

IRISNet™

TM

INTELLIGENT REMOTE-INTEGRATED SUPERVISION

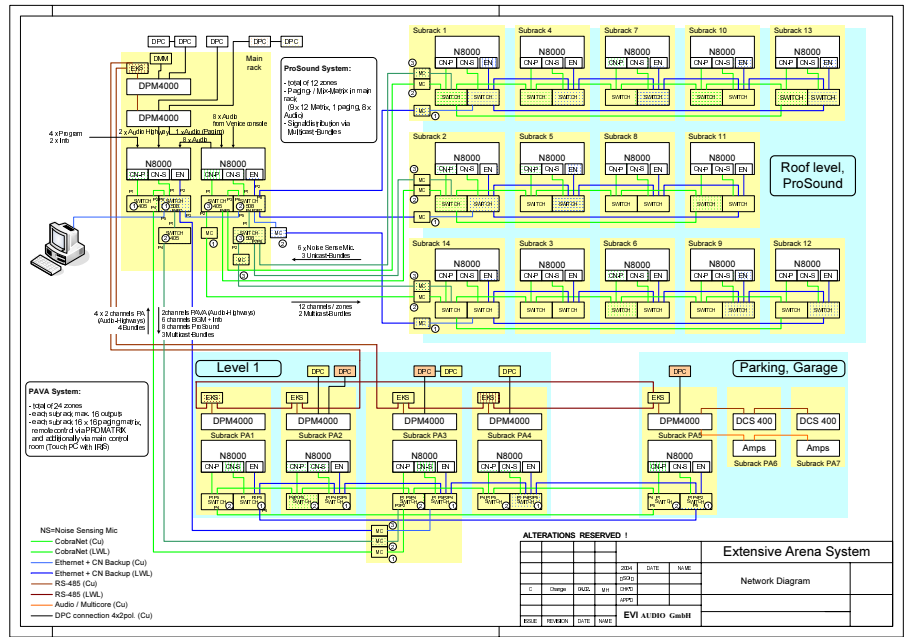
IRIS-Net™ is the integrated software platform for all remote-controllable devices and systems from Telex Communications, Inc. It allows complete audio systems with a multitude of similar or different devices to be configured, supervised and controlled centrally from a single user interface. IRIS-Net™ supports Ethernet, CobraNet™, CAN-bus and USB and is open for further implementations in the future.

IRIS-Net™ makes possible the comprehensive supervision of power amplifiers and loudspeakers including their cables and interfaces. System statuses are being polled permanently, with errors detected and reported instantaneously and all problems and other events logged along with the date and time of their occurrence. The totality of parameters and settings of all system components can be stored and reloaded at the push of a button ('Total Recall'). Depending upon the application, users can design their own control panels, program automatic sequences, and form device and function groups.

IRIS-Net™ has been used for several years now in hundreds of audio installations and systems and has demonstrated its merits in a very wide variety of applications. IRIS-Net™ has been used for several years now in hundreds of audio installations and systems and has demonstrated its merits in a very wide variety of applications. Since the year 2002, IRIS-Net™ has been the platform for the EV Precision series power amplifiers and since 2005 also for the NetMax N8000 networked matrix system.

Telex's **IRIS-Net™** software is the latest version of the I.R.I.S. (Intelligent Remote-Integrated Supervision) audio control and supervision software platform.

First developed in 2001, it was released in 2002 as the control, configuration and moni-



An extensive arena system design running under IRIS-Net™

toring platform for the proprietary Precision Series DSP Remote Controlled Amplifiers. Since then, **IRIS-Net™** has been used in many high profile applications including 2005's Houston Rodeo, Live 8 and on Kenny Chesney's Somewhere in the Sun Tour. **IRIS-Net™** provides a complete set of tools for real-time control and monitoring of an audio system down to the transducer level. Details such as signal levels, component temperature, impedance, output current and voltage, fault conditions and other parameters can be monitored in real-time.

A useful feature of **IRIS-Net™** is the One Button System Check, that allows an operator to see a detailed overview of the operational status of the entire PA system in less than a minute. **IRIS-Net™** is able to run an impedance sweep of all components connected to an amplifier including connectors, cable, crossover networks and transducers, and then store a reference measurement of the system as it

exists, in a given configuration, and in a given environment.

This reference is subsequently stored in the system and can be exported to external files on a control PC for future reference. User definable tolerances can be applied to these references allowing an operator to customize the system supervision for their specific application. It then compares a realtime measurement against these references and is able to alert the operator at any time a tolerance is exceeded.

The core of **IRIS-Net™** is based on a drag-and-drop graphic user interface that is completely customizable by the programmer. An library of control and monitoring graphical user interface (GUI) elements is provided, and includes items such as faders, LEDs, meters, buttons and display elements.

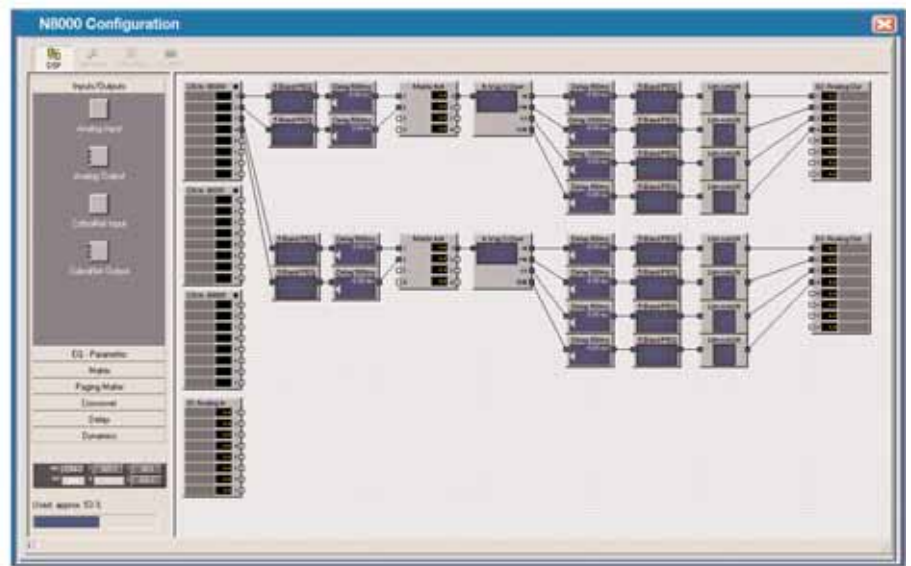
The function and behavior of these elements is completely customizable for control surface design. Today, one of the most frustrating

things for an operator, is to have access to the tools and features of a piece of technology, only to find that they are too complicated to be of any practical use. As such, **IRIS-Net™** allows the use of custom graphics and text boxes in addition to the on-board control elements. The combination of these GUI tools allows a programmer to develop a control surface that is effective, easy to operate and use for any customer, regardless of the users technical knowledge.

Additional customization and system security is available through the use of GUI layers within an **IRIS-Net™** project.

Up to 32 layers can be created within a project to allow a variety of different options in which the system can be monitored and controlled.

Multiple users can be created within **IRIS-Net™**, each with a unique password and access to specific layers of the GUI. This allows a programmer to create a control surface that is specific to the needs of any, and all, operators of the system. For example, the system administrator will have access to all aspects of the DSP and system configuration, while other layers can be created and password protected for less technical users, thus allowing them to access elements such as preset recall, muting and levels, but prevent them from changing critical details such as crossovers and limiters.



IRIS-Net™ DSP

From its inception, **IRIS-Net™** was created as an open architecture platform that would be modular and expandable to accommodate current and future products and systems.

Additional products are added to the **IRIS-Net™** shell through the creation of DLL files, which are then integrated with the **IRIS-Net™** core. Over time, the products **IRIS-Net™** will be able to control will expand throughout the Telex Pro Audio family to include Electro-

Voice, Dynacord, KlarkTeknik and Midas. In addition, the **IRIS-Net™** shell is designed to be used by a variety of third party hardware to control and monitor any type of product or subsystem needed in a typical audio system design. Software developer kits will also be soon available to allow the authoring of custom DLLs for integration into the **IRIS-Net™** shell of these third party products.

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