UX2000 Web Based Management

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Today IT organizations need a cost effective way of managing branch office appliances. The UX2000 web based management tool allows IT administrators to centrally manage the Survivable Branch Appliance (SBA) from their headquarter location. The UX2000 Web User Interface (Web UI) increases administrator's effectiveness so they can quickly deploy UX nodes in remote branch offices as well as respond to events and issues as they arise.

The UX2000 Web User Interface offers a full set of features including those listed below:

• Allows remote administrator to manage, configure, and monitor nodes

• Simplifies logging into the UX node using Active Directory credentials

• Administrators can perform "Task based" system configuration

This whitepaper describes the UX capabilities of configuration, monitoring, and managing the node through Web UI.

• Configuration: Using the Web UI, administrators can implement dial plans, configure IP interfaces, select routing protocols, create calling routes, and perform digit manipulation

• Monitoring: The UX2000 provides real-time call state information for all calls on all interfaces – TDM and VoIP calls. The UX supports a push model in which the call states changes are automatically sent to the web user interface. Using the real time monitoring, administrators can monitor calls and view trunk utilization in real time

• Management: Administrators can manage configuration changes remotely. The administrator can also reboot system, start and stop services running in the integrated Applications Solutions Module (ASM)
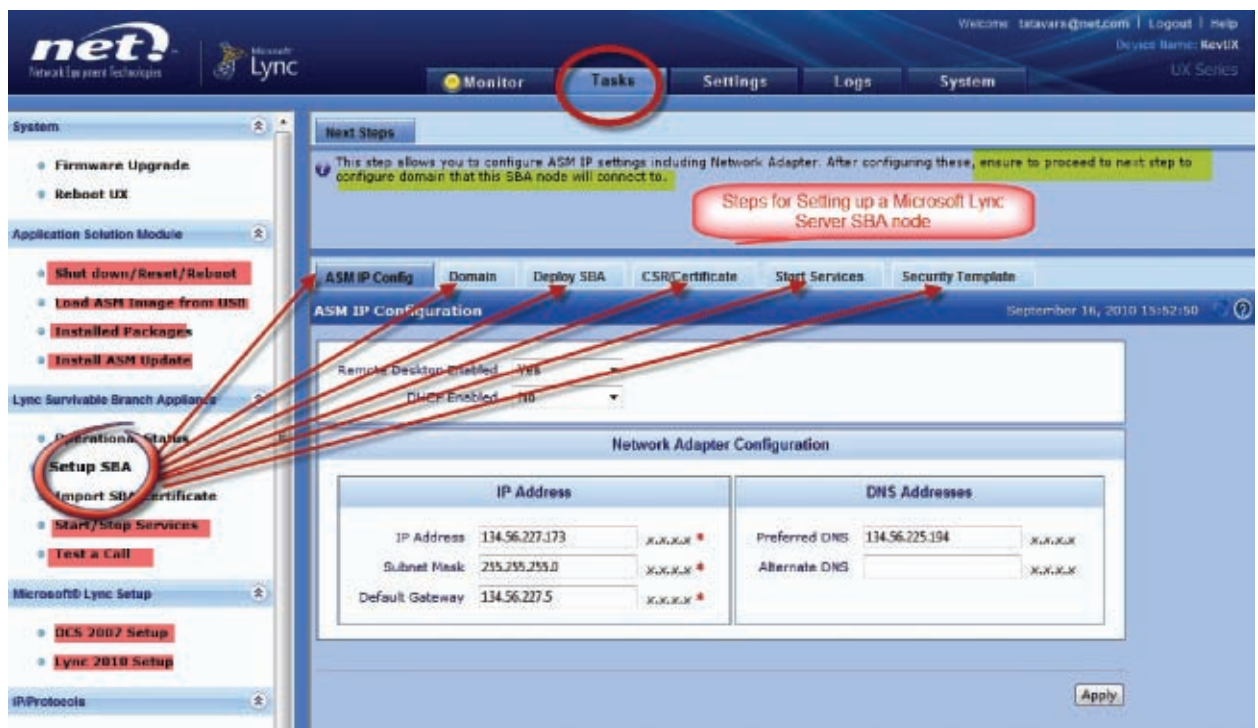
CONFIGURATION

Task Based User Interface

Every task requires performing several steps to complete which leads to errors. Administrators may not know the sequence of steps needed to complete the task, or inadvertently skip a step. The UX implements a task based user interaction to assist the administrator to complete the task effortlessly and with least amount of training required.

The UX Web User Interface has a wizard-like interface to complete the most commonly used tasks by the administrator. The task helps the administrator navigate through the different steps required to complete the task. It also supports forward and backward navigation among the steps.

Because the individual steps are distinct tabs, the administrator has the flexibility to pick the tab to work on next rather than have to follow the rigid sequence of steps.

MONITORING

Real-Time Monitoring

UX2000 provides detailed real time monitoring of all call, channel, and alarm activity on the node enabling the administrator to provide timely corrective action as required. With the help of a Web User Interface, administrators can easily monitor network performance and view call data from remote location.

Using the UX web user interface, administrators can view all the channels in a node, trace calls, monitor source to destination call performance, and track network alarms on the port and channel. It is easy to monitor call properties by simply clicking on any active call at any time to view both the called and calling party information.

Since the UX relies on push method to show events, the alarms and events
are shown in real time.

STATISTICS

The statistics dashboard shown below helps monitor the calls that are
processed by the UX node.

The global call counters is an aggregate of the counters across different ports
and channels.

LOGS

The event logs enable an administrator to view information about any event that occurs on the system. Some of these events can include configuration changes, warnings, alerts, component failures, etc.

Features and Benefits of Remote Monitoring

- Provides complete visibility of all transactions/call activity metrics in real time or near real time

- Shows event based alarms

MANAGEMENT

Remote Software Deployment

UX2000 remote software deployment allows for one-click software distribution to remote sites from a central location. The main goal of the remote installation is to reduce effort required for install, uninstall, and update.
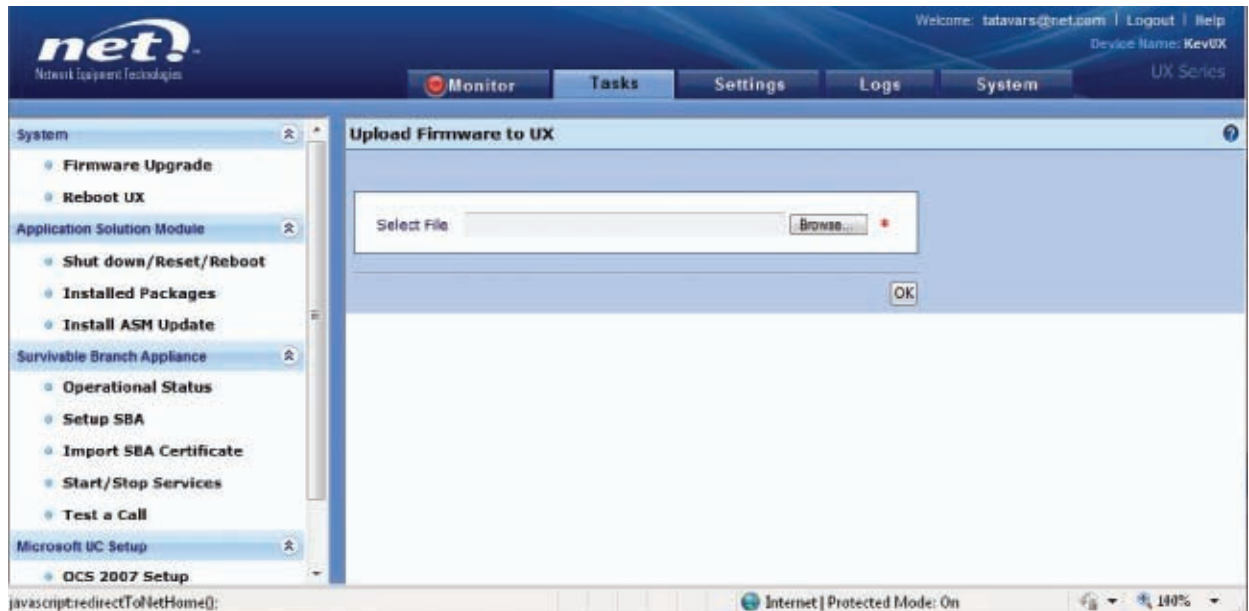
Features and Benefits

• Remote sites can be upgraded with the latest firmware without physically visiting each remote location

SYSTEM OVERVIEW & INVENTORY

With the web user interface, an Administrator can view UX node component details such as Line cards, DSP modules, Application Solutions Module, Main board, Power supply, etc. An Administrator can conduct data gathering without having to visit the remote sites.

Cards/Modules Status

Total 14 Modules

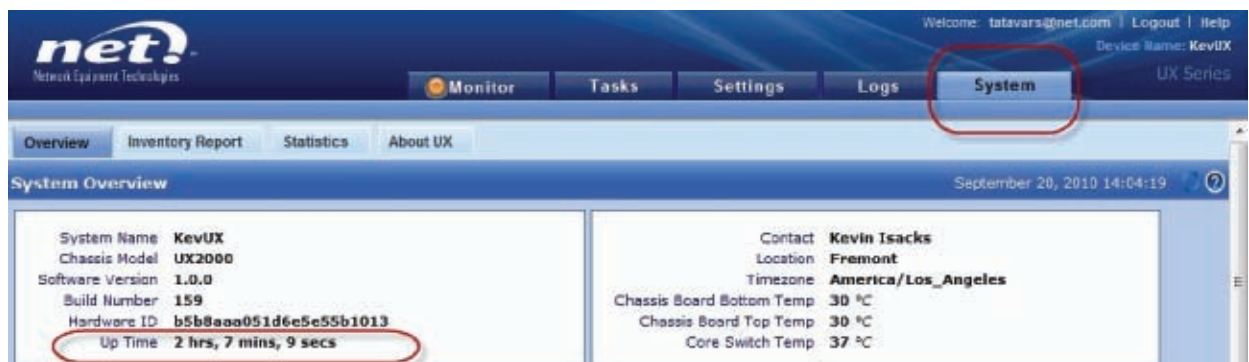| Module ID	Type	Location	Service Status
1	DS1 w/ 8 Spans	Line Card 1	Activated
2	Not Installed	Line Card 2	Unknown
3	MSPD C910 Board	DSP Module 1	Activated
4	Not Installed	DSP Module 2	Unknown
5	Not Installed	DSP Module 3	Unknown
6	Not Installed	DSP Module 4	Unknown
7	Not Installed	DSP Module 5	Unknown
8	Not Installed	DSP Module 6	Unknown
9	Not Installed	BITS WAN	Unknown
10	Not Installed	SFP Module	Unknown
11	COM Express	COM Express	Activated
12	Main Board	Main Board	Activated
13	Power Supply	PSU Left	Activated
14	Power Supply	PSU Right	Activated

Physical Ports Status

Total 14 Ports

Port ID	Port Type	Admin State	Service Status
Port 1:1	E1	Down	Down
Port 1:2	E1	Down	Down
Port 1:3	E1	Down	Down
Port 1:4	E1	Down	Down
Port 1:5	E1	Up	Up
Port 1:6	E1	Down	Down
Port 1:7	E1	Down	Down
Port 1:8	E1	Down	Down
lan1	Ethernet	Up	Up
lan2	Ethernet	Up	Down
lan3	Ethernet	Up	Down
lan4	Ethernet	Up	Down
Admin	Ethernet	Up	Down
asm1	Ethernet	Up	Up

Power Supplies

Total 2 PSUs

PSU ID	Is Present	AC Input Good	Power In (W)	Power Out (W)	Voltage In (Nominal-AC)	Voltage Out (DC)	Current In (A)	Current Out (A)	Temp (°C)	Fan 1 Speed (RPM)	Fan 2 Speed (RPM)
PSU Left	✓	✓	26	12	115	12.000	0.226	0.800	29	6999	8962
PSU Right	✓	✓	80	36	115	12.000	0.694	3.039	42	6740	6721

Fans State

Total 9 Fans

Fan ID	Speed (RPM)
1	11264
2	10752
3	10496
4	11520
5	11008
6	10752
7	11008
8	10496
9	10496