IPG Horizon NMS -Build Process

Version No.: 0.1

Date: 13-Aug-2018

Project Name: IPG

Project Code: C/181675

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Revision History

| Version No | Date | Prepared by / Modified by | Significant Changes |
| --- | --- | --- | --- |
| 0.1 | 13-Aug-2018 | HCL NMS Team | * Initial Version |
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Glossary

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| Abbreviation | Description |
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# IPG NMS Build

## Introduction

This section provides some preliminary information and an overview of the document.

1.1. Purpose

1.2. Scope

1.3. Environment

1.3.1 Repository

tool used :SVN

source folder structure

ipgNMS-project

commons

fault-mgmt

config-mgmt

account-mgmt

performance-mgmt

security-mgmt

client-src

Build process already mentioned as one of the main section

1.3.2 Deployment

JBOSS deployment enveronment

1.3.3 Build System design

<TBD>

## Purpose

This document describes the Build process of the Project

## Scope

This document defines the scope of Build for only the IPG Horizon NMS (NMS Server and NMS Web Client) modules

## Environment

1. The build Server installed with SVN client(command mode) ,buildscript run the cli commonds to get the latest code from svn like

*svn update*

1. In this environment non-graphical mode(CLI) of the svn will be used with the help of svn commands(*svn update,svn diff filenam*)
2. The code to be build will be copied from home/snapshot to the build location (home/ipgBuild/src) the generated war files(at home/ipgBuild/output) of the build will be moved to server JBOSS\_HOME/standalone/deployments
3. All the operations

1)get latest code from svn

2)copy to the home/ipgBuild/src folder

3)run ipgBuild.sh

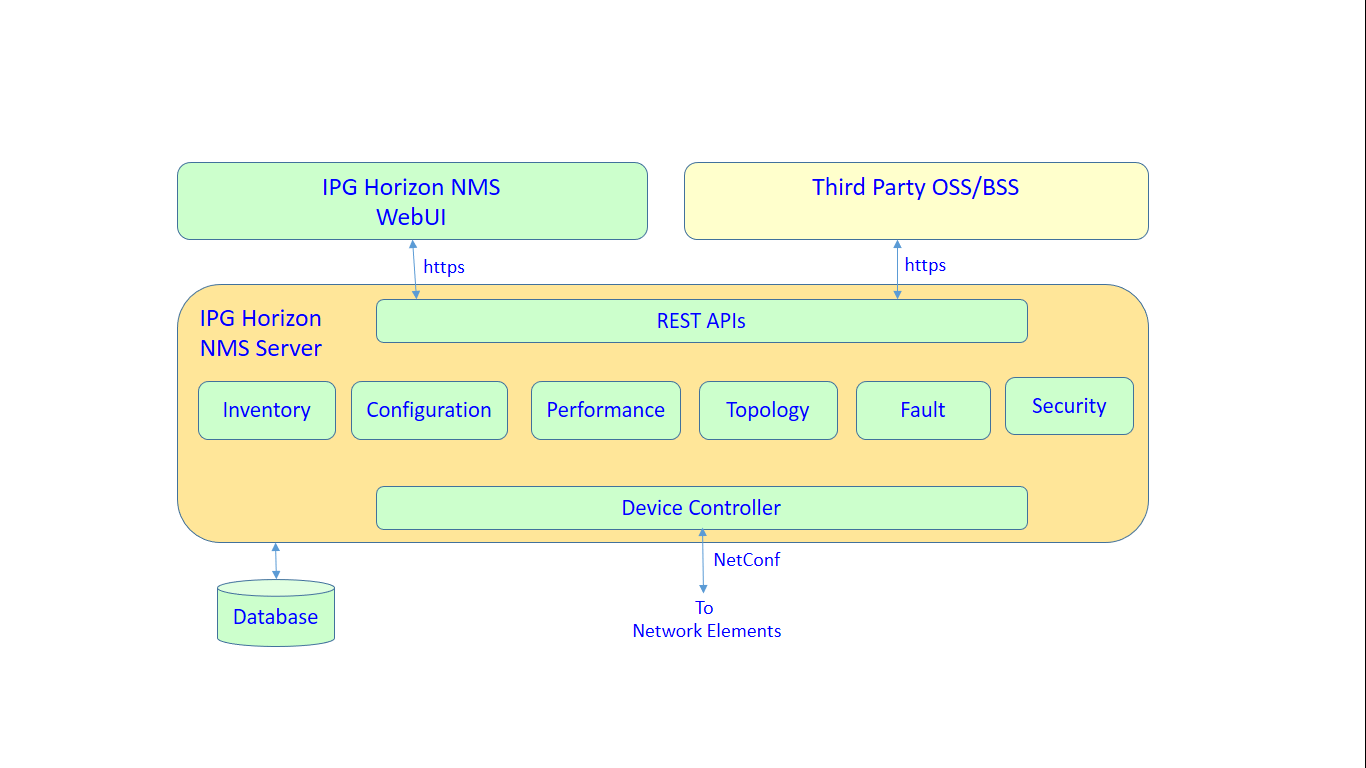
4)copy the wars from output folder to ***JBOSS\_HOME/standalone/deployments*** are automated by the Linux script

1. There will be a Jenkins job to run the script to gegerate the NMS build as per predefined schedule

## Build Process

* It should get the latest source code from version controller and copy the code to *ipgBuild* folder and start the build script
* Once the Build successful the output of the build must be moved to *output(home/ipgBuild/output)* folder
* The NMS GUI Client Code code is built with the Angular JS command ng build and output directed to *output* *(home/ipgBuild/output)*folder on Build machine
* *JBOSS\_HOME=home/ipgNMS\_server/Jboss*
* The archetypes from the output folder are moved to the Server machine to this location ***JBOSS\_HOME/standalone/deployments***

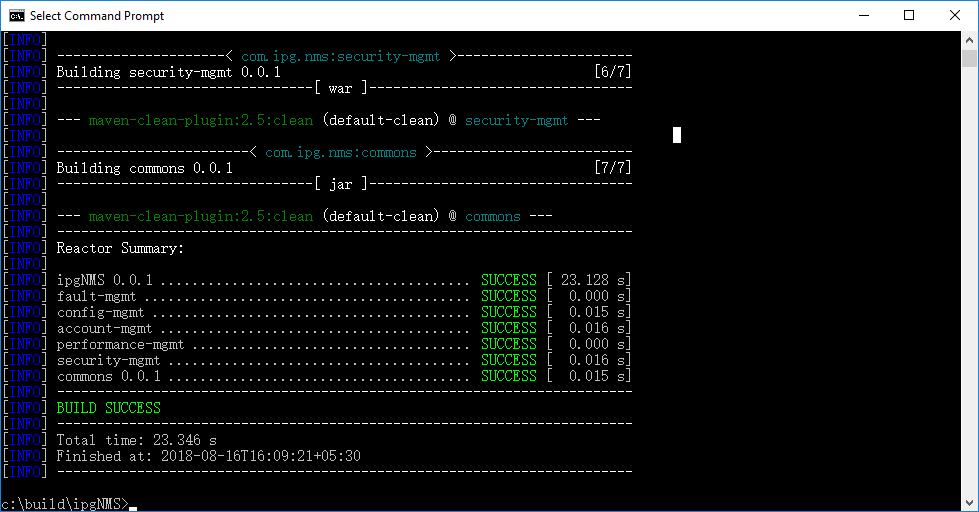
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Build Structure

The Main Project is responsible for build all sub projects(Modules) that includes the utils(jar)

IPGNMS Build is using Maven a third party and freeware tool



* home/ipgBuild {a folder on Build machine}
* ipgNMS-project

pom.xml (Parent pom)

* commons

pom.xml (Module pom)

* fault-mgmt

pom.xml (Module pom)

* config-mgmt

pom.xml (Module pom)

* account-mgmt

pom.xml (Module pom)

* performance-mgmt

pom.xml (Module pom)

* security-mgmt

pom.xml (Module pom)

* home/output {a folder on Build machine}
* server {contains all IPGNMS wars and jars}
* client {Contains IPGNMS client code}

Parent and module pom are linked by snippet

In each module pom: -

<parent>

<groupId>com.ipg.nms</groupId>

<artifactId>ipgNMS</artifactId>

<version>0.0.1</version>

</parent>

**4 ipgBuild.sh**

This Script is responsible for build NMS and NMS GUI Client Code code and deploy(copy) to the respectively

**5 Tools used**

The tools used are Maven, svn ,Angular CLI and Jenkins

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| --- | --- | --- | --- |
| Sr No | Tool Name | Tool Version | License Type |
| 1 | Maven | 3.5.4 | Apache License, Version 2.0 (current) https://www.apache.org/licenses/LICENSE-2.0 |
| 2 | SVN | 1.10.1 | TortoiseSVN is under the GPL license |
| 3 | Jenkins | 2.121.3 | Creative Commons Attribution-ShareAlike 4.0 license |
| 4 | Angular CLI | 6.4.0 | https://github.com/angular/angular-cli/wiki |

This is automation process triggred by the Jenkins at configurable time

**5.2 Interactive Build**

This is a user initiating(trigger) job for testing the patch tr

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| Reference | File | Version |
| IPG Horizon SOW | IPGPHOTONICS\_117431\_SOW1\_1May2018\_EGolovchenko-signed | 2.2 |
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