Roadmap and Product Definition

Kuwaiba Open Network Inventory

2016-2017

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Product Definition

Kuwaiba Open Inventory System (from now on **Kuwaiba**) is a FOSS (Free and Open Source Software) enterprise class network inventory system. The Kuwaiba project is committed to protecting and promoting the four major freedoms stated by the FSF (Free Software Foundation):

• The freedom to run the program, for any purpose.

• The freedom to study how the program works, and change it.

• The freedom to redistribute copies.

• The freedom to distribute copies of the modified versions to others.

By “enterprise class” is understood the capability of managing thousands of elements and a high transactional load while ensuring the data availability, integrity and confidentiality. As part of the OSS (Operation Support Systems) ecosystem, **Kuwaiba** provides north and southbound interfaces to integrate it to other applications using common and open industry standards.

As an inventory system, **Kuwaiba** provides a comprehensive set of features focused on managing technological assets, as well as the relationships between them at physical, logical and administrative levels.

Current Status

These are the main modules/features supported currently:

- Dynamic object-oriented data model, easily extensible at design and run time supporting multiple technologies at all layers of the OSI model.
- Support for physical connections (cables, fiber optics, radio links, ducts, etc) and views.
- Supports creation, update and deletion objects (network elements, parts, facilities, services, contracts, etc).
- Support for Hierarchical and element detail views
- User management and basic groups support.
- Tools to manage the containment hierarchy to specify what element can be parent of what other elements (cities into states, switches into racks, etc).
- Custom queries (graphical query designer)
- Basic model documentation capabilities.
- Service Manager.
- Logical topologies designer.
- Rack occupation views.
- Software asset management capabilities
- Graphical physical trace views
- Bulk upload support

The current stable version is 0.7.1 released on November of 2015.

1st Qt 2016 – 4th Qt 2016

Short term (4 months)

- Graphical support to manage SDH networks.
- Model support for MPLS networks.
- IP Address Management Module.
- Misc UX improvements.

Mid term (4 – 8 months)

- GIS capabilities to support external plant deployments (FTTx, HFC, etc).
- Enhanced Service Manager module, adding support for product portfolio and better visualization of the associated resources.
- Basic reporting support.

Long term (8-12 months)

- Advanced reporting capabilities.
- Support for triggers and custom notifications.
- Enhanced Audit Trail module, allowing custom log entries and equipment time lines.

1st Qt 2017 – 3rd Qt 2017

Long term (12-20 months)

- Support for contextual help and integration with a content management system (i.e. a wiki) in order to provide a dynamic documentation capabilities.
- Enhanced administration web interface.

4th Qt 2017

Long term (20-24 months)

- Migration to a full web client