

NEXT GENERATION 9-1-1 GIS READINESS IN BC

What is Next Generation 9-1-1?

Next Generation 9-1-1 (NG9-1-1) is the transition of 9-1-1 from analogue systems to IP-based systems. This nation-wide initiative will enhance the existing system to use the coordinates of mobile devices and, in the future, allow for location-enabled voice, data, photos, videos, and text messages.

The existing 9-1-1 system was built to support calls coming from known, fixed addresses (i.e., landline telephones). Today, most emergency calls originate from mobile devices, and often away from the home or other known address. The new NG9-1-1 system will provide critical information to enable emergency response teams to accurately arrive at a location by harnessing the power of GIS.

Who is Involved?

As mandated by the [Canadian Radio-television and Telecommunications Commission](#) (CRTC), TELUS is the sole provider of NG9-1-1 services in the province of British Columbia. TELUS will be responsible for routing calls, sessions, and events from 9-1-1 callers to the appropriate Public Safety Answering Point (PSAP) which provides the 9-1-1 caller with access to Emergency Services.

[ICI Society](#), [GeoBC](#), and [E-Comm 9-1-1](#) are working together to support local government authorities (LGAs) across BC in meeting the NG9-1-1 GIS data requirements, with assistance from the [Emergency Services Working Group](#) and [Esri Canada](#). More information will be available in the fall.

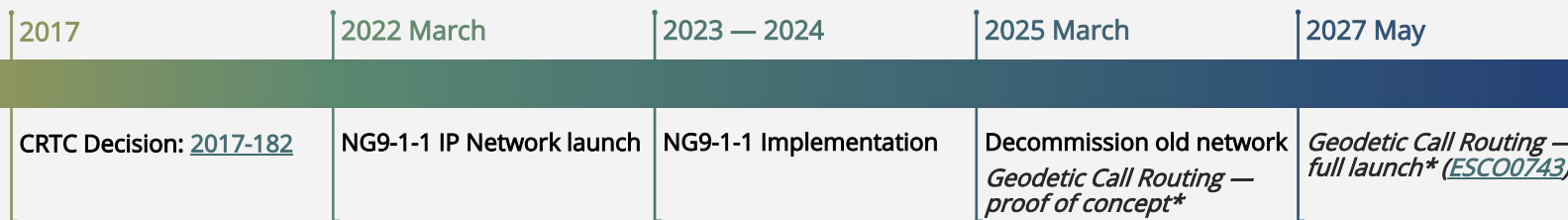
Future GIS Data Requirements

LGAs will be responsible for providing accurate and up-to-date Public Safety Grade GIS data to TELUS, which will be crucial to ensuring the new NG9-1-1 system functions properly. These data layers will be used to verify caller location, route calls, and dispatch resources more efficiently.

Required	Strongly Recommended	Recommended
Road Centreline Site Structure Address Points PSAP Boundary Emergency Service Boundaries ▶ Fire ▶ Police ▶ EMS Provisioning Boundary Street Name Alias	Landmark Names Other Jurisdictional Boundaries ▶ Province ▶ Regional District ▶ Municipal ▶ Neighbourhood Other Service Boundaries ▶ Poison Control ▶ Forest Service ▶ Coast Guard ▶ Animal Control	Railroad Centreline Hydrology Lines & Polygons Cell Sectors Location Markers

Learn more:
▶ [NENA NG9-1-1 GIS Data Model](#)
▶ [TIF92 Consensus Report](#)

Timeline



*Proposed deadline

