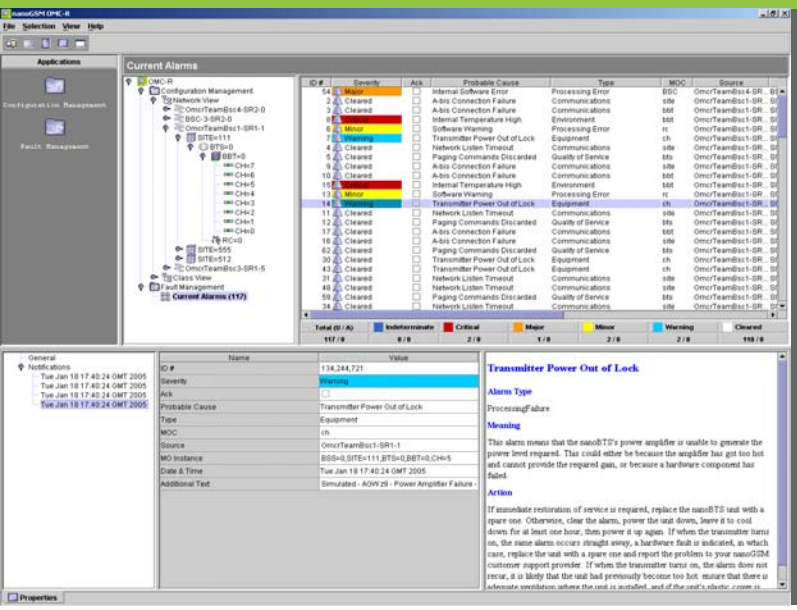
nanoGSM™

GSM-over-IP picocells for in-building coverage and capacity



nanoGSM OMC-R

The OMC-R (Operations and Maintenance Centre – Radio) is the management solution for the nanoGSM system and provides all the facilities needed for the operation and maintenance of ip.access' nanoGSM BSCs and nanoBTSs including alarm management.

The simple and intuitive user interface is highly configurable, employing a familiar tree-based environment.

revolutionary deployment platform

The nanoGSM OMC-R is a centralised management tool, which enables operators to control, monitor and upgrade the network elements from a central site. The architecture has been designed in order to support single or multiple user sessions with a CORBA™ based interface between the server and clients. The OMC-R client is platform independent and runs on Linux™, Solaris™, Windows™ and other platforms that support Java™. Integration with existing OMC software via CORBA or Java interfaces can be undertaken by ip.access, under license agreements.

configuration management

The configuration management module enables all parameters on the BSC and BTS to be monitored and provisioned remotely. The session management allows single or multiple users to edit and/or store configurations. Multiple BSSs can be edited in a single session, and wizards are used to simplify the setting up of new BSS sites and the A interface.

alarm management

The alarm management functionality of the nanoGSM OMC-R collates all alarms from the BSSs and lists them with alarm severity, acknowledgement status, probable cause, equipment and managed object identification and timestamp. The alarm management module screen is user configurable and with filtering, managed objects can be viewed according to the highest severity alarm, by date, by individual BTSs and so on. A context sensitive help pane is available to assist the user in interpreting the alarms and to suggest repair instructions.

performance management

There are over 40 key performance parameters that can be configured for export to 3rd party analysis tools. These include unsuccessful requests for service, mean inter-arrival time for circuit and packet switched, paging messages and handovers from the BSC and statistics on handover, paging and immediate assignment from the BTS.

key features

- Full network view with colour coded alarm management
- Easy integration with 3rd party alarm packages
- Configuration for over 40 performance parameters
- Configuration management simplified with wizards
- Multiple user / multiple BSS management
- Clients for Windows, Linux and Solaris
- User definable Windows environment

technical specification

management

alarms

- Details of all alarms reported by nanoBTS and nanoGSM BSC
- Alarm lifecycle management
- Filtered alarm views by managed object
- Interface for integration with 3rd party alarm management packages

configuration

- Provisioning and re-configuring nanoBTS and nanoGSM BSC
- MIB Attribute display and modification
- Lock, unlock & shutdown
- Object Create & Delete

configuration wizards

- Circuit interface (CIC) of the A interface to an MSC
- Site create for new BSS

performance

- Configures collection of GSM 12.04 and other BSC and BTS performance measurements for off-line analysis

help

- Context sensitive information for selected managed object, MIB package, attribute and alarm
- Back-up and restore

system support

BTS

- nanoBTS GPRS/GSM 1800
- nanoBTS GPRS/GSM 1900
- nanoBTS GPRS/GSM 900

BSC

- nanoGSM BSC

interfaces

protocols

BSC to OMC-R server	CORBA
Client to Server	CORBA

network interface

- IP over Ethernet

platform

physical platform

Linux	server/client
Solaris	client
Windows 2000	client

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