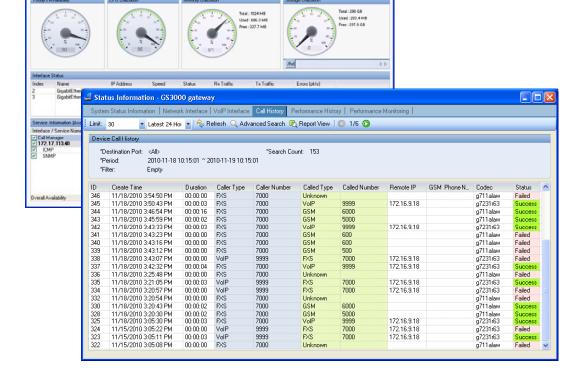


## **Smart GSM NMS**

Smart Network Management System





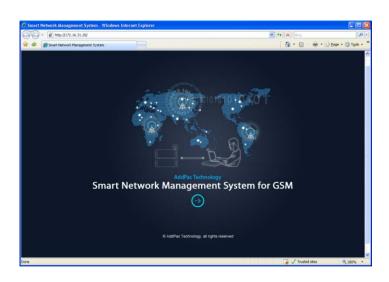


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#### Contents

- 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

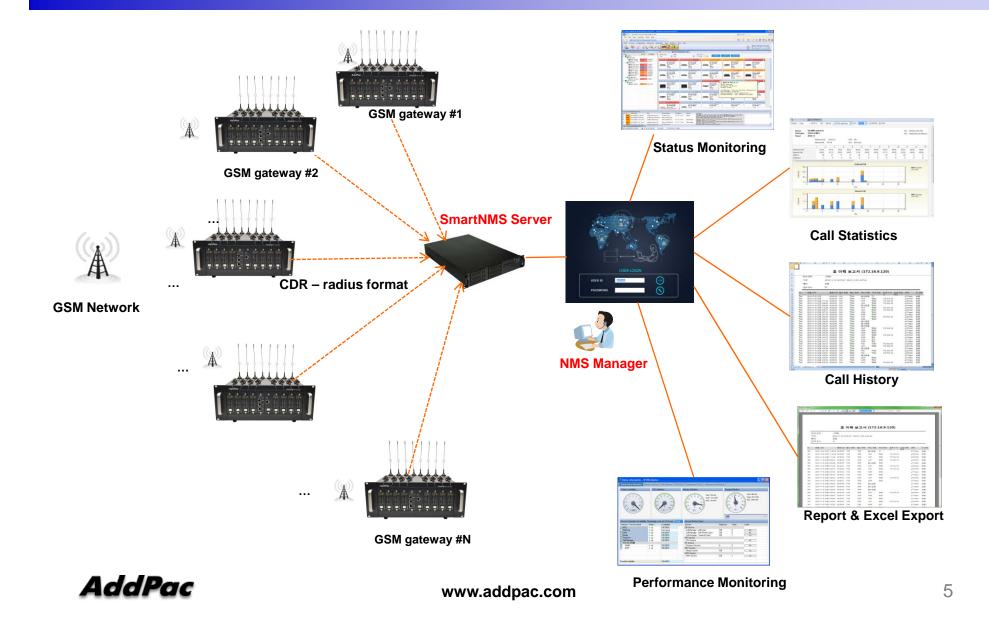


#### Main Features

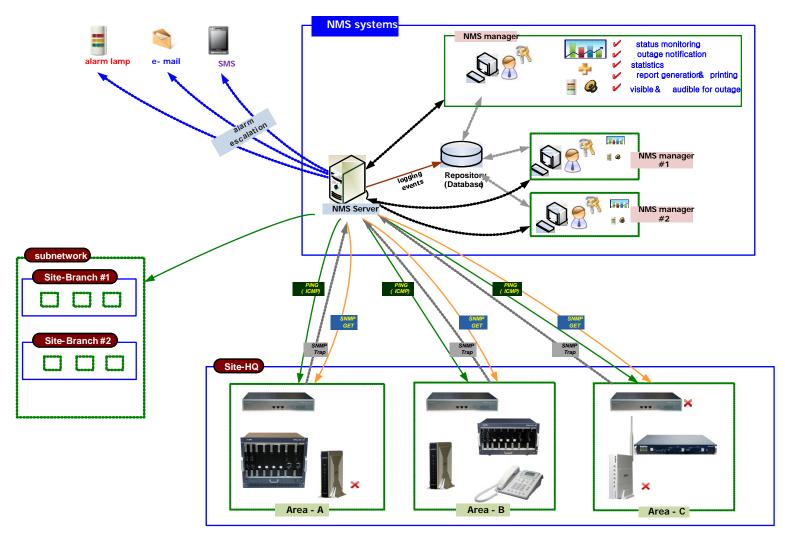
- Smart directory server(LDAP) and data(device, end-user..) integration.
- Site level management for the device and group.
- Auto provisioning for each GSM gateways.
- Event and notification management.
- Dashboard-styled real-time fault monitoring for GSM gateways.
- Port status and summary for GSM 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

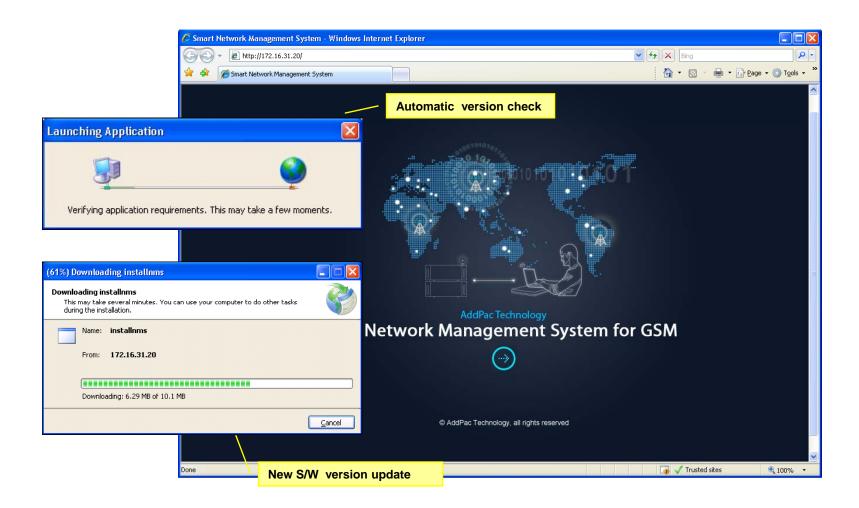
- Automatic version check
- New version software download feature

#### UI control

User friendly GUI management

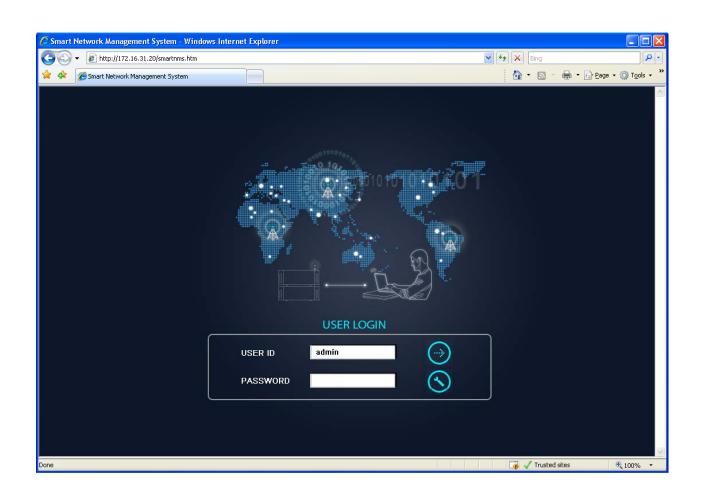


#### **Version Control**





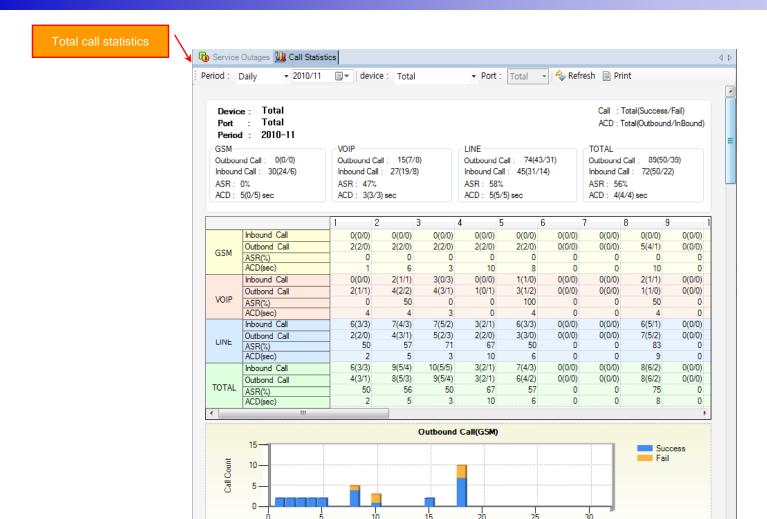
## Web-based Login





- 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.





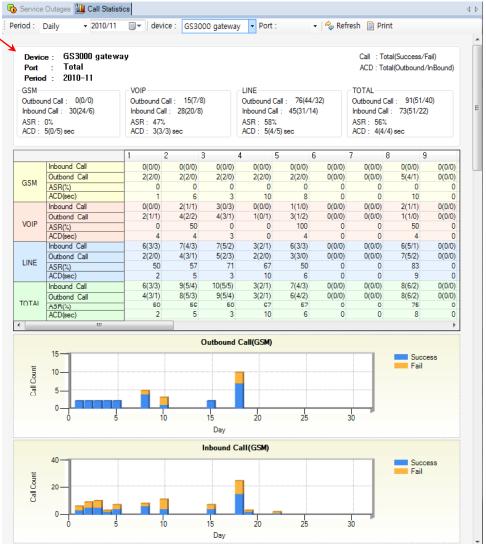


Day



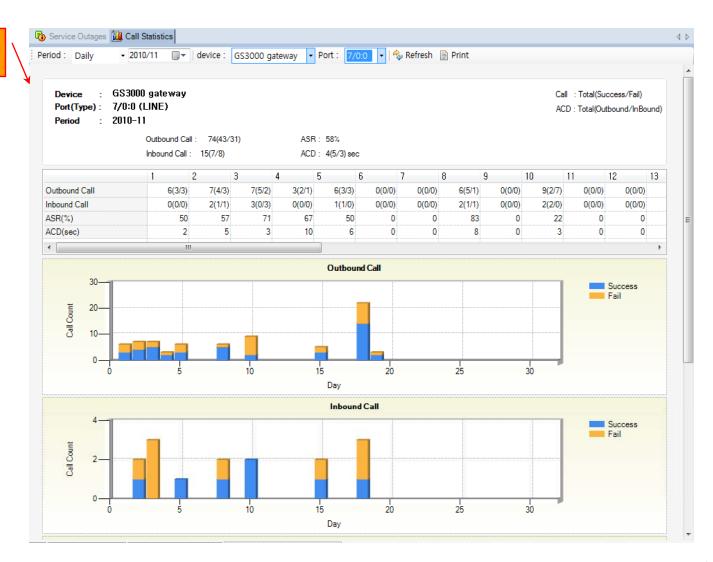


Call statistics for the specified gateway.





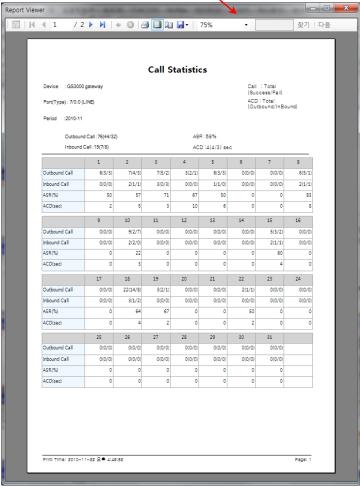
Call statistics for the specified port of the GSM gateway.

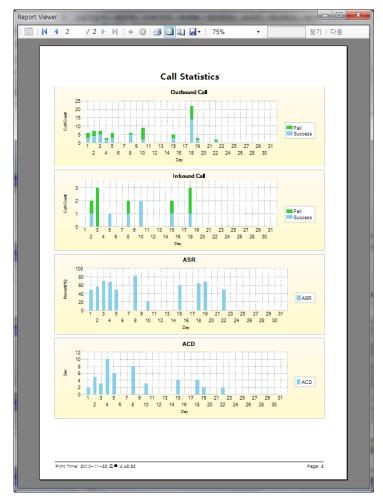




#### Call Statistics Report

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

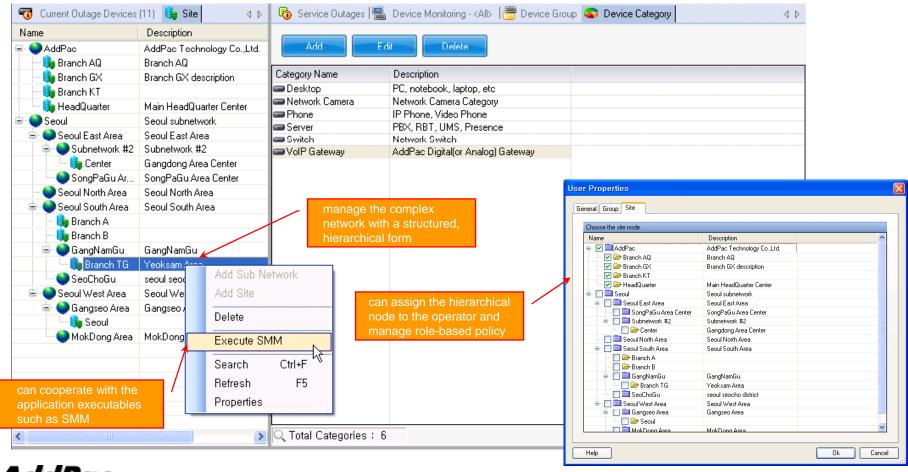






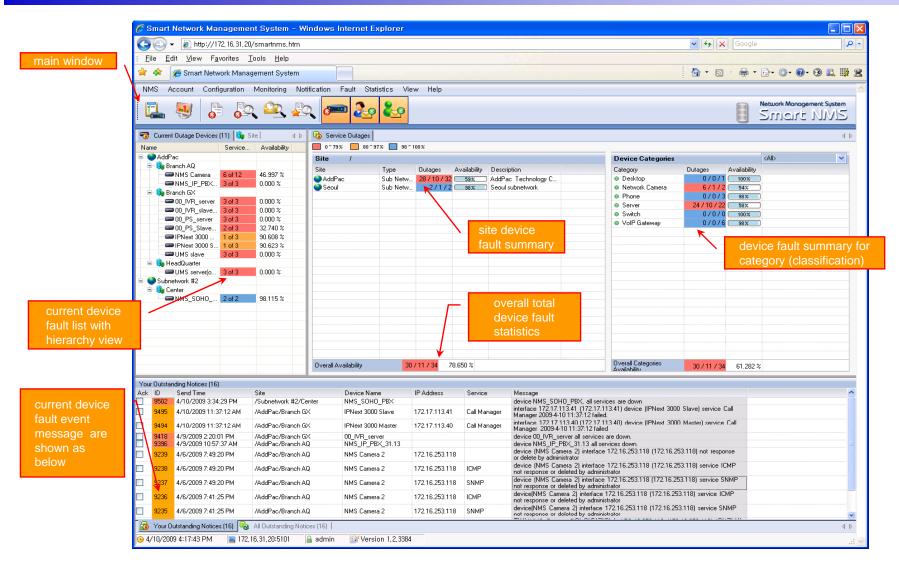
#### Network Resource Management

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

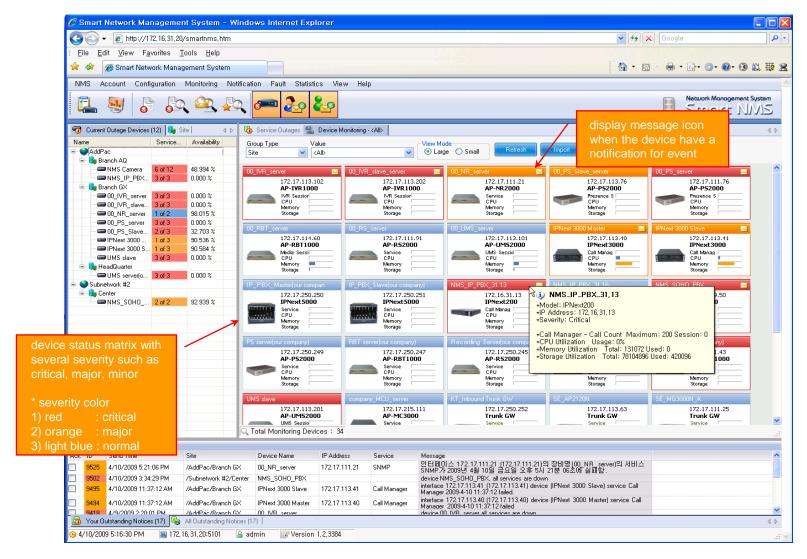


- Centralized fault summary information in main window
- Display current fault device through tree view
- Notify administrator with detailed fault information
- Provide device availability information for 24hrs

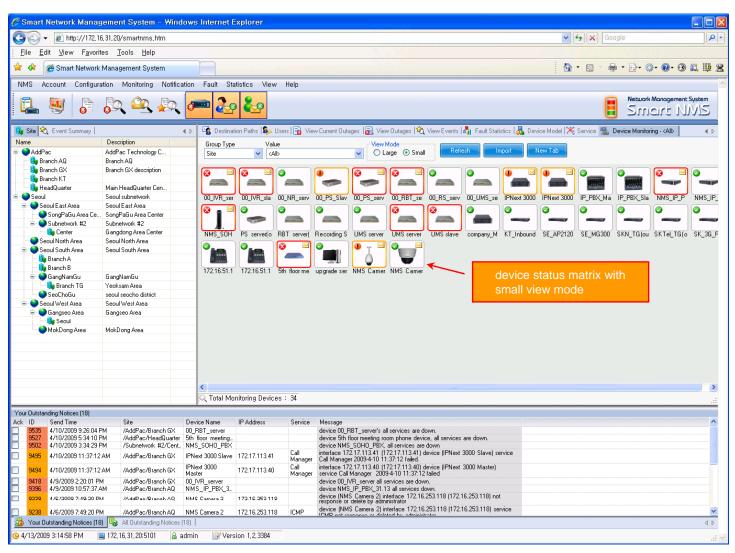












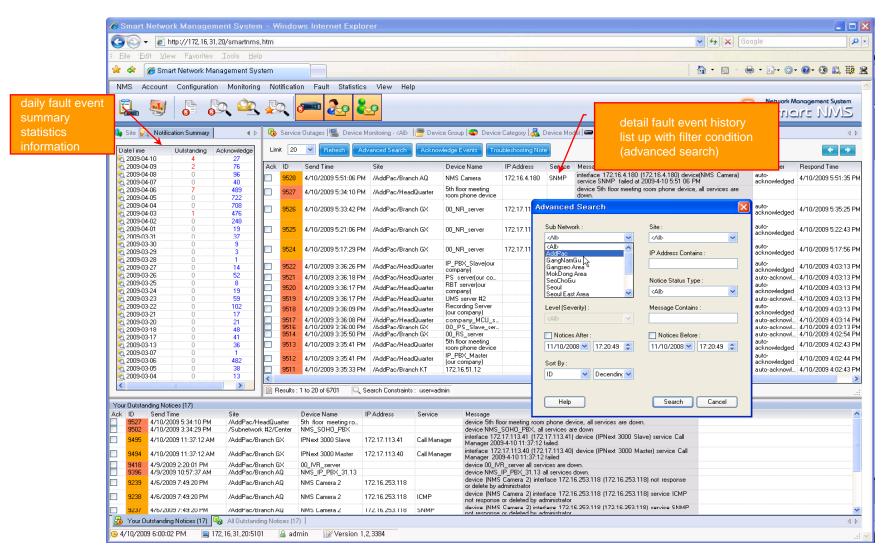


## Device Fault History Management

- 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

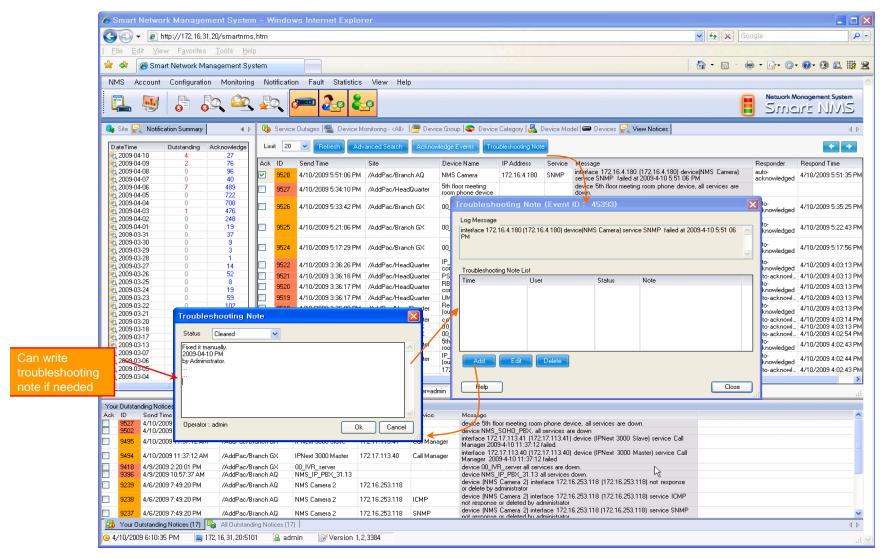


## Device Fault History Management



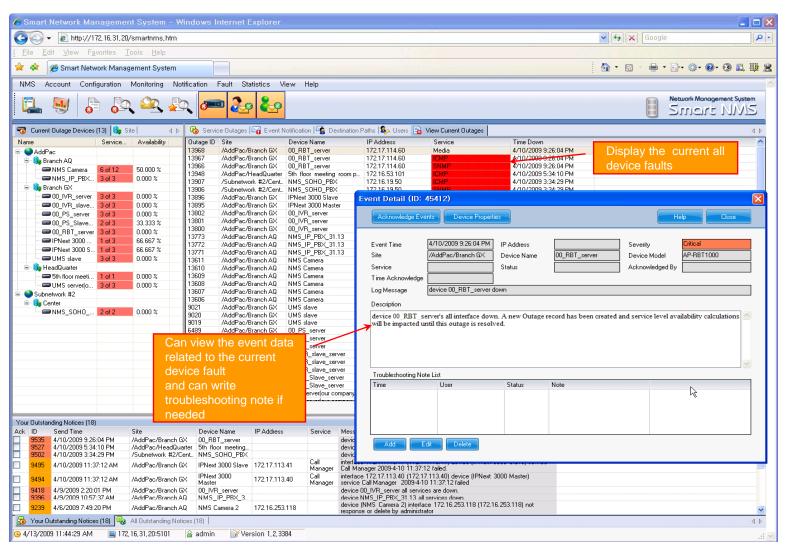


#### Device Fault History Management



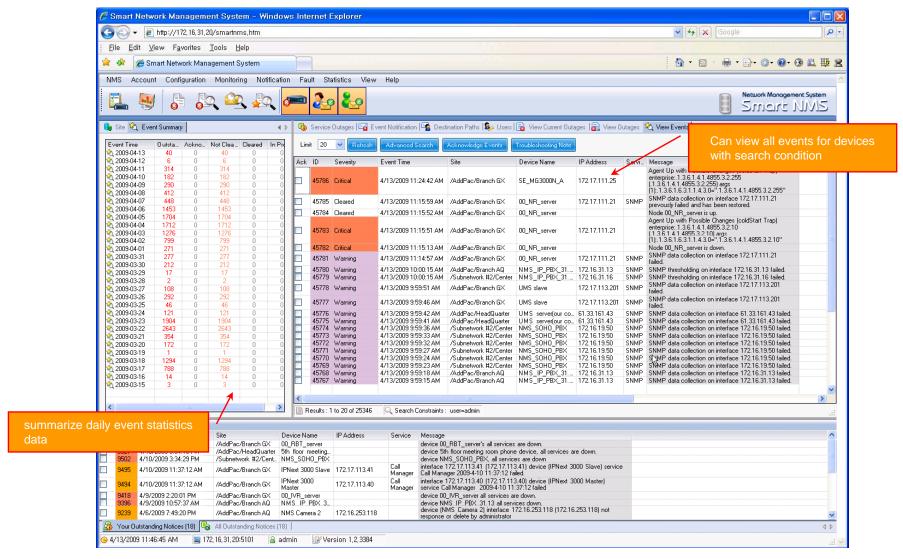


## Current Device Fault (Outage)





## **Device Event History**



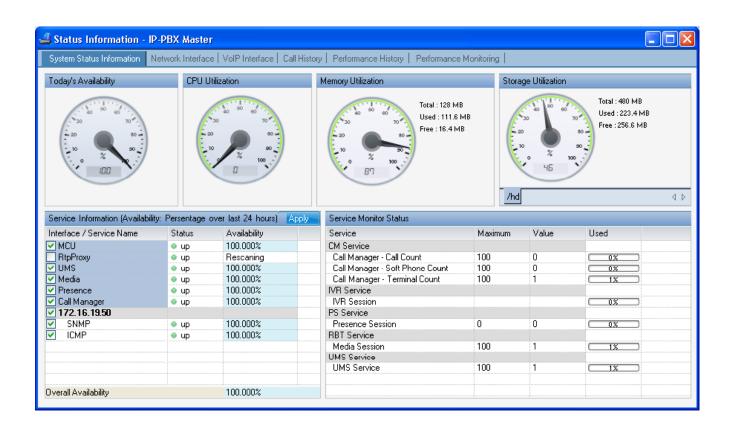


#### **Device Status Information**

- 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

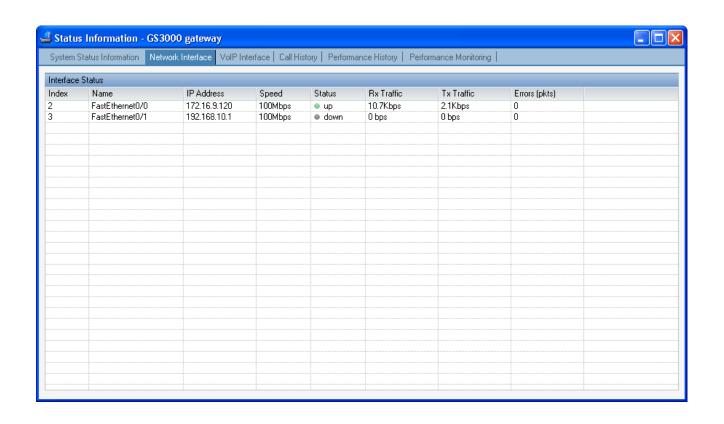


## System Status Information





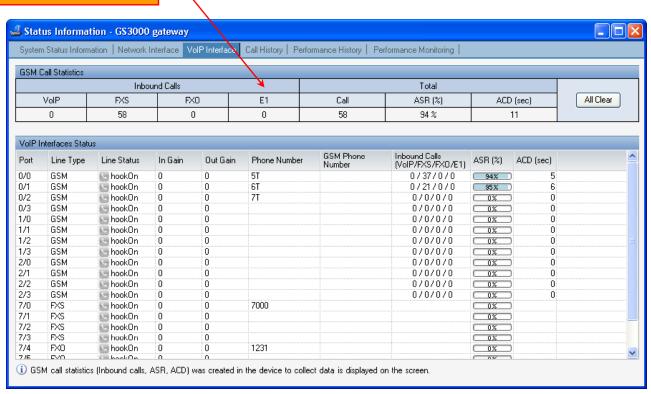
#### **Network Interface**





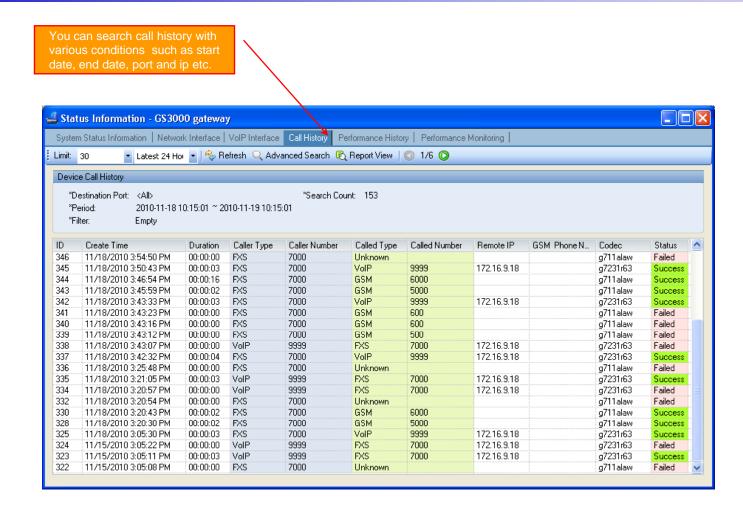
#### **VoIP** Interface

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





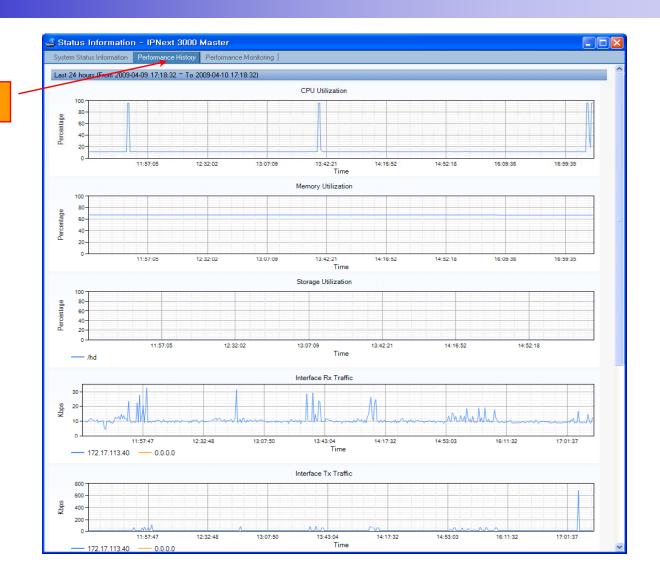
#### Call History





## Performance History

performance analysis graph for last 24 hours





## Performance Monitoring



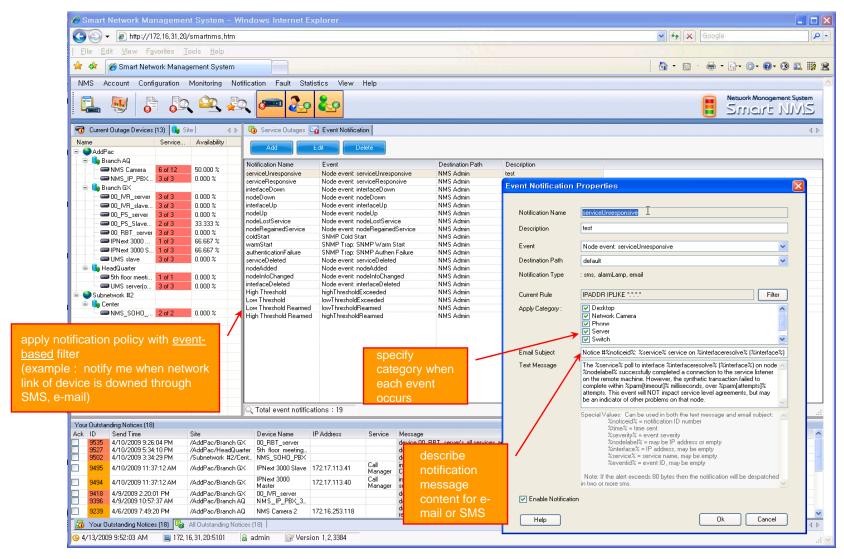


## Notification Management

- 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

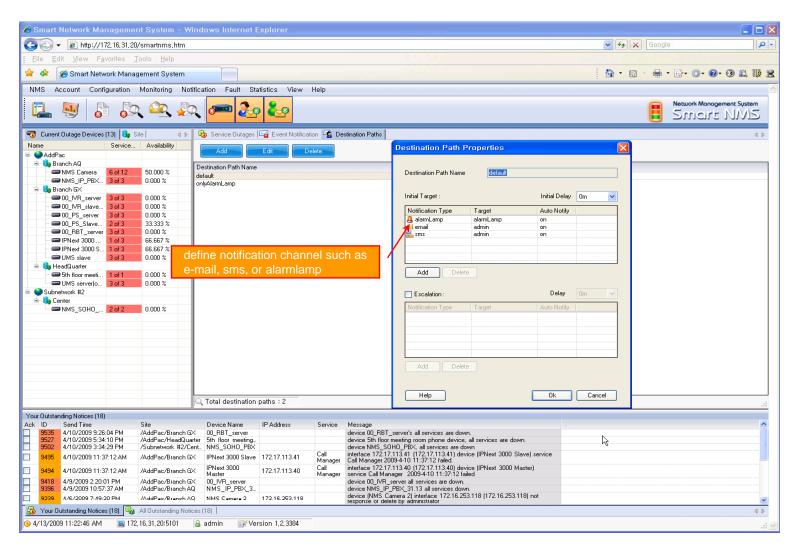


#### **Event Notification Management**



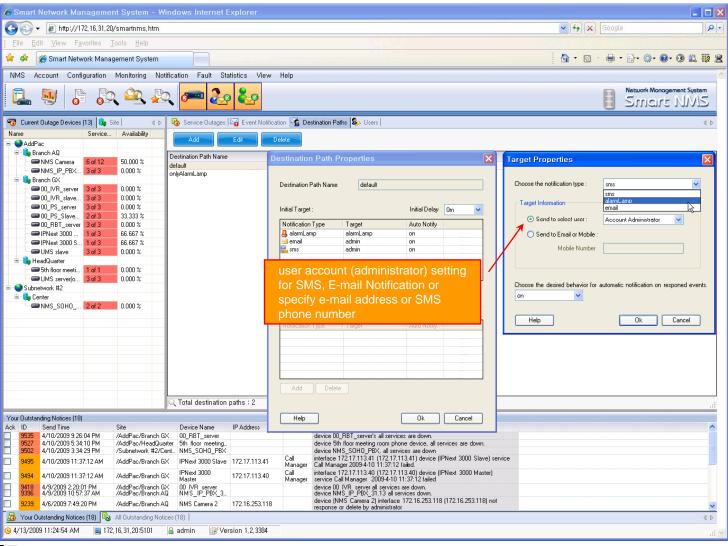


## **Event Notification Management**



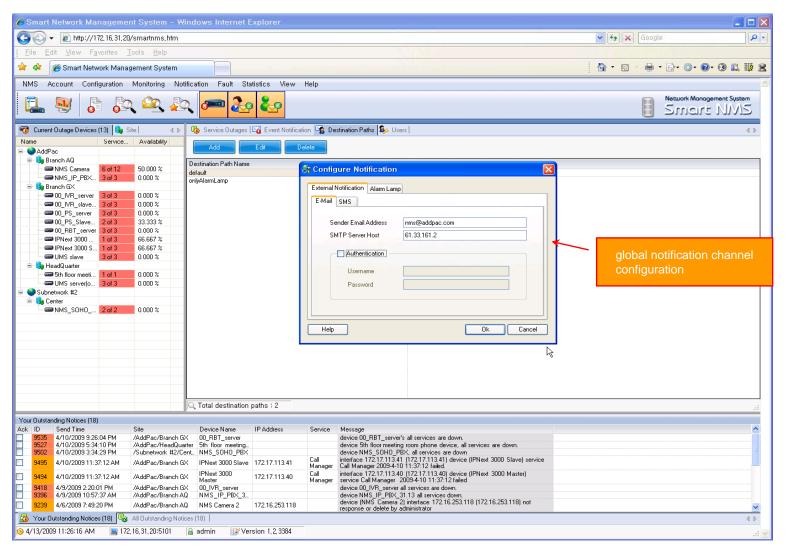


## **Event Notification Management**





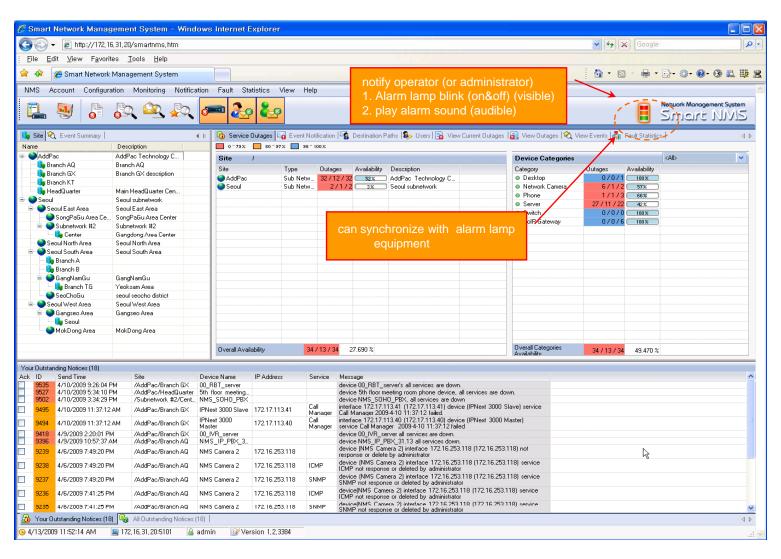
## Configuration



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#### Audible & Visible Alarm



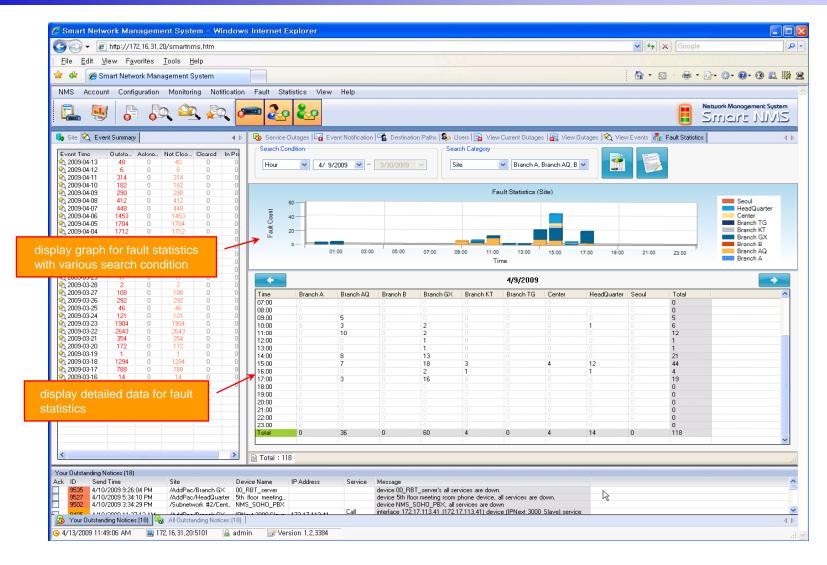


#### Fault Statistics

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

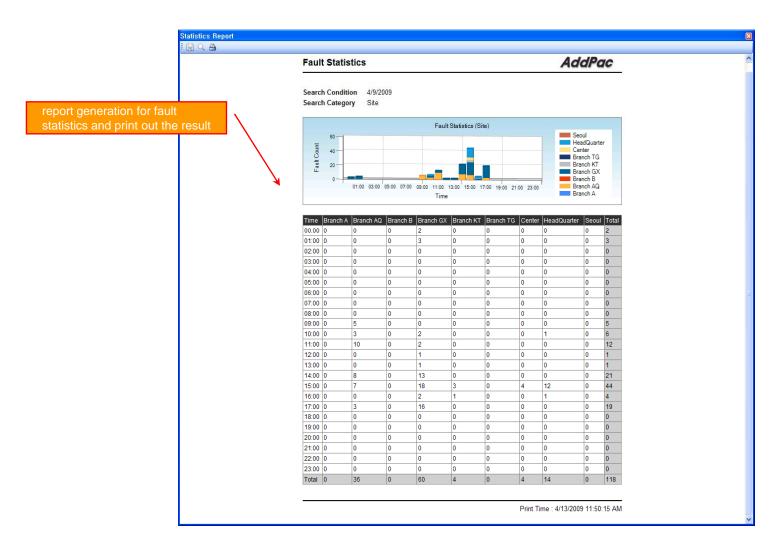


#### **Fault Statistics**





## Fault Statistics – Report Generation



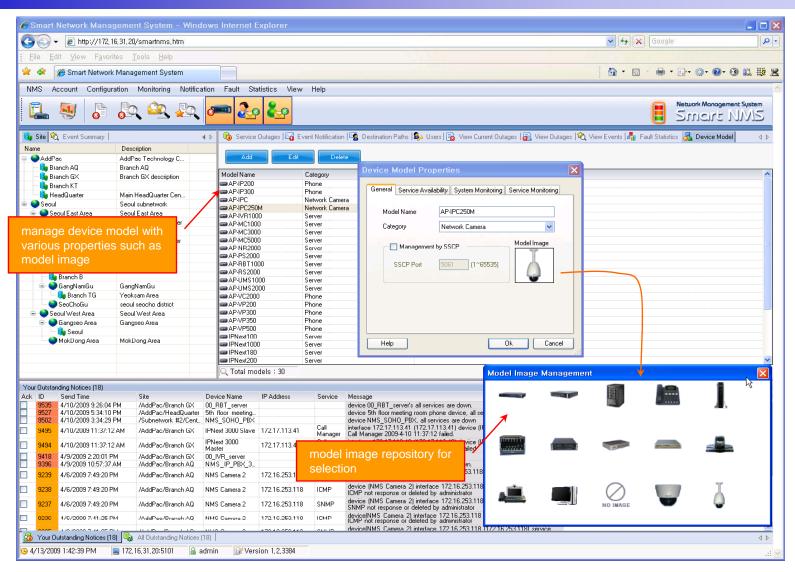


## Model & Service Management

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

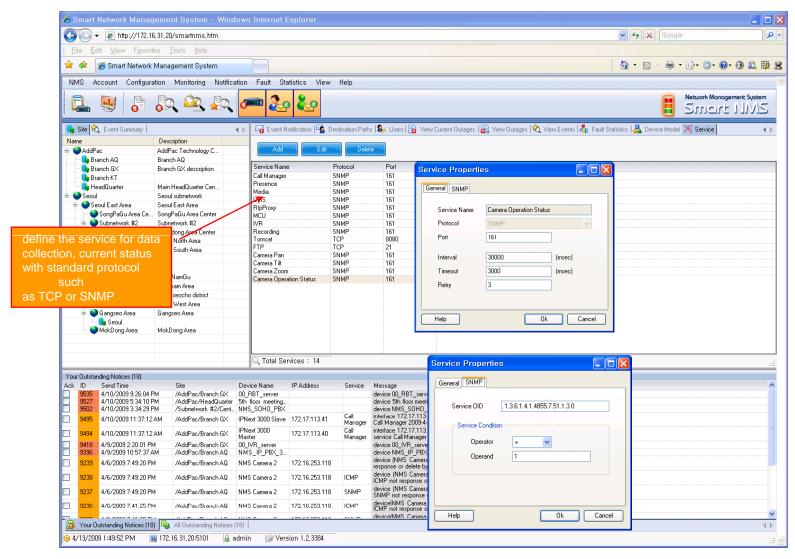


## Device Model Management





#### Service Definition





## Thank you!

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