Smart NMS
Smart Network Management System

Smart NMS Overview
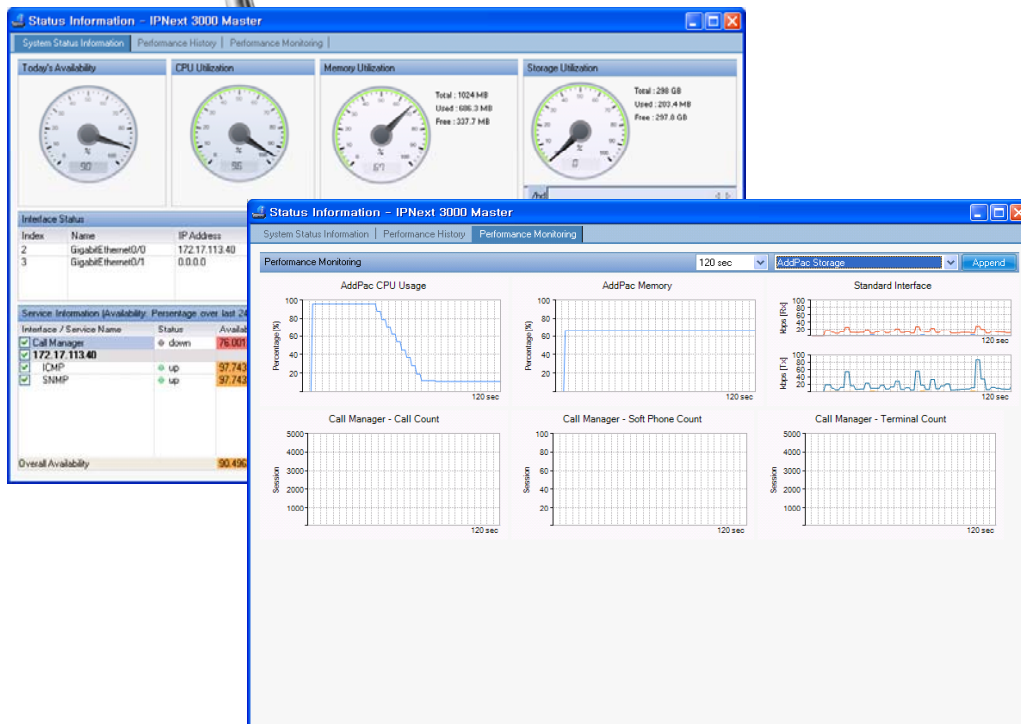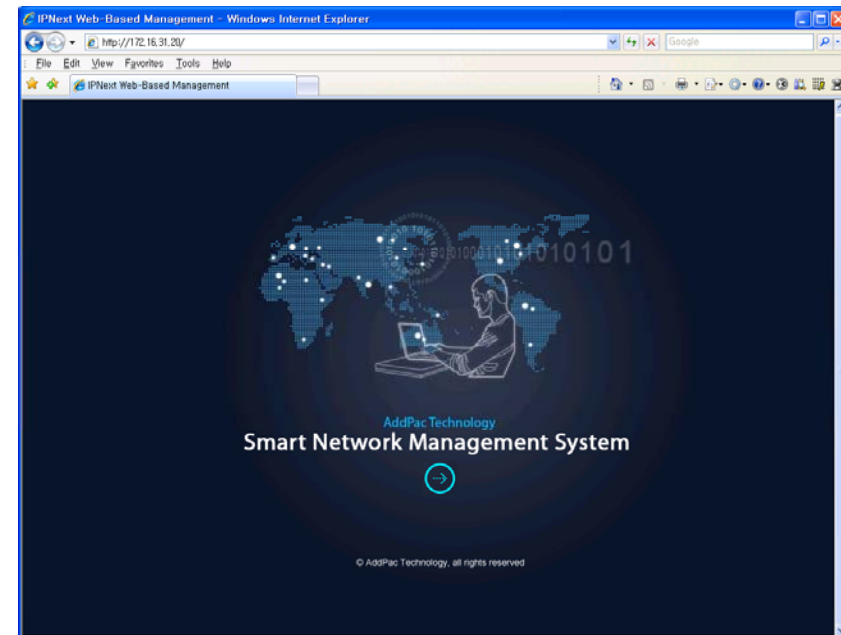

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System Requirement

NMS Server

- OS : RHEL (Redhat Enterprise Linux) 5.0 or higher

- CPU : Quad-Core 2.0 GHz / 1333MHz FSB 2x4 MB cache

- Physical Memory : 4 GB

- HDD : 300 G

- JRE (Java Runtime Environment) 1.5.1 or Higher

- Database : PostgreSQL 8.1.11

NMS Client

- Windows XP, Vista, Windows Server 2000/2003

- Microsoft Internet Explorer 6.0 or higher

NMS Networking Diagram
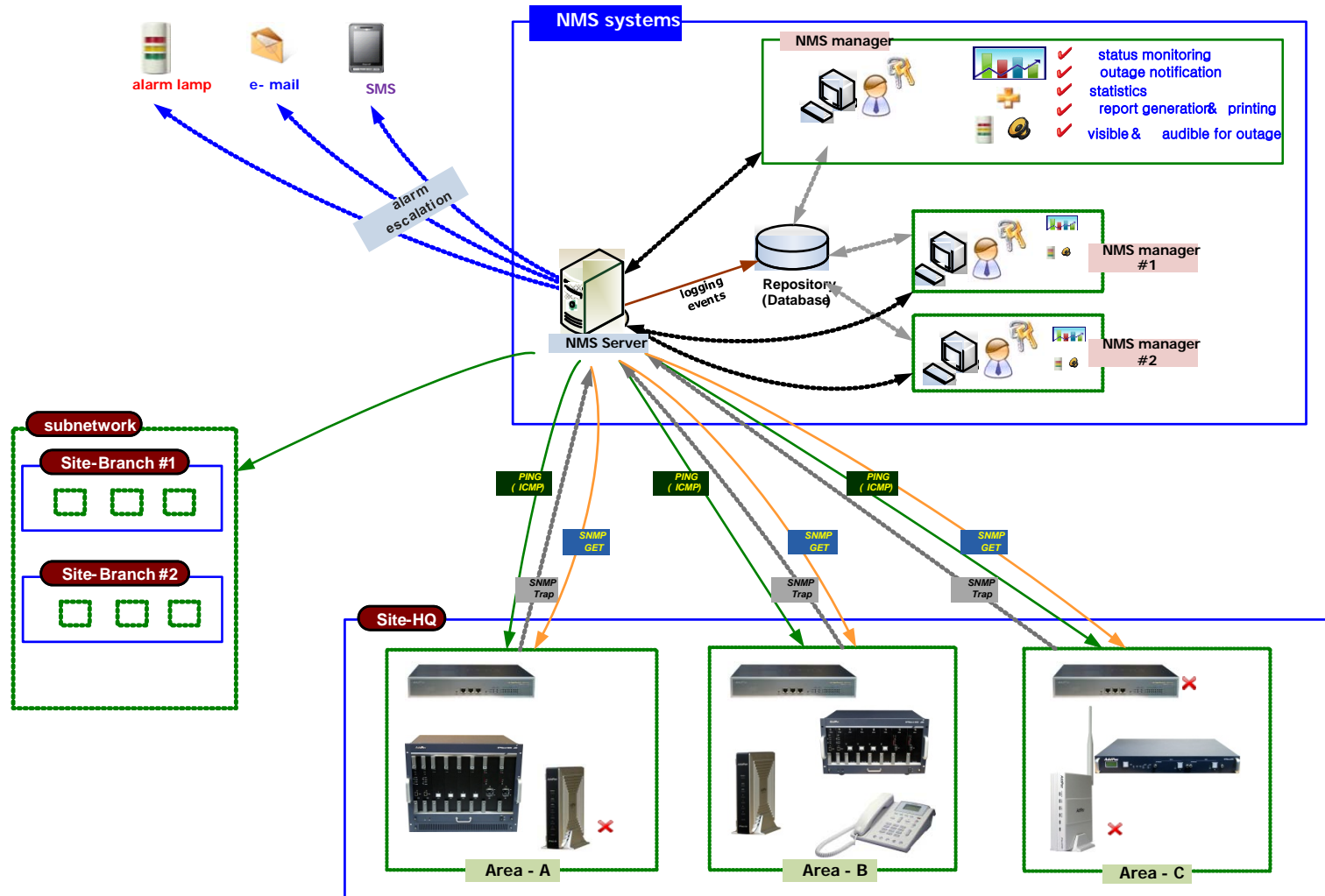
Web-based Management

- **Easy Access via Web browser**
  - Microsoft Internet Explorer 6.0 or higher compatible

- **Version Control**
  - Automatic version check
  - New version software download feature

- **UI control**
  - User friendly GUI management

Version Control

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Web-based Login

Network Resource Management

- Network resource management with hierarchical structure
- Role-based resource management for each administrator

manage the complex network with a structured, hierarchical form

can assign the hierarchical node to the operator and manage role-based policy

can cooperate with the application executables such as SMM

Device Fault Management

- Centralized fault summary information in main window
- Display current fault device through tree view
- Notify administrator with detailed fault information
- Provide device availability information for 24hrs

Device Fault Management

Device Fault Management

Device Fault Management

device status matrix with small view mode

Device Fault History Management

- Provide both summary view and detailed event message
- Can Write troubleshooting job note for each event manually
- Administrator can query for a history fault with search condition
- Each fault is related to the several raw events

Device Fault History Management

Device Fault History Management

Current Device Fault (Outage)

Device Event History

Device Status Information

- System Performance Information (CPU, HDD, Memory,…)
- Provide device current service status (up/down)
- Provide device main status (max value vs current value)
- Display Graph Series with System Performance Information
- Monitor Main Status Flow with System Monitoring View

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Device Status Information

Device Status Information

performance analysis graph for last 24 hours
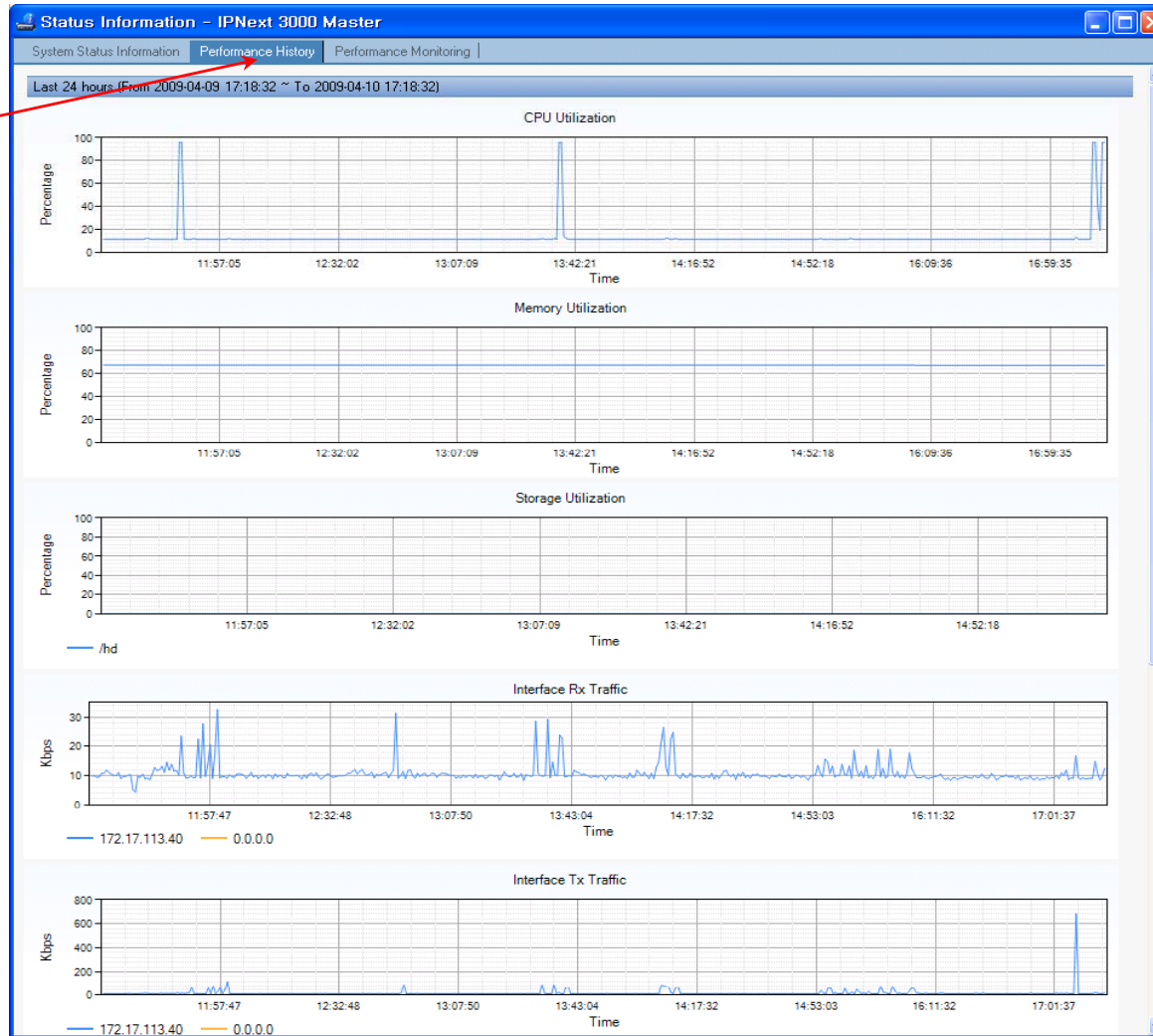
Device Status Information
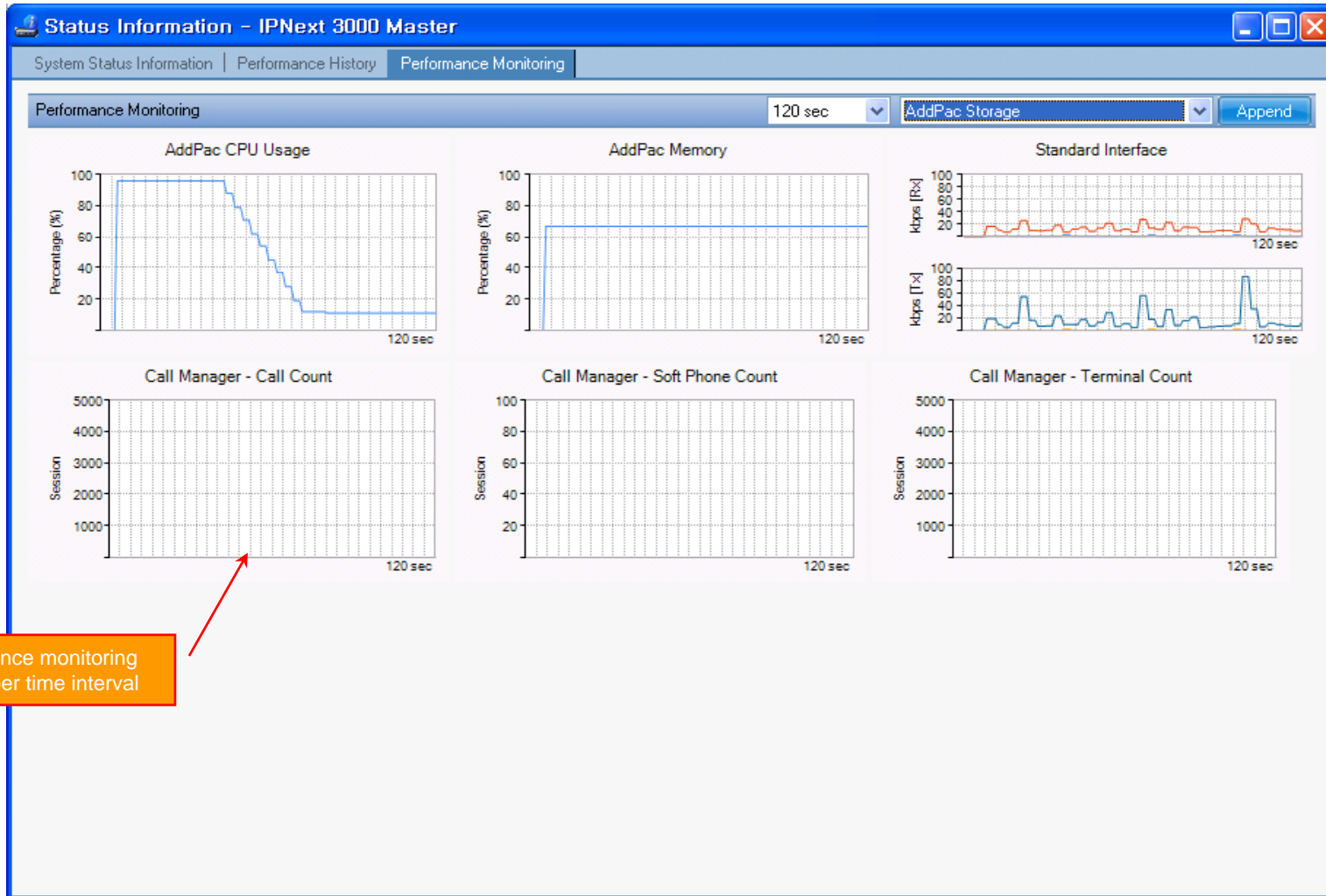
performance monitoring with proper time interval

Notification Management

- Notify administrator for important event such as critical device fault when proper action needs
- Provide several notification channel such as SMS, e-mail, alarm lamp
- Notification channel configuration for each event
- Manage notification with device category such as Server, Terminal, PC, etc
- Provide Alarm with audible (play sound), visible (alarm lamp) form

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Event Notification Management

apply notification policy with event-based filter
(example : notify me when network link of device is downed through SMS, e-mail)

specify category when each event occurs

describe notification message content for e-mail or SMS

Event Notification Management

Event Notification Management

Configuration

global notification channel configuration

Audible & Visible Alarm

notify operator (or administrator)
1. Alarm lamp blink (on&off) (visible)
2. play alarm sound (audible)

can synchronize with alarm lamp equipment

Fault Statistics

- analyze for a fault event with graph and detailed list data
- Report form generation and print out for statistics result

Fault Statistics

display graph for fault statistics with various search condition

display detailed data for fault statistics

Fault Statistics – Report Generation

report generation for fault statistics and print out the result
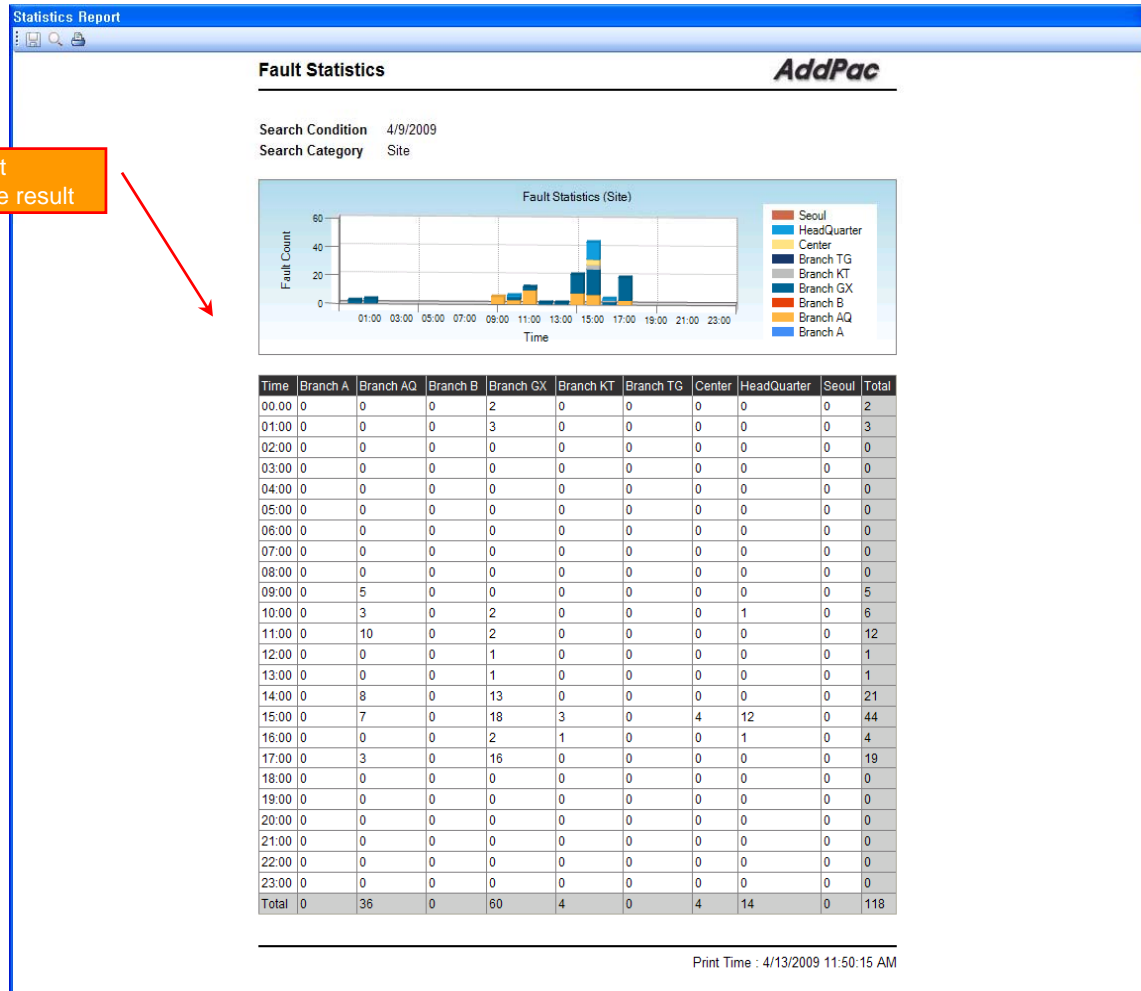
Model & Service Management

- Define new model with provided template image & properties
- Customize data collection with standard protocol such as TCP, SNMP

Device Model Management

manage device model with various properties such as model image

model image repository for selection

Service Definition

define the service for data collection, current status with standard protocol such as TCP or SNMP

Thank you!

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