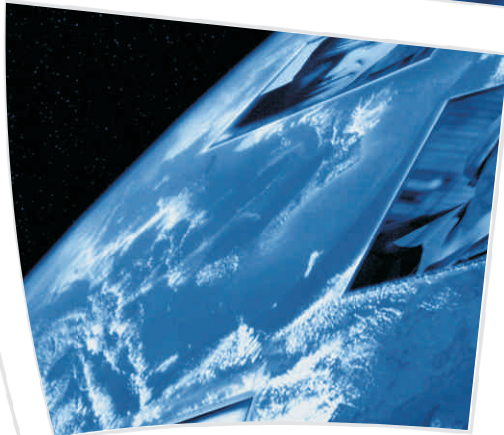




WE MAKE **it** HAPPEN

NMaCS

New Generation OSS





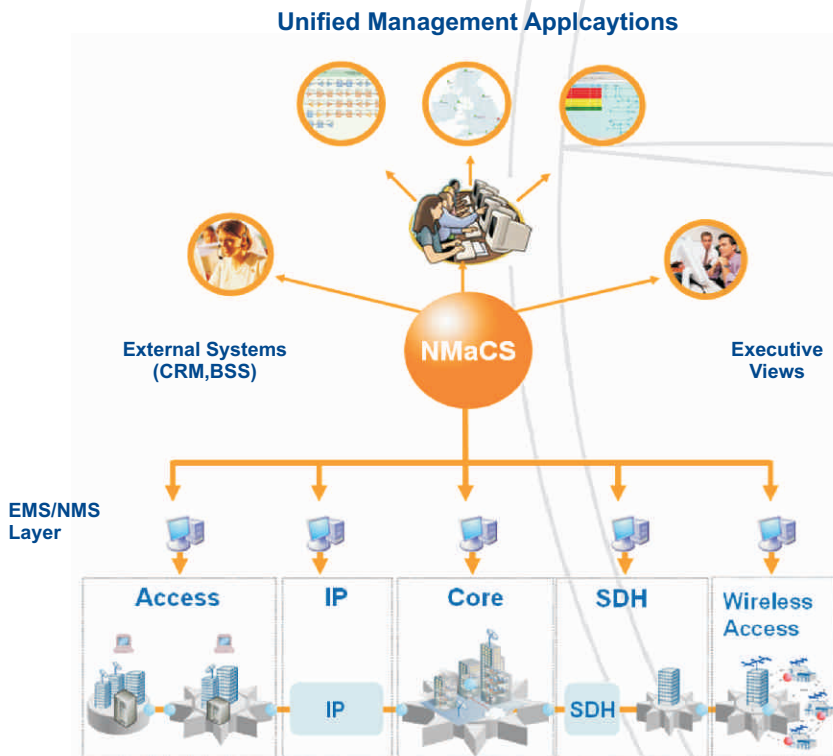
WE MAKE **it** HAPPEN

NMaCS – New Generation OSS

Leveraging over 25 years of experience and deep knowledge of OSS and NMS systems, Ness Technologies has developed the Network Management and Control Suite (NMaCS), for managing and controlling multi-vendor and multi- technology networks.

NMaCS is an integrated software suite that provides an End-to-End network and service management for large-scale multi-technology commercial and military networks. NMaCS follows TMF NGOSS (NGN OSS) framework and standards utilizing an open and scalable platform with a Service Oriented Architecture (SOA) which enables standard integration with other NMSs, operation systems and business applications.

NMaCS provides the operators with unified and intuitive Graphical User Interface (GUI) that simplifies the operations at the Network Operation Center (NOC), enables to monitor and control the entire network from one centralized management system and by that to dramatically reduce OPEX, CAPEX, and time to service.



NMaCS – End to End Management platform for multi technology networks

NMaCS Advantages And Unique Offerings

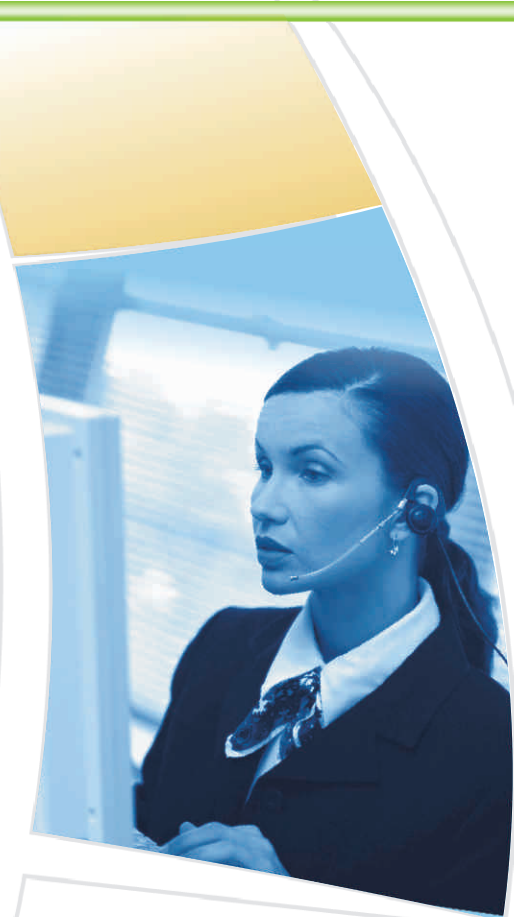
- **State Of The Art End-To-End Platform** for managing multi technology networks via one central management application
- **Manager Of Managers Approach** utilizes existing EMS (Element Management Systems), legacy OSS and COTS (Commercial Off the Shelf Products) in order to reduce the time, effort and costs of customization work
- **Graphical Unified User Interface** ensures easy operation by small, minimally trained operational team
- **Immediate Fault Resolution** NMaCS robust RCA (Root Cause Analyzer) enables to detect, isolate and resolve network failures within seconds instead of hours
- **End To End Service Activation** enables rapid provisioning and activation of services cross networks and cross technologies
- **Comprehensive Planning Application** enables planning, validation and activation of large-scale network updates with minimal errors and optimal resources utilization

NMaCS Modules

NMaCS utilizes a modular and open approach for which there is a base platform (NMaCS engine) the fundamental component of an NMaCS installation. Functional modules are added on the platform in order to customize the solution according to customer's specific needs.

NMaCS includes the following modules:

- **NMaCS Network Controller (NCO)** - Unified network status views
- **NMaCS Root Cause Analyzer (RCA)** - Robust event correlation engine for analyzing and correlating network events
- **NMaCS Alert Manager (NAM)** - Alerts are used to notify users (e.g. operators, managers) about network, service and process events directed to them automatically by their relevant profile
- **NMaCS Service Manager (SMR)**- End to end service planning, activation and monitoring
- **NMaCS IP Manager (IPM)** – Integrated module for managing multi- vendor IP networks
- **NMaCS Drawer Plans Manager (DPM)** - Planning and activating future network updates
- **NMaCS Security Manager (SCM)** – Security and access management module



NMaCS Drawer Plans Manager

NMaCS Network Controller

NMaCS Service Manager

Standards and Functionality

NMaCS is the first comprehensive OSS solution that fully complies with **NGOSS** standards. Its information model is based on the *TMF Shared Information and Data (SID)* specification. Processes are implemented by **OSS-J** interface definition.

Interfaces with external management systems are created via various protocols: CORBA, MTNM, SNMP, SOAP, MODBUS and others as applicable.

NMaCS' functionality spans across all commercial OSS (eTOM) fields, including:

Service assurance functionality

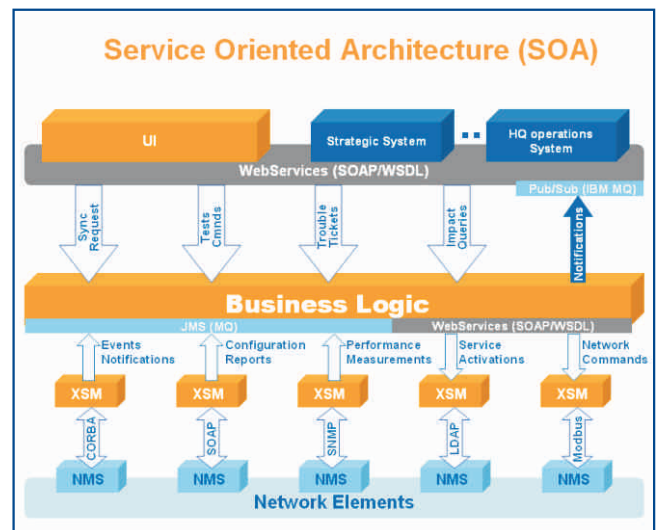
- Fault Management
- Performance Management
- Root Cause Analysis
- Impact analysis
- Trouble Tickets
- Quality of Service

Service configuration and fulfillment modules

- Network & Service Inventory
- Planning, Provisioning & Activation
- Service Discovery & Reconciliation
- Workflow Operations & Taskforce Management

In addition to the Commercial OSS functionality, NMaCS includes functionality dedicated for Military OSS including:

- In-depth support for contingency planning
- Management of deployed forces and narrow-band networks
- User interface engineering for low-skilled operators
- Management views for various strategic and tactical decision makers



With more than 25 years of experience developing and maintaining of operational OSS systems, Ness Technologies proudly presents its new NMaCS platform which combines field-proven reliability and robust functionality to assure efficient network operations under almost any scenario.



Ness TSG is a leading global command-and-control, intelligence and telecommunications systems House. With over three decades of experience, Ness TSG specializes in the development and integration of advanced, comprehensive solutions for the defense, homeland security, telecom, and utilities sectors. Dedicated to delivering cutting-edge, best-of-class solutions, Ness TSG serves a diverse client base of private, public and governmental organizations worldwide. Leveraging its affiliation with Ness Technologies (NASDAQ: NSTC), a global IT solutions provider with offices in 18 countries and 7,800 employees, Ness TSG offers a one-stop-shop of products, systems and professional services for a range of military, paramilitary and telecom applications. For more information about Ness TSG, visit [Http://www.ness.com](http://www.ness.com).