



Press Release



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NAVAIR implements Integrated Multi-Service Distributed Antenna System at the Sheldon Chumir Health Facility.

Mississauga, ON – Navair Systems Solutions Group, in partnership with Bentall Real Estate Services, Calgary, Alberta has successfully implemented a multi-service in-building RF coverage extension system for the Calgary Regional Health Authority (CHR) in the new Sheldon M. Chumir Health Centre located in Calgary. This eleven storey state-of-the-art facility includes eight floors plus three underground parking levels for a total of approximately 380,000 square feet, and opened to the public on April 1st, 2008. It includes an urgent care centre, diagnostic imaging, laboratory services as well as the Southern Alberta Clinic.

Navair Technologies was contracted to design and implement a turn-key multi-service RF coverage extension system to provide the required reliability to maintain critical communications for Public Safety personnel and other emergency officials. The coverage includes vital wireless coverage throughout the Sheldon Chumir Health Centre facility for VHF Paging (for Medical Staff), UHF Two-Way Radio (for Hospital Security) and 800MHz Public Safety Radio System (Police, Fire and Emergency Health Services). The UHF system uses MPT1327 Trunking and includes 11 frequencies in the 420-430MHz band. The 800MHz Public Safety Radio System is also a Trunked system and includes 11 frequencies within the 821-824MHz band.

System Description

The RF coverage extension system (also known as Distributed Antenna System or "DAS") includes One-Way Booster Amplifiers (for the VHF service) as well as Bi-Directional Amplifiers (BDAs) strategically placed throughout the facility. Additional system elements include associated combining equipment, approximately 5,000 feet of ½" plenum-rated coaxial cable, 58 broadband ceiling-mounted antennas and additional RF components. The in-building wireless system interfaces with the outside world by way of off-the-air band-specific signal pickup antennae mounted on the roof of the facility.

The coverage extension system acts as a local extension of each donor site, fully transparent to portable radio system users. The system has been successfully optimized to provide seamless in-building coverage for each service all throughout the facility including elevators and stairwells.

The project was completed on time and on budget, and exceeded customer performance expectations. As reported by Rick Oliver, Bentall's Project Manager, **"The system has made a big difference with NO outstanding issues"**.

About Sheldon M. Chumir Health Centre

The Sheldon M. Chumir Health Centre is designed to meet the health needs of those who work, visit and live in Calgary's inner city community. When completed, this vibrant new health facility will consolidate services from other locations, allowing health care providers to better work together to diagnose and treat patients. The Sheldon M. Chumir Health Centre will house many of the services currently at the 8th and 8th Health Centre, as well as services and clinics from other locations.



About Navair Technologies

Navair Technologies is a leading distributor of specialized Communications Test and Measurement products to Canadian Government and Industry. Its **Product Distribution Group** represents the leading Test and Measurement OEM's in the world. Its **Systems Solutions Group** is the premier professional service and engineering organization providing turn-key in-building wireless solutions for all types of building facilities on a global basis.

Employing both broad and narrowband solutions, we combine Public Safety Radio Systems (for First Responders including Fire, Police, EMS), Commercial Wireless Services (Cellular, PCS, Mobile Data), Wireless Internet technologies (Wi-Fi, WiMAX), and emerging technologies such as Asset Tracking / RFID.

As a true System Integrator, Navair offers a vendor-neutral design approach using best-in-class products ideally suited to every unique application. Our solutions include both coaxial and fiber optic based architectures and our ever-evolving class of products addresses the growing demand for high performance, high bandwidth solutions for all types of in-building wireless networks including voice, data and multi-service networking applications.

More information about Navair Technologies is available from its Web site at www.navair.com.

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