

Site**FORGE**

AUTO-
DISCOVERY &
CONFIGURATION

WITH AUTOMATED DEPLOYMENT PROCESS

USE CASE



BRIEF DESCRIPTION

AUTOMATION OF DEPLOYMENT PROCESS FACILITATING MOBILITY, ACCOUNTABILITY AND SAVING TIME AND ENERGY THROUGH AUTO-DISCOVERY AND CONFIGURATION- WITH SITEFORGE.

No organization can be fully efficient or effective unless it manages its assets well, particularly those assets that are vital to the running of the business. Configuration management provides a management infrastructure to create, manage, store, control, validate and provide information about the configurations of devices throughout their lifecycle.

It ensures that selected devices of the network are identified, base lined and maintained and that changes to them are controlled. It provides a configuration model of resources on the network by recording the relationship between its constituent resources.

ACTORS

- ▶ Field Engineer
- ▶ Network Planning Engineer
- ▶ Survey Engineer
- ▶ Vendor

TRIGGERS

- ▶ Monitoring and interaction between the devices during any change or security aspects when received from multiple vendors
- ▶ Monitoring mission-critical devices distributed over large areas out of physical reach
- ▶ Configuration of devices installed at redundant network by different resources
- ▶ Identification of any additional physical loop in an existing architecture that needs to be configured

PRECONDITIONS

PLANNING

Field Engineer has identified the most suitable sites for cell installation and a technical survey has been performed to measure its feasibility.

ACQUISITION

The Network Planning Manager has created a site proposal and drawn a framework; thereafter Network Planning Manager seeks approval from government authorities to acquire the site.

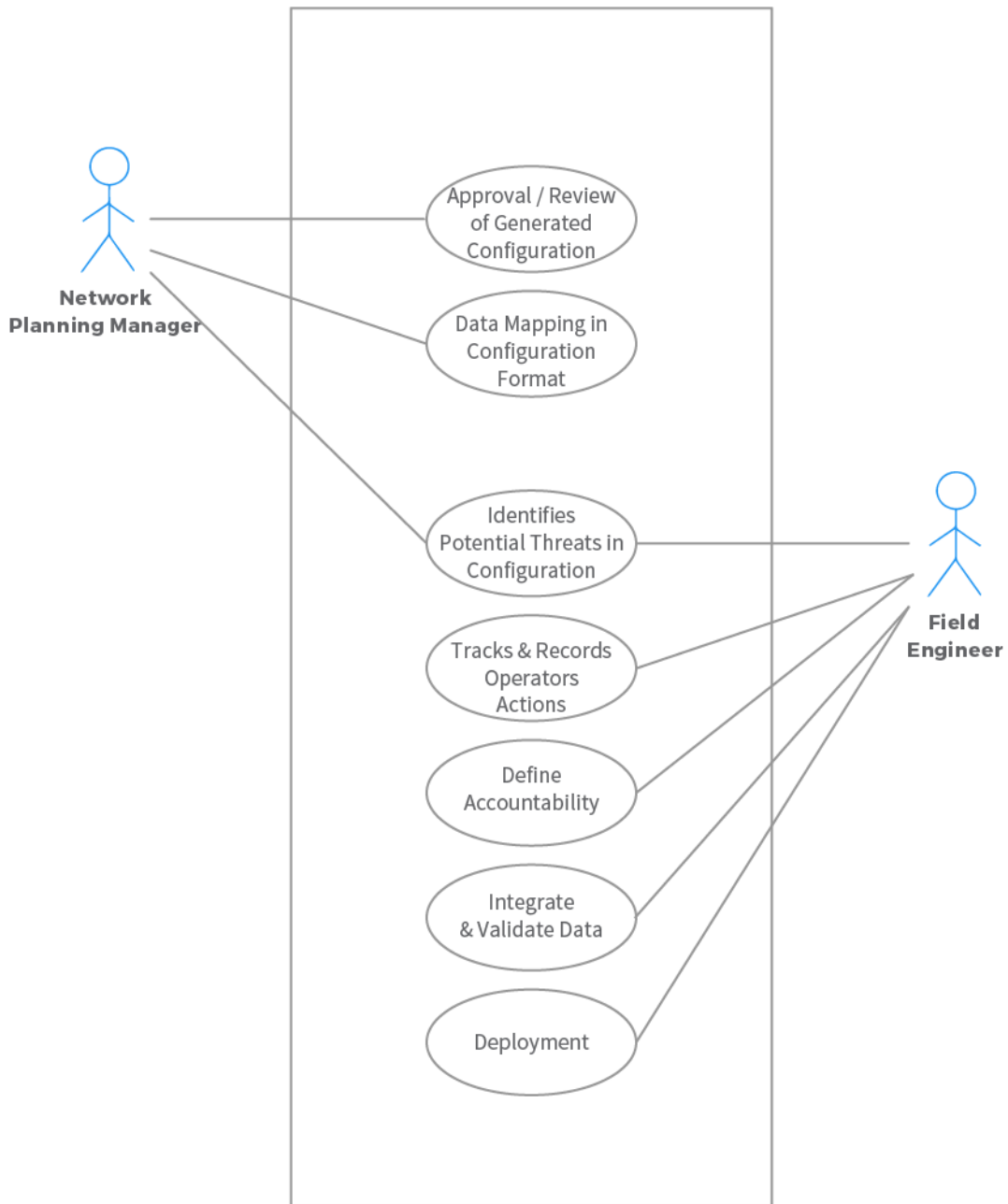
SURVEY

Site Survey is conducted by the Survey Engineer to assure efficient outdoor and indoor coverage with an effective bandwidth.

SITE INSTALLATION

After conducting the RF survey by Field Engineer, Network Planning Manager forecasts the materials required for Installation.

USE CASE DIAGRAM



BASIC FLOW

Auto-discovery and Configuration

Configuration Management ensures that selected devices of the network are identified, base lined and maintained and that changes to them are controlled. It provides a configuration model of resources on the network by recording the relationship between its constituent resources.

STEP 1

Configuration generator comprises of various processes like **workflow**, which provides functionality for managing any approval/review process of generated configuration.

STEP 2

Mapping wherein Data needs to be mapped into configuration format to comply with EMS system rules.

STEP 3

Transforming wherein the Data elements captured from underlying system (OSS and other feeds) needs to be transformed and enriched based on the business rules required for configuration.

STEP 4

Rules Engine validates the business validations for configuration values.

STEP 5

Configurator provides the queue mechanism for requested Plug n Play and status of completion of these tasks.

STEP 6

Lastly, **audit** tracks and records operator action for defining accountability as part of the system.

Data Management systems allow to import/integrate to underlying system to data. As a part of the configuration growth process, data is validated, enriched and added parameter based on markets. Automation of the deployment process is done which facilitates mobility accountability and saves time and energy through auto-discovery and configuration.

CONCLUSION

Auto-discovery and configuration is integrated for managing, auditing, and automatic configuration. It is designed to assist with simplifying the network management operations with automatic configuration generation and continual improvements. It provides a management infrastructure to create, manage, store, control, validate and provide information about the configurations of devices throughout their lifecycle.

SETUP AUTO DISCOVERY & CONFIGURATION IN SITEFORGE:

The deployment of the network infrastructure grows when new devices are added. Thus, the job of managing the devices becomes critical in a widespread environment; it will be advantageous to automate the device configuration process serving both security and convenience prospects. This use case showcases advanced feature provided by SiteForge to simplify the network management lifecycle facilitating automatic configuration generation and continual improvements.

With the configuration management, the processes like maintenance, repair, up-gradation, validation and control are streamlined. This process ensures the accuracy of the equipment's configurations connected in the network architecture. It makes sure that all the selected devices connected in the network are identified, base lined and maintained and all their changes are controlled. It provides a configuration model of resources on the network by recording the relationship between its constituent resources. The configuration provided by SiteForge makes the site ready for service.

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