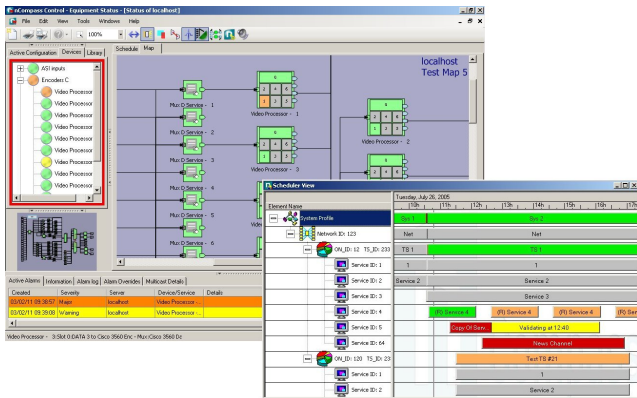




NCOMPASS CONTROL BY ERICSSON



nCompass Control by Ericsson offers service providers powerful and effective management of Ericsson's full range of video headend systems and broadcast products. nCompass Control was developed to provide a world-class management solution to accompany our world-class encoding and broadcast systems. It offers single view control of multiple devices within an elegant and easy-to-use interface.

nCompass Control continually monitors every component in the local system, and provides automated failure detection, redundant component switching and configuration of the fail-over components. With per-stream pricing, its scope can grow as your headend grows, reducing upfront costs and ensuring a future-proof investment. nCompass Control can meet the management and control requirements of the full spectrum of headend configurations – from small edge sites to complex satellite, cable, terrestrial and IPTV super headends across a wide area network or local area network.

PRODUCT OVERVIEW

Any Ericsson Device, Any Configuration

nCompass Control excels in its breadth of support and flexible configurations. The system can control encoders, receivers, de-scramblers, multiplexers, scramblers, edge QAM, modulators and third-party switches.

It puts the service provider in control of all of the transport streams, channels and devices with the widest range of configuration options, and is easily accessible through a remote client user interface.

Powerful Redundancy and Remultiplexing Capabilities

Service providers with 1+1 or n+m redundancy requirements will benefit from nCompass Control's ability to rapidly and automatically reconfigure systems on the fly in the event of a device or system failure. nCompass Control is also ideally suited for digital turn-around applications which can utilize the management system's powerful re-multiplexing capabilities including real-time PSI regeneration, remapping channel number and PID information.

Intelligent Management

nCompass Control allows operators to view status, capacity and alarms at the headend, chassis or module level, minimizing down time and ensuring rapid fault isolation.

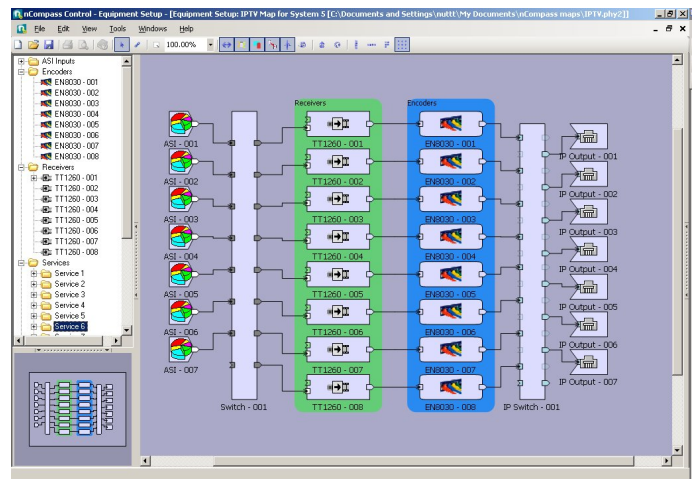
OPTIONS

nCompass Control Client GUI

The remote client user interface allows a single client to monitor and control any number of nCompass Control servers across a wide area network or local area network.

Range of PC Hardware Platforms

There are a range of HP PC servers available. Each comes fully configured with Microsoft® Windows Server 2008, back-up utilities, and the required level of nCompass Control software. There is also an option for a 1+1 redundant solution for maximum availability called nCompass Integrity.

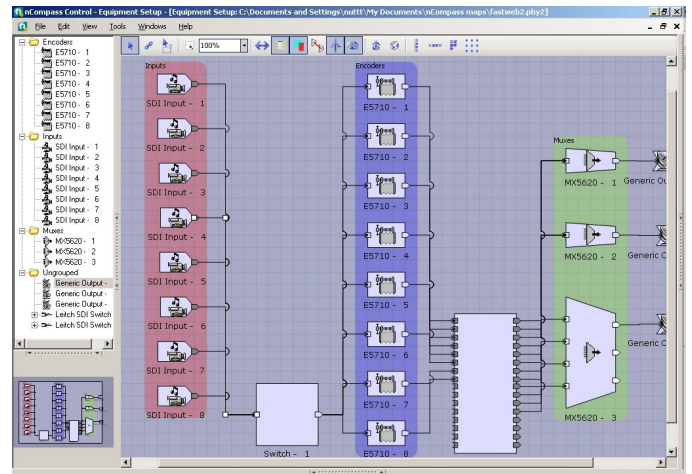


DESCRIPTION

The clear and intuitive user interfaces allow graphical set-up of the equipment topology, definition and scheduling of the various configurations, as well as detailed monitoring and redundancy switching. The Profile Manager allows the user to define configurations against the physical equipment; profiles can be stored definitions of services, transport streams, or the whole system. Recall of pre-defined profiles greatly simplifies operation for the user.

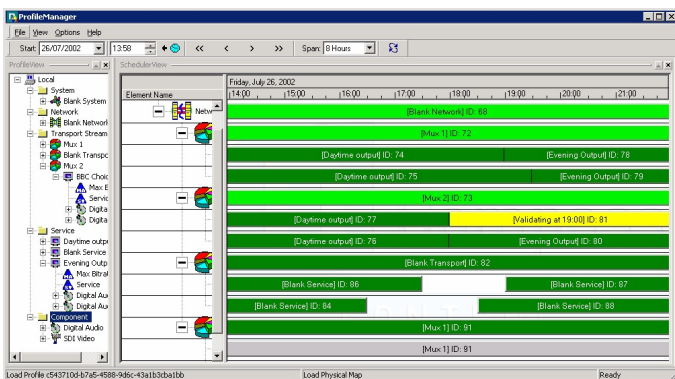
Once the configuration profiles are created they are activated or scheduled on the graphical timeline scheduler, with the choice of scheduling at the system level, transport stream level, or service level. The internal graphical scheduler or the interface to automation systems, keeps the overall system's configuration dynamic giving a better use of bandwidth and equipment resources.

nCompass Control offers a powerful and dynamic remultiplexing feature that will track the incoming PSI to dynamically make the outgoing stream reflect changes to the incoming components and descriptors. This means less user intervention is required when upstream systems change their configuration.



SPECIFICATIONS

- Graphical hardware set-up and equipment layout
- Auto-discovery of equipment capabilities for faster provisioning
- Inventory export of equipment capabilities, boards, software versions and licenses
- Wizards for equipment layout, renaming and switch connection for superior handling of large complex systems
- Timeline scheduling of service configurations
- Monitors system component health status via an equipment schematic
- Route view shows the equipment in use per component, service or transport stream
- Automatic 1+1 or n+m redundancy protection switching
- Configures and monitors Reflex™ Statistical Multiplexing. Local or remote Reflex is available for HD/SD MPEG-4 AVC and MPEG-2
- Support for the latest MPEG-2 and MPEG-4 AVC card based encoders offering module and chassis based redundancy
- Dynamically generates PSI and SI according to configuration changes
- Full re-multiplexing support including real-time PSI regeneration, and dynamic rules-based pass-through of descriptors
- DVB Simulcrypt integration with all major CA vendors
- Choice of internal EIS or integration with third-party EIS using standard DVB interfaces
- External SNMP interface for integration with higher level management (OSS/BSS) systems
- Remote interfaces for third-party control, e.g. automation
- User-access control to prevent unauthorized access
- Support for a wide range of router manufactures including Leitch/Harris, Neveon, Brocade, Quartz, Probel, and Sandar
- SCTE 35 support for Digital Program Insertion (DPI), triggered via GPI or SCTE 104 (over IP or VANC)
- Integrated with third-party SI generators; EventIS, and Barrowa
- Support for Enensys and T-VIPS DVB-T2 Gateways
- Support for Axcera, Envivio for ATSC M/H systems



nCompass Control is part of Ericsson's iSIS 8000® solution for the all IP headend. It brings together the MX8400 multiplexer, receivers and encoders with dual Gigabit Ethernet output to offer the customer a complete IP headend giving significant cost and space advantages.

nCompass Control continually monitors every component in the local system ensuring minimum disruption to the broadcast. It detects failures and performs redundancy switching, automatically configuring the replacement components. Reliability is further enhanced due to the nCompass Control PC being non-critical for continued system operation. In the unlikely event of a PC failure, system components continue to function.

Remote Clients enable a single nCompass Control PC to configure, control and monitor multiple systems across the network.