

# CALL FOR 20 MHz of Spectrum for Public Safety Broadband

Specifically, reallocate 8 MHz of spectrum (currently assigned to public safety but with unspecified use) and allocate an additional 12 MHz of adjacent spectrum for public safety for broadband use.

CANADIAN 700 MHZ PUBLIC SAFETY SPECTRUM ALLOCATIONS																												
Date	Industry Canada Document	Notes/Comment	Total PS BW	FREQUENCY																								
				758-759	760-761	762-763	764-765	766-767	768-769	770-771	772-773	774-775	776-777	778-779	780-781	782-783	784-785	786-787	788-789	790-791	792-793	794-795	796-797	798-799	800-801	802-803	804-805	806
		TV Channel #		62		63		64		65	66		67		68		69											800 MHz LMR
				BASE XMIT						MOBILE XMIT																		
October 2004	SP-746e	TV Channels 63 and 68 (764-770 and 794-800 MHz) assigned to Public Safety. Bandplan for NB/WB aligned with initial US plan.	12			PS Narrowband & Wideband (6 MHz)						PS Narrowband & Wideband (6 MHz)																
June 2009	SP-768	TV Channels 64 and 69 (770-776 and 800-806 MHz) also assigned to Public Safety. 768-776 and 798-806 designated for Public Safety Narrowband/Wideband services.	24		PS *	PS Narrowband & Wideband (8 MHz)						PS *	PS Narrowband & Wideband (8 MHz)															
April 2010	SRSP-511 Issue 2	Bandplan for 768-776 & 798-806 defined. 3 x 1 MHz blocks held back for potential use as guardbands.	24		PS *	**	PS NB & WB (6 MHz)				**		PS *	**	PS NB & WB (6 MHz)				S I M P L X									
The Industry Canada Consultation (SMSE-018-10) that opened in November 2010 provides public safety the opportunity to state its spectrum needs																												
Desired Outcome		Suggested allocation of spectrum for public safety: 2 X 10 MHz allocation for public safety broadband, plus existing 2 X 8 MHz allocation (including guardbands) for Narrowband/ Wideband use.	36		PS Broadband (10 MHz if allocated)				**	PS NB & WB (6 MHz)				**		PS Broadband (10 MHz if allocated)				**	PS NB & WB (6 MHz)				S I M P L X			
				18 MHz						18 MHz																		

\* At present, 764-768 and 794-798 MHz are assigned to public safety but usage is not defined and no spectrum plan exists.

\*\* 768-769, 775-776 and 798-799 MHz are allocated for Narrowband/Wideband use but licensing is to be deferred based on potential requirement for guardband.

As of today, 24 MHz of spectrum in the 700 MHz band have been assigned to public safety. This spectrum is organized into two blocks of 12 MHz each – one block for base station transmit (downlink) and one block for mobile transmit (uplink). Of the 12 MHz in each block, 8 MHz is designated for use by narrowband (i.e., voice) or wideband data, leaving 4 MHz currently assigned to public safety but with un-specified use (and no bandplan).

In response to the recent Industry Canada consultation, public safety is urging Industry Canada to **allocate the 2 x 4 MHz blocks** (currently assigned to public safety but with un-specified use) to **broadband use** and **assign an additional 12 MHz of adjacent spectrum** (in 2 blocks of 6 MHz) to public safety for broadband use. This would result in 20 MHz being assigned for public public safety broadband use and a total allocation to public safety of 36 MHz (20 broadband, 16 for Narrowband/Wideband).