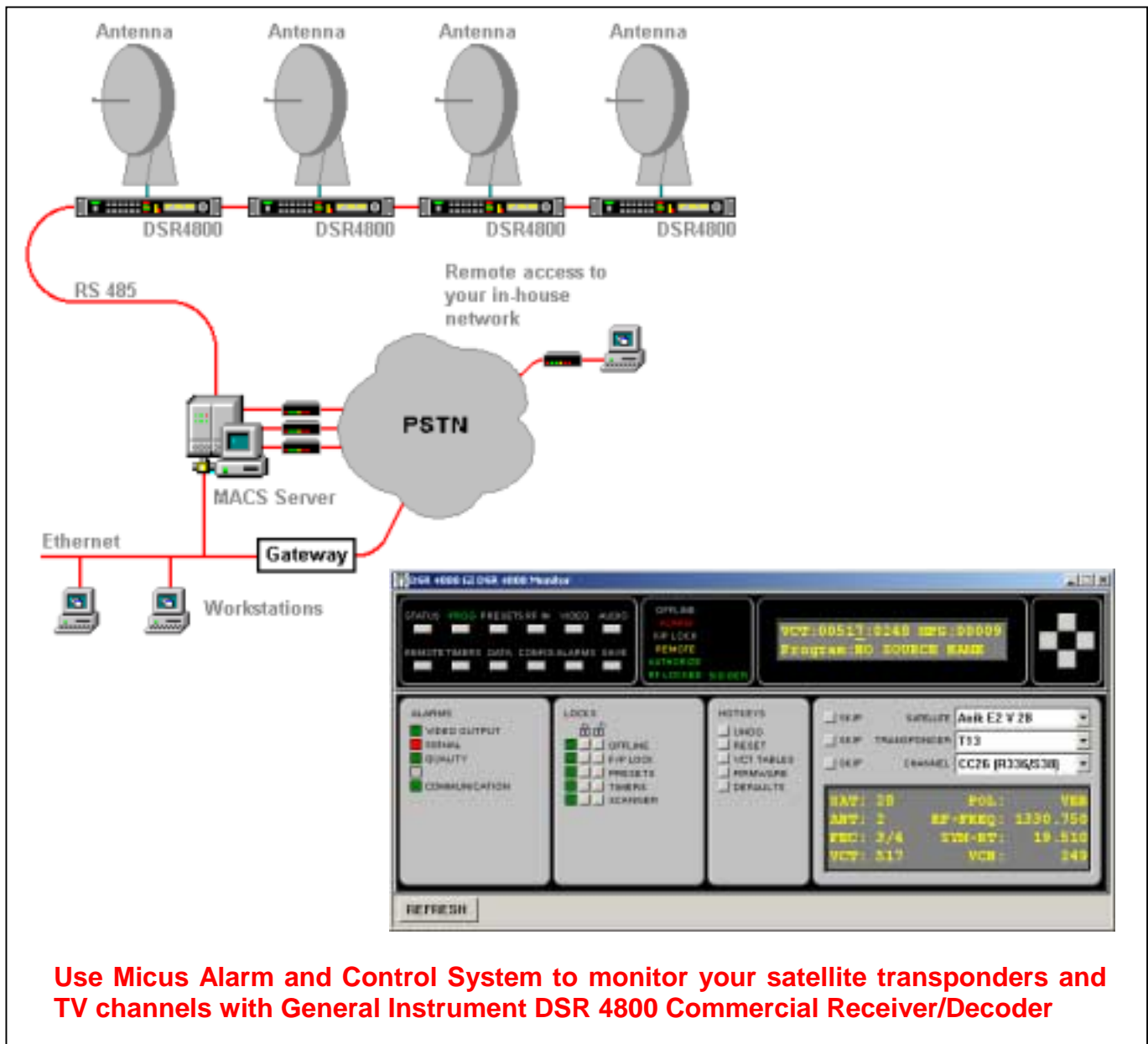**Micus Real Time Software Inc.**
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Micus Alarm and Control System (MACS)
Satellite Transponder and Virtual Channel Monitoring

Use Micus Alarm and Control System to monitor your satellite transponders and TV channels with General Instrument DSR 4800 Commercial Receiver/Decoder

Micus Alarm And Control System (MACS) is a computer based system which configures, controls and monitors various pieces of equipment, and collects and processes alarms generated by the equipment. Equipment operational status and controls are presented using user-definable graphical images, such as geographical maps, building layouts, equipment diagrams, equipment front panels, etc. In addition, all changes in the equipment status are reported in the textual form and saved in the event log files.

MACS is a multiuser system, implemented as a distributed client/server application, which runs either on a single computer or on a local or wide area TCP/IP network, under the Windows NT and/or Windows 2000 operating systems. The system is highly modular, thus allowing for rapid and easy customization, according to the specific application requirements.

Among other equipment, MACS fully supports General Instrument DSR 4800 DigiCipher[1] II and MPEG-2 Commercial Receiver/Decoder. Using one or more DSR 4800 units, you can monitor signal quality and strength from all of your satellite transponders, and you can periodically scan through all of your virtual channels.

MACS user interface provides full access to the DSR 4800 *virtual panel.* The virtual panel allows you to operate the equipment from the computer screen exactly the same way you would operate it from the front panel. Since MACS supports both local and wide area networking, your DSR 4800 unit can be located anywhere in the building, and even in a geographically distant site.

In addition to tuning the unit from the virtual panel, you can predefine a list of satellites, transponders and virtual channels for each DSR 4800 unit. Then, you can tune the unit to any given satellite, transponder and channel simply by selecting their names from the pull down lists.

If you have more than one DSR 4800 unit, MACS multiuser environment will allow your personnel to operate DSR 4800 units from their workstations simultaneously and independently. To prevent conflicting commands sent to the same unit, your operators can always use MACS equipment lock to allocate any given unit for their exclusive use.

You can use your DSR 4800 units to periodically scan a list of virtual channels on their respective transponders. For each virtual channel, MACS will report authorization, video and audio alarms. By connecting a TV monitor to the DSR 4800 output, you can also monitor the picture on the monitor screen. If you need to operate DSR 4800 unit manually, you can always temporarily disable scanning and use the virtual panel.

For details on MACS, please refer to documentation available upon request. MACS GI DSR 4800 Equipment Module is available immediately from Micus Real Time Software Inc.

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[1] DigiCipher II is a trademark of General Instrument Corporation.