



DATASAFE Product Overview

Parameter Configuration Change Management

DATASAFE is a powerful, PC-based, radio network systems configuration tool. It enables controlled management of multi-technology, multi-vendor network system parameters.

What is DATASAFE?

DATASAFE supports two main processes:

- The parameter “data fill” process for roll out of new equipment
- The operational configuration change management control process for making changes and upgrades to existing equipment in the network

The tool is fully compliant with configuration parameter management for 2G, 2.5G and 3G network system technologies and related major vendor supplier platforms.

DATASAFE:

- Facilitates easy tuning and implementation of cell parameter changes into the network
- Allows parallel optimisation of the network and still maintains consistency across all geographic network regions
- Facilitates easy integration and data sharing with other network optimisation tools such as performance monitoring, radio planning, frequency planning
- Allows automated synchronisation of the Live Network to the Planned Network

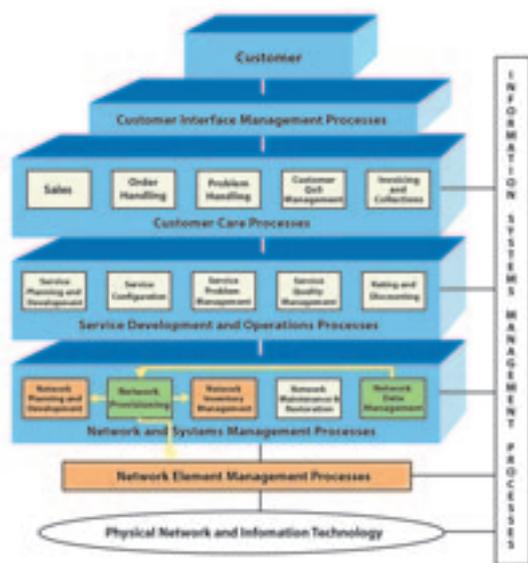
Key Benefits of DATASAFE include:

- Easy to use, PC Windows network configuration management system
- Robust and scalable IT platform architecture with choice of PC or UNIX servers to suit IT policy and existing IT investments
- Powerful ORACLE data ‘warehouse’ able to maintain and retrieve network system configuration sets for large network systems over many years
- Capacity to cater for multiple equipment vendors and network system technologies (2G, 2.5G and 3G)
- Flexible network vendor and planning tool(s) interface handling and parameter discrepancy reporting
- Option to implement MML command modules for direct implementation of network system parameter changes (parameter provisioning)
- Structured method of maintaining and managing system parameter settings across differing network system equipments and technology layers
- Ability to operate as a stand-alone network configuration module or as a fully integrated part of the wider AIRCOM ENTERPRISE planning and network system management tool suite
- Common ‘look and feel’ between tools enhances cross department communication and operational working efficiencies and minimises specialist tool user training
- Extensive AIRCOM software and services support infrastructure, according to defined Service Level Agreements
- Rapid product roadmap developments and supported upgrade paths

DATASAFE - Part of the ENTERPRISE Suite

The DATASAFE and Operator Fit

DATASAFE's product position is represented on the Tele Management Forum (<http://www.tmfforum.org>), Telecoms Operations Map (TOM) model, in the diagram below. The green coloured portion shows where DATASAFE sits with typical outputs servicing wider business functions indicated via the yellow arrows and orange boxes.



DATASAFE Positioning

DATASAFE supports Network Provisioning and Network Data Management. Input to DATASAFE comes from a live connection with the network planning tools and from the Network and System Management Process area.

Network Provisioning

Sources for Network Change:

- Service configuration requests
- Configuration requirements from Network Planning and Development
- (Re-) Configuration requests from Network Maintenance and Restoration

- Network changes from Network Data Management
- Command confirmations directly from the System Element Managers

Outputs:

- Current network configuration reported to Network Planning and Development
- (Re-) Configuration notification into Network Maintenance and Restoration
- Radio Network Parameter datafill
- Configuration instructions to vendor management system and / or directly into the system element managers

Specific interfaces for import of planned (desired) configurations and actual (existing settings installed in network) are established. Planned input sources into DATASAFE may come from current planning tools (AIRCOM ENTERPRISE or 3rd party) with additional parameter data imported from radio network optimisation, data transcript and switch engineers.

The User Interface consists of several modules which all contribute towards the efficient maintenance, tuning and desired re-configuration of network parameters. The DATASAFE Server Engine automatically updates the Live Network database and synchronises the Live and Planned networks, where allowed.

DATASAFE supports options to output configuration change commands to the network in the form of MML commands, so that automatic provisioning of desired parameter changes can be achieved. Alternatively, system parameter changes can be effected using the discrepancy management facilities within DATASAFE, with output implemented in the network via existing vendor equipment management system(s).

The desired configuration workflow management process is developed as part of the AIRCOM solutions specification for each operator deployment, according to the particular network vendors and system management requirements.

Why Choose DATASAFE?

The Business Case

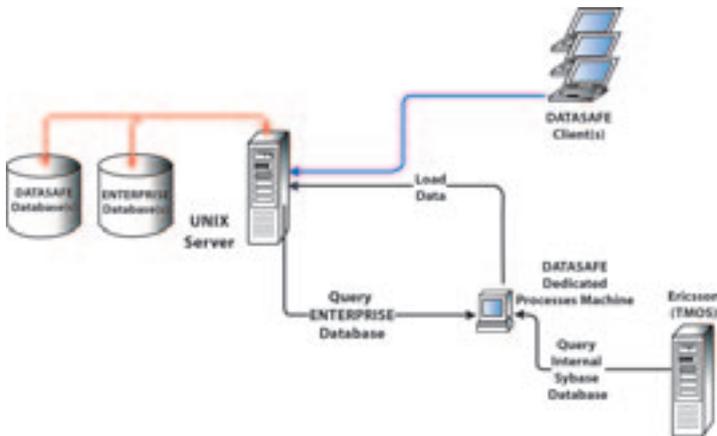
In today's increasingly complex network systems technology markets, robust methods to interrogate, manage and update large numbers of system parameters across a diverse range of equipment is imperative. Configuration management is at the heart of efficient network systems management and service quality performance. Traditionally, organisations have depended upon numerous interconnected databases and a disarray of both internally developed and 3rd party tools. This situation does not adequately support configuration management across complex multi-vendor, multi-technology, large system networks. DATASAFE enables operators, for the first time, to standardise their operational configuration management process inside a single, commercially developed and supported product.

When combined with the functionality provided by the other AIRCOM ENTERPRISE tools, DATASAFE offers an unparalleled level of integrated network system management. This capability supports any combination of 2G, 2.5G and 3G radio network systems equipment.

DATASAFE reduces the potential for parameter discrepancies between the planned (modelled) network and the actual live network, maximising available system capacity and service affecting quality.

DATASAFE centralises network change process management and change record history, across multiple vendor and technology network layers.

DATASAFE provides a method for controlling and maintaining master planned (desired) network parameter settings and actual installed (live) network parameters – reducing risk of operational network management process error and catastrophic consequences when these errors are inadvertently downloaded to the network.



DATASAFE Installation Scheme

System Implementation

Solutions Design

The success of an OSS system management tool lies in its ability to service the needs of multiple user groups through a common, easy to use, integrated environment. AIRCOM is a market leading supplier of integrated Windows user tools engineered to support the reliability, security and information management needs of leading network system operators. In order to support DATASAFE deployment within specific customer environments, a detailed OSS solutions specification is developed containing all system interface and data collection handling architecture and system installation needs and requirements. The DATASAFE IT system is dimensioned to meet future operational data handling demands, tool and network system upgrades. Wherever possible, utilisation of current UNIX and / or PC based server and workstation facilities is made.

Customisation

DATASAFE is a multi-vendor, multi-user configuration management solution. The tool has been designed specifically to offer user interrogation flexibility and information and system configuration workflow required by mature "performance conscious" organisations.

Additionally, AIRCOM's team of configuration specialists is able to support the implementation of new and improved configuration methods made possible with the introduction of DATASAFE.

OSS Delivery Management Process

AIRCOM follows a robust OSS tool delivery management process from the OSS solution design specification stage, through pre-installation testing, delivery, customer acceptance and ongoing system support services. Operating globally, AIRCOM is well established as an experienced project services and tools provider, catering exclusively to the mobile network operator sector. AIRCOM's proven project program and QA management techniques and experience ensures successful project delivery, system integration enhanced user experience and results following AIRCOM OSS tool delivery project.

User Training

AIRCOM believes that the most effective user training can only be delivered by an 'in-house' dedicated and professional training organisation. AIRCOM's training organisation builds on the software and consulting services pedigree and proven practices available within AIRCOM. AIRCOM's training group is organised, equipped and developed to meet the most exacting technology and tools

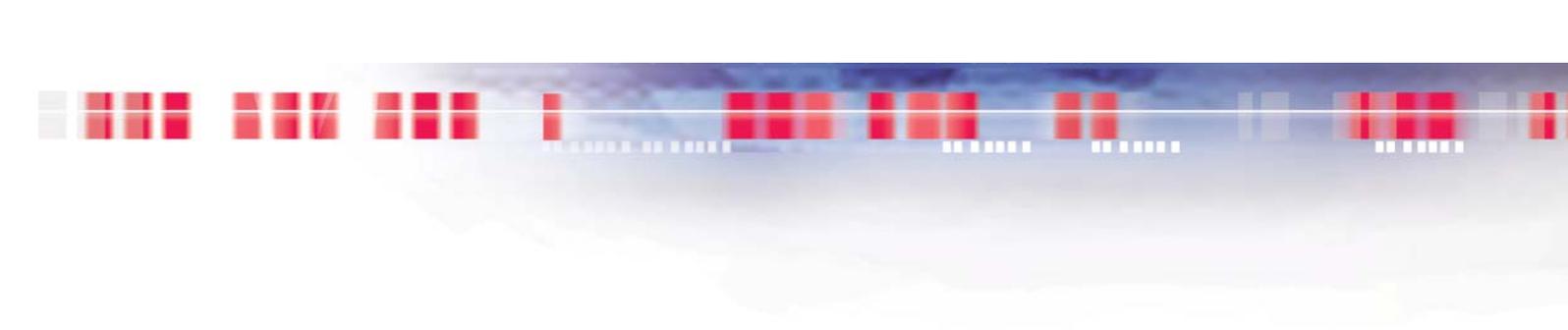
training delivery demands providing standard training course programmes or tailored training programmes developed to meet specific customer training needs.

Support and Product Development

Front line support and maintenance is provided globally. Our customer support processes, practices, methods and service levels have been perfected over eight years of successful tools supply to the mobile engineering and operations sectors. AIRCOM's regional offices and partners have a vast array of interactive and on-line support services, user help and customer status report facilities at their disposal. AIRCOM's support ensures efficient categorisation of user issues and their rapid resolution according to defined and mutually understood priority criteria.

AIRCOM's product development strategies for the ENTERPRISE Suite are achieved in full harmony and consultation with highly regarded members of the network operator and equipment vendor community. Customers enjoy a significant volume of continuing features and user enhancements to their installed AIRCOM ENTERPRISE tool suite modules.

AIRCOM ENTERPRISE is a fully integrated planning, provisioning and operation management tool suite, with common user interface, map view, database, security and administration facilities. The ENTERPRISE tool suite supports field based laptop users and web access. See the ENTERPRISE Suite Overview for further details about ENTERPRISE.



AIRCOM International offers a unique solution to the mobile telecommunications industry by providing software tools, consulting services and training courses. We are experts in Radio Network Planning, Access and Core Planning, Optimisation and Operational Support Systems. For more information about AIRCOM, please request a copy of our company profile.

With offices around the world, AIRCOM supports customers in all regions with a high level of efficiency and professionalism. Please contact your local office for more information about our products and services.

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