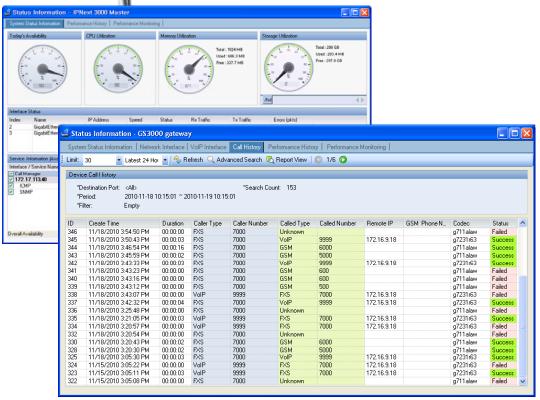


Smart GSM NMS

Smart Network Management System

Smart GSM NMS Overview



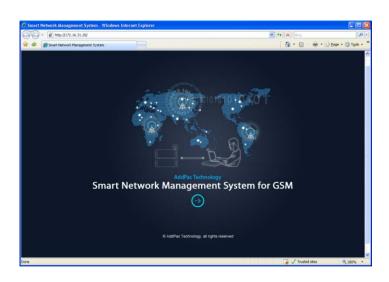


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Contents

- System Requirement
- Smart NMS Networking Diagram
- Main Features
- Smart NMS CDR Process Diagram
- Smart NMS Networking Diagram
- Web-based Management
- Call Statics
- Call Statics Report
- Network Resource Management
- Device Fault Management
- Device Fault History Management
- Device Status Information
- GSM Gateway Management
- Notification Management
- Fault Statistics
- Model & Service Management





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

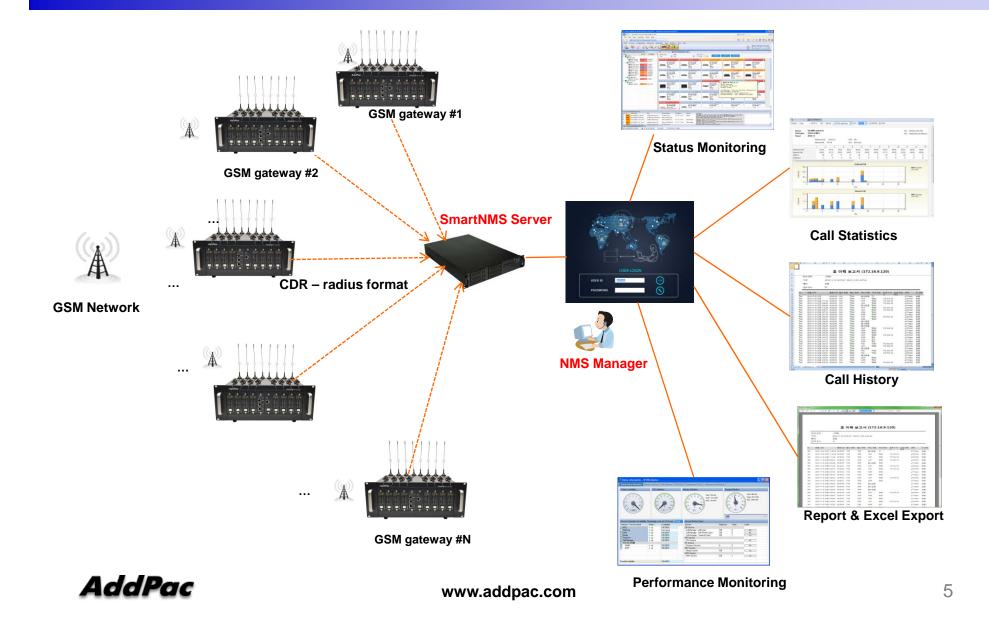


Main Features

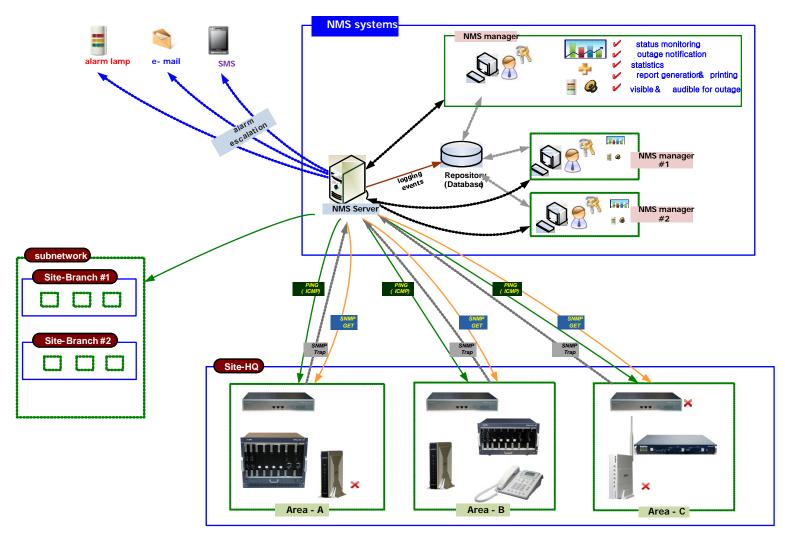
- Smart directory server(LDAP) and data(device, end-user..) integration.
- Site level management for the device and group.
- Auto provisioning for each GSM gateways.
- Event and notification management.
- Dashboard-styled real-time fault monitoring for GSM gateways.
- Port status and summary for GSM gateways (call history and statistics).
- Fault statistics for GSM gateways.
- Batch processing for GSM gateways (initialize, backup, restore, upgrade, batch script, batch excel).
- System backup and restore of the SmartNMS operating data.



Smart NMS CDR Processing Diagram



NMS Networking Diagram





Web-based Management

Easy Access via Web browser

Microsoft Internet Explorer 6.0 or higher compatible

Version Control

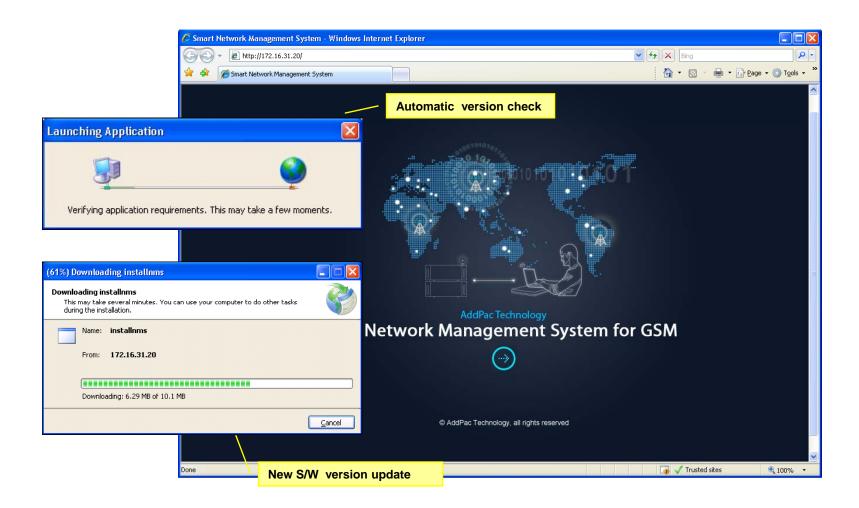
- Automatic version check
- New version software download feature

UI control

User friendly GUI management

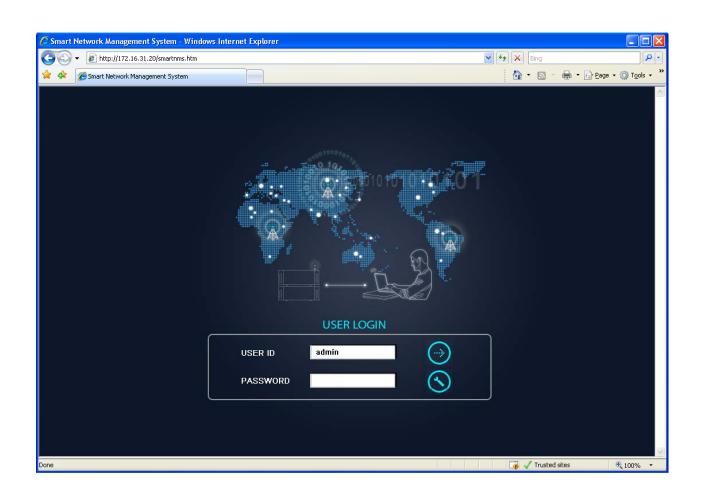


Version Control





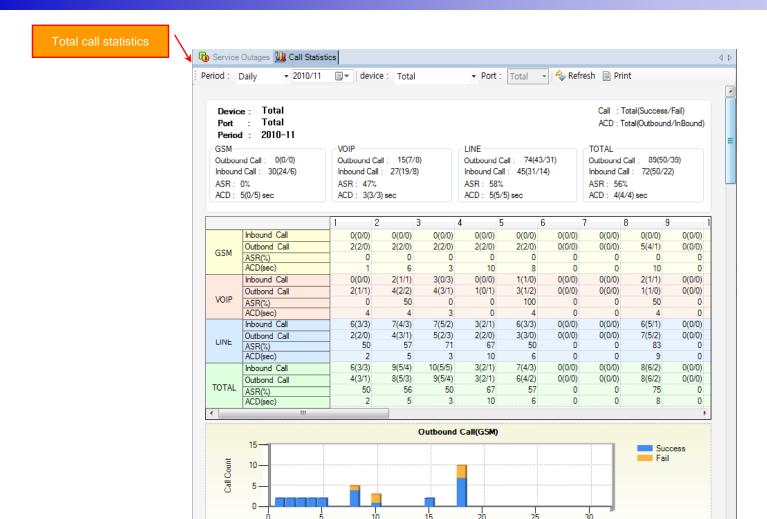
Web-based Login





- SmartNMS receives CDR data for calls which is used for call statistics from the VOIP or GSM gateway.
- You can get statistics data with various time interval conditions such as daily and monthly basis for the device and VOIP port.
- Report statistics can be exported to the various document formats such as PDF and MS-Excel.





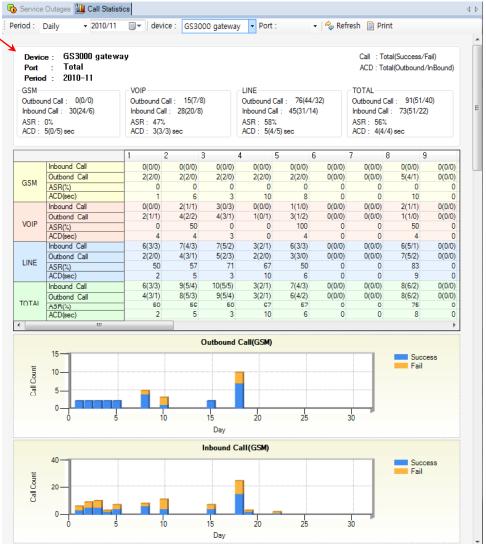


Day



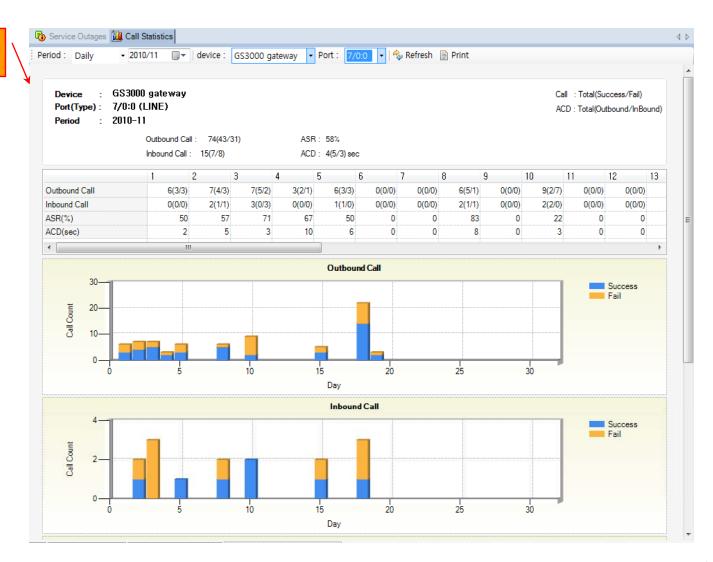


Call statistics for the specified gateway.





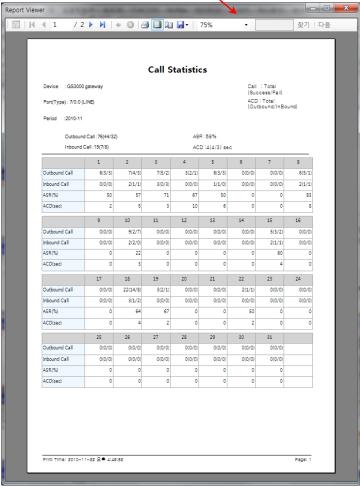
Call statistics for the specified port of the GSM gateway.

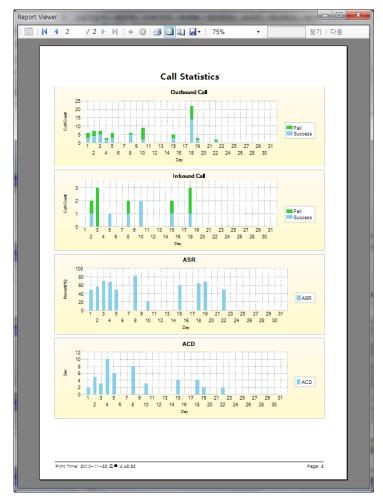




Call Statistics Report

Can export to MS-Excel document or PDF and printout for the call statistics.

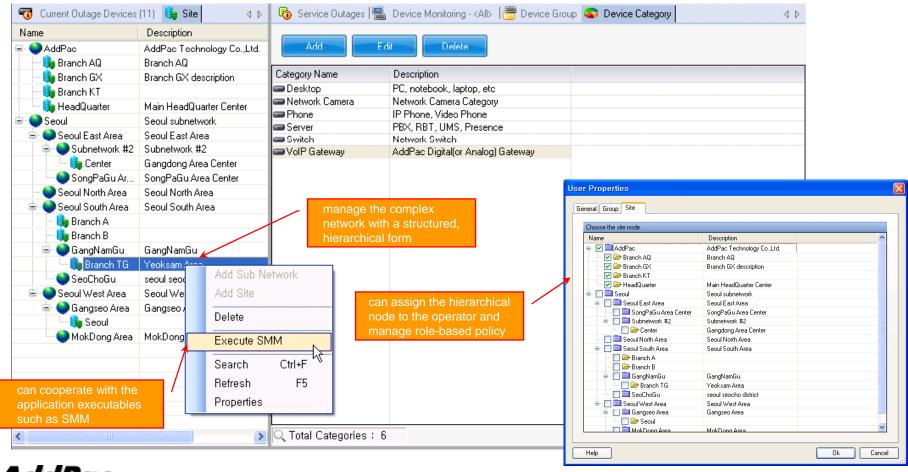






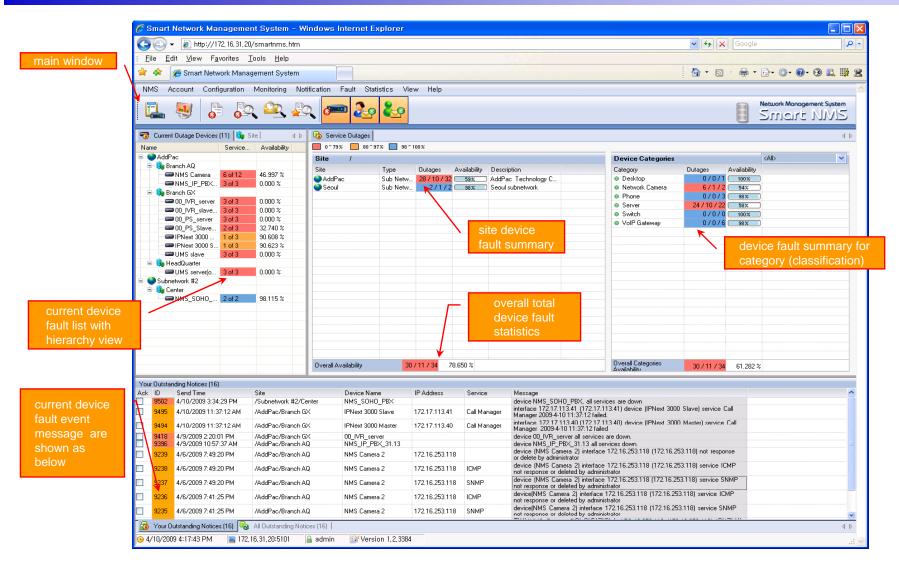
Network Resource Management

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

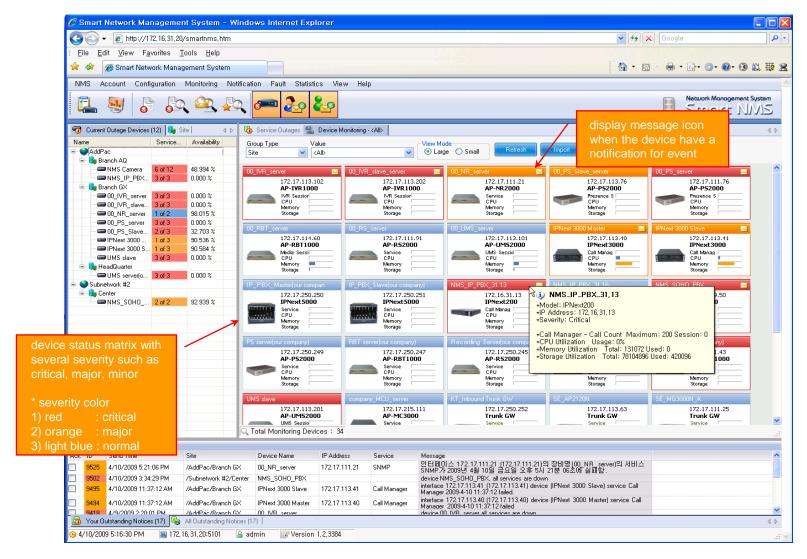


- Centralized fault summary information in main window
- Display current fault device through tree view
- Notify administrator with detailed fault information
- Provide device availability information for 24hrs

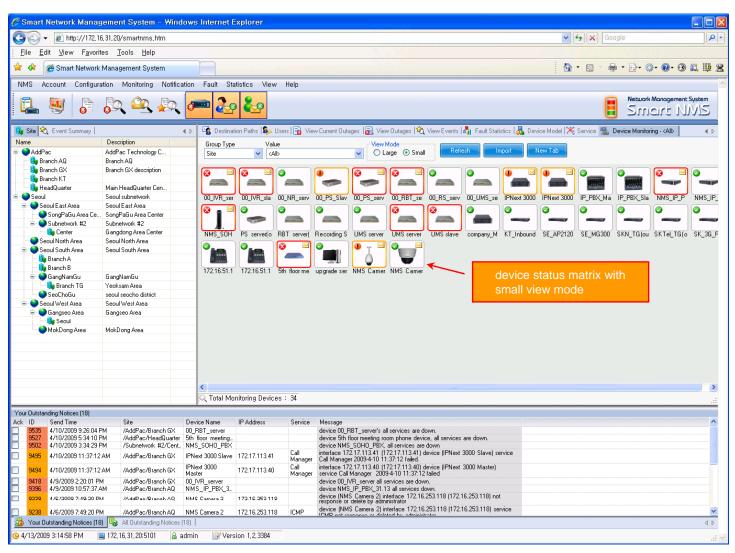












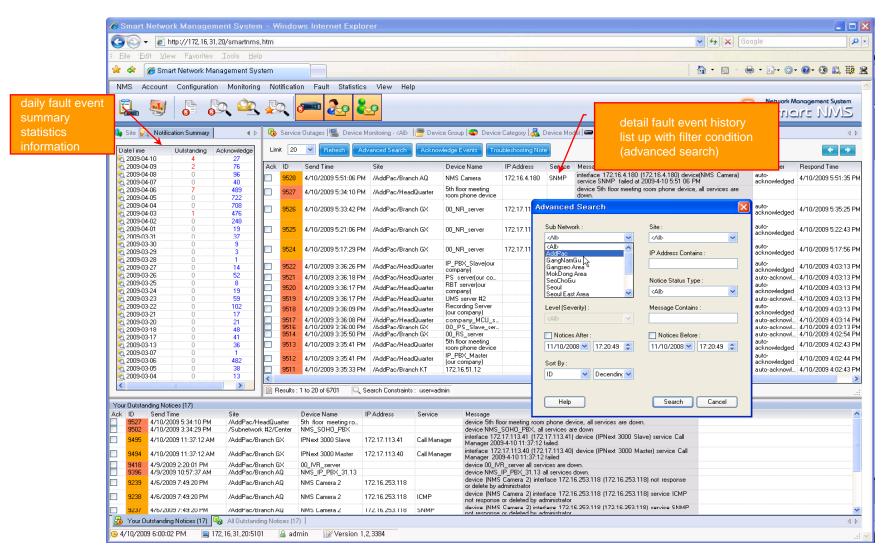


Device Fault History Management

- 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

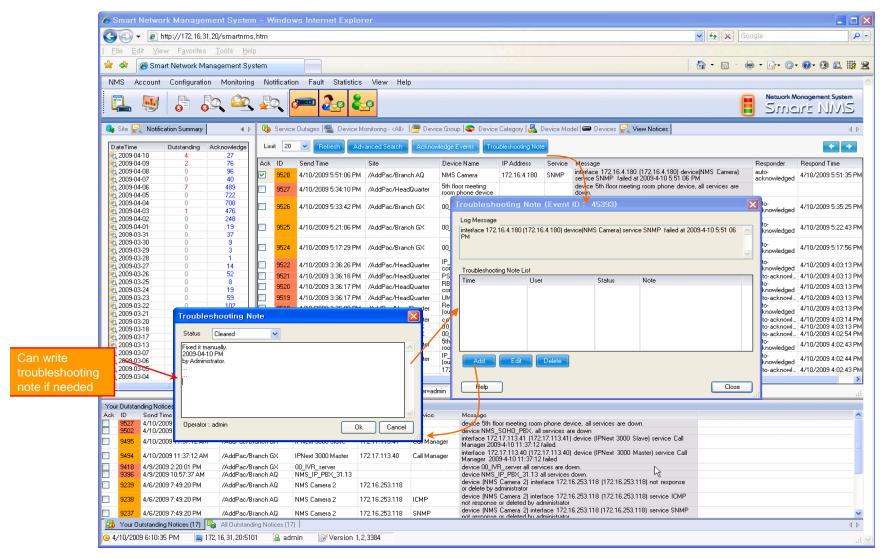


Device Fault History Management



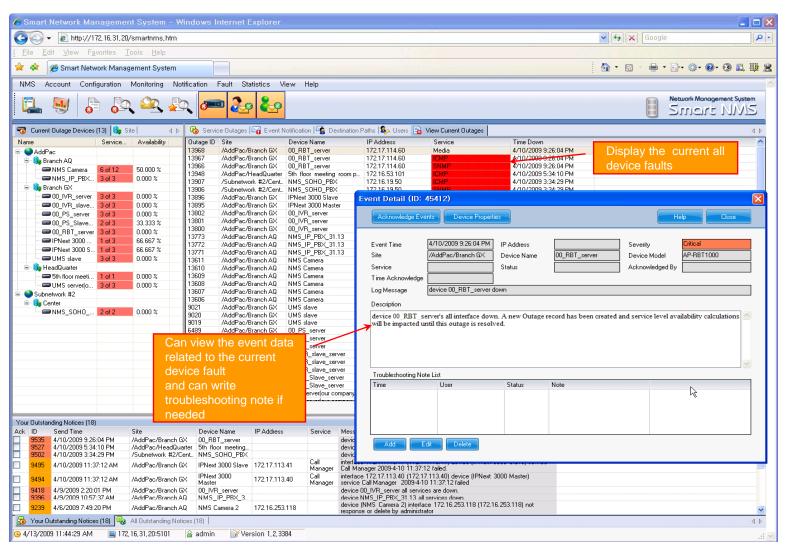


Device Fault History Management



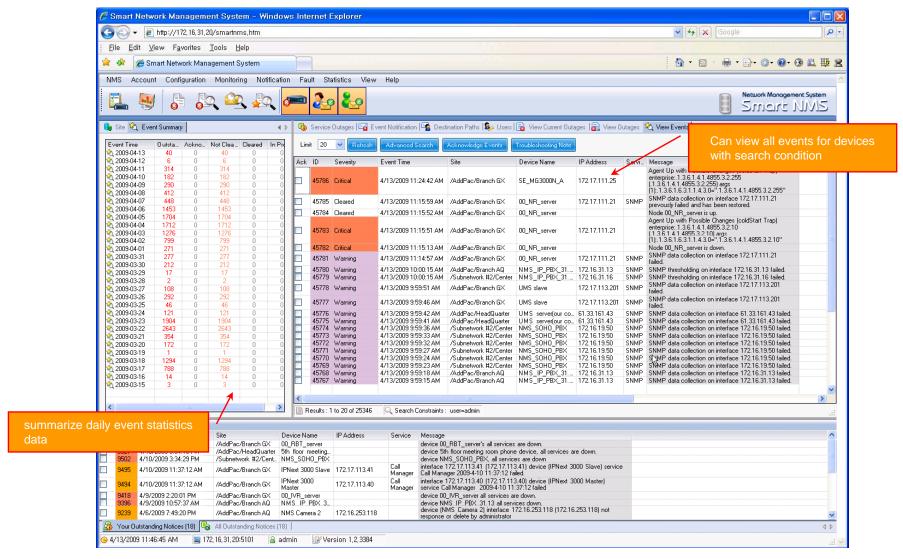


Current Device Fault (Outage)





Device Event History



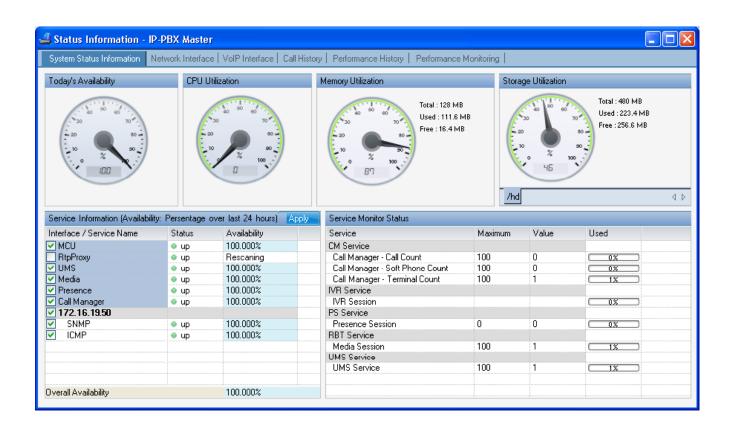


Device Status Information

- System Performance Information (CPU, HDD, Memory,...)
- Provide device current service status (up/down)
- Provide device main status (max value vs current value)
- Provide network interface status (up/down & network traffic)
- Provide VoIP interface status and call statistics.
- Search call history for the device and port
- Display Graph Series with System Performance Information
- Monitor Main Status Flow with System Monitoring View

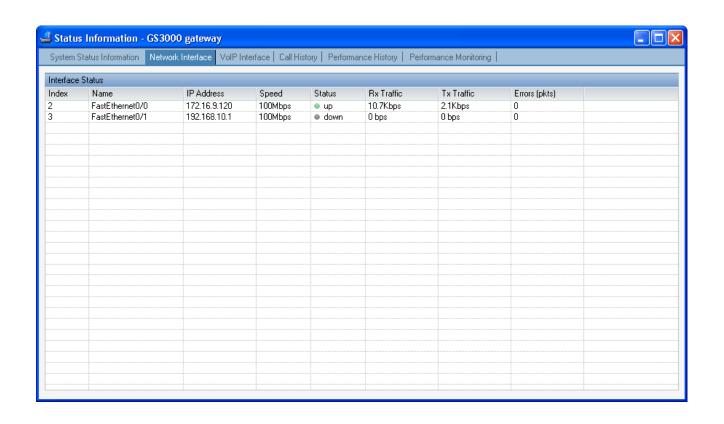


System Status Information





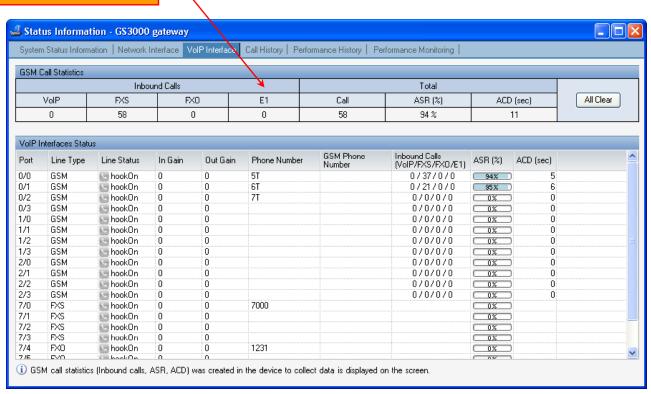
Network Interface





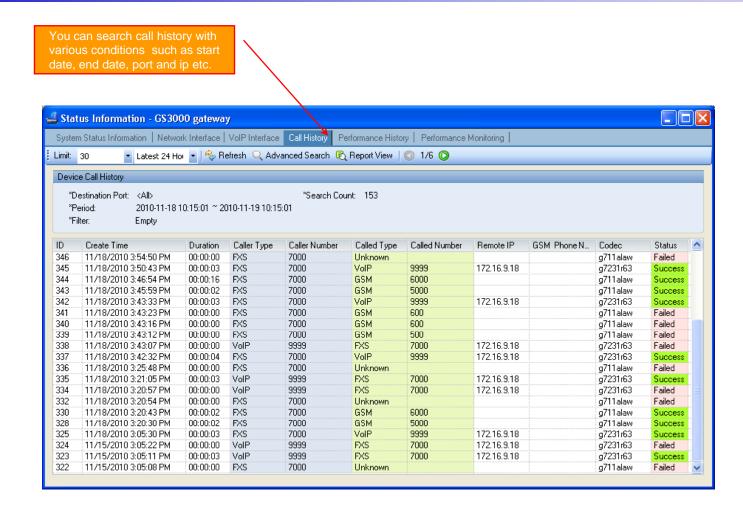
VoIP Interface

You can view call summary informations such as total call, ASR, and ACD for the GSM gateway device each





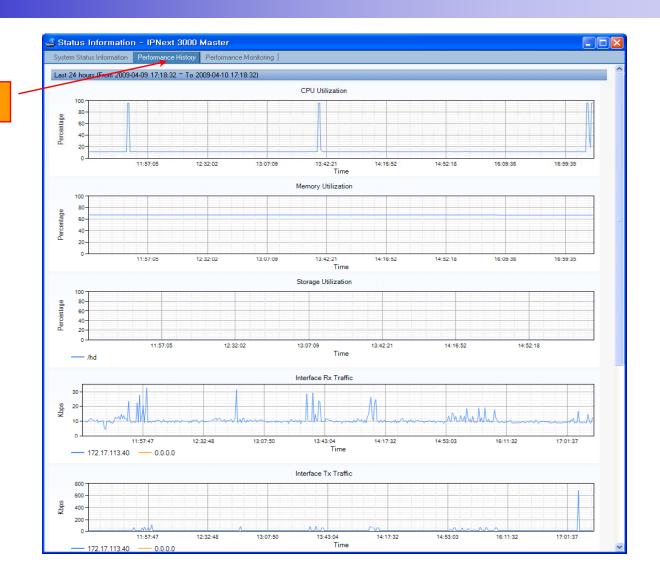
Call History





Performance History

performance analysis graph for last 24 hours





Performance Monitoring



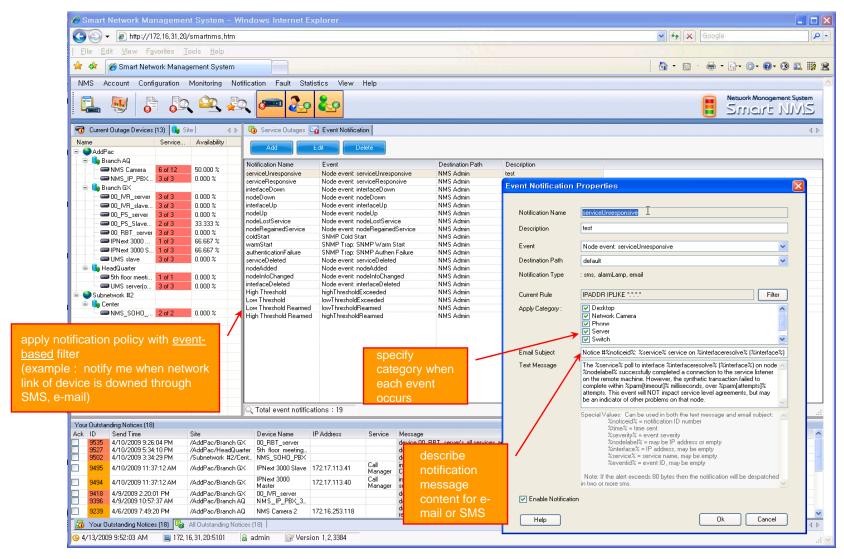


Notification Management

- 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

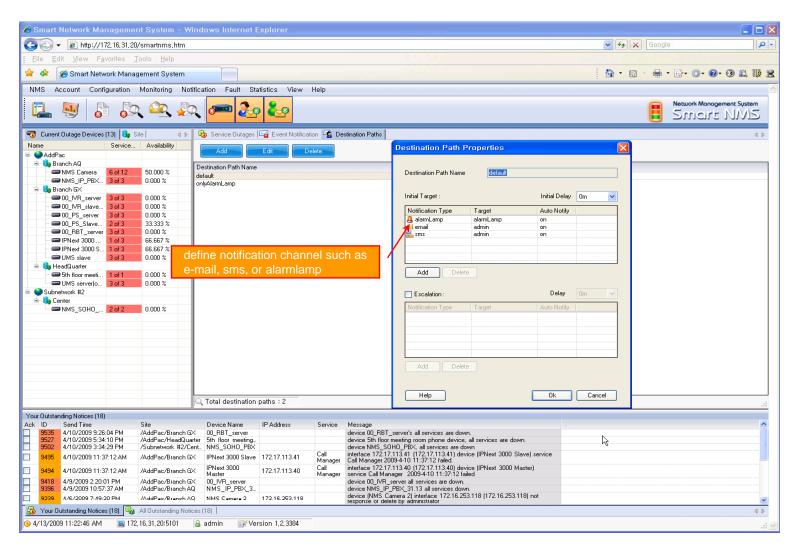


Event Notification Management



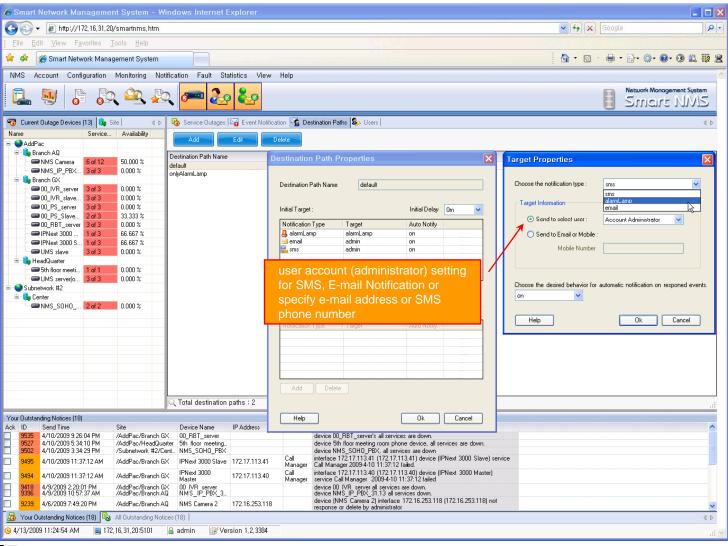


Event Notification Management



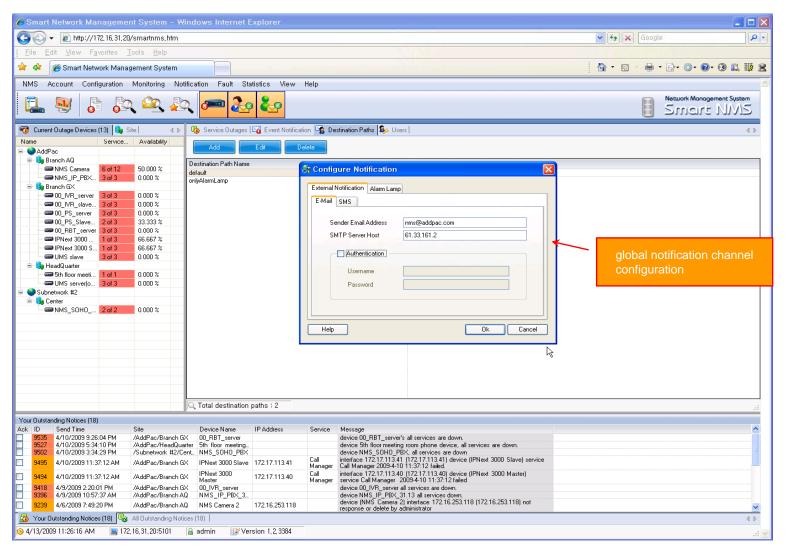


Event Notification Management





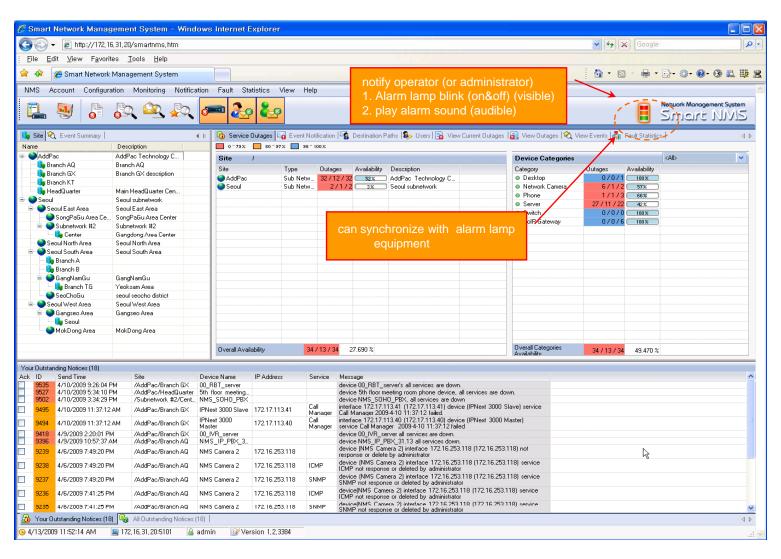
Configuration



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Audible & Visible Alarm



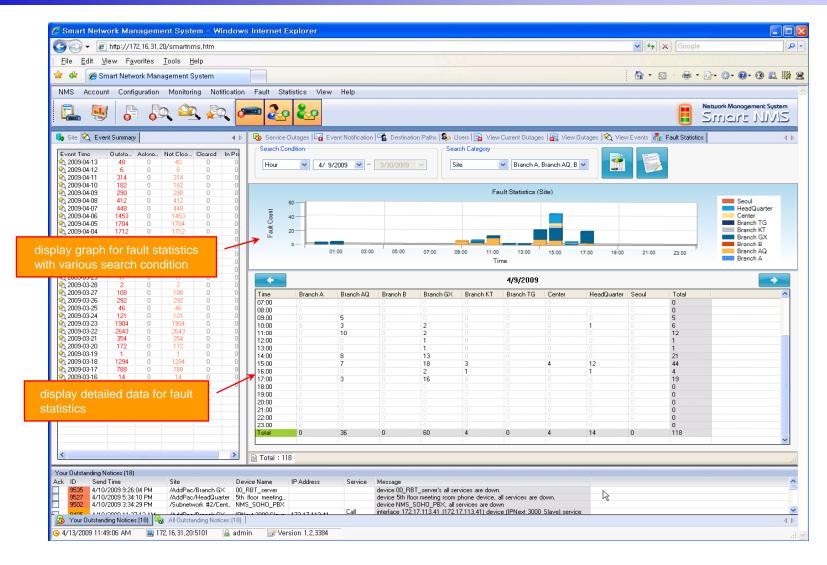


Fault Statistics

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

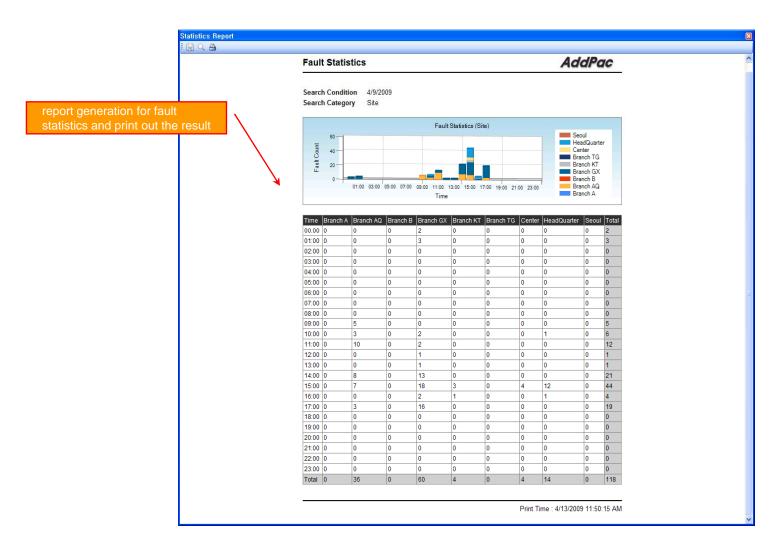


Fault Statistics





Fault Statistics – Report Generation



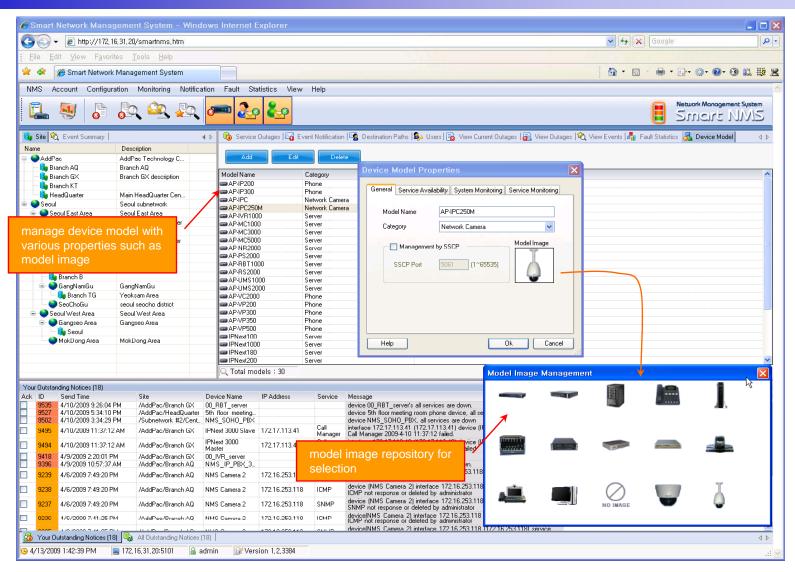


Model & Service Management

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

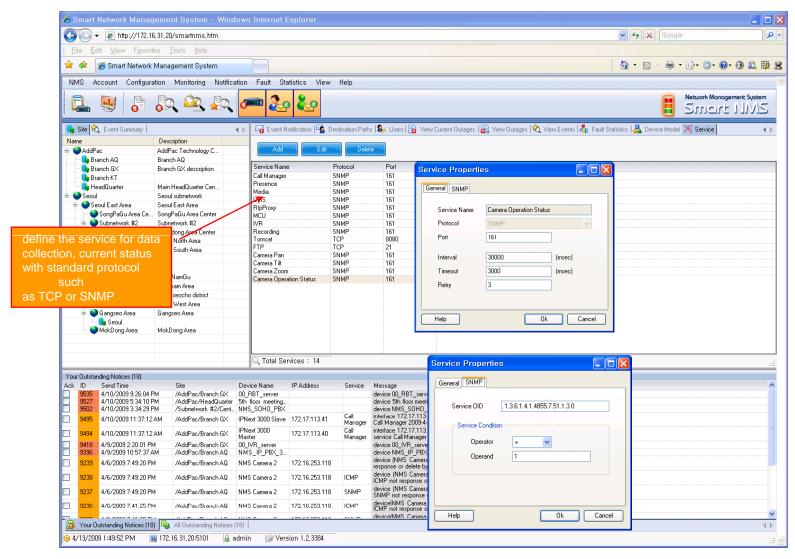


Device Model Management





Service Definition





Thank you!

AddPac Technology Co., Ltd. Sales and Marketing

Phone +82.2.568.3848 (KOREA) FAX +82.2.568.3847 (KOREA) E-mail sales@addpac.com

