MAXX CONTROL

CABSAT 2013

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Antech
SATELLITE COMMUNICATIONS

www.maxxcontrol.com

MaxxControl - Monitor & Control

The first all web based monitoring system

Using the latest web technologies MaxxControl is the first system able to work in a browser window and independent from the operating system.
Our solution is a combination of software and hardware entirely engineered by Antech team.

MaxxControl Monitoring & Control System

The MaxxControl Monitoring & Control System developed by Antech is a full web based software system providing monitoring and control of any kind satellite ground station and associated devices.

The system consists of three parts

- The MaxxHub Controller interfacing to the ground station equipment
- The MaxxControl Web interface, built in inside the controller
- The MaxxControl Server, which collect and stores the data of the several MaxxHub Controllers (optional)

The software is operating on any browser which has an acces via HTTP to the MaxxHub Controller and can work as stand-alone solution or as a newtork of MaxxHub Controllers all managed by a single web browser.

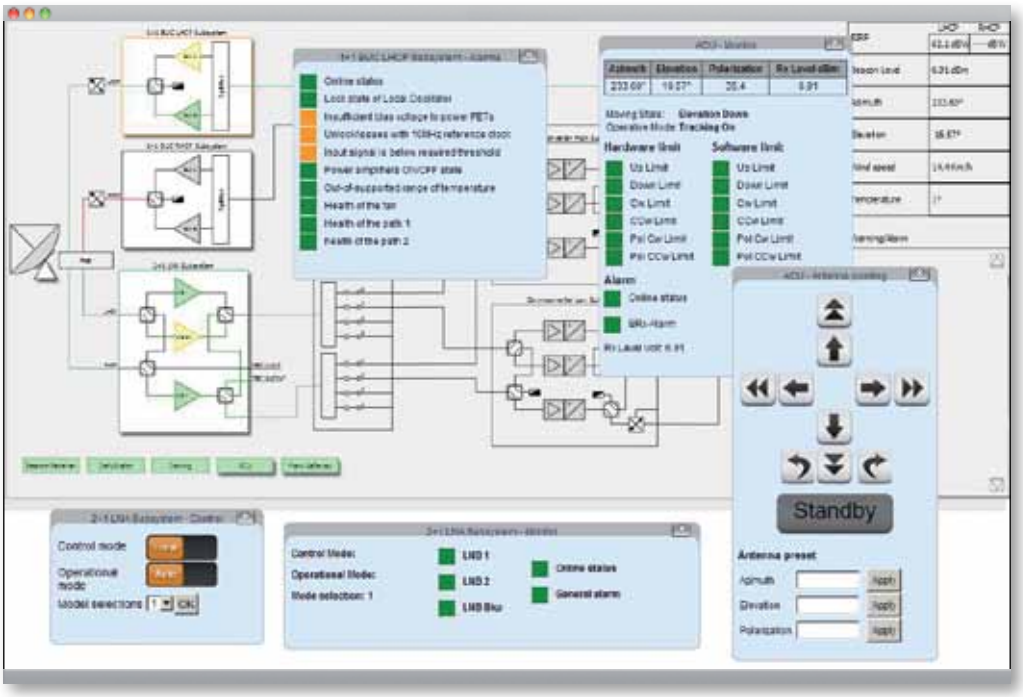
The main advantage of thus solution is the possibility to manage and monitor several ground stations both locally or from a central site.

Functionality of the MaxxControl System

The MaxxHub Controller monitors and controls the equipment of a satellite ground station. The monitoring is performed locally without any influence and connection of any operator client. The connected equipment is polled and monitored continuously. Typical alarm flags of the equipment, like summary alarm, lock alarm, etc., thresholds or limits of data quality are detected. The alarm message is stored in the internal MaxxHub Database and optionally at the MaxxControl Server and the operator is alerted via both a graphical and an audible alarm. The internal log database can easily be investigated and searched via a user-friendly interface for analysis and statistics.The operator has full control over all equipment and can monitor and change any device parameters without interruption of the service. Each device is represented in its own popup window with a simple click and multi-vendor equipment in the field can be supported with one single interface.

Events and alarms

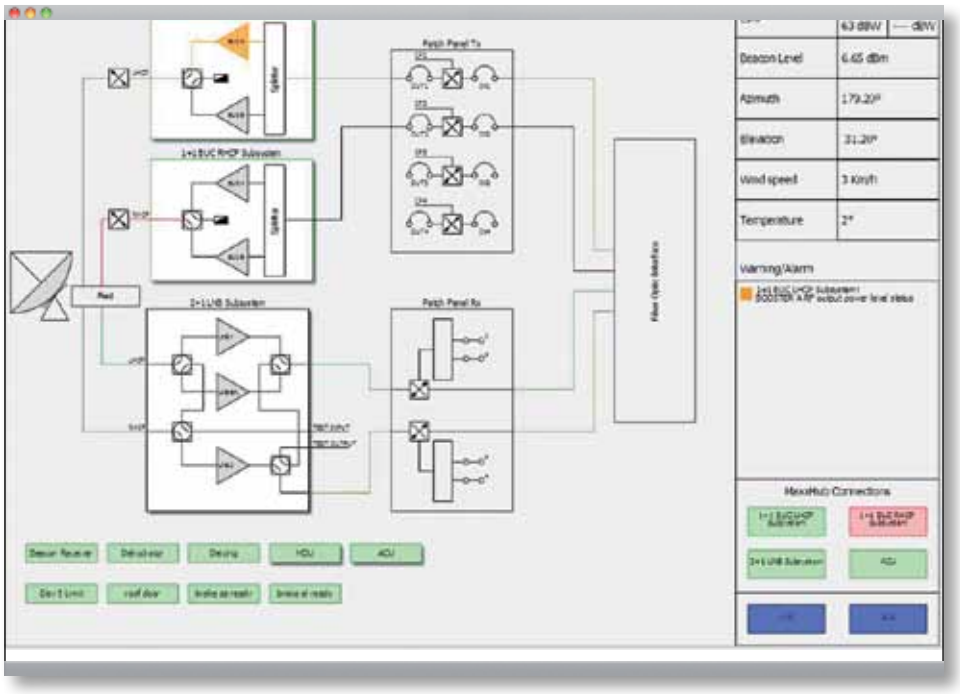
View either current or historical events and alarms. Filter and sort alarms and events using various parameters. Map the alarm severity level to a corresponding physical reaction in the system such as audible alarms and visual indicators. Navigate directly to the device window to get the details of the failure.



Redundancy management

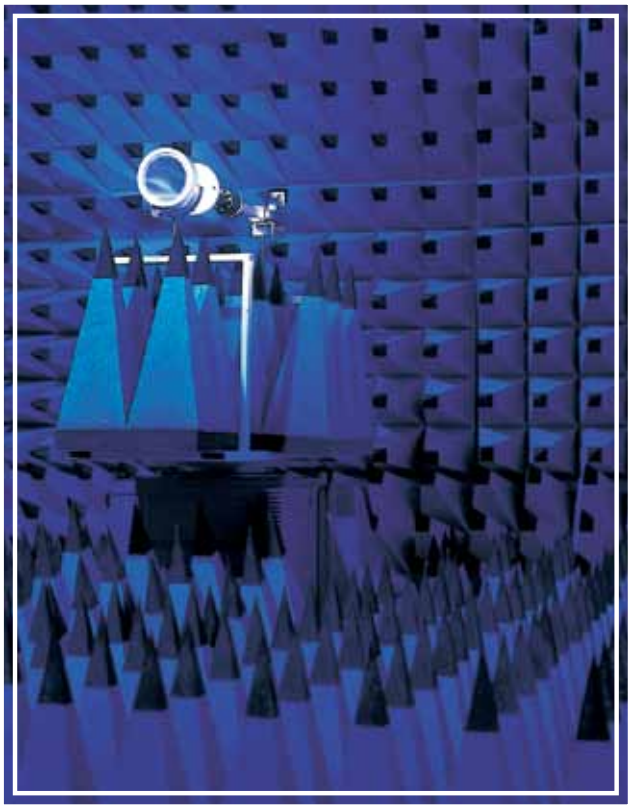
MaxxControl provides priority-based switching between online and standby equipment, based on pre-defined priorities assigned to each device, each workstation, each user and the system itself.

All switching criteria can be configured by the operator. All parameters for standby equipment being switched on-line are set to the same values as the equipment being switched out.



Main features

- Web Based Graphical Software Architecture
- 1:N Automatic Switching
- Cloud enabled: possibility to operate the system as a service
- Complete scalability: run one or infinite system
- Parameter and Alarm Logging
- EIRP computed displa with value for each antenna based on the HPA output power level
- Uplink Power Control
- De-icing Management - with multiple antennas at one site, the system can schedule



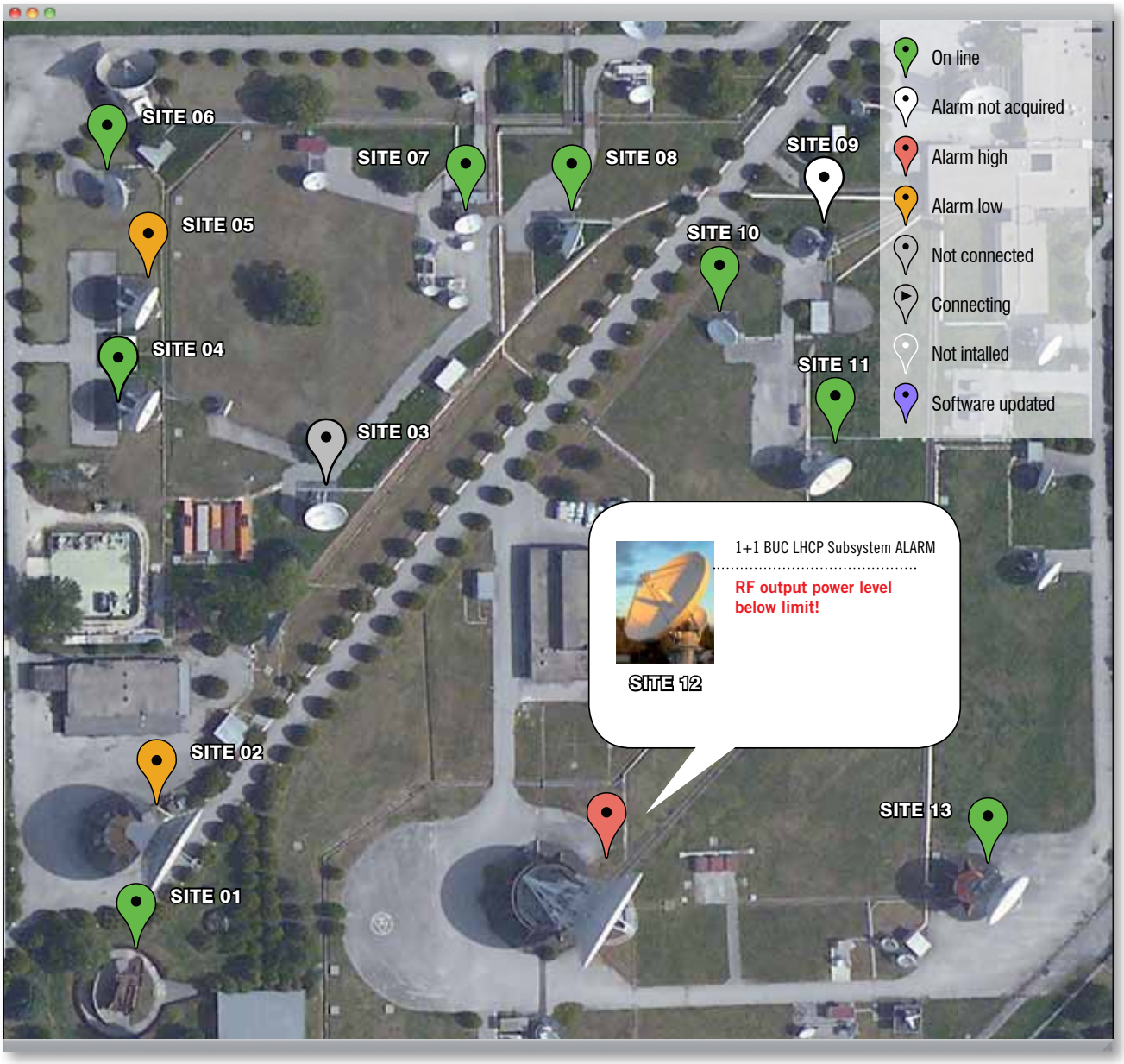
Key points

- 100% web based software interface
- WebSocket Technology
- Multi-tab support for multiple sites views
- Full remote administration and support
- Client is independent from Operating System
- Unlimited number of clients possible
- Event/Alarm log with filter utilities
- Task- and device-oriented user interfaces
- Macro recording functionality
- Software configurable interface device configuration
- CAD like screen configuration utility for user configurable operator screen contents

You can use iPad or smart phone to operate the system

Manage your system configuration and user access confidently

Today the management of Monitor and Constrol systems has become a significant challenge for IT staff which is continuosly pressed to manage more computers, software configurations, networks always with fewer resources available.Thanks to MaxxControl unique Monitor and Control system one single installation of our platform can manage all the installed systems without any specific compentence of the IT Staff.
This will simply the overall management and will enable new staff to take care of the system without particular training, sensibly reducing the costs of the entire management of the clients equipments.



Graphical user interface

The user can monitor and control the sites via a graphical layout based on images from satellite with a style typical of Google Maps© interface

The user interface client software runs separately from the MaxxControl Server. This allows MaxxControl user interfaces to be run from multiple workstations and locations. All the equipment and sites in your network can be summarized in a single map view to assess your network status at a glance.

100% WEB BASED TECHNOLOGY

Technical Specification

Each MaxxHub System consists of an industrial PC based on latest hardware platforms designed for 19" rack mounting (1RU) with an Ethernet 10/100 Mbit interface and severalserial interfaces RS232 or RS485/RS422. Multiple MaxxHub can be installed in parallel to extend the number of inputs/outputs.

Supported Satcom equipment interfaces

Serial interface RS232/RS485/RS422 on a 8P8C Rear Panel connectors.

Optocoupler inputs for Alarm Signals

Potential free Relay Output Contacts via MaxxControl IO-FEP

Ethernet Interface for overall Network Management

Electrical and mechanical specification, environmental conditions

Supply Voltage	110V/60Hz, 220V/50Hz, 20VA
Dimensions	19", 1RU x 480mm
Temperature Range	10° to 40° C
Humidity	Up to 90% non-condensing

Basic System Configuration

- 8 x RS232 or 8 x RS485 or 4 x RS422 max.
- 16 Input Signals
- 16 Output Signals
- 8 Analogue Signals
- Possibility to install multiple MaxxHub in parallel to extend potentially without limits the configuration

MaxxControl IO Frontend Processor

The MaxxControl IO-FEP interfaces to many "low level" interface commonly used in satellite ground stations like equipment alarm contacts and other status signals.

It provide opto-coupled inputs and potential free relay output contacts.

Web Browser Compatibility

- Google Chrome, version 24.0+
- Mozilla Firefox, version 17.0.1+
- Opera, version 12.12+

The MaxxHub

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