Router Control Software

The NTP audio routing solutions are controlled via the Router Control System RCCoreV3 which is installed on the router units or on dedicated controller PCs running the QNX operative system. RCCore is a server which can be accessed by the NTP software control clients like the Visual Matrix Control (VMC) control application, or the BLISS software matrix console. The Router Control System can also be controlled via third party control protocols, as well as control third partyproducts like video routers etc.

Client software applications

NTP offers advanced software applications for operating the router system.

- **Statview** provides manual control of the cross point settings using a list entry, XY grid view and customized Source/destination and monitor touch screen panels. Automated control is provided using the scheduler entry. All scheduled events are executed by RCCore.

- **BLISS** provides a multiplex console control surface accessing the summing and signal processing functions available in the routing system.

- **PPM and Loudness Meter** provides a readout of the levels of all input and output signals in the routing system. The readout can be in the format of peak programme or loudness.

RCCoreV3

Router control system
- QNX based

NTP TECHNOLOGY

A DAN TECHNOLOGIES COMPANY

Router Control System version 3

RCCoreV3

The Router Control Core (RCCore) is a software application that handles all set-up, control, and supervision of the NTP routers in an NTP audio router system, as well as the communication interface to the VMC and BLISS NTP control systems, and third part communication protocols.

RCCoreV3 is based on the self contained real-time operating system QNX Neutrino. The QNX Neutrino RTOS has very high reliability and is specially designed for critical industrial applications and superior embedded designs.
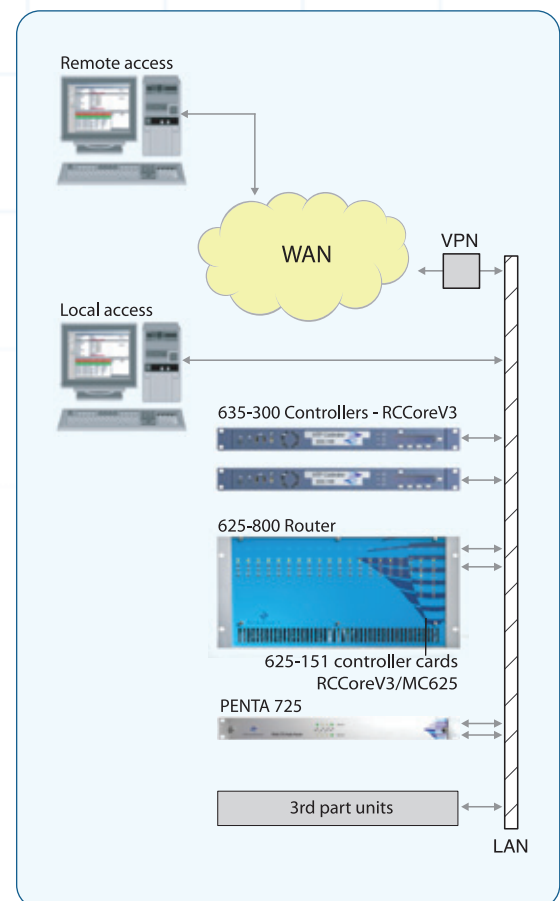
RCCore 3 runs on the 635 controller unit but can also run on 625-151 controller card acting as system controller. One or more 625-151 cards can act as controllers in a system. The 625-151 cards that are not set up as controllers run the MC625 driver firmware interfacing the controller. All cards have the full MC625 driver firmware and RCCoreV3 software, for flexible configuration of the system.

RCCore 3 hosted on the 635 controller can replace the DOS based Sys632 and the NTP 632 controller. The RCCoreV3 software operates through network based infrastructure with all communication based on TCP/IP link protocol, and 10/100Mbit LAN/WAN interfacing. The 635 controller is a high performance industrial PC platform with Solid State Disk providing fast control and power for additional control applications. Existing 625 frames having 625-150 controller cards need to be upgraded with 625-151 cards since the 625-150 card is not able to operate QNX.

Router Control System features

- Remote access and login on expert user level for: Service, debug, and system set-up, Upgrade of the RCCore, protocols and control applications. Database management and sequre access via VPN
- Database backwards compatible LAN
- Database lies on the active controller and is mirrored on the standby controllers. Database is always updated.
- All 625-151 boards can be set-up as a controller, or as a standby controller
- Runs as stand-alone controller on NTP 635-300 or standard PC Hardware
- Maintenance application program window for inspecting system status
- Extended control of the router Dual Backbone interface
- Support for the double LAN interface on the 625-800 frames
- Future support for SNMP

Router Control System

Remote access

WAN

VPN

Local access

635-300 Controllers - RCCoreV3

625-800 Router

625-151 controller cards RCCoreV3/MC625

PENTA 725

3rd part units

LAN