

# Acquire and Build NICS

## Repositories:

### **nics-core-processor**

Contains standalone components for handling specialized NICS functionality.

The collab-feed-manager listens for feature updates to the collaboration rooms and creates a data layer on the mapserver that represents the room. The layer can be exported as a KML or Shape file using NICS or uploaded to NICS and displayed in the Data tree.

### **nics-assembly**

Contains build tools for assembling deployment artifacts.

### **nics-tools**

Contains tools used to interface with OpenAM.

### **nics-db**

Contains scripts for building the NICS database as well as any change files associated with database updates

### **nics-common**

Contains common libraries used across several applications.

nics-dao interfaces with the database.

dao contains utilities to help form database queries.

### **em-api**

RESTful API that serves NICS requests.

### **iweb-modules**

Core web framework containing a default ExtJS view and communications Mediator that allows the client to listen and subscribe to the message bus as well as make web service requests.

Map Module containing a default Map View (Open Street Map) and Controller.

Draw Menu that allows drawing lines, shapes, text and other features on the map.

- Census Application

- Weather Application

### **nics-web**

NICS web application for real-time situational awareness.

## Build NICS:

### **Prerequisites**

- Git
- Maven 3.3.1
- Oracle JDK 7

## Acquire NICS

1. a. Create NICS directory in \$HOME directory

```
> mkdir nics
```

- b. Clone the following repositories:
  - i. nics-assembly
  - ii. nics-common
  - iii. nics-core-processor
  - iv. nics-db
  - v. nics-tools
  - vi. nics-web
  - vii. em-api
  - viii. iweb-modules

## Building NICS

1. a. Go into nics-common directory and build it using the following command (add path to mvn in your \$PATH if necessary)

```
> export PATH=$PATH:/usr/local/maven/bin
> mvn clean install

[INFO]
[INFO] Next Generation Incident Command System (NICS) SUCCESS [1.761s]
[INFO] DAO ..... SUCCESS [1.897s]
[INFO] Encryption Library ..... SUCCESS [0.105s]
[INFO] NICS System Entities ..... SUCCESS [1.221s]
[INFO] GeoServer REST API ..... SUCCESS [0.198s]
[INFO] Hash Function Library ..... SUCCESS [0.180s]
[INFO] NICS Messages ..... SUCCESS [0.375s]
[INFO] NICS Message Parser ..... SUCCESS [0.211s]
[INFO] RabbitMQ Admin Interface ..... SUCCESS [0.072s]
[INFO] RabbitMQ Client ..... SUCCESS [0.162s]
[INFO] Web Service Request Library ..... SUCCESS [0.070s]
[INFO] Constants ..... SUCCESS [0.049s]
[INFO] NICS DAO ..... SUCCESS [1.015s]
[INFO]
-----
[INFO] BUILD SUCCESS
```

- b. ./nics-tools

```

> mvn clean install

Reactor Summary:
[INFO]
[INFO] master-pom ..... SUCCESS [1.122s]
[INFO] OpenAm Tools ..... SUCCESS [9.034s]
[INFO] sso-tools ..... SUCCESS [0.446s]
[INFO] NICS User Management Tools ..... SUCCESS [0.567s]
[INFO]
-----
[INFO] BUILD SUCCESS

```

#### c. ./em-api

```

> mvn clean install

[INFO] Reactor Summary:
[INFO]
[INFO] em-api ..... SUCCESS [
0.351 s]
[INFO] api-rest-common ..... SUCCESS [
1.906 s]
[INFO] api-rest-service ..... SUCCESS [
24.351 s]
[INFO]
-----
[INFO] BUILD SUCCESS

```

#### d. ./nics-assembly

```

> mvn clean install

[INFO] Reactor Summary:
[INFO]
[INFO] NICS Build Tools ..... SUCCESS [
0.328 s]
[INFO] NICS Archive Assembly Tool ..... SUCCESS [
1.048 s]
[INFO] NICS Spring Deploy Assembly Tool ..... SUCCESS [
0.038 s]
[INFO]
-----
[INFO] BUILD SUCCESS

```

#### e. ./nics-core-processor

```

> mvn clean install

[INFO] Reactor Summary:
[INFO]
[INFO] Next Generation Incident Command System (NICS) Processors SUCCESS
[1.063s]
[INFO] Collab Feed Manager ..... SUCCESS [3.898s]
[INFO] GeoDataFeed Consumer ..... SUCCESS [2.421s]
[INFO] JSON PLI Consumer ..... SUCCESS [1.305s]
[INFO] gst2gml ..... SUCCESS [1.087s]
[INFO] Spring Runner ..... SUCCESS [0.497s]
[INFO] NICS Component Manager Archive Builder ..... SUCCESS [4.106s]
[INFO]
-----
[INFO] BUILD SUCCESS

```

f. ./iweb-modules

```

> mvn clean install

[INFO] Reactor Summary:
[INFO]
[INFO] iWeb Modules Pom ..... SUCCESS [
0.362 s]
[INFO] iWeb Core Module ..... SUCCESS [
12.790 s]
[INFO] iWeb Map Module ..... SUCCESS [
1.249 s]
[INFO] iWeb Draw Menu Module ..... SUCCESS [
1.134 s]
[INFO]
-----
[INFO] BUILD SUCCESS

```

g. ./nics-web

```
> mvn clean install
```

```
[INFO] Reactor Summary:
```

```
[INFO]
```

```
[INFO] NICS Web Pom ..... SUCCESS [0.405s]
```

```
[INFO] NICS Modules Pom ..... SUCCESS [0.009s]
```

```
[INFO] NICS Collab Room Module ..... SUCCESS [2.152s]
```

```
[INFO] NICS Incident Module ..... SUCCESS [0.232s]
```

```
[INFO] NICS Login Module ..... SUCCESS [1.362s]
```

```
[INFO] NICS Report Module ..... SUCCESS [0.177s]
```

```
[INFO] NICS Damage Report Module ..... SUCCESS [0.140s]
```

```
[INFO] NICS General Report Module ..... SUCCESS [0.143s]
```

```
[INFO] NICS Datalayer Module ..... SUCCESS [0.978s]
```

```
[INFO] NICS Whiteboard Module ..... SUCCESS [0.205s]
```

```
[INFO] NICS Feature Persistence Module ..... SUCCESS [0.142s]
```

```
[INFO] NICS Active Users Module ..... SUCCESS [0.149s]
```

```
[INFO] NICS Admin Module ..... SUCCESS [0.140s]
```

```
[INFO] NICS Common Module ..... SUCCESS [0.652s]
```

```
[INFO] NICS Feature Photos Module ..... SUCCESS [0.131s]
```

```
[INFO] NICS Print Module ..... SUCCESS [0.141s]
```

```
[INFO] NICS Account Info Module ..... SUCCESS [0.143s]
```

```
[INFO] NICS Webapp ..... SUCCESS [3.792s]
```

```
[INFO]
```

```
-----  
[INFO] BUILD SUCCESS
```