Canada: Collocation & Aeronautic links

R&M and Petro Comm Industries (PCI), with VS Compact, are creating the preconditions for the highest network performance in the smallest space – and for safety in airspace.

Randall Ferguson
Area sales Manager
North America
randall.ferguson@
rdm.ch

Mr. Jim Stetson of Nav Canada with VS Compact populated IDF at the ACC installation of the Vancouver International Airport in British Columbia Canada.

The worldwide growing significance of information and communications technology (IT) is also reflected in the development of the industry in Canada. To illustrate, the contribution of IT to Canada's gross domestic product (GDP) between 1997 and 2000 rose by 50%. In 2000, almost a quater (23%) of the increase in Canada's GDP was based on the growth of the IT industry.

Innovative solutions for telecommunications

The boom in this sector has of course implied a surge in the supply of telecommunications services. In Canada, as in all industrial countries, a large number of alternative telecom operators have crowded on to the market. Increasing competition between individual firms has forced them to provide each other with network space so that they can react rapidly and flexibly to the growing market demand. This trend towards joint exploitation of space – or collocation – has led to an ever greater demand for space-saving, innovative network technology. The other copper connection systems that were available, based on the existing industrial standards, were unduly massive, taking up a lot of space. By contrast, the highly compact VS Compact copper connection modules from R&M display the ideal properties for use in confined spaces:

- Maximum packing density: Thanks to the highly compact construction of the VS Compact modules, packing densities of up to 4200 pairs / m2 can be obtained while ease of installation is simultaneously increased.
- Modularity and flexibility:
  Existing distributors can be expanded simply and inexpensively.
- Installation without special tools:
  The wire cutters integrated into all modules permit installation with a simple standard tool, reducing maintenance costs.
- Safe design:
  Special protective components ensure the maximum safety for personnel and equipment. Furthermore, they allow maintenance work or tests to be performed in the installed state, thus increasing network stability.

Compact and versatile

Implementation of the VS Compact solution is made even easier with PCI's steel MDF (main distribution frame) accessible from all sides. This product is precisely adapted to the requirements of Canadian customers, including testing in accordance with NEBS Zone IV seismic areas. The use of this MDF and VS Compact modules permits a density of up to 6000 copper cable pairs in a footprint area 38 x 58 cm, giving telecom operators enormous cost savings.

Successful cooperation

For the sales of VS Compact modules in Canada, R&M works together with Petro Comm Industries, which has specialized since 1978 in the manufacture and marketing of telecommunications products. Petro Comm Industries (PCI) has highly developed know-how in the domain of collocation. Cooperating with them has enabled R&M to market the VS Compact system throughout Canada with great success. Many collocation projects exemplify this, as do our substantial customers, e.g. Nav Canada, the owner and operator of Canada's civil air navigation service.

Petro Comm Industries

Safety for air travel
In an environment demanding the highest quality, packing density and network safety, VS Compact has proven to be the optimal product for Nav Canada. The company operates one of the safest and most efficient air navigation systems in the world. Their services include air-traffic control, flight information, aviation weather, aeronautical information and electronic navigational aids. In close cooperation with the customers, the specialists of Petro Comm Industries have matched the VS Compact system precisely to the needs of Nav Canada. The knowledge that emerged from this cooperation has actually inspired new developments within the VS Compact product range. The individual regional branches of Nav Canada have thus been able to adapt the system precisely to match their specific environment. The advantage is flexibility of deployment with VS Compact. Nav Canada's services are employed at many national and international airports, such as Vancouver International Airport in British Columbia. So VS Compact, designed for use in extremely confined spaces, assists Nav Canada in meeting its commitment to safety in the vastness of Canadian airspace.

Air Canada relies on secure air-traffic data for its busy airports.

R&M solution for NY Towers
Futureway Communications Inc, (FCI-B) Broadband based in Ontario, Canada utilizes the VS Compact product, mainly for terminating Outside Plant cable (OSP), where overvoltage protection is required. The NY Towers MDU Complex (Multiple Dwelling Unit), is a very large project that encompasses many buildings. FCI-B serves the entire complex from 1 MTR (main telephone room) in the Chrysler East building, where the telephone/data switching gear is housed. The other high-rise buildings in the complex are served via OSP cables, to their respective MTRs. Due to the limitations in the size of these MTRs, the VS Compact allows FCI-B to terminate these cables, as well as provide overvoltage protection, in a very small footprint.

FCI-B has also standardised VS Compact where overvoltage protection is required on all OSP cable applications. The simplicity in design, allows for quick OSP cable termination and jumper management.

Why PCI works with R&M

- VS Compact, the most compact distribution system, saving space in crowded collocations
- A future-oriented partnership
- Cooperation yielding the maximum flexibility
- Termination security

NY Towers – Toronto's most exclusive high-rise condominium.