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| Codescape Consultants PL  [5/3/2011] |

# Product Name: UNMP

Feature: NMS Dashboards

Requested By: Vivek Bansal

Reviewed By: Prateek Goel

Implemented By: Peeyush Raj

Verified By: Utkarsh Jain

SW release version in which Feature included:

## Revision history (in case multiple revisions)

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| --- | --- | --- | --- |
| Revision | Date | By | Description |
| 0.01 | 2 August 2011 | Peeyush Raj | UNMP Dashboards |
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# Feature Description: Dashboards

*NMS Dashboard would provide the user high level view of UNMP devices and instances. Dashboards are extremely useful in providing user the complete status detail in just one view. Also dashboards can be used as NOC view for the organization.*

## Supported System Requirements

* Linux System, preferably Ubuntu/Debian

## System Use Cases

* Common Dashboards
* Device Type Dashboards
* Specific Device Dashboards
* User Dashboards

### Common Dashboard

Common dashboard would provide the network over view and the NMS server performance details. Common dashboard will show data in formats of various tables, graphs and Google maps.

### Device Type Dashboard

Device type dashboards would provide the over view of group of specific common type of network elements, ex. ODU type dashboard, IDU type dashboards. This view would let user have a comparison of performance of specific type of devices in the network.

### Specific Device Dashboard

Specific device dashboards would provide each and every detail of a specific device. User would be able to view default one week’s performance of the device in the network, current status of the device, and the static info of the device.

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### User Dashboard

User dashboards would be group of user’s favorite devices, user’s favorite running services on the device, user’s interaction with NMS’s history, comparison of selected devices etc. User can select any parameter from the NMS as its favorite and can have real time information of the same.

# Feature Design Description

## Common Dashboard

* NMS server details
* Recent Critical alarms details [5 to 10] [table format]
* Network Outage Graph [One Week]
* Top Five Busiest Devices [One Week] [table format]
* Five Least Busy Devices [One Week] [table format]
* Network Outage Report [One Week]
* Recent User interaction with the NMS [5 to 10] [table format]
* Google Maps [Displaying All the NMS instances, user has viewer or higher privilege over]

## Device Type Dashboard

User will have option to select the range of date between which he wants to view the information.

### AP Type Device Dashboard

* BR0 (Bridge Interface) details, Tx/Rx of any 5 devices at a time. User can move through the graph to get details next 5 AP in the network.
* Total Number of connected client on per day basis. Default View one week.
* Top Five Busiest AP of the network. [5 to 10] [table format]
* Least Busiest APs of the network. [5 to 10] [table format]
* Total Outage Graph for all the APs. [One week default]
* Google map for AP type devices.
* Network AP’s total traffic. [Default One Week]
* Top, End Users, by usage. [5 to 10] [table format]

### ODU Type Device Dashboard

* RSSI levels of Five ODU’s at a time, user can scroll through graph to view RSSI levels of all the ODU.
* Phy Error levels of Five ODU’s at a time, user can scroll through graph to view PHY error levels of all the ODU.
* CRC error levels of Five ODU’s at a time, user can scroll through graph to view CRC error levels of all the ODU.
* Outage Report of the ODU type devices in the network.
* Current Alarms Table, of the 5 to 10 recent alarms on the device type ODU.
* ODU site wise Outage Report.
* ODU Site wise, RSSI and Signal Strength of root and slaves. [Table Format]
* Google Map for ODU type devices.
* Tx/Rx report for ETH0, ETH1, BR0 interfaces, for any Five ODU’s at a time, user can scroll through graph to view Tx/Rx, interface wise, levels of all the ODU.

## Specific Device Dashboard

### Specific AP Dashboard

* Number of Clients connected to AP, date wise. [One Week]
* Tx/Rx/Average for Each Interface of the AP. [One Week]
* Connected Client Bandwidth usage. [Table View] [5 to 10]
* Outage report of the AP, date wise. [One Week]
* Top clients by usage. [5 to 10] [Table View]
* Recent Alerts details of an AP. [5 to 10] [Table View]
* AP static data table.
* Last 5 user interaction with AP through NMS.

### Specific ODU Dashboard

* RSSI level, daily basis. [One Week]
* Phy Error level, daily basis. [One Week]
* CRC Error level, daily basis. [One Week]
* Number of alerts on daily basis. [One Week]
* Signal Strength with all the slaves on daily basis, min and max [One Week]
* Outage report on daily basis [One Week]
* Current Alarms [5 to 10] [table view]
* Sync Lost Counter on daily basis. ][One week]
* Tx/Rx/Average per interface basis, daily report. [One Week]
* Table view for static information of ODU.

## User Dashboard

* History of the user’s interaction with NMS
* Any resource marked as favorite by user , described in above all dashboards.

# Implementation Design Description

*<System Architecture be discussed here>*

# Test Report

*<Describe what “development” / Integration unit test has been done – and what the test results here are>*