

SiteCall Trunked Radio Site Voice Call Transponder System Overview

General

Most Trunked sites will be equipped with a Site Status Monitoring system, to give the Network Manager a full picture of the Site's statistics and its general 'connectivity' performance. However, such systems do not really provide information on the actual voice quality and operation as the actual Site Users experience. SiteCall will comprehensively complete that picture.

SiteCall is a Radio Voice Call Transponder system specially designed for Trunked radio sites, to provide Network Managers with a means to check the voice call quality of the Site as their customers (the actual users) experience this. This eliminates the need having to travel to the Site in question, and/or use third parties, to assess the Site's actual quality of service in case of Customer queries or complaints.

Basic Operating Principles

Sitecall is a 2 RU high 19" rack mounted panel, which connects to a standard trunked mobile radio also installed at the Site. This radio is set up such that it can only communicate via that particular Site. Its 'antenna' is either a piece of coaxial cable terminated with a dummy load (or similar) or, for more sophisticated monitoring purposes, its antenna connection may be engineered such that it will only acquire Service if the site's RF transceiver performance is within specifications (i.e. the radio would loose Service if, for instance, a Traffic Channel's RF output power would drop below a certain critical threshold level).

Any trunked radio anywhere in the System's coverage area can access the Transponder radio, speak in a Voice message, hang up the call, and Sitecall will get the Transponder radio to return the call, re-playing the audio signal it just received from the caller.

Easily installed, SiteCall is suitable for any MPT1327 site, as well as for LTR and Motorola SmartNet and SmartZone sites.

System Components and Installation

In addition to the SiteCall unit itself, all that is required to complete a SiteCall installation is a standard trunked radio (of any make/type). SiteCall is supplied c/w a plug-in radio interface cable, for easy 'plug and play' installation. Adjustments (if any) are limited to a simple transmitter deviation level setting.