**SMS MNO Notification Module**

**Equipment Identity Registration System**

Installation Guide

EIRS-SMS\_MNO\_Module-Installation-Guide-1.0.0

Version 1.0.0

**Revision history**

| **Revision** | **Date** | **Description** |
| --- | --- | --- |
| 1.0.0 | 23-Nov-2024 | Initial release with all device type handling |

[**1 Introduction 4**](#_heading=h.3znysh7)

[1.1 Purpose & Scope 4](#_heading=h.2et92p0)

[1.2 Definitions, Acronyms & Abbreviations 4](#_heading=h.tyjcwt)

[1.3 References 4](#_heading=h.1t3h5sf)

[1.4 Getting Started 4](#_heading=h.2s8eyo1)

[**2 Installation 5**](#_heading=h.17dp8vu)

[2.1 System Requirements 5](#_heading=h.3rdcrjn)

[2.1.1 Software Requirements 5](#_heading=h.26in1rg)

[2.1.2 Hardware Requirement 5](#_heading=h.lnxbz9)

[2.1.3 Operating System 5](#_heading=h.35nkun2)

[2.1.4 Supported Desktop Browsers 5](#_heading=h.44sinio)

[2.1.5 Supported Mobile Browsers 5](#_heading=h.2jxsxqh)

[2.1.6 Dependency on other modules 5](#_heading=h.z337ya)

[2.1.7 Other Requirement 6](#_heading=h.3j2qqm3)

[2.2 Validating the Pre-requisites 6](#_heading=h.1y810tw)

[2.3 Extracting Software Release 6](#_heading=h.qsh70q)

[2.4 Manual Installation 6](#_heading=h.4i7ojhp)

[**3 Configuration 8**](#_heading=h.1ci93xb)

[**4 Run the Software 9**](#_heading=h.2xcytpi)

[**5 Testing 10**](#_heading=h.3whwml4)

[**6 Uninstalling the module / Rollback 11**](#_heading=h.2bn6wsx)

**Tables**

[Table 1- Definitions, Acronyms & Abbreviations](#_heading=h.3dy6vkm)

[Table 2- References](#_heading=h.4d34og8)

# Introduction

## Purpose & Scope

This document provides:

* Instructions for installation, configuration and verification of SMS MNO Notification Module of EIRS system

## Definitions, Acronyms & Abbreviations

**Table 1- Definitions, Acronyms & Abbreviations**

| **Term** | **Explanation** |
| --- | --- |
| EIRS | Equipment Identity Registration System |
| OS | Operating System |
| Nginx | An open source, lightweight, high-performance web server or proxy server. |
| Apache | An open source web server |
| API | Application Program Interface |
| Gateway | A Gateway route requests from clients to services |
| MDR | Mobile Device Repository |

## References

**Table 2- References**

| **Ref no.** | **Document** |
| --- | --- |
|  |  |

## Getting Started

The instructions provided in this document assume that the required equipment (third party hardware and software) has been installed and configured.

Software modules often depend on other modules to be installed to run properly. From other applications to databases, frameworks, and run-time environments, it is the installer's job to make sure that the right versions are present before the main application is ready to run.

The person performing the steps should be proficient in Linux platform.

# Installation

This section covers the installation steps for the SMS MNO Notification module

## System Requirements

This section covers the requirement to install the SMS MNO Notification module.

**Note – for app-server-{IP} and Internal-server-{IP} please refer the document where all servers’ IP’s are listed.**

### Software Requirements

* bash
* mySQL
* curl
* java
* apache tomcat [ Internal-server-IP]

### Hardware Requirement

Minimum hardware requirements are:

* At least 2 GB of RAM
* At least 10G of disk space

### Operating System

This system will be installed and configured with Redhat 9.2. Refer to the Redhat installation guide for additional installation help.

### Supported Desktop Browsers

* Google chrome
* Firefox
* Microsoft edge

### Supported Mobile Browsers

* None

### Dependency on other modules

This module depends upon notification api.

### Other Requirement

This module requires database tables of notification. Connectivity should be available on module deployed server with MNO

## Validating the Pre-requisites

All the requirement mentioned above must be validated by running proper command before starting the installation.

**Bash:**

Bash is the default shell for most Linux distributions. You can check its version by running:

bash --version

Can also confirm that you're using Bash by running:

echo $SHELL

If it's set to /bin/bash, means system is using Bash.

**MySQL**:

Open a terminal and run the following command to check if MySQL is installed and running:

mysql --version

If MySQL is installed, will see the version information.

Also try connecting to the MySQL server using:

mysql -u username -p

Replace username with a valid MySQL user. If command allows log in without errors, MySQL is functioning.

**CURL:**

Open a terminal and Run the following command to check if curl is installed:

curl --version

If CURL is installed, will see the version information.

**JAVA:**

Open a terminal and Run the following command to check if java is installed:

java --version

If JAVA is installed, will see the version information.

If any of the pre-requisites is not met, abort the installation and raise the issue to the concerned team.

## Extracting Software Release

The SMS Module release is distributed as a tar.gz file.

All software release version tar file will be maintained in release folder \u02\eirsdata\release to be available on the DMC ftp server \\172.24.11.10\Mango-TS\5\_Technovage (TS)\Release Management\EIRS-Phase-2\sms\_mno\_module\1.0.0\sms\_mno\_notification\_module\_1.0.0.tar.gz” folder.

**Note:** If there are some other files like SQL Dump etc. then that should also be part of release file.

To extract the contents of the distribution, untar the SMS Notification Module release on **TMG Server for MNO**:

1. Create directory sms\_mno\_module

       mkdir –p ${RELEASE\_PATH}/sms\_mno\_module/1.0.0

1. Download below mentioned file from ftp server location “\\172.24.11.10\Mango TS\EIRS Release Management\EIRS-Phase-2\sms\_mno\_module\1.0.0\sms\_mno\_notification\_module\_1.0.0.tar.gz” to ${RELEASE\_PATH}/sms\_mno\_module/1.0.0

## Manual Installation

Follow the steps below to install the release manually on **TMG Server for MNO**.

1. **Go to path where the EIRS SMS MNO Notification Module release is copied.**

cd ${RELEASE\_PATH}/sms\_mno\_module/1.0.0

1. **Execute the command below to provide execution permission to script.**

chmod +x eirs\_sms\_mno\_notification\_module\_install.sh

chmod +x eirs\_sms\_mno\_notification\_db\_install.sh

1. **Execute the command below to install the SMS MNO Notification module.**

./eirs\_sms\_mno\_notification\_module\_install.sh

1. **Execute the command below to load configuration parameter in database .**

./eirs\_sms\_mno\_notification\_db\_install.sh

1. **Please check Content of directory will be placed in**

* ls -ltr ${APP\_HOME}/sms\_mno\_module/sms\_mno\_notification

below listed content should be there.

1. stop.sh
2. log4j2.xml -> /u02/eirs\_release/global\_config/log4j2.xml
3. sms\_mno\_notification.jar -> /u02/eirs\_release/binary/sms\_mno\_notification\_1.0.0.jar
4. start.sh
5. application.properties

**Note: execute module installation command for secondary server installation.**

If any of the commands fails, abort the installation and raise the issue to the concerned team.

# Configuration

## To configure API Internal Module, add below listed parameter if not available

**# Update below configuration parameters in ${APP\_HOME}/configuration/configuration.properties**

dbIp=<DB-HOSTNAME>

dbPort=<DB-PORT>

dbUsername=<DB-USERNAME>

dbPassword=<DB-PASSWORD>

db\_url=jdbc:mysql://<DB-HOSTNAME>/app

virtualIp=<VIRTUAL-IP>

dbEncyptPassword=<DB-ENCRYPTED-PASSWORD>

pass\_dypt=${APP\_HOME}/utility/pass\_dypt/pass\_dypt.jar

spring.datasource.url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/app?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false&allowPublicKeyRetrieval=true&allowLoadLocalInfile=true

spring.datasource.jdbc-url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/app?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false&requireSSL=false&allowPublicKeyRetrieval=true&allowLoadLocalInfile=true

spring.datasource.username=<DB-USERNAME>

spring.datasource.password=ENC(<DB-ENCRYPTED-PASSWORD>)

audit.datasource.jdbc-url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/aud?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false

audit.datasource.url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/aud?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false&requireSSL=false&allowPublicKeyRetrieval=true

audit.datasource.username=<DB-USERNAME>

audit.datasource.password=ENC(<DB-ENCRYPTED-PASSWORD>)

oam.datasource.url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/oam?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false&allowPublicKeyRetrieval=true

oam.datasource.jdbc-url=jdbc:mysql://<DB-HOSTNAME>:<DB-PORT>/oam?serverTimezone=UTC&verifyServerCertificate=false&useSSL=false&requireSSL=false&requireSSL=false&allowPublicKeyRetrieval=true

oam.datasource.username=<DB-USERNAME>

oam.datasource.password=ENC(<DB-ENCRYPTED-PASSWORD>)

eirs.notification.url=http://<APP-VIRTUAL-HOSTNAME>:9509/eirs/addNotifications

eirs.alert.url=http://<APP-VIRTUAL-HOSTNAME>:9509/eirs/alert

eirs.filecopy.url=http://<APP-VIRTUAL-HOSTNAME>:9509/eirs/fileCopyApi

**# execute below query**

**ALTER TABLE `app`.`operator\_properties` CHANGE `key1` `key` VARCHAR(255);**

# Testing

To verify if the system is working as required,

# Uninstalling the module / Rollback

The step should include

1. Removing the configuration (No backup steps required as its first-time installation)
2. Removing the module software (No backup steps required as its first-time installation)

**Legal Notice**

© Technovage Solution Co. Ltd.

All rights, including translation into other languages, reserved under the Universal Copyright Convention and other related instruments. Any use of this documentation and/or its associated software, including reproduction, modification, distribution, republication, transmission,

re-transmission, or public showing, without the prior written permission of an authorized Technovage representative, is prohibited.

This document and any software and programs mentioned in this document, whether delivered electronically or via other media, are the sole property of Technovage Solution Co. Ltd.

Reproduction or modification of the software or documentation by any means is prohibited without the express written consent of an authorized Technovage representative.