

NEXT GENERATION 9-1-1 AUTHORITY SERVICE AGREEMENT

This Agreement is between

a municipality, local service board, first nation, province or other authorized signing authority located at :

(the "9-1-1 Authority")

AND

BELL CANADA, a company incorporated under the laws of Canada, and located at 1 carrefour Alexander Graham Bell, Building A7, Verdun, Quebec H3E 3B3 ("**Bell**")

WHEREAS Next Generation 9-1-1 Service (as defined below) is a service that replaces Enhanced 9-1-1 ("**E9-1-1**") service and is based on Internet Protocol (IP) technologies and supports 9-1-1 Calls natively IP end-to-end;

AND WHEREAS the Canadian Radio-television and Telecommunications Commission ("**CRTC**") determined in Telecom Decision CRTC 2015-531 that Canada's NG9-1-1 system should use the National Emergency Number Association standard ("**NENA i3**") as the baseline reference architecture;

AND WHEREAS in June 2017, the CRTC rendered Telecom Regulatory Policy CRTC 2017-182, which, among other things, directed all Incumbent Local Exchange Carriers ("**ILEC**")s to establish Next Generation 9-1-1 networks by 9-1-1 network service providers;

AND WHEREAS Bell operates and manages a Next Generation 9-1-1 System serving the provinces where it is the ILEC and where requested by a Small Incumbent Local Exchange Carrier ("**SILEC**") to operate as the SILEC's NG9-1-1 network provider, including in the territory in which the 9-1-1 Authority operates.

NOW THEREFORE, for valuable consideration, the receipt and sufficiency of which are acknowledged, the parties agree as follows:

1. **DEFINITIONS**

In this Agreement, in addition to those terms which are parenthetically defined, capitalized terms shall have the meanings ascribed to them in Schedule "A" (Definitions).

2. **SCOPE OF AGREEMENT**

- (a) **Agreement**: The 9-1-1 Authority requests and Bell will provide to the 9-1-1 Authority the Next Generation 9-1-1 services (the "**NG9-1-1 Service**") described below and in the schedules attached to, and forming part of, this agreement (each a "**Schedule**") in accordance with the terms and conditions of this agreement. Altogether, the Tariffs (as defined in Section 2(b), the terms and conditions set out in this agreement, and the applicable Schedules form the "**Agreement**".
- (b) **Tariffed Services and CRTC Approval**: The NG9-1-1 Service is regulated by the CRTC and shall only be provided in compliance with the applicable tariffs including CRTC 7400, Bell Canada National Services Tariff Item 601 – Next Generation 9-1-1 (NG9-1-1) Service (together with all applicable decisions, directions and orders of the CRTC, are referred to herein as the "**Tariffs**"), and the Tariffs, which form part of this Agreement, shall prevail in the event of a conflict with the terms and conditions set out herein.
- (c) **Service Description**: The NG9-1-1 Service provides a managed, private, dedicated IP network referred to as the Emergency Services Internet Protocol network ("**ESInet**"). The ESInet provides the transport and interconnectivity

for all i3-PSAPs within the Serving Area as well as Originating Service Provider networks supporting 9-1-1 Calls over IP-based networks and devices. For i3-PSAPs, the ESInet is delivered to the PSAP operations premise using Bell's IP VPN service to the PSAPs authorized by the 9-1-1 Authority. The NG9-1-1 Service also provides a series of applications and service interfaces known as NG9-1-1 Core Services ("**NGCS**") and may include other third party applications from trusted entities as may be requested by the 9-1-1 Authority and agreed to by Bell. Bell provided NG9-1-1 Service features are described in the User-to-Network Interface ("**UNI**") and in Schedule 'B' (NG9-1-1 Network Features). 9-1-1 Authority agrees that Bell is not responsible nor liable for damages arising from 9-1-1 Authority's use of third party applications in conjunction with the NG9-1-1 Service.

- (i) In accordance with CRTC 7400, Bell Canada National Services Tariff Item 601, Bell agrees to:
- A. Provide NG9-1-1 Service to the 9-1-1 Authority within the Serving Area;
 - B. Provide ESInet IP connection with redundant and, dependent upon availability, diverse facilities to PSAP locations designated by the 9-1-1 Authority and as listed in Schedule "C" (PSAP Designations & Locations);
 - C. Selectively route and enable selective transfer of 9-1-1 Calls to the Primary-PSAP, Secondary-PSAPs and Dispatch Agency according to policy routing rules crafted to the needs of the 9-1-1 Authority, including those described in PSAP Contingency Plans;
 - D. Transmit geodetic and/or civic location information, call back number of the 9-1-1 Caller and any additional available data elements as made available by the Originating Network Provider ("**ONP**");
 - E. Receive, aggregate and maintain into a single dataset representative of Bell's entire serving area, mapping and addressing information provided by the 9-1-1 Authority or to its designee;
 - F. Perform Quality Assurance and Quality Control (QA/QC) on the aggregated dataset and provide mapping and addressing discrepancy / errors reporting back to the 9-1-1 Authorities or to their designees;
 - G. Maintain a dedicated 24X7 9-1-1 Control Centre to support the NG9-1-1 Service;
 - H. Maintain a Basic 9-1-1 Final Routing Alternative involving a third-party call centre, such as those used for nomadic VoIP calls; and
 - I. Enable access to location information when provided by-reference by the ONP with the original NG9-1-1 call;
 - J. Enable access to the additional data repositories provided by trusted entities as defined by the CRTC.
- (ii) The 9-1-1 Authority agrees to:
- A. Designate Primary PSAPs, Secondary PSAPs and Back-Up PSAPs to answer and dispatch 9-1-1 Calls in the Serving Area;
 - B. Where not otherwise defined by applicable provincial legislation and absent a provincial body that acts as a GIS data aggregator, create, maintain and update all boundaries, addressing and mapping information according to applicable standards (MSAG and GIS) and perform quality assurance and control on the data prior to submission. If a third party is to provide the GIS data on behalf of the 9-1-1 authority, such party shall be identified in Schedule "G", and that 9-1-1 specific GIS data layers must be provided directly to Bell in a secure manner without transiting through any shared open platform;

- C. Take responsibility for changes to the 9-1-1 call routing resulting from submitted GIS data.
 - D. Ensure that all designated PSAPs are compliant with specifications and guidelines outlined in Schedule "D" (Specifications & Guidelines);
 - E. Ensure, all PSAPs in the Serving Area are compliant with the deployment criteria listed in Schedule "E" (Deployment Criteria);
 - F. Ensure all PSAPs in the Serving Area have secure 9-1-1 data and systems which security includes physical security, network security, cybersecurity and all other considerations within the PSAPs domains;
 - G. Ensure all PSAPs in the Serving Area have and maintain current contact information and make it available as per the NENA i3 standard;
 - H. Ensure the Primary PSAP accepts specific planned test calls from the public;
 - I. Ensure the Primary PSAP implements a call handling solution that includes a test call interface and automaton as described in NENA i3;
 - J. Resolve mapping and addressing discrepancies / errors reported to the GIS Authorities by Bell in a timely manner or as otherwise specified in the discrepancy report;
 - K. Provide supporting technical and operational documentation as listed in Schedule "D" (Specifications & Guidelines) on the Bell 9-1-1 Flex Portal; and
- (iii) The NG9-1-1 Authority acknowledges and agrees that NG9-1-1 Service resiliency, reliability and security depends upon the following:
- A. The type and capabilities of the Originating Service Provider and the technology from which 9-1-1 Calls originate;
 - B. The accuracy of the data provided by the various NG9-1-1 stakeholders including the 9-1-1 Authority, PSAP and Originating Service Providers and other trusted entities;
 - C. The use of encryption and appropriate security protocols as described in Schedule E of this Agreement and as may be further developed over time; and
 - D. The availability of entrance diversity configuration, and physical attributes including the distance between entry points and power diversity of the PSAP Location,
- and agrees that ensuring the foregoing elements are the best available will improve its experience with the NG9-1-1 Service.
- (iv) Bell and 9-1-1 Authority agree that the implementation of Next Generation 9-1-1 Service within the Serving Area shall be carried out pursuant to the User-to-Network Interface (UNI) Technical Specification Document and the requirements established by the CRTC, and the Parties agree to update this Agreement as the CRTC requirements evolve.

- (v) The NG9-1-1 Service allows for many new feature possibilities with regards to types of data that can be transmitted. The availability of these features may require upgrades to software and or hardware by the PSAP.
- (vi) The NG9-1-1 Service will require security updates on an ongoing basis. To ensure the security of the NG9-1-1 Service, the NG9-1-1 Authority commits to ensure the PSAPs selected to serve its inhabitants, apply security updates (including any security patches) promptly. In the event of a PSAP failure to apply security updates Bell may, in its sole discretion, remove the PSAP from Bell's ESInet.
- (vii) In the event a PSAP is removed from Bell's ESInet, 9-1-1 Calls destined for the PSAP will be rerouted in accordance with the PSAP's defined Policy Routing Rules.

(d) **Bell Providers:** Bell may perform its obligations under this Agreement through its affiliates (as defined in the *Canada Business Corporations Act*) (an "**Affiliate**"), agents, suppliers or subcontractors (the "**Bell Providers**"), but Bell shall not be relieved of its obligations by using the Bell Providers.

3. FEES

The CRTC approved Tariffs set out certain rates, fees, and charges and capital, development or installation costs (if any) (the "Fees") applicable to the NG9-1-1 Services. The 9-1-1 Authority shall pay Fees that are specified in the Tariffs. For services related to the NG9-1-1 Services but not specified or included in the Tariffs, such as expenses related to additional sites or circuits the 9-1-1 Authority may require beyond those provided for by the Tariff, the 9-1-1 Authority shall pay the fees as agreed to by the Parties. The 9-1-1 Authority shall also pay applicable taxes levied or assessed by taxing authorities or imposed by third-party providers in the rendering of services required by the 9-1-1 Authority, if any, (collectively "Taxes"). The 9-1-1 Authority shall pay Fees and Taxes within 30 days of the invoice date. Fees and Taxes are subject to a late payment charge ("Late Payment Charge") at the rate specified in the invoice, which rate may vary from time to time, calculated from the invoice date, if Fees and Taxes are not paid within 30 days of the invoice date. For clarity, a 9-1-1 authority may arrange for their designated PSAP to pay applicable Fees and Taxes on their behalf and request that invoices for services rendered with respect to the NG9-1-1 services be sent directly to the designated PSAP.

4. TERM AND TERMINATION

- (a) **Term:** The term of this Agreement (the "**Initial Term**") will begin on the date it is signed by the 9-1-1 Authority (the "**Effective Date**") and it will expire or terminate after ten (10) years unless otherwise terminated under the terms of this Agreement.
- (b) **Renewal Term(s):** If permitted under the relevant Tariffs, upon expiry of the Initial Term the Agreement shall be automatically renewed for successive periods of five (5) years each unless one party gives to the other at least six (6) months written notice of termination prior to the end of the initial term or any renewal period (in each case, a "**Renewal Term**"). The Initial Term and any Renewal Term(s) are collectively referred to as the "**Term**".
- (c) **Termination or Suspension of a Service:** Bell may immediately suspend the entirety or a portion of the NG9-1-1 Service where Bell has reasonable cause to believe that the 9-1-1 Authority's traffic is compromised or otherwise poses a risk to the NG9-1-1 Service. For any reason other than the integrity of NG9-1-1 Service, the 9-1-1 Authority may terminate the NG9-1-1 Service, or Bell may terminate or suspend the NG9-1-1 Service, in accordance with the terms of the relevant Tariffs with six (6) months prior written notice.

5. LIMITATION OF LIABILITY

- (a) Bell's liability for the performance of its obligations pursuant to this Agreement shall be subject to and governed by Bell's Tariffs.

- (b) The 9-1-1 Authority and Bell shall, during the Term, maintain sufficient insurance to cover their respective obligations under this Agreement and shall provide evidence of same to the other party or, if either the 9-1-1 Authority or Bell is self-insured, provide to the other party evidence that is satisfactory to that party that the 9-1-1 Authority and/or Bell, as the case may be, is and will be, at all relevant times, in a position to face successfully its monetary obligations stemming from liability under this Agreement.

6. CONFIDENTIAL INFORMATION

- (a) "**Confidential Information**" means any data, documentation or other information of a proprietary or confidential nature of a party, or its Affiliates, or which is treated as confidential by a party or its Affiliates, whether or not identified as being confidential or proprietary, which is disclosed or made available to the other party in connection with the negotiation, preparation or performance of this Agreement. The design, installation, delivery or implementation of the Services, including pricing information, service levels and network design specifications shall constitute Confidential Information of Bell. Confidential Information excludes the 9-1-1 Authority's name, address and listed telephone number and any data, documentation or other information which is (i) in the public domain, (ii) known to the receiving party prior to receipt thereof from the disclosing party, or (iii) available to the receiving party on a non-confidential basis from a source other than the disclosing party, if that source or its source is not in breach of any obligations of confidentiality to the disclosing party; or (iv) the receiving party can show to have been developed independently by the receiving party without using the Confidential Information of the disclosing party. The receiving party agrees to take such care to protect the confidentiality of the Confidential Information as would be taken by a reasonable party to protect its own Confidential Information from disclosure subject to the exceptions set out below.
- (b) Except as: (i) permitted or required by law, regulation or lawful request or to carry out its obligations; and (ii) required to receive or provide the Services under this Agreement, as applicable, the receiving party agrees not to use or disclose the Confidential Information without disclosing party's prior written consent. For clarity, any information exchanged between Bell and the 9-1-1 Authority, their employees, servants, agents and/or co-contractors pertaining to the design, the development, the implementation, the operation and the maintenance of the NG9-1-1 Service is confidential, and shall be provided only to such persons who have a need to know for the purposes of this Agreement.
- (c) The 9-1-1 Authority consents to Bell disclosing 9-1-1 Authority information to the CRTC as required for the CRTC to approve any regulatory filings or CRTC requests for information related to the Services. Additionally, 9-1-1 information that is available with a 9-1-1 Call is provided on a confidential basis pursuant to CRTC 7400, Bell Canada National Services Tariff Item 601 as an exception to Item 10 Article 11 of the Bell Canada General Tariff and shall be used for the sole purpose of answering and dispatching 9-1-1 Calls
- (d) In the event that Bell is provided with access to the 9-1-1 Authority's End Users' information ("**End User Data**"), 9-1-1 Authority shall ensure that it has all the requisite consents for Bell to use such End User Data in the manner contemplated under this Agreement. The 9-1-1 Authority acknowledges and agrees that in the event that the 9-1-1 Authority provides Bell with access to End User Data where Bell is not required to have such access, Bell shall not be liable for any loss, unauthorized access to, or any other act or omission in relation to the End User Data.
- (e) The 9-1-1 Authority and Bell agree to abide by all applicable legislation with respect to the protection of privacy in effect from time to time.
- (f) The 9-1-1 Authority shall ensure their PSAPs comply with the terms of this Section 6. Bell shall only share Confidential Information pertaining to this Agreement with the PSAPs identified in Schedule "C" (PSAP Designations & Locations).

7. FORCE MAJEURE

- (a) If there is a default or delay in a party's performance of its obligations under this Agreement (except for the obligation to make any payments under this Agreement), and the default or delay is caused by circumstances beyond the reasonable control of that party including fire, flood, earthquake, elements of nature, acts of God,

epidemic, pandemic, explosion, power failure, third party caused damage to network infrastructure (e.g., a cable cut), war, terrorism, cyber terrorism/warfare, revolution, civil commotion, cyber terrorism/warfare, acts of public enemies, law, order, regulation, ordinance or requirement of any government or legal body having jurisdiction, or labour unrest such as strikes, slowdowns, picketing or boycotts (each an “**Event of Force Majeure**”), then that party shall not be liable for that default or delay, and shall be excused from further performance of the affected obligations on a day-by-day basis, if that party uses commercially reasonable efforts to expeditiously remove the causes of such default or delay in its performance.

- (b) Bell and the 9-1-1 Authority agree that in the Event of a Force Majeure the parties will co-operate and make all reasonable efforts to provide a temporary replacement service until the NG9-1-1 Service is restored. The costs required to provide temporary replacement service shall be borne as between Bell and the 9-1-1 Authority in accordance with the Parties’ respective obligations as described in Sections 2(c)(i) & (ii) of this Agreement.

8. **GENERAL PROVISIONS**

- (a) **No Resale:** The 9-1-1 Authority shall not resell or remarket any Service for commercial purposes under the terms and conditions of this Agreement.
- (b) **Entire Agreement and Amendment:** This Agreement is the entire agreement between the 9-1-1 Authority and Bell with respect to the subject matter, and supersedes all prior agreements, understandings, commitments, undertakings, proposals, representations, negotiations and discussions on the subject matter, whether written or oral. There are no, and Bell shall not be liable for, conditions, agreements, representations, warranties or other provisions, express or implied (including through course of dealing), collateral or otherwise, relating to the subject matter of this Agreement, which induced either party to enter into this Agreement or on which either party places any reliance, other than those set forth in this Agreement. This Agreement shall not be amended other than by an instrument in writing signed by both parties and stating that the parties intend to amend this Agreement.
- (c) **Assignment:**
- (i) This Agreement shall bind and enure to the benefit of Bell and the 9-1-1 Authority and their respective successors and permitted assigns. Neither party may assign this Agreement in whole or in part, including any Schedule, without the prior written consent of the other party, not to be unreasonably withheld. However, without the other party’s consent, subject to Paragraph (ii) below, a party may assign all or part of its benefits, rights or obligations under this Agreement to an Affiliate or to an entity in connection with any transaction or series of transactions pursuant to which all or a substantial part of the assigning party’s business is assigned to or otherwise results in forming all or part of the business of such entity (including a present or future affiliate, whether by way of reorganization, consolidation, amalgamation, arrangement, merger, transfer, sale, change in control or otherwise, and, provided such entity, as assignee, agrees to be bound by this Agreement and assumes the obligations assigned under this Agreement pursuant to this Subsection, on and after the effective date of such assignment.
 - (ii) Bell’s prior written consent shall be required in the event of a proposed assignment by 9-1-1 Authority if, in Bell’s determination, the 9-1-1 Authority’s proposed assignee is deemed to be (A) not credit worthy; (B) a competitor of Bell; or (C) non-compliant with any eligibility criteria for the Services. Bell may also assign any receivable that arises under this Agreement, any right to receive payment related to that receivable and any interest in that receivable or right to receive payment.
- (d) **Governing Law:** This Agreement shall be governed by and interpreted according to the laws of Ontario unless the 9-1-1 Authority’s head office is situated in Quebec. If the 9-1-1 Authority’s head office is situated in Quebec, this Agreement shall be governed by and interpreted according to the laws of Quebec. The applicable governing law shall be determined as noted above without regard to any conflicts of law rules that might apply the laws of any other jurisdiction. The parties attorn to the exclusive jurisdiction of the courts of Toronto unless the 9-1-1 Authority’s head office is situated in Quebec, in which case the Parties attorn to the exclusive jurisdiction of the courts of Montreal in respect of all matters arising out of or in connection with this Agreement except CRT

regulatory matters. For CRTC regulatory matters the parties attorn to the exclusive jurisdiction of the federal courts or tribunals of Canada.

- (e) **Interpretation:** In this Agreement, the headings are for convenience of reference only and shall not affect its construction or interpretation. If there is any conflict between the terms of the main body of this Agreement and a Tariff, if applicable to the Service in dispute, the terms of the applicable Tariff shall govern. If there is any conflict between the terms of the main body of this Agreement and the Schedules, the terms of the main body of the Agreement shall govern unless otherwise expressly provided in writing in a Schedule.
- (f) **Waivers:** No waiver of any provision of this Agreement shall bind a party unless consented to in writing by that party. No waiver of any provision of this Agreement shall be a waiver of any other provisions, nor shall any waiver be a continuing waiver, unless otherwise expressly provided in the waiver.
- (g) **Notice:** All notices and consents provided for shall be given in writing and delivered by personal delivery, prepaid first class registered or certified mail, by facsimile, by regular mail or e-mail. Notices delivered by facsimile shall be considered to have been received upon the sender obtaining a bona fide confirmation of such delivery. Notices delivered by e-mail shall include the following, and shall only be effective if the recipient provides by e-mail a confirmation of delivery and the date of acceptance of the delivery: (i) sender's name, address, telephone number, fax number and e-mail address; (ii) date and time of the transmission; and (iii) the name and telephone number of a person to contact in the event of transmission problems. Delivery of notices after 4:00 p.m. at the address being served constitutes delivery the following day. Notices delivered by regular mail shall be deemed received on the fifth day after the notice has been mailed. The address for notice shall be:

For the **9-1-1 Authority**,

_____ ; and

For **Bell**,

c/o 9-1-1 Service Team
930 d'Aiguillon, B320
Quebec, G1R 5M9

Email: signatures.911@bell.ca

With a copy to,

c/o Corporate Secretary
1 Carrefour Alexander Graham Bell, Building A, 4th Floor
Verdun, Québec H3E 3B3.

Facsimile: (514) 766-8161

The 9-1-1 Authority shall notify Bell of a change in its billing address and any change in its corporate name or any business or trade name used in connection with the Services.

- (h) **Severability:** If any provision of this Agreement is found by a court of competent jurisdiction to be invalid, illegal or unenforceable, the other provisions of this Agreement shall not be affected or impaired, and the offending provision shall automatically be modified to the least extent necessary in order to be valid, legal and enforceable.

Confidential Information of Bell Canada

- (i) **Survival:** The following Sections of this Agreement shall survive termination or expiration of this Agreement: Sections 3 (Fees), 4(c) (Termination or Suspension of a Service), 5 (Limitation of Liability), 6 (Confidential Information), and this Section 8 (General Provisions).
- (j) **Counterparts:** This Agreement may be signed in one or more counterparts (including through electronic signatures), each of which shall be considered an original and all of which, taken together, shall constitute one and the same instrument.
- (k) **Language:** The parties have requested that this Agreement and all correspondence and all documentation relating to this Agreement be written in the English language. Les parties aux présentes ont exigé que la présente entente, de même que toute la correspondance et la documentation relative à cette entente, soient rédigées en langue anglaise.
- (l) **No Partnership and Third-Party Beneficiaries:** Bell is an independent contractor of the 9-1-1 Authority. The Agreement shall not be construed to and does not create a relationship of agency, partnership, employment or joint venture. Nothing in this Agreement, express or implied, shall or is intended to confer on any other person, firm or enterprise, any rights, benefits, remedies, obligations or liabilities of this Agreement, other than the parties, their respective successors or permitted assigns.

<p>_____</p> <p>SIGNATURE: _____</p> <p>NAME: <u>Maryann Martin</u></p> <p>TITLE: _____</p> <p>I am authorized to bind the 9-1-1 Authority to the terms and conditions of this Service Schedule.</p> <p>DATE: _____</p>	<p>BELL CANADA</p> <p>SIGNATURE: _____</p> <p>NAME: _____</p> <p>TITLE: _____</p> <p>I am authorized to bind Bell Canada to the terms and conditions of this Service Schedule.</p> <p>DATE: _____</p>
<p>SIGNATURE: _____</p> <p>NAME: _____</p> <p>TITLE: _____</p> <p>I am authorized to bind the 9-1-1 Authority to the terms and conditions of this Service Schedule.</p> <p>DATE: _____</p>	

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Schedule "A"

DEFINITIONS

In this Agreement, in addition to those terms which are parenthetically defined, capitalized terms shall have the meanings ascribed to them in this Schedule "A" and where not otherwise defined in this Agreement, as ascribed in the current Network Interconnection (UNI) Document.

"9-1-1 Authority" means the municipality, local service board, first nation, province or any other authorized signing authority responsible for 9-1-1 service operations pursuant to the Bell Canada National Services Tariff Item 601 – Next Generation 9-1-1 (NG9-1-1) Service, and defined as the 9-1-1 Authority party to this Agreement;

"9-1-1 Call" means a request for public safety assistance signalled by a 9-1-1 Caller using a device and communications service supporting 9-1-1 dialling, and delivered through the NG9-1-1 Service, regardless of the media (e.g., voice, video, text, other) used to make that request;

"9-1-1 Caller" means end user dialing 9-1-1;

"9-1-1 Control Centre" means a dedicated 9-1-1 24/7 support, maintenance and surveillance centre;

"Agreement" has the meaning ascribed to it in Section 2(a);

"Back-Up PSAP" or **"Back-Up Public Safety Answering Point"** means the back-up PSAP as identified by the 9-1-1 Authority in Schedule "C";

"Basic 9-1-1 Final Routing Alternative" means the designated last resort routing destination involving a third-party call centre, such as those used for nomadic VoIP calls;

"Bell 9-1-1 Flex Portal" means a secure Web site accessible from the public Internet for Customers to access information pertaining to its NG9-1-1 Services.

"CEE" means Customer Edge Equipment and refers to the peering equipment provided by the customer, facing the Bell Customer Edge router;

"CRTC" or **"Canadian Radio-Television and Telecommunications Commission"** has the meaning ascribed to it in the preamble to this Agreement;

"Effective Date" has the meaning ascribed to it in Section 4(a);

"End User Data" has the meaning ascribed to it in Section 6(d);

"Event of Force Majeure" has the meaning ascribed to it in Section 7(a);

"ESInet" has the meaning ascribed to it in Section 2(c)(i);

"GIS Authority" means a body that has control over and the power to make decisions about the source addressing and GIS data which is responsible for providing aggregated GIS/addressing data on behalf of the 9-1-1 Authority to the NG9-1-1 Service Provider for the purpose of NG9-1-1 Service;

"GIS Data Provider" means an entity that assigns addresses, creates, collects, maintains and shares spatial datasets. It may include addressing authorities (e.g. local, provincial and territorial governments, First Nations), 9-1-1 Authorities, and data aggregators;

"GIS" and **"Geographic Information System"** Means a system for capturing, storing, displaying, analyzing and managing data and associated attributes which are spatially referenced;

“i3-PSAP” means a Public Safety Answering Point (PSAP) conformant to the NENA i3 standard (NENA-STA-010), which is capable of receiving IP-based signaling and media for delivery of emergency calls;

“Initial Term” has the meaning ascribed to it in Section 4(a);

“ILEC” and **“Incumbent Local Exchange Carrier”** means the existing telephone companies, prior to the introduction of local competition;

“Late Payment Charges” has the meaning ascribed in Section 3;

“Local Registration Authority” have the meaning ascribed to them in CRTC Decision 2019-353;

“MSAG” or **“Master Street Address Guide”** means the database that contains street names and house number ranges within their associated communities defining Emergency Service Zones (ESZs) and their associated Emergency Service Numbers (ESNs) to enable proper selective routing and selective transfer of 9-1-1 calls in the legacy E9-1-1 environment;

“NENA i3” has the meaning ascribed to it in the preamble of the Agreement;

“NG9-1-1” means a secure, IP-based, open-standards based system comprised of hardware, software, data, and operational policies and procedures that (1) provides standardized interfaces from emergency call and message services to support emergency communications, (2) processes all types of emergency calls, including voice, text, data, and multimedia information, (3) acquires and integrates additional emergency call data useful to call routing and handling, (4) delivers the emergency calls, messages and data to the appropriate PSAP and other appropriate emergency entities based on the location of the caller, (5) supports data, video, and other communications needs for coordinated incident response and management and (6) interoperates with services and networks used by first responders to facilitate emergency response;

“NG9-1-1 Network Provider” means the CRTC mandated ILEC providing the ESInet/NGCS;

“NG9-1-1 Service” has the meaning ascribed to it in Section 2(c)(i);

“NGCS” and **“Next Generation 9-1-1 Core Services”** means the base set of services needed to process a 9-1-1 call on an ESInet. NGCS includes the Emergency Service Routing Proxy (ESRP), Emergency Call Routing Function (ECRF), Location Validation Function (LVF), Border Control Function (BCF), Bridge, Policy Store, Logging Services and typical IP services such as Domain Name System (DNS). The term NGCS includes the services and not the network on which they operate (i.e., the ESInet);

“Offnet Agency” means an agency outside of the NG9-1-1 network, such as a poison control centre or an hospital, which may be designated by the 9-1-1 Authority to be able to receive PSTN calls transferred by a designated PSAP;

“ONP” and **“Originating Network Provider”** means a CRTC-approved trusted entity service provider that allows its subscribers to originate 9-1-1 dialled voice or non-voice calls from the public to PSAPs, including but not limited to wireline, wireless, and fixed/native voice over internet protocol (VoIP) services.

“PRR” and **“Policy Routing Rule”** means the criteria which determines how 9-1-1 Calls are routed under stated conditions such as when a target PSAP is unable to take 9-1-1 Calls;

“PSAP” or **“Public Safety Answering Point”** means an entity responsible for receiving 9-1-1 Calls and processing those 9-1-1 Calls according to a specific operational policy - a Primary Public Safety Point, Secondary Public Safety Point, and Back-Up Public Safety Point as identified by the 9-1-1 Authority in Schedule “C” (PSAP Designations & Locations);

“PSAP Contingency Plans” means a plan in case of a disaster;

“**PSAP Credentialing Agency**” and “**PCA**” have the meaning ascribed to them in CRTC Decision 2019-353;

“**PSAP Locations**” means the locations of the PSAPs as identified in Schedule “C” (PSAP Designations & Locations);

“**P-PSAP**” or “**Primary Public Safety Answering Point**” means a communication centre which is the first point of contact for 9-1-1 Calls as identified by the 9-1-1 Authority in Schedule “C” (PSAP Designations & Locations);

“**Renewal Term**” has the meaning ascribed to it in Section 4(b);

“**S-PSAP**” or “**Secondary Public Safety Answering Point**” means a communication centre to which 9-1-1 Calls are transferred from a P-PSAP, typically the fire, police or ambulance agency responsible for dispatching emergency personnel as identified by the 9-1-1 Authority in Schedule “C” (PSAP Designations & Locations);

“**Schedule**” has the meaning ascribed to it in Section 2(a);

“**Serving Area**” means the geographic area, as determined by the 9-1-1 Authority from which 9-1-1 Calls will be directed to a particular P-PSAP;

“**Subscriber**” means an entity that contracted with a service provider for the provision of a voice telecommunications service;

“**Selective Routing**” means the process by which 9-1-1 Calls are routed to the appropriate PSAP or other designated destination, based on the 9-1-1 Caller’s location information, and may also be impacted by other factors, such as time of day, call type, etc. Location may be provided in a specified format such as an MSAG-valid civic address or in the form of geo coordinates (longitude and latitude);

“**Taxes**” has the meaning ascribed to it in Section 3;

“**Term**” has the meaning ascribed to it in Section 4(b); and

“**User-to-Network Interface (UNI) Technical Specifications Document**” means the authoritative document which sets the technical specifications an i3-PSAP must comply with.

Schedule "B"
NG9-1-1 FEATURES

The NG9-1-1 Service offers features as provided in CRTC 7400, Bell Canada National Services Tariff Item 601.

If a PSAP chooses to forgo utilizing one or more of the NG9-1-1 Service features provided by the NG9-1-1 Service network provider as described in the UNI, the PSAP does so at its own risk and assume all liabilities including prolonged restoration times in the event of an outage.

Schedule "C"

PSAP DESIGNATIONS & LOCATIONS

PSAP Type	Name	Location (full address)	Connected to ESInet (Y/N)
Primary PSAP (*1 & *2)	ORILLIA OPP	1 HURTUBISE ORILLIA	Y
Secondary PSAP Police (*1 & *2)	ORILLIA OPP	1 HURTUBISE ORILLIA	Y
Secondary PSAP Fire (*1 & *2)	NORTHERN911 FIRE	230 ALDER ST SUDBURY	Y
Secondary PSAP Ambulance (*1 & *2)	MUSKOKA AMBULANCE FIRE	1 MONICA LANE BRACEBRIDGE	Y
Secondary PSAP Ambulance (*1 & *2)	PARRY SOUND AMBULANCE/FIRE	6 ALBERT ST PARRY SOUND	Y
Additional Offnet Agency if required (*1 & *2& *3) i.e. Poison control			N
Designated Provincial or Territorial default i3 PSAPs (*4)			N

Notes:

*1 – 9-1-1 Authority shall ensure all PSAPs connected to ESInet meet the NG9-1-1 requirements.

*2 – 9-1-1 Authority shall ensure that if a PSAP changes during the Term, the replacement is aware of the 9-1-1 Authority obligations re: PSAPs under this Agreement, and Bell is notified of the change.

*3 – "Offnet" Agencies are not connected to the ESInet over an IP-UNI and call transfers to such agencies are the responsibility of the PSAP's Call Handling System

*4 – This PSAP is only required if there is a PSAP designated as a safety net for a specific Province or Territory.

Schedule 'D'

SPECIFICATIONS & GUIDELINES

The specifications, templates and guidelines for the NG9-1-1 Service are found at <https://911flex.bell.ca/Login.html>, under the title "NG9-1-1 Onboarding Documentation".

Schedule "E"

DEPLOYMENT CRITERIA

PSAPs utilizing networks to process and deliver NG9-1-1 Calls outside of the ESInet do so at their own risk and assume all liabilities including prolonged restoration times in the event of an outage.

In order to ensure reliability, resiliency and security of the NG9-1-1 Service, the 9-1-1 Authority shall ensure that all of the PSAPs meet the following mandatory requirements without which the PSAPs will not be permitted to interconnect with the production NG9-1-1 network:

1. IP VPN ESInet Interconnection

All i3-PSAP types, Primary and Secondary, are entitled to a single Back-Up location.

All IP VPN ESInet demarcation locations (Primary, Secondary and Back-Up PSAPs) are provided with two (2) redundant data paths and must make use of both. PSAPs must make use of all available in-house diversity (cable entrance, power, etc.).

ESInet physical demarcation locations must be geographically located within the Bell Canada NG9-1-1 Serving region.

PSAPs are expressly forbidden to establish private VPN tunnels over the ESInet, through the provided IP VPN circuits.

2. ESInet Interconnection of Non-designated PSAP facilities

For those PSAP sites not listed in Schedule "C", if the 9-1-1 Authority requires additional circuits, these arrangements may be provided by Bell for a fee;

3. PSAP CEE Interconnection Requirement

- a. All PSAPs shall employ a NENA i3 compliant Border Control Function ("**BCF**") as defined in the Bell NG9-1-1 UNI technical specification as a mandatory condition of interconnection with the NG9-1-1 network. The BCF must be comprised of a minimum of both a firewall and session border controller function. The BCF must be deployed in a manner which prevents single points of failure.
- b. PSAPs shall ensure their local network infrastructure (i.e., Local Area Network [LAN] and/or private Wide Area Network [WAN]) is sized appropriately to support the bandwidth of all NG9-1-1 traffic as calculated and provisioned by the NG9-1-1 Network Provider, in addition to their own in-house network requirements;

4. i3 Call Handling CODEC requirement

All PSAPs shall implement the mandatory list of CODECs as defined in Telecom Decision CRTC 2019-353 (<https://crtc.gc.ca/eng/archive/2019/2019-353.htm>) and make necessary changes as updates become approved by CRTC.

5. IP Network protocol support

All PSAPs shall deploy Dual Stack as the method for simultaneous use of IPv4 & IPv6 address spaces, or to individually perform Network Address Translation - Protocol Translation ("**NAT-PT**") for their Network Domain as defined in the Bell NG9-1-1 UNI technical specification. This is a mandatory condition to interconnect to the NG9-1-1 Service Network;

6. End-to-End Encryption

All PSAPs shall support encryption of traffic from and towards the ESInet as defined in the Bell NG9-1-1 UNI technical specification;

7. QoS Support

All PSAPs shall implement the QoS requirements as defined in the Bell NG9-1-1 UNI technical specification;

8. PSAP Credentialing Agency – NG9-1-1 Network Provider service

All PSAPs shall utilize the Bell PSAP Credentialing Agency service. PSAPs shall identify to Bell as part of the onboarding process the individual or group responsible for acting as the Local Registration Authority (“**LRA**”). The LRA agreement and the roles and responsibilities can be found at <https://911flex.bell.ca/Login.html>, under the title “NG9-1-1 Onboarding Documentation”. There is no expectation that the NG9-1-1 Authority will sign the LRA agreement itself but the NG9-1-1 Authority will ensure that the selected PSAPs will execute such agreement.

9. Contingency Routing

PSAPs shall communicate all 9-1-1 contingency arrangements to Bell including agreements and arrangements with other agencies in order to design and implement Policy Routing Rules accordingly. PSAP’s defined Policy Routing Rules must contain at a minimum one Policy Routing Rule specifying a partner third party PSAP to act as backup in the event the PSAP is not able to respond to 9-1-1 Calls.

10. Domain Name Service (DNS) – NG9-1-1 Network Provider service

PSAPs must utilize the Bell NGCS-based DNS service to ensure resiliency of DNS functions and seamless PCA functionality.

The 9-1-1 Authority is requested to encourage PSAPs to utilize the following NGCS provided functions to further enhance network reliability, resiliency and security of the NG9-1-1 Service:

1. Network Time Protocol (NTP) – NG9-1-1 Network Provider Service

PSAPs are encouraged to utilize the Bell NGCS-based NTP service to ensure accurate time synchronization with all ESInet interconnected elements and as an additional time source within their Local Area Network (LAN).

Schedule "G"**NG9-1-1 GIS REQUIREMENTS**

Municipality, County or Other Government Entity name	GIS Data Provider or *Provincial/ Territorial Designated Data Aggregator name	Provincial \ Territorial \ Legislation (Y/N)

- ❖ In the absence of Provincial or Territorial legislation defining a Data Aggregator body, by default the NG9-1-1 Network Provider will be the defined GIS and addressing Data Aggregator ([Telecom Decision CRTC 2020-150 | CRTC](#))