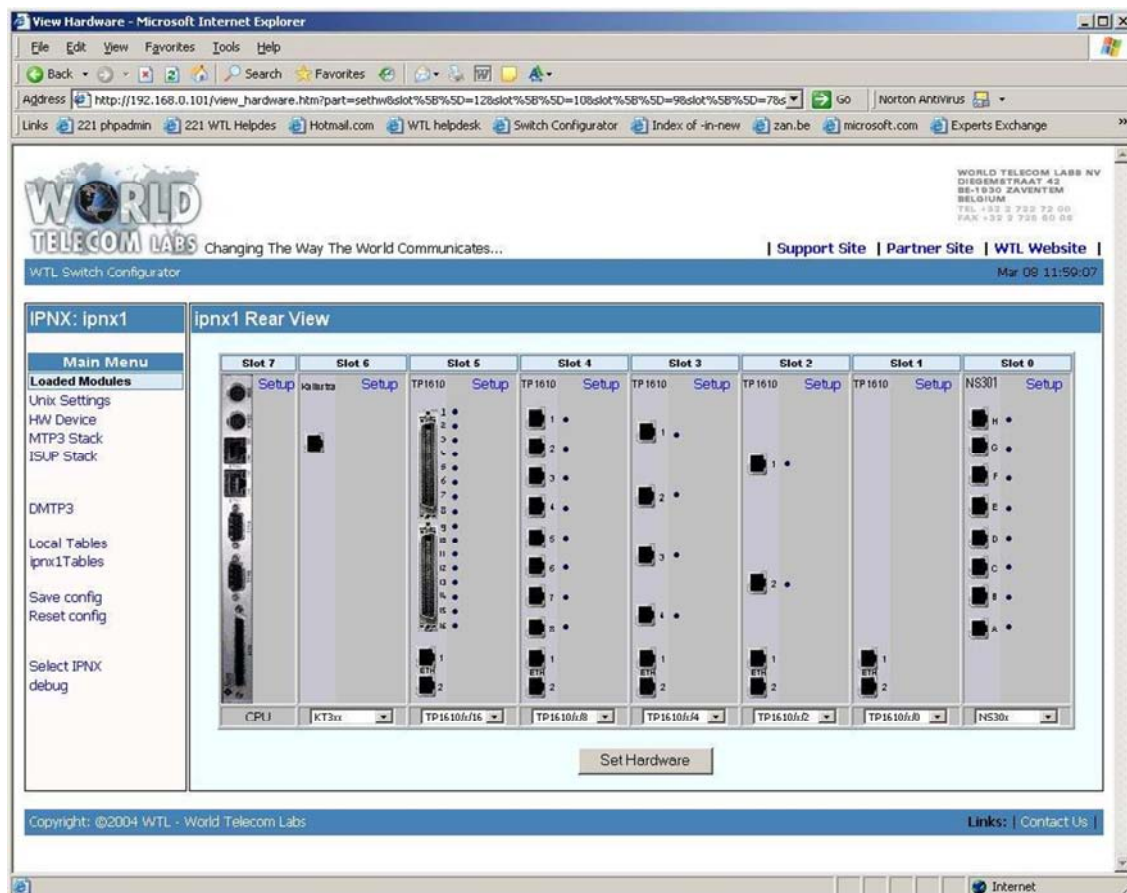
Also offered is a useful Status page which shows the health and performance of the network at a glance.

Save time, Avoid Errors

SW Config gives the network engineer a graphical view of the switch and the ability to click on the card and/or port to drill down and set the right parameters.

Intelligence is built into the application so that every data entry is value-checked to make sure that it is valid and that bad data cannot be sent to the switch. Drop down menus offer the valid options in a given situation and commonly used default configurations are available.

Parameter files are no longer edited directly and an improved table editor is also included.



Features

- All entries value checked
- Parameters can be changed in real time
- Works local or remotely
- Profiles available for common set-ups (for example, connection to Cisco)
- Supports IPNx, SoIP, PVx
- Supports multiple switches
- Remembers last 3 configurations (allows roll back)

Benefits

- Easier interface makes reconfiguration quicker
- Value checking and drop-downs to pick only valid entries reduces errors
- Risk of switch down time due to bad configurations is almost zero
- Operators only have access to the information that they are allowed to see
- Reverting to previous known working configuration is always possible in case of problems
- Default configurations have been pre-loaded to speed up common tasks
- Hot re-configuration is now supported in many areas – most changes can be made on the fly
- Easy backup and restoration of configurations
- Configuration files can be prepared in advance for activating at a later time.

Real Time Status Display

SW Config also contains a Live Update page which allows real time information about switch behaviour and carrier performance.

Information is updated every 10 seconds to give an instant view of critical indicators and an early warning of any problems which may be developing.

Carrier Summary

This shows at a glance all relevant data about the carrier trunks (VoIP or TDM) connected to the switch. This includes current information like Capacity and the Current and Maximum Number of Calls In & Out and also key metrics like Average Call Duration (ACD) and Call Success percentage (ASR).

Carrier Summary									
Carrier	Name	Capacity	In Now	Out Now	Max In	Max Out	Max Both	ACD (secs)	ASR %
25	MCI2	31	25	5	28	19	32	28	69
24	MCI1	31	24	4	29	20	32	30	65
23	BT3	31	23	4	30	18	32	30	67
22	BT2	31	19	7	29	18	32	29	70
21	BT1	31	19	4	28	19	32	29	78

System Status

A display gives useful status information about the switch itself: includes Software Version running, current state ('Running', Down etc), time since last restart, total connected minutes through the switch today and yesterday.

Resource Usage

There are certain shared resources in a WTL switch which need to be monitored to check that they are not being over-used. For example, Voice Resources are used to play messages, detect tones and convert TDM calls to VoIP. In times of peak usage, calls will be rejected if no Voice Resources are available.

SW Config gives a graphical view of Voice Resource and Hard Disk usage allowing the operator to easily see the current utilization.

Hard Disk Usage (not updated live)						
File System	Mounted On	Partition Size (Mb)	Used (Mb)	Free (Mb)	Used %	Overview
/dev/dsk/c0t0d0s0	/	2031.7	912.2	1058.6	47.0	
/dev/dsk/c0t0d0s6	/usr	4128.4	2126.9	1960.2	53.0	
/dev/dsk/c0t0d0s1	/var	385.2	246.6	100.0	72.0	
/dev/dsk/c0t0d0s4	/usr2	26046.2	12.8	25772.9	1.0	
/dev/dsk/c0t0d0s5	/usr3	5208.9	7.2	5149.6	1.0	
/dev/dsk/c0t0d0s7	/export/home	95.6	0.0	86.0	1.0	

Who Should Use It?

SW Config is targeted at WTL customers or distributors who need to modify their switch configuration. Customers who take a switch management contract from WTL will not need this. Of course, WTL engineers themselves will be some of the main users of SW Config and will use the application to assist customers with planned reconfigurations.

SystemS Architecture

An Apache web server runs on one (or many) of the WTL switches in the network and a series of PHP modules implement the SW Config functionality. Engineers (with the correct security) can log in to the system from a browser on any PC.

The web server within the WTL switch must have a known IP address or host name in order to be accessible. This may be a public IP address or may be protected within a VPN.

