

**SUPERNET SHARED VPN - VIDEOCONFERENCING AND VOICE OVER IP
NUMBER PLAN STANDARD**

Category: Network
Effective Date: September 2004
Review Date: January 2007

Summary:

All learning sites will standardize on a videoconferencing and Voice over IP (VoIP) numbering plan in order to enable cross-jurisdictional connectivity in a shared VPN environment.

Specification:

- The 10-digit Direct Inward Dialing (DID) numbering scheme used within the North American Numbering Plan will be used. The 10-digit number is adopted in this case to take advantage of the availability of the full North American Directory in the call manager software.
- This standard works within the subset of the 14-digit international numbering scheme (E.164) with the country code and extension being optional (as per the Government of Alberta Telephone Numbering Standard).
- Two zones are created using the area codes of 780 and 403 as zone prefixes. Additional zones can be created within the province, as required.
- The gateway service prefixes of 9# for 384 Kbps and 90# for 768 Kbps will be used.
- The MCU service prefix will use the area code and three additional digits to describe the MCU services (8 Kbps to 2 Mbps).

Rationale:

- A standard is required to enable interconnectivity among the Government, Health, Library, and Municipality (GLHLM) sectors.
- A standard numbering plan is crucial in a large-scale implementation of videoconferencing and VoIP applications to ensure each location has a unique address.
- This standard provides a scalable numbering plan that can accommodate a large number of terminals, gateways, Multipoint Control Units (MCUs), call managers, and gatekeepers.

Timeline:

This standard becomes effective immediately and must be implemented at the same time that each learning site is connected to the Alberta SuperNet.

Notes:

- This standard will be reviewed if a significant protocol change takes place in the industry.
- A proposed central agency to control the assignment and distribution of new numbering schemes is under consideration.

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