CALIX\_EMS Overview:

User Account Module

Device Module

Location Module

Reports Module

**1. User Account Module:**

This component provides the interfaces that are used for logging in / out and account management including creation, deletion, and updating.

**Account Creation:**

User ID, User name, department name, Role name, password, Created Date, Updated Date.

**Role Creation:**

Role id, Role name

**Login:**

User name, Password, Department name, Role name.

**2. Device Module:**

This component provides the interfaces that are used to configure and setting up the networking device.

**Device Configuration:**

Device Type, Model No. , Model Name, Capacity.

**Installation Form**:

Device Type, Model No., Model Name, Capacity, No.of device installed, Company Name, Address Date of installation.

**Upgradation form:**

Device Type, Model No., Model Name, Capacity, No.of device installed, Company Name, Address Date of installation.

**Device List:**

Table View. (Device installation list).

**3. Location Module:**

Map view**:**

Based on Company, City, Device Type views.

**4. Reports Module:**

Chart based report will shows based on Month & Year progression.

**Calix Backend:**

**Role Collection:**

Role id-Number-primary key (auto generate)

Role Name-string

**User account Collection:**

User id-Number-primary key(auto generate)

User name-string

Department name-string

Role id- Number-foreign key(reference)

Password-string

Created Date-Date

Updated Date-Date

**Configuration Collection:**

Device type-String

Model No.-string (primary key)-auto generate

Model Name – String

Capacity-string

**Installation Collection:**

Model No.-Number(reference)

No. of device-Number

Company Name-String

Address-string

City-string

Date of installation-Date

**Database API:**

|  |  |  |
| --- | --- | --- |
| API Calls | Details | Method |
| Authentication API | User id,pwd,Role id | GET |
| Accounts API | User id, User name, department name, Role name, Password, Created Date, Updated Date | POST |
| Role API | Role id, Role Name | POST |
| Device Configuration API | Device type, Model No. , Model name, Capacity | POST |
| Installation API | Device type, Model No. , Model name, Capacity, No. of device, Company name, Address, City, Date. | POST |
| Setting List API | Device type, Model No. , Model name, Company name, Location | GET |
| Map API | Device type, Company name, Location | GET |
| Chart API | Device type, Location, Date | GET |