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KLOTZ DIGITAL EXPANDS AUDIO BROADCAST ROUTER AT XM SATELLITE RADIO

Norcross, April 2005 – Three and a half years since its launch XM Satellite Radio has once again expanded its VADIS audio and control platform located in the Technical Operations Center (TOC) of its headquarters in Washington D.C. When XM launched its web streaming services in October 2004 and its Major League Baseball coverage in April 2005, each was preceded with an expansion to the inputs and outputs of its central router core. This brought the size up to 3808 x 4320 with enough capacity still for further expansion. XM Satellite Radio now has in use a total of 144 VADIS 880 audio frames making up the TOC. A further 100 frames are in use in the studios within the D.C. facility. Remote facilities in, New York and Nashville complete the platform that enables XM to provide its customers with high quality service.

The Two Stages of Expansion

KLOTZ DIGITAL Audio Systems Inc. accomplished the router expansion in two stages. Beginning with the XM Radio Online Project in autumn 2004 KLOTZ DIGITAL's engineers rearranged the router to facilitate the additional inputs and outputs. The system was then prepared for future increase in inputs. The second phase of input and output expansion took place in February 2005 which enabled the inclusion of the Major League Baseball coverage to XM's program line up. "The VADIS platform is built on a modular base and thus the extension of a system is inherent in the design. Both stages of the router expansion were not difficult to carry out due to this feature and often it is anticipated in the initial phases of a project," says Karl Schoning, President of KLOTZ DIGITAL Audio Systems Inc. "Nevertheless, we had some challenges to face, as the changes had to be integrated seamlessly on a live system," explains Schoning.

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Facts and Features

The XM router in Washington D.C. handles all the audio and serial data routing for the facility. The song title and artist information is routed as serial strings in RS232, RS422 or combined forms and follows the audio. Due to the large number of channels being broadcast and the immense size of the router, silence sensing at specific points in the system had to be automatically integrated. These sensors trigger the initiation of primary, secondary and tertiary switching as necessary to ensure that XM can broadcast without loss of signal. Furthermore all channels are displayed to the operators in the Broadcast Operation Center (BOC) to give them a global view of the audio being transmitted. In addition to the audio monitoring the entire system is constantly being monitored with regard to the status of the hardware and control elements. "We are very pleased with the router expansion", says Edward Schwartz, Vice President of Broadcast Engineering for XM Satellite Radio. "KLOTZ DIGITAL proved once again that its products are very reliable and its technology is superior. KLOTZ DIGITAL's engineers did an incredible job and managed to customize the router exactly to our needs. I can't imagine any other router system bringing so many advantages to our broadcast operations and at the same time paving the way for future growth."

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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 Audio Systems Inc. voice: **678-966-9900**, e-mail ussales@klotzdigital.com or on the web at: www.klotzdigital.com

XM Satellite Radio is America's number one satellite radio service with 3.77 million subscribers. Broadcasting live daily from studios in Washington, DC, New York City and Nashville, XM offers more than 150 digital radio channels of choice from coast to coast.: 67 commercial-free music channels, featuring hip hop to opera, classical to country, bluegrass to blues; 64 channels of premier sports, news, talk, comedy, children's and entertainment programming; and 21 channels of the most advanced traffic and weather information for major metropolitan areas nationwide. XM Satellite Radio is the satellite radio leader in sports programming, offering thousands of live sporting events every year. XM is the official satellite radio network for Major League Baseball, NASCAR, the Indy Racing League, the PGA TOUR, and the college sports conferences ACC, Pac-10, and Big Ten.