**CRTC INTERCONNECTION STEERING COMMITTEE**

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**Location Routing Number (LRN) Assignment Criteria**

A Location Routing Number (LRN) is a 10-digit North American Numbering Plan (NANP) number in the format NXX-NXX-XXXX, where N = 2 to 9 and X = 0 to 9, that uniquely identifies a switching entity or Point of Interconnection (POI).

LRNs are required to implement Local Number Portability (LNP) and Thousands-Block Pooling in accordance with CRTC regulatory requirements. For the purpose of this Appendix, LNP includes Wireless Number Portability (WNP). An LRN is used to route calls to telephone numbers that have been ported between certain telecommunication service providers, i.e., between two Local Exchange Carriers (LECs), two Wireless Service Providers (WSPs), or a LEC and a WSP. An LRN is also used to route calls to telephone numbers that have been ported between two switching entities/POIs of a single LEC within an ILEC Exchange Area, and to telephone numbers that have been ported between ILEC Exchange Areas within a Location Porting Zone (LPZ).

Where a Thousands-Block has been assigned to a LEC or WSP, and that LEC or WSP is not the CO Code holder, the LRN is also utilized to route calls to the Thousands-Block assignee.

All 10-digits of the LRN must be transmitted when routing calls to ported numbers, since use of a partial LRN with only 7-digits can lead to numbering conflicts and/or other problems that may cause call failure,

Changes in the regulatory, technical or business environment may necessitate modifications to the LRN assignment criteria. An LRN may have to be changed due to switch replacements, CO Code transfers, NPA splits, NPA boundary realignments, regulatory requirements or other reasons.

The following LRN assignment criteria apply when an LRN is assigned:

1. Criteria that apply to LECs and WSPs:
2. The first six digits of an LRN for a switching entity or POI shall be an activated NPA-NXX that is assigned to that switching entity or POI. The last 4 digits of the 10‑digit LRN may be assigned at the discretion of the CO Code Holder.
3. It is recommended that the telephone number that is the same as a 10-digit LRN should not be assigned to a customer.
4. LECs and WSPs shall assign at least one unique LRN to each switching entity/POI to which a CO Code subject to LNP is assigned.
5. An LRN assigned to a switching entity/POI shall be within a CO Code that is subject to LNP and assigned in the ILEC Exchange Area containing the switching entity/POI.
6. Criteria that apply only to LECs:
7. Where a LEC serves more than one ILEC Exchange Area subject to LNP, the LEC shall assign at least one LRN for each such ILEC Exchange Area.
8. Calls to a ported telephone number within a CO code assigned in an ILEC Exchange Area - may be routed to a LEC's switching entity/POI in any ILEC Exchange Area subject to LNP that is within the Local Interconnection Region (LIR) that contains the ILEC Exchange Area where the CO Code containing the ported number is assigned.
9. Criteria that apply only to WSPs:
10. Calls to a ported telephone number within a CO code assigned in an ILEC Exchange Area may be routed to a WSP's switching entity/POI in any ILEC Exchange Area subject to LNP that is within the ILEC Local Calling Area (LCA) of the ILEC Exchange Area where the CO Code containing the ported number is assigned. The LCA of an ILEC Exchange Area consists of that ILEC Exchange Area plus other ILEC Exchange Areas to which local calling is provided as defined in CRTC-approved tariffs and without incurring long-distance toll charges.
11. The LRN used by a WSP to receive a ported number shall be assigned in a CO Code assigned in an ILEC Exchange Area that is within the LCA of the ILEC Exchange Area where the CO Code containing the number to be ported is assigned.