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| Network  Management System |
| CCPL |

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

# Product Name: NMS

Feature: NMS Interfaces

Requested By: Vivek Bansal

Reviewed By: Prateek Goel

Implemented By: Amit K. Sharma

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 | 5/3/2011 | Amit K. Sharma | NMS Interfaces First Draft |
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# 

# Feature Description: NMS Interfaces

*NMS should have WUI and SNMP/CORBA based NBI.*

## Supported System Requirements

* Linux System, preferably Ubuntu/Debian

## System Use Cases

## WUI

## Email/SMS notification

## SNMP NBI

## FTP NBI

## 3GPP CORBA NBI

## SBI

### WUI

NMS should provide adaptable web based user interface to operator to configure and monitor network elements.

### Email/SMS

NMS should follow escalation matrix to notify operators about critical faults in network elements through email and sms. Escalation matrix will be user configurable through WUI. NMS will also support acknowledgment of notifications through email.

### SNMP NBI

NMS should report active faults and alarms of network elements through SNMP(v1,v2,v3) based NBI. NMS will provide a MIB definition on NBI to retrieve current alarms of managed network elements. NBI of NMS will be configurable through SNMP only.

### FTP NBI

NMS may report performance data of managed network elements in specified file format through FTP. FTP NBI of NMS will be configurable through SNMP.

### 3GPP CORBA NBI

NMS may provide bulk configuration of managed network elements through 3GPP CORBA NBI.

*<Needs further Analysis >*

### SBI

NMS should have proprietary SBI to interact and configure Shyam devices. NMS should have SNMP manager to handle faults and alarms of managed elements raised in form of traps. NMS may have SNMP manger to configure managed devices.

# Feature Design description

*<Feature Design to be discussed here>*

# 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>*