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## **DMG'S DEPLOYMENT OF KLOTZ DIGITAL TECHNOLOGY KICKS OFF RAPID CHANGE IN ADELAIDE RADIO MARKET**

**Sydney/Adelaide, April 2005** – When DMG launched its new station, Nova 91.9, in the last week of August 2004 Adelaide's radio market prepared for change. Since then Nova 91.9 has proved its dominance, especially in the youth market. Installing KLOTZ DIGITAL's technology has been an important factor contributing to the success of the new radio station, as it has been the competitive edge in the station's technical foundation. Prior to the launch, DMG already operated FiveAA, the AM station that is currently the highest rating metropolitan talk station in Australia.



To enable resource sharing between the two stations and ease workflow management in the daily broadcasting routines DMG decided to house Nova 91.9 and FiveAA under the same roof. A new studio complex was designed to accommodate the two stations as well as the corporate headquarters for DMG radio in the same building. With this move DMG established its first two station operation radio facility in Australia and has created a standard for all future DMG stations.

DMG's vision was to achieve complete station separation while sharing resources between them. To facilitate this, KLOTZ DIGITAL Australia designed a three tier interconnected audio network. A shared resources Master Control Room (MCR), which includes all inbound and outbound lines (for example, ISDN codecs), is the top tier. The second tier is composed of two identical station MCRs which handle individual station Input/Output including the on-air paths. Lastly, there is the studio tier. All tiers are interconnected via a fibre optic network.

KLOTZ DIGITAL Australia supplied equipment for 4 on-air studios, 2 news booths, a newsroom, 4 On-Air Director booths, 4 production studios and 3 MCRs. As part of the

complete solution, KLOTZ DIGITAL also provided an integrated 150 speaker PA system, VARIZONE, to service all three levels of the complex.

The design of the Adelaide studio complex embraces KLOTZ DIGITAL's "Any Signal Anywhere" philosophy and provides extremely high levels of redundancy throughout the decentralised network architecture. The advantage with all VADIS networks is its separate control layer, which allows central or remote control of all devices within a system via a CAT5 network. In the case of DMG Adelaide, this control layer interconnects all three audio network tiers and provides monitoring and control functions across the different stations.



The Adelaide installation is the sixth KLOTZ DIGITAL installation completed for DMG, and three more projects are currently in progress. With every new installation, KLOTZ DIGITAL Australia managed to push the technology envelope a little further. The Adelaide project was no exception with the introduction of OCTO-BUS Studio Network

into the studios – the OCTO-BUS has eight bi-directional audio signals plus associated control data. By using a single OCTO-BUS around the studio, five guest controllers were installed allowing individual headphone control, delay control, microphone control and talkback to OB's and directors all from one compact box in front of each talent.

Each studio is equipped with a Director's touch screen TFT which provides access for talkback and monitoring. A graphical representation of the studio's interior illustrates individual microphone tallies and enables the moderator to talk to individual people, to the announcer or to the studio as a whole. Another feature of the Director's touch screen TFT allows monitoring of multiple sources such as OB's, station off-airs or any other source available on the station router. Each studio also has four VARIZONE active speakers which are connected to the OCTO-BUS Studio Network.

The newsroom consists of four small 4-fader VADIS D.C.II consoles, which include integrated intercom, monitoring and network news controls. All consoles are connected to one VADIS frame which shares all news sources and gathers other sources from the system via fibre optic. KLOTZ DIGITAL's Route Server Module (RSV) is at the heart of the OB management system. RSV is a name-changing server which enables engineers to rename sources dynamically on every console and talkback unit.

The OB management screens can route any incoming line to the studios, re-label it, create a full mix or mix-minus, mix any other on-air studio mix-minus returns and send it to any outgoing line simultaneously, as well as offering three different IFB configurations for the returns. This is all achieved from one central location and can be controlled remotely from the OB site.

Throughout the Adelaide complex, KLOTZ DIGITAL's VARIZONE controls 150 speakers across three floors. Each floor consists of nine zones, each zone with individual audio selection from any source in the complex, level control and paging controls via a graphical user interface. The status of all components of the system such as Programmable Amplifier Modules (PAMS) and volume/button controls are displayed on the GUI for easy maintenance.

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#### **About OCTO-BUS**

OCTO-BUS is a digital audio network, which carries audio in real-time, control data and power over CAT5 cables. The synchronous buss protocol allows transmission of up to 8 simultaneous channels of bidirectional digital audio including control data and system monitoring without any audible latency. OCTO-BUS can be configured either as a star or as a daisy-chained audio network without the need for routers or hubs. Using OCTO-BUS the KLOTZ DIGITAL VADIS platform can be expanded by a range of highly innovative products which help to make the installation of studios faster, easier and much more cost-efficient.

Currently two different types of OCTO-BUS modules are available, which can be used as active stage boxes or as active break-out boxes:

- 4 channel MIC/Line input box with internal MIC/Line level preamps and remote gain control
- 4 channel line level output box

#### **About KLOTZ DIGITAL**

**KLOTZ DIGITAL AG** of Munich, Germany is the world leader in AudioMedia Platform Technology. KLOTZ DIGITAL manufactures a variety of digital audio mixing consoles, the VADIS AudioMedia Platform, and VARIZONE systems for music distribution, paging and safety announcement installations. KLOTZ DIGITAL has 15 years experience in manufacturing and installing digital radio consoles and audio infrastructures. In fact, KLOTZ DIGITAL has over 1250 digital radio consoles and more than 1000 VADIS frames in service today. For more information contact KLOTZ DIGITAL Asia Pacific.

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#### **About DMG Radio**

**DMG Radio Australia** has been major participant in Australian commercial radio since 1996. Its headquarters are located in Adelaide and the group operates capital city radio stations in Queensland, New South Wales, Victoria, South Australia and Western Australia. DMG Radio Australia is 100% owned by the Daily Mail and General Trust Group, which has substantial media interests in the UK and other international markets.