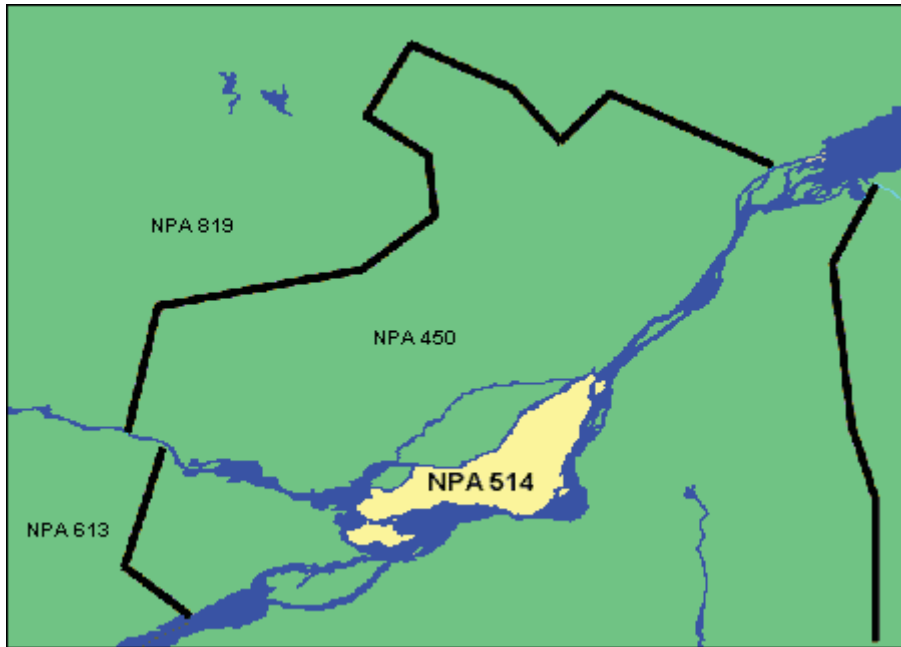


# Initial Planning Document NPA 514 Numbering Relief



**CNA**

Science Applications International  
Corporation (SAIC Canada)

Version 1 IPD Based on May 31, 2000 Relief Planning COCUS Results

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# Initial Planning Document NPA 514 Numbering Relief

## 1. EXECUTIVE SUMMARY

This Initial Planning Document identifies possible solutions for providing relief to the NPA 514 geographic area. Based on the May 31, 2000 NPA 514 Relief Planning Central Office Code Utilization Survey (R-COCUS), the existing 800 Central Office (CO) Codes, of which 765 are assignable, are forecast to exhaust in June 2004.

The following alternatives were evaluated:

- A. Split the NPA into two geographic areas (three options):
  - (i) Core Split (A-i): The area served by the Belmont, Ontario and Papineau Montreal Exchange Central Offices (north-central downtown core) would be grouped in the new NPA and the area served by the remainder of the Montreal Exchange Central Offices and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve would retain NPA 514.
  - (ii) Core Split (A-ii): The area served by the Atwater, Belmont and Ontario Montreal Exchange Central Offices (south-central downtown core) would be grouped in the new NPA and the area served by the remainder of the Montreal Exchange Central Offices and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve would retain NPA 514.
  - (iii) East West Split (A-iii): The area served by the 10 Central Offices in the east section of the Montreal Exchange would be grouped in the new NPA, and the area served by the remaining 9 Central Offices of the Montreal Exchange and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve, within the west section, would retain NPA 514.
  
- B. Introduce a new NPA using the Distributed Overlay Option.

The following is a comparison of the alternatives evaluated:

Description	Alternatives			
	Core Split (A-i)	Core Split (A-ii)	East / West Split (A-iii)	Distributed Overlay B
Exhaust – NPA 514	2012	2015	2010	2004
Exhaust – 1 <sup>st</sup> New NPA	2012	2011	2018	2012
Number Changes Required	1.5 M	1.5 M	1.8 M	Nil
Dialling Impact	7/10D	7/10D	7/10D	10D
Permissive Dialling	Required	Required	Required	Required

This Initial Planning Document is being issued in accordance with Canadian Steering Committee on Numbering approved NPA Relief Planning and Notification Guidelines (INC 97-0404-016, dated January 27, 1999) to facilitate the selection of a consensus NPA 514 code relief method and a relief date.

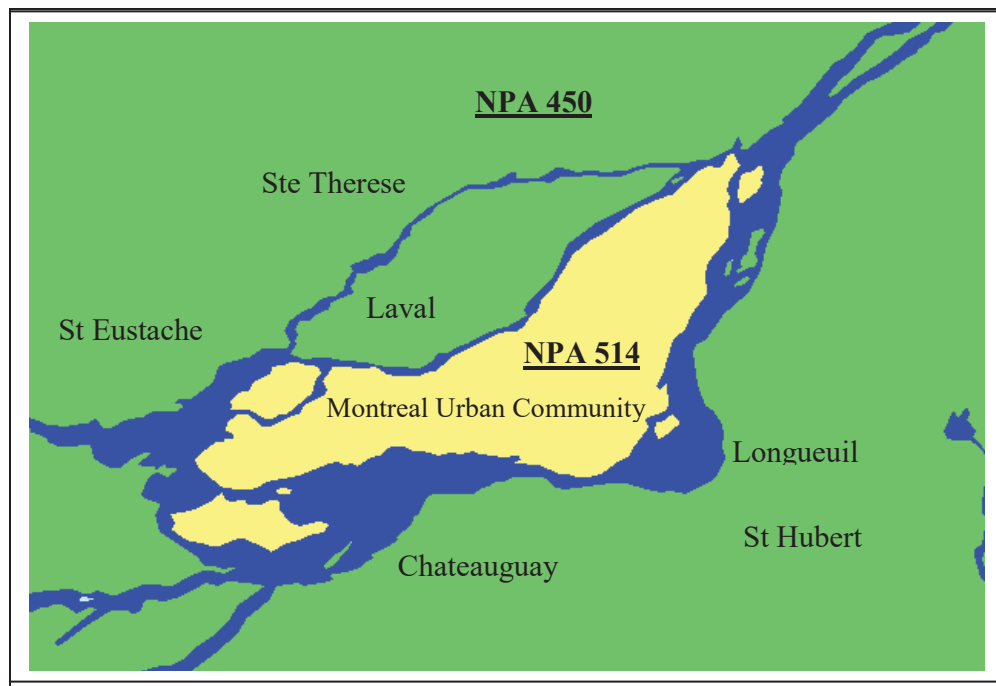
Given the magnitude of this undertaking, inter-company commitment and co-operation are essential throughout the planning, provisioning and implementation stages of the introduction of the new NPA.

## 2. INTRODUCTION

In January 1999, relief to NPA 514 was provided by geographically splitting the area. The Montreal Urban Community retained NPA 514 and the remainder of the territory was assigned NPA 450. Coincident with the split, 10-digit dialling became mandatory for local calls between NPA 514 and NPA 450, however within each NPA, 7-digit dialling remained intact for local calling.

After the NPA split, 398 working CO Codes remained in NPA 514 and 402 CO Codes became available for the future numbering growth of the Island of Montreal, the new NPA 514 territory. Since then, 81 new CO Codes have been assigned for landline growth and for the rapidly growing cellular and local competition expansion.

It is very important to closely monitor the expansion plans of all existing and emerging service providers to ensure that relief is provided far enough in advance that no shortage of assignable CO Codes occurs and that a jeopardy condition does not arise.

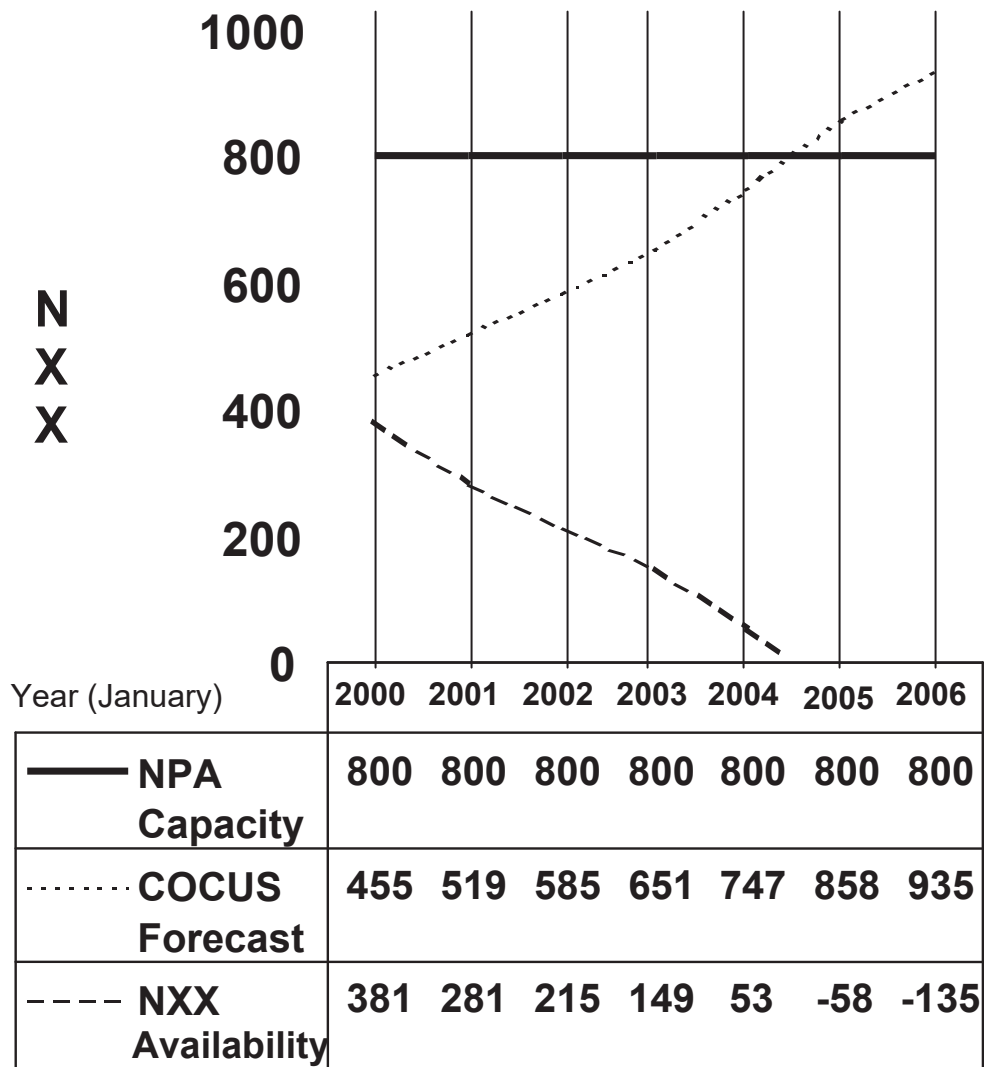


**Figure 1 NPA 514 Jan 1999 Relief Geographic Split**

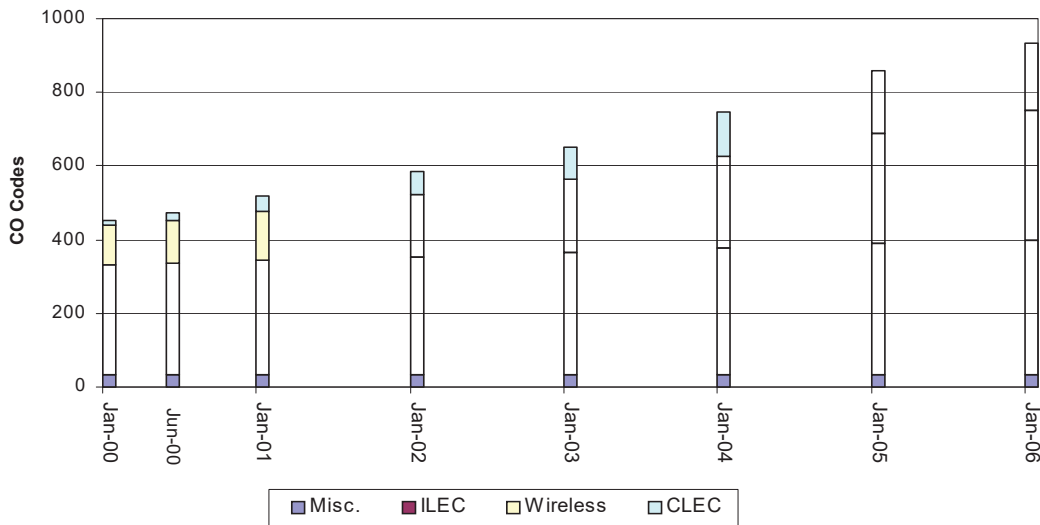
### 3. CENTRAL OFFICE CODE EXHAUST

All CO Codes in NPA 514 are expected to exhaust in June 2004. This determination is based on the results of the May 31, 2000 R-COCUS. This finding is consistent with the results of the 2000 General COCUS, which indicated that NPA 514 was likely to exhaust in Q2 2004.

The year over year change in the forecasts due to new business strategies, Telecom Decision CRTC 94-19, which allows for local competition, and the granting of Personal Communications Services (PCS) licenses for the introduction of PCS service in 1996 have all contributed to the earlier than expected requirement for relief of NPA 514. The following graphs represent the rate of CO Code utilization in NPA 514 based on results from the May 31, 2000 R-COCUS.



**Figure 2 NPA 514 CO Code Exhaust January 2000 COCUS**



**Figure 3 NPA 514 May 31, 2000 R-COCUS**

Figures 2 and 3 highlight the need to have relief in place well in advance of reaching 765 assigned CO Codes, to allow for forecast volatility and to accommodate a period for permissive dialling and the interception of misdialled numbers.

## 4. CODE RELIEF METHODS

Once the necessity for NPA code relief was established, all code relief methods were considered, but only the following alternatives were examined in detail.

- A. Geographic Split (Three options);
- B. Distributed Overlay.

### 4.1. Geographic Split

#### 4.1.1. Definition

By this method, the exhausting NPA is split into two or more geographic areas, leaving the existing NPA code to serve an area with the highest consumer density (to minimise number changes), and assigning a new NPA code(s) to the remaining area. This method traditionally divides areas by jurisdictional, natural or physical boundaries between the old and the new NPA.

NPA splits have occurred with enough frequency so that technical aspects have been addressed and established implementation procedures are generally understood. Public education and acceptance of the process has been made easier because of the numerous NPA splits that have occurred throughout North America. This method generally provides long-term relief for an area.

#### 4.1.2. General Attributes

- Old method of NPA relief is familiar to the public and has well established implementation procedures.
- Ten-digit dialling required for local calls between different NPAs.
- Number changes required in new NPA boundaries.
- Reprogramming or replacement of equipment (switches, PBXs, cellular phones, etc.).
- Existing customers inconvenienced.
- More economic burden (businesses, public costs, stationery, etc.).
- NPA exhaust occurs more rapidly, thus requiring new NPAs.
- Not as expensive to display in telephone directory.
- Requires a permissive dialling period.
- Possible boundary disputes.

### 4.2. Distributed Overlay

#### 4.2.1. Definition

An NPA overlay occurs when more than one NPA code serves the same geographic area. Opening up a new NPA code provides code relief when the existing NPA is exhausted. Numbers from the new NPA are assigned for new growth on a carrier neutral basis, i.e., first come first served. This method will necessitate 10-digit dialling of local calls between the old and new NPAs coincident with NXX codes being implemented in the new NPA (universal 10-digit dialling for all local calls eliminates customer confusion). The distributed overlay strategy is considered in situations when growth in telephone numbers is expected to be more or less evenly distributed throughout the existing NPA.



#### 4.2.2. *General Attributes*

- New method of NPA relief, little general public understanding.
- Requires universal 10-digit dialling within the NPA.
- No number changes are required for existing customers.
- Least disruptive to end-users.
- Less economic burden for existing business.
- Same location, two NPAs in residence/business.
- Increased directory costs.

## 5. IMPACT OF RELIEF METHODS

### 5.1. *Geographic Split*

Three geographic splits were assessed, namely: Core Split (2 options) and East-West Split. There are no municipal, physical or natural boundaries that can be used as reference points to split the NPA.

#### 5.1.1. *Core Split (A-i)*

The area served by the Belmont, Ontario and Papineau Montreal Exchange Central Offices (north-central downtown core) would be grouped in the new NPA and the area served by the remainder of the Montreal Exchange Central Offices and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve would retain NPA 514. This option would result in approximately 1.5 million number changes. Relief to the new NPA and NPA 514 is expected to last until year 2011 and 2015 respectively.

#### 5.1.2. *Core Split (A-ii)*

The area served by the Atwater, Belmont and Ontario Montreal Exchange Central Offices (south-central downtown core) would be grouped in the new NPA and the area served by the remainder of the Montreal Exchange Central Offices and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve would retain NPA 514. This option would result in approximately 1.5 million number changes. Relief to both the new NPA and NPA 514 is expected to last until year 2012.

#### 5.1.3. *East West Split (A-iii)*

The area served by the 10 Central Offices in the east section of the Montreal Exchange would be grouped in the new NPA, and the area served by the remaining 9 Central Offices of the Montreal Exchange and Ile Perot, Lachine, Pointe-Claire, Roxboro and Ste-Genevieve, within the west section, would retain NPA 514. This option would result in approximately 1.8 million number changes. Relief to the new NPA and NPA 514 is expected to last until year 2010 and 2018 respectively.

**In each of the above split options a permissive dialling period of at least six to twelve months is recommended.**

## **5.2. *Distributed Overlay***

This alternative would result in the new NPA being introduced coincident with the exhaust of NPA 514. Coincidentally, universal 10-digit local dialling would be required. Although a permissive dialling period is not necessary, it is recommended that an adaptation period for 10-digit dialling be introduced prior to assigning the first NXX in the new NPA. Relief to the new NPA is expected to last until the year 2012.

**Main advantage of this alternative is that number changes are not required.**

## 6. DIALLING CHANGES FOR LOCAL CALLS

In addition to the dialling patterns that exist for local calls between NPA 514 and NPA 450, the following tables reflect the dialling arrangement for each alternative for Local calls only.

The Toll call dialling arrangement is not impacted due to the NPA relief.

<b>Geographic Split</b>	<b>Today</b>	<b>After Relief</b>
Landline to Wireless within NPA	7-digits	7-digits
Landline to Wireless between NPAs	10-digits	10-digits
Landline to Landline within NPA	7-digits	7-digits
Landline to Landline between NPAs	10-digits	10-digits
Wireless to Wireless within NPA	7-digits	7-digits
Wireless to Wireless between NPAs	10-digits	10-digits

<b>Distributed Overlay</b>	<b>Today</b>	<b>After Relief</b>
Landline to Wireless within NPA	7-digits	10-digits
Landline to Wireless between NPAs	10-digits	10-digits
Landline to Landline within NPA	7-digits	10-digits
Landline to Landline between NPAs	10-digits	10-digits
Wireless to Wireless within NPA	7-digits	10-digits
Wireless to Wireless between NPAs	10-digits	10-digits

## 7. PROPOSED SCHEDULE

<u>Dates</u>	<u>Activities</u>
June 2000	Initial Planning Document Issued
August 2000	NPA Relief Industry Meetings Begin
November 2000	Relief Method Industry Consensus
December 2000	TIF Report Review and Approval by Working Group
December 2000 - TBD	Regulatory Process / Approval of Plan
January 2001	Relief COCUS
March – May 2001	Follow up Meetings (R-COCUS results & JCP)
May 2001	Relief Date & JCP Industry Consensus
May 2001	TIF Report Review and Approval by Working Group
May 2001	Industry Consensus TIF Report to Regulator
May 2001 - TBD	Regulatory Process / Approval of Plan
*	Apply to NANPA for new NPA
*	NANPA Planning Letter
*	* Industry Implementation of New NPA (if split option)
*	Industry Implementation of New NPA (if overlay option)
*	Permissive Period
*	10-digit Local Dialling Adjustment Period
*	Mandatory 10-digit Local Dialling
*	First NXX Opened in New NPA

\* Dates for these activities are dependent upon the final approved plan and relief date.



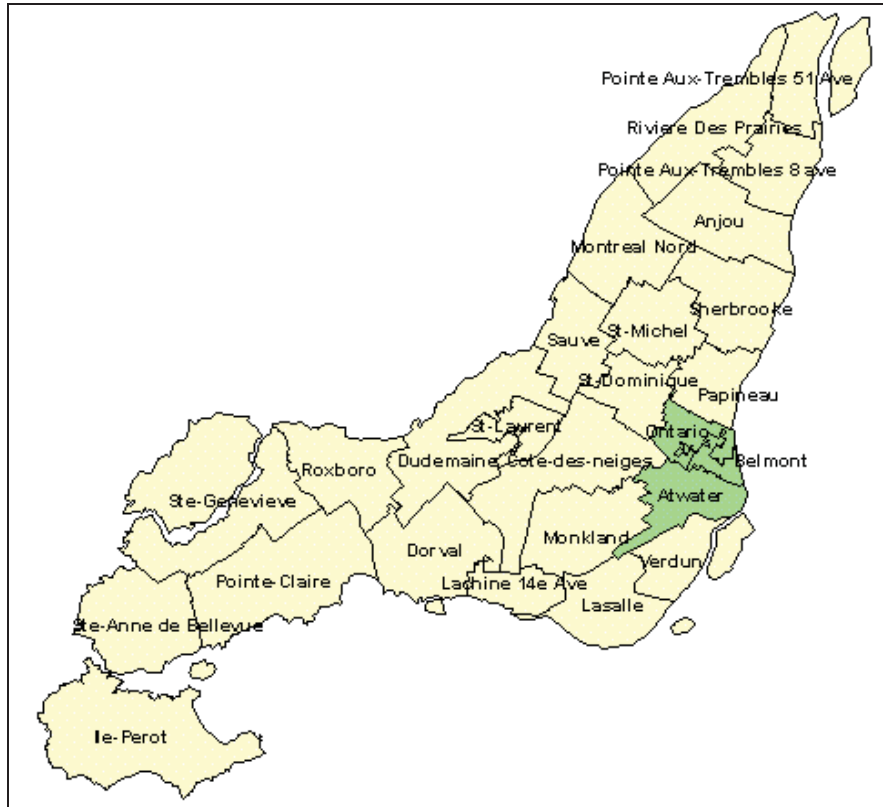
**Figure 4 NPA 514 Wire Centres and Montreal Urban Community Municipal Boundaries**



**Figure 5 NPA 514 Wire Centres and Major Roads**



**Figure 6 Montreal Urban Community Municipal Boundaries**

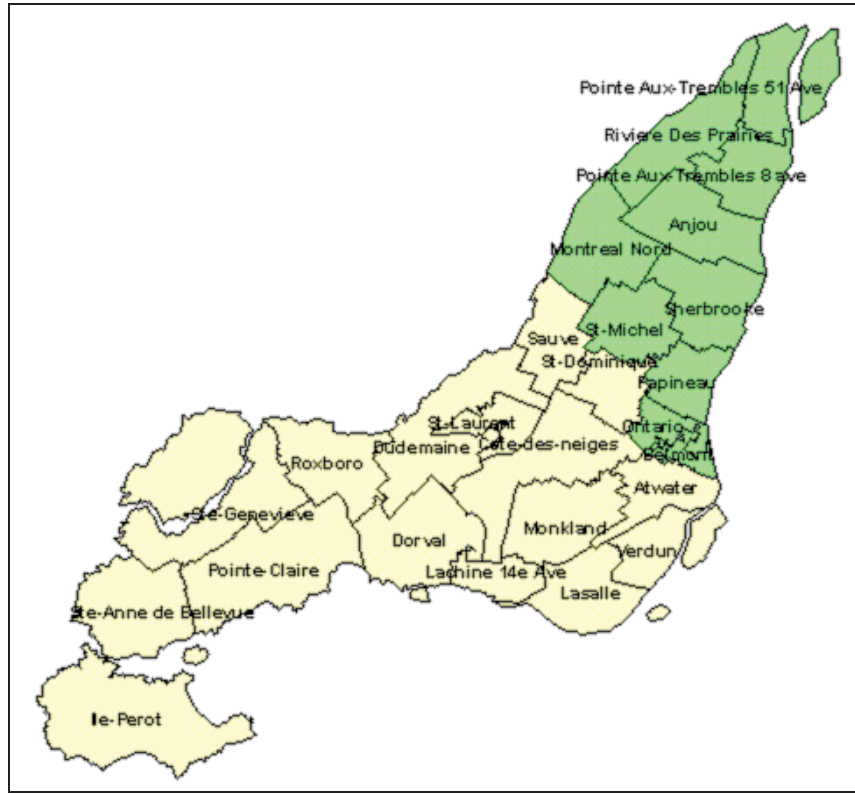


**Figure 7 NPA 514 Core Split Option A – i**



**Figure 8 NPA 514 Core Split Option A – ii**

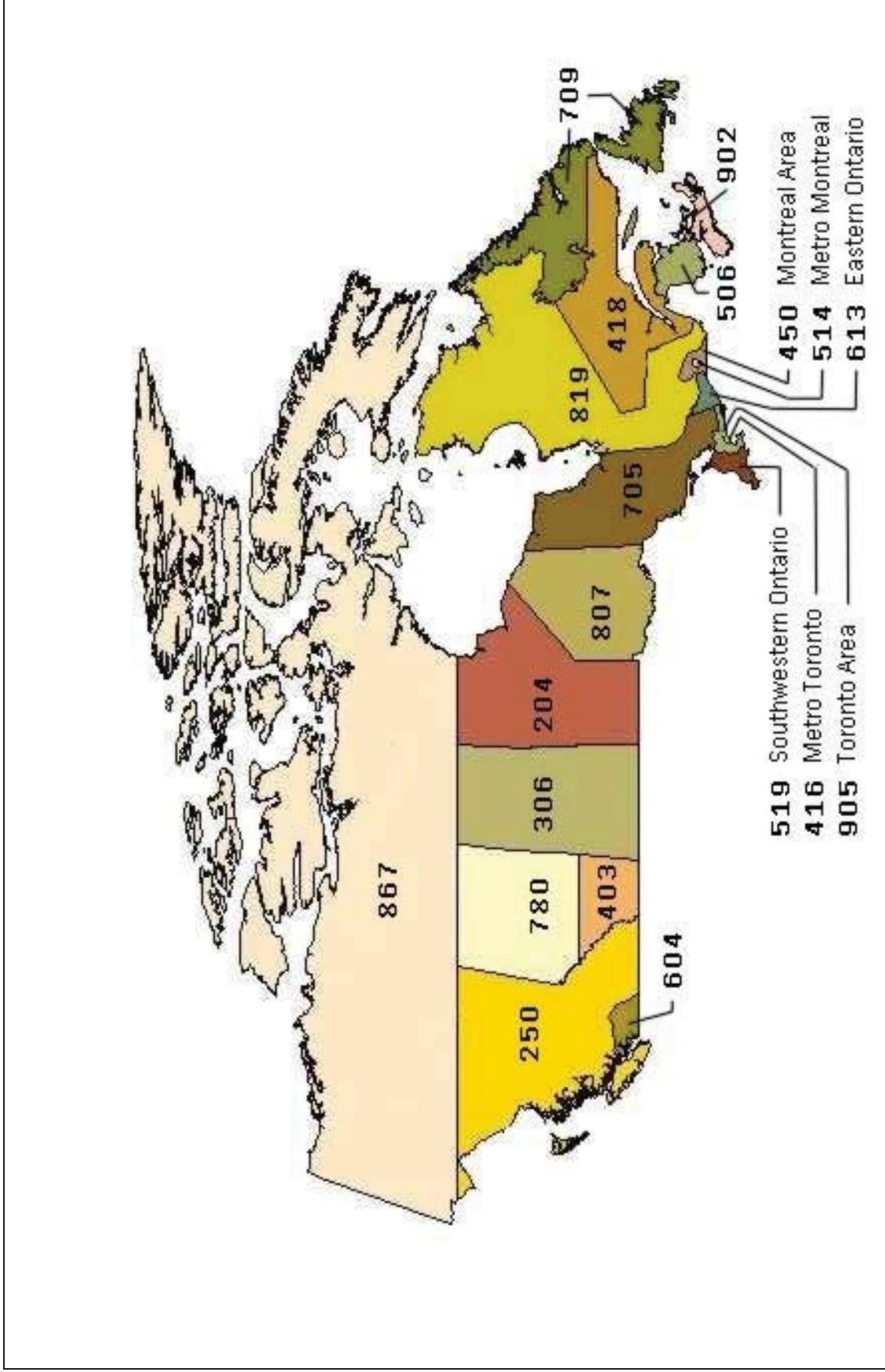




**Figure 9 NPA 514 East-West Split Option A – iii**



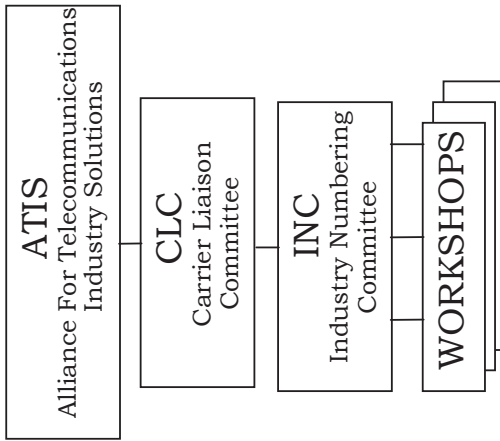
**Figure 10 NPA 514 Overlay**



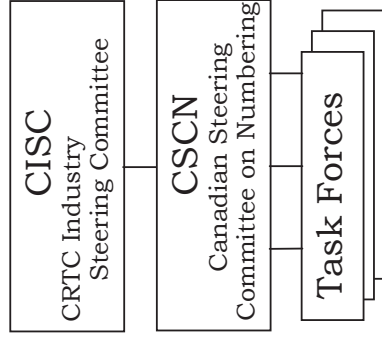
**Appendix 1 Canadian Geographic NPAs**

# Industry Fora

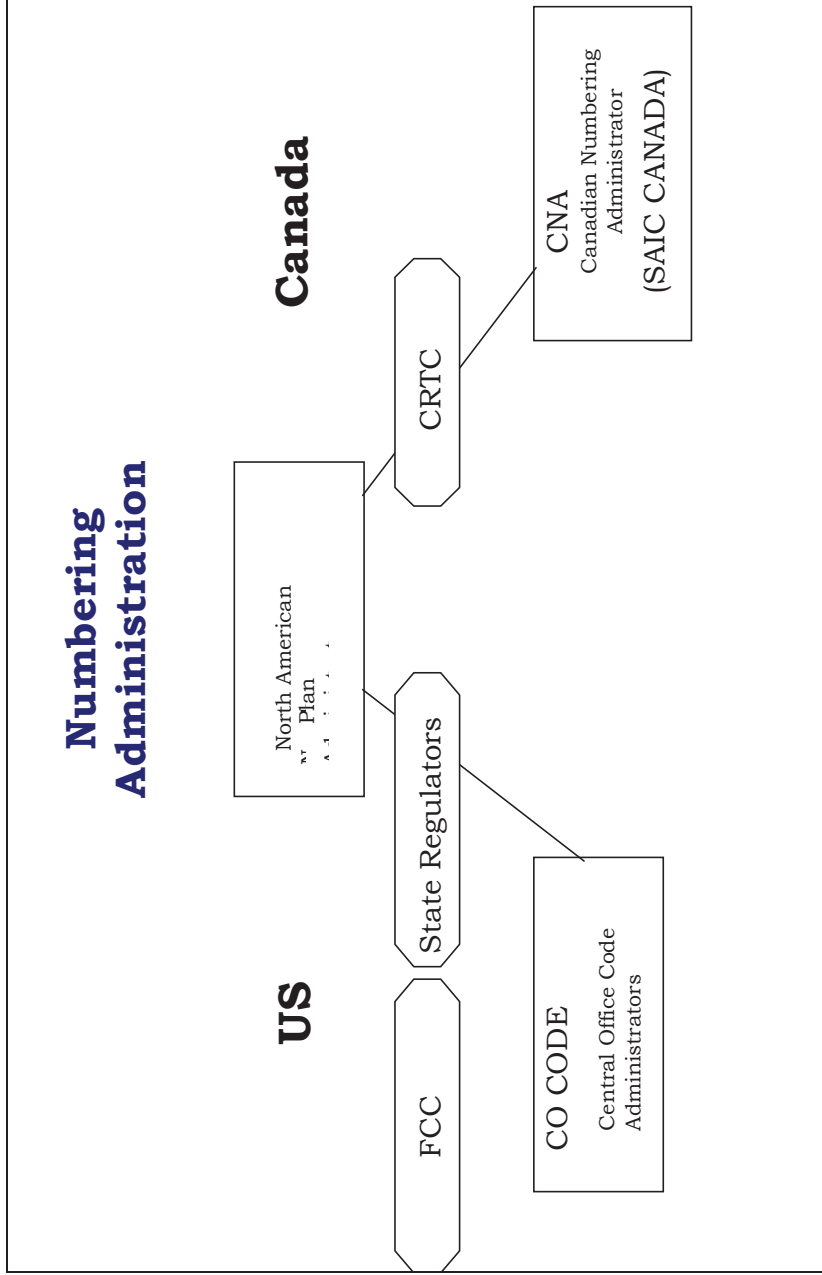
## NANP



## CANADIAN



## Appendix 2 Industry Fora



Appendix 3 Numbering Administration



Alliance for Telecommunications  
Industry Solutions

*Sponsor of*



Industry Numbering  
Committee

A forum of the Carrier Liaison Committee

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## **NPA CODE RELIEF PLANNING & NOTIFICATION GUIDELINES**

These guidelines are reissued in connection with the resolution  
of INC Issue 105

### **Appendix 4 NPA Code Relief Planning & Notification Guidelines**

## Appendix 5 Distribution List

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