

Site**FORGE**

SITE AUDIT

WITH OVERALL NETWORK HEALTH CHECKUP

USE CASE

DOCUMENT INFORMATION

ABSTRACT

This document details a use case on Site Audit. This document details the processes involved with Site Audit.

REVISION HISTORY

Revision 1.0	Initial document creation	2016-09-01
Revision 1.1	Added steps in basic flow	2016-11-11
Revision 1.2	Updated use case diagram	2016-11-22



BRIEF DESCRIPTION

MONITORING OF NETWORK ASSETS FOR THE IMPROVEMENT AND OPTIMIZATION OF NETWORK INFRASTRUCTURE PROVIDING EFFICIENT AND AUTOMATED SOLUTIONS THROUGH SITE AUDIT- WITH SITEFORGE.

With the increasing challenges faced by the enterprises to provide network requirements with limited resources, Site Audit provides opportunities to explore security considerations, identifying equipment errors, and areas that require improvements. A detailed site evaluation through Site Audit forecasts the material requirements and gets the required information.

Performing Site Audit is important that makes a site reliable, stable, and efficient; it also helps in building a successful network infrastructure. It gives in-depth analysis of the site that will give a deeper insight of what is required to improve the site.

ACTORS

- ▶ Field Engineer
- ▶ Network Planning Engineer
- ▶ Site Engineer

TRIGGERS

- ▶ Poor network coverage causes slow or drops connectivity issue in some areas
- ▶ Network intrusion with other neighboring co-channels
- ▶ Range of radio-specific issues and transmission
- ▶ Decision to target specific clients or sites
- ▶ Power supply measurements at different sites to meet specification
- ▶ Understanding the functioning of physical equipment's and cells location
- ▶ Meeting legislation, regulations, codes, and standards

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.

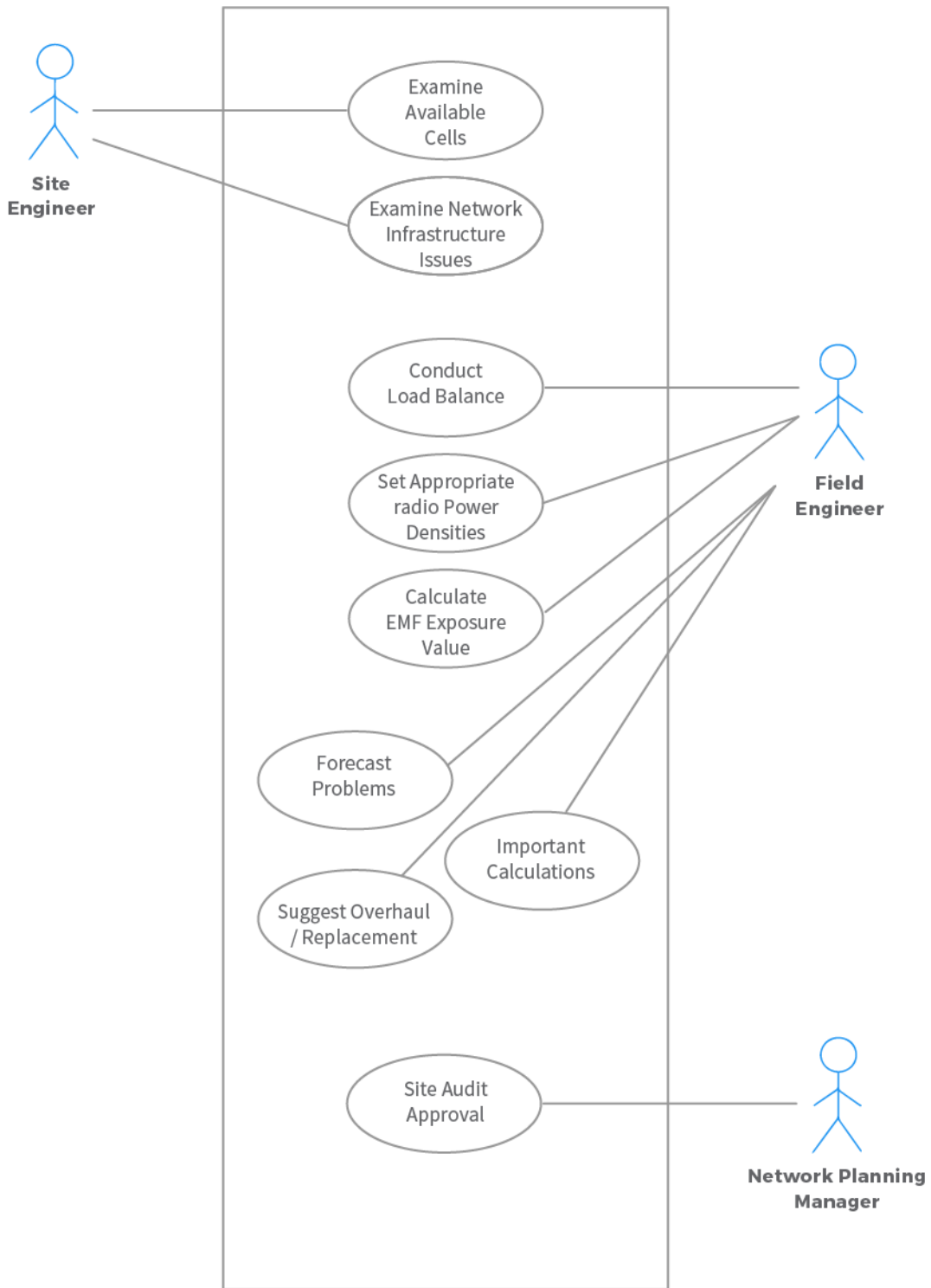
SURVEY

Site Survey is conducted by the Field 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

Site Audit

After the completion of site installation, a Site Audit is conducted to evaluate the performance of the network and identify the scope of improvements in the site.

STEP 1

Site Engineer examines the available cells and identifies the network infrastructure issues. Accordingly, the number of cells can be increased in the identified areas to prevent slow network connection or drop.

STEP 2

Based on the audit, the **Spectrum Load Balancing** is conducted to reduce the co-channel interference and increase the network performance.

STEP 3

As different classes of cells are used to support variant wavelengths, hence the audit calculates the exposure level of the electronic magnetic waves and sets appropriate radio power densities.

STEP 4

The audit builds a robust framework that provides optimized network coverage at the prospective location.

STEP 5

Power supply is a key factor in site installation. As increasing power grid does not solve the issue, therefore, Site Audit conducts important calculations to provide a reliable network. If there is any type of equipment's malfunctioning, then the audit will help in forecasting any problems and suggest the overhaul or replacement.

Site Audit makes the site fully compliant with the legislative rules and regulations.

CONCLUSION

The network infrastructure is crucial for every enterprise. There are several factors contributing towards its success, however, chances are there can be a potential problem which may slow efficiency level. One such is downtime to any network infrastructure can be caused due to failures or outages, which create problems for Enterprise. By conducting Site Audit, various consequences of failures can be detected and solved by closely monitoring the infrastructure after the site installation.

SITE AUDIT BUILDS RELIABLE NETWORK INFRASTRUCTURE:

This use case provides a detailed Site Audit process with SiteForge for establishing a reliable network infrastructure meeting regulatory aspects, safeguarding assets, and performs well with co-channel presence. Discover ways to improve the infrastructure which results in incredible improvements to the site, thus improving the efficiency of the network.

Any outdated or malfunctioned equipments can be identified and faster components can be installed to boost entire network. By conducting the Site Audit, a site becomes compliant with the government regulations. Also, it's become proactive, which will make the business perform better providing automated solutions.

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