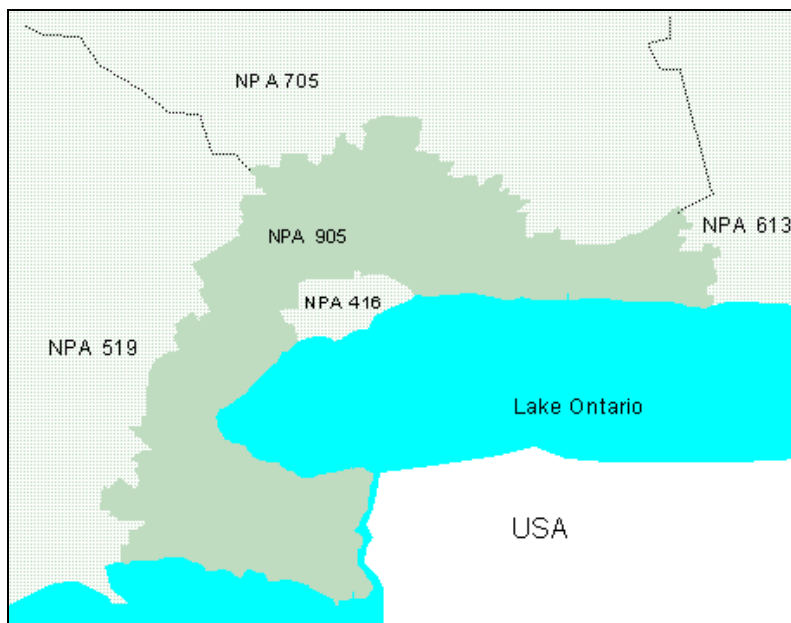


# Initial Planning Document NPA 905 Numbering Relief



**CNA**

Science Applications International  
Corporation (SAIC Canada)

October 29, 1999

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# Initial Planning Document NPA 905 Numbering Relief

## 1. EXECUTIVE SUMMARY

This Initial Planning Document (IPD) identifies possible solutions for providing relief to the NPA 905 geographic area. Based on the 1999 Central Office Code Utilization Survey (COCUS), the existing 792 NXX codes are forecasted to exhaust Q2 2004.

The following alternatives were evaluated:

- a. Split the NPA into two geographic areas (three options):
  - (i) Municipalities south of Peel Regional Municipality in the new NPA and remainder of Municipalities including Peel Regional Municipality would retain NPA 905.
  - (ii) Municipalities south of Peel Regional Municipality and the exchanges south of Highway 401 within the Peel Regional Municipality would retain NPA 905. The remainder of exchanges within Peel Regional Municipality and remainder of municipalities in the new NPA.
  - (iii) Exchanges surrounding Toronto (inner ring) in the new NPA, the remaining exchanges (outer ring) would retain NPA 905.
- b. Split the NPA 905 into three geographic areas. The exchanges directly south-west and south of Toronto would retain NPA 905, NPA 705 boundary would be realigned to include some of the neighbouring NPA 905 exchanges, the remainder of the exchanges in NPA 905 geographic area would be assigned the new NPA. This option was rejected due to the high quantity of CO Code conflicts.
- c. Introduce a new NPA using the Distributed Overlay Option.

The following is a comparison of the alternatives evaluated:

Description	Alternatives			
	Municipality Split #a. (i)	Municipality & Exchange Split #a. (ii)	Rings Around Toronto #a. (iii)	Distributed Overlay #c.
Exhaust – NPA 905	2016	2021	2019	2004
Exhaust – New NPA	2020	2017	2021	2018
# Changes Required	1.5 M	1.5 M	1.6 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 Industry Carriers Compatibility Forum (ICCF) guidelines to facilitate the selection of a consensus NPA 905 code relief alternative.

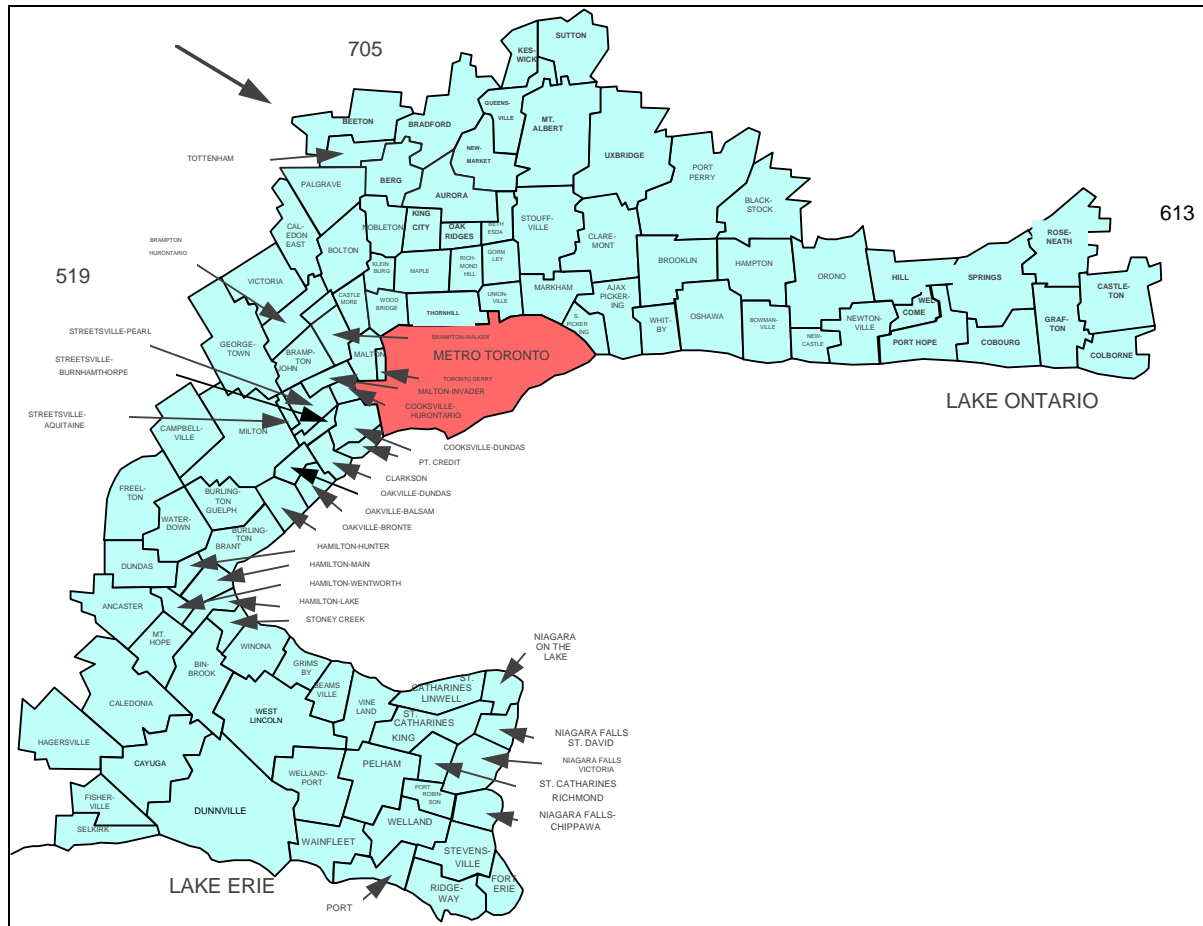
Given the magnitude of this undertaking, inter-company commitment and co-operation are essential throughout the planning, provisioning and implementation stages of the introduction of the new NPA.

## 2. INTRODUCTION

In October 1993, relief to NPA 416 was provided by geographically splitting the area. Toronto retained NPA 416 and the remainder of the territory was assigned NPA 905. Coincident with the split, 10-digit dialling became mandatory for local calls between NPA 416 and NPA 905, however within a NPA, 7 digit dialling remained intact for local calling.

In October 1993, 307 NXX Codes were transferred from NPA 416 to create the new NPA 905. Since then, 212 new CO Codes have been assigned for Landline growth and for the rapidly growing Cellular and local competition expansion.

The previous landline growth trends have very little impact on the CO Code forecast fluctuations. It is very important to closely monitor the expansion plans of all existing and emerging service providers to avoid jeopardy situation and to provide relief earlier than later.

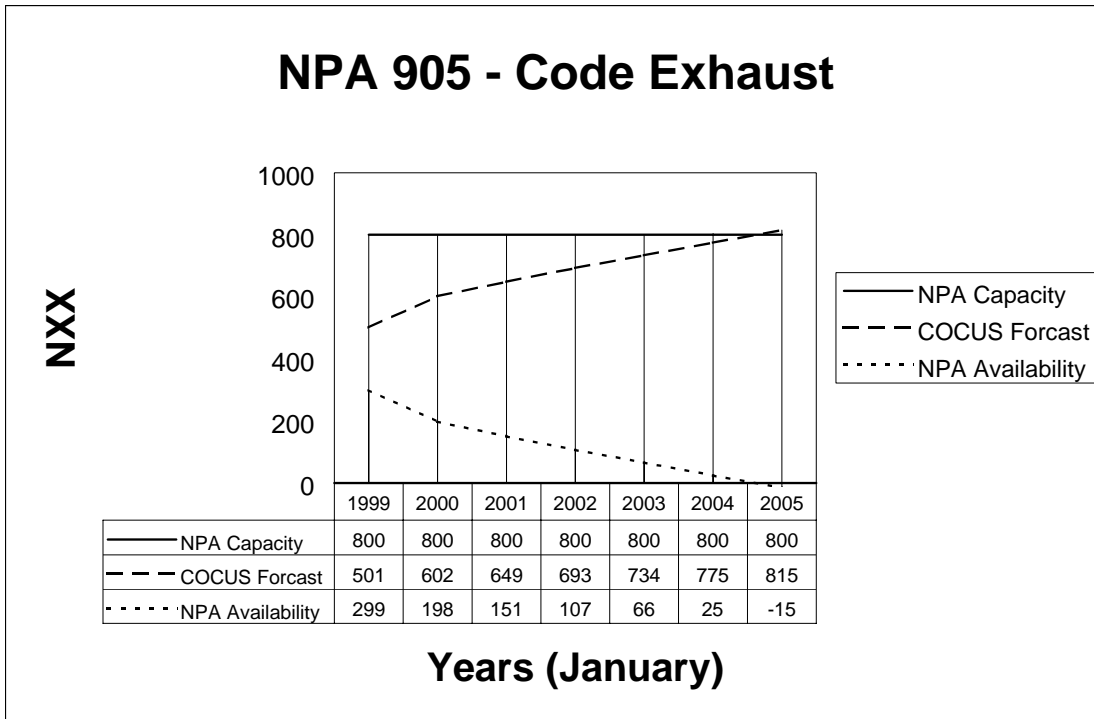


**Figure 1 Existing NPA 905 and NPA 416**

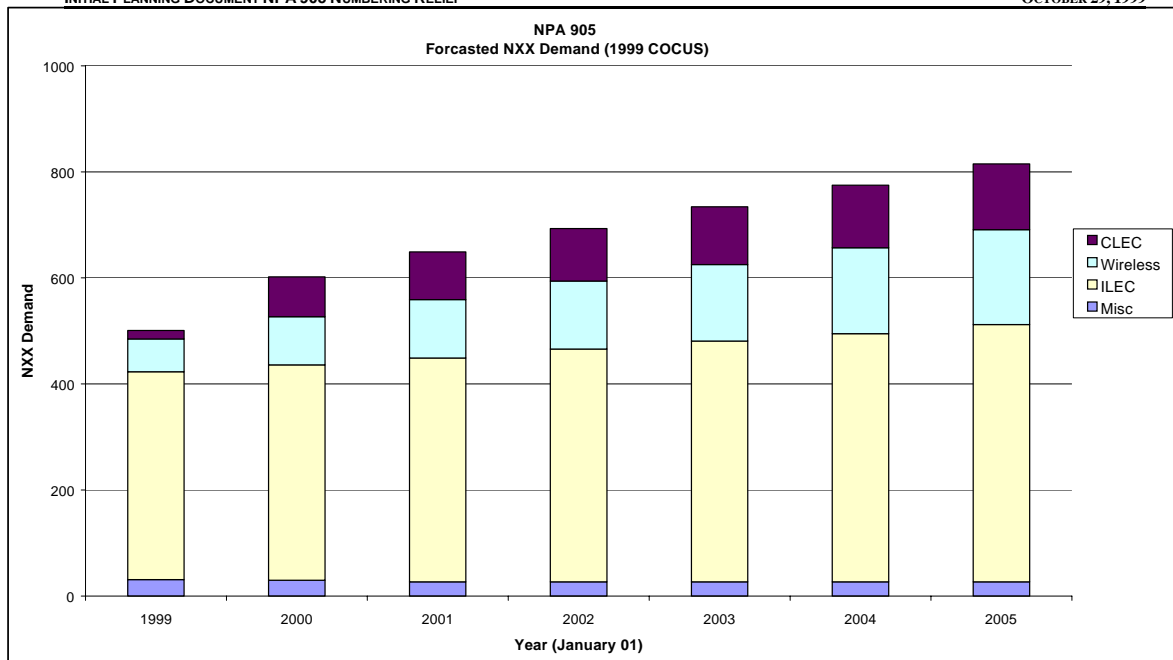
### 3. CENTRAL OFFICE CODE EXHAUST

All NPA 905 Central Office Codes are expected to exhaust in Q2 2004. This determination is based on the 1999 Central Office Code Utilisation Survey (COCUS) results which were issued by the new Canadian Numbering Administrator (CNA). This finding is not consistent with the results of the 1998 COCUS, which indicated that NPA 905 was likely to exhaust in Q1 2003.

The year over year change in the cellular forecasts due to the business strategies, CRTC Telecom Decision 94-19 which allows for local competition and the granting of PCS licenses for the introduction of this service in 1996 have all contributed to the early relief of NPA 905. The Code exhaust based on the 1999 submitted COCUS and the NXX demand by providers until year 2005 is summarised in the following two graphs.



**Figure 2 NPA 905 CO Code Exhaust**



**Figure 3 NPA 905 COCUS 1999**

Figures 2 and 3 highlight the need to have relief in place well in advance of reaching 792 assigned NXX codes, to allow for forecast volatility and to accommodate a period for permissive dialling and intercepting 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. Realignment of NPA boundaries; and
- c. Distributed Overlay.

### 4.1. Geographic Split

#### 4.1.1. Definition

By this method, the exhausting NPA is split into two 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 to the remaining area. This method traditionally divides areas by jurisdictional, natural or physical boundaries between the old and the new NPA.

This method has been the alternative chosen for practically all NPA relief situations prior to 1995. 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. This method generally provides long term relief for an area.

#### **4.1.2. General Attributes**

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- 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 NPA's.
- Number changes required in new NPA boundaries.
- Reprogramming or replacement of equipment (Switches, PBX's, Cell Phones etc.).
- Existing customers inconvenienced.
- More economic burden (businesses, public costs, stationery, etc.).
- NPA exhaust occurs more rapidly, thus requiring new NPA's.
- 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 to 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 NPA's 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**

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- New method of NPA relief, no 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.
- Greater longevity of numbering resource before new NPA required.
- Same location, two NPA's in residence/business.
- Increased directory costs.

### **4.3. Boundary Realignment**

In NPA boundary realignment, the NPA requiring relief is adjacent to an NPA within the same province, which has spare NXX code capacity. A boundary shift occurs so that spare codes in the adjacent NPA can be used in the NPA requiring relief. As a result, the geographic area of the exhausting NPA shrinks while the geographic area of the NPA with spare capacity expands. Only the customers in the geographic area between the old and the new boundaries are directly affected by the change. This method is viewed as an interim measure because it tends to provide a shorter-term relief than when providing a new NPA code.

## 5. IMPACT OF RELIEF METHODS

### 5.1. *Geographic Split*

Three geographic splits were assessed namely; Municipality Split, Municipality & Exchange Split and Rings Around Toronto.

#### 5.1.1. *Municipality Split*

This option groups municipalities south of Peel Regional Municipality as one entity and would adopt the new NPA. The other entity, which groups the remainder of Municipalities including Peel Regional Municipality, would retain NPA 905. This option would result in approximately 1.5 million number changes. Relief to NPA 905 and the new NPA is expected to last until year 2016 and 2020 respectively.

#### 5.1.2. *Municipality & Exchange Split*

This option has municipalities south of Peel Regional Municipality and four exchanges south of Highway 401 (Clarkson, Cooksville, Port Credit and Streetsville) within the Peel Regional Municipality would retain NPA 905 and remainder of the exchanges in Peel Regional Municipality and remainder of municipalities in the new NPA. This option would result in approximately 1.5 million number changes. Relief to NPA 905 and the new NPA is expected to last until year 2021 and 2017 respectively

#### 5.1.3. *Rings Around Toronto*

This option groups NPA 905 exchanges surrounding Toronto (Inner ring) into the new NPA and the remainder of exchanges (Outer ring) would retain NPA 905. This option would result in approximately 1.6 million number changes. Relief to NPA 905 and the new NPA is expected to last until year 2019 and 2021 respectively

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

### 5.2. *NPA Split + Boundary Realignment*

This alternative considers splitting NPA 905 in three geographic areas. The exchanges directly south-west and south of Toronto would retain NPA 905, the NPA 705 boundary would be realigned to include some of the neighbouring NPA 905 exchanges, the remainder of the exchanges in NPA 905 geographic area would be assigned the new NPA.

**This option was rejected due to the high quantity of Code conflicts.**

### 5.3. *Distributed Overlay*

This alternative would result in the new NPA being introduced coincident with the exhaust of NPA 905. 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 year 2018.

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



## 6. DIALING CHANGES FOR LOCAL CALLS

In addition to the dialing patterns that exist for local calls between NPA 905 and the NPA 416, the following tables reflect the dialing arrangement for each alternative for local calls only.

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

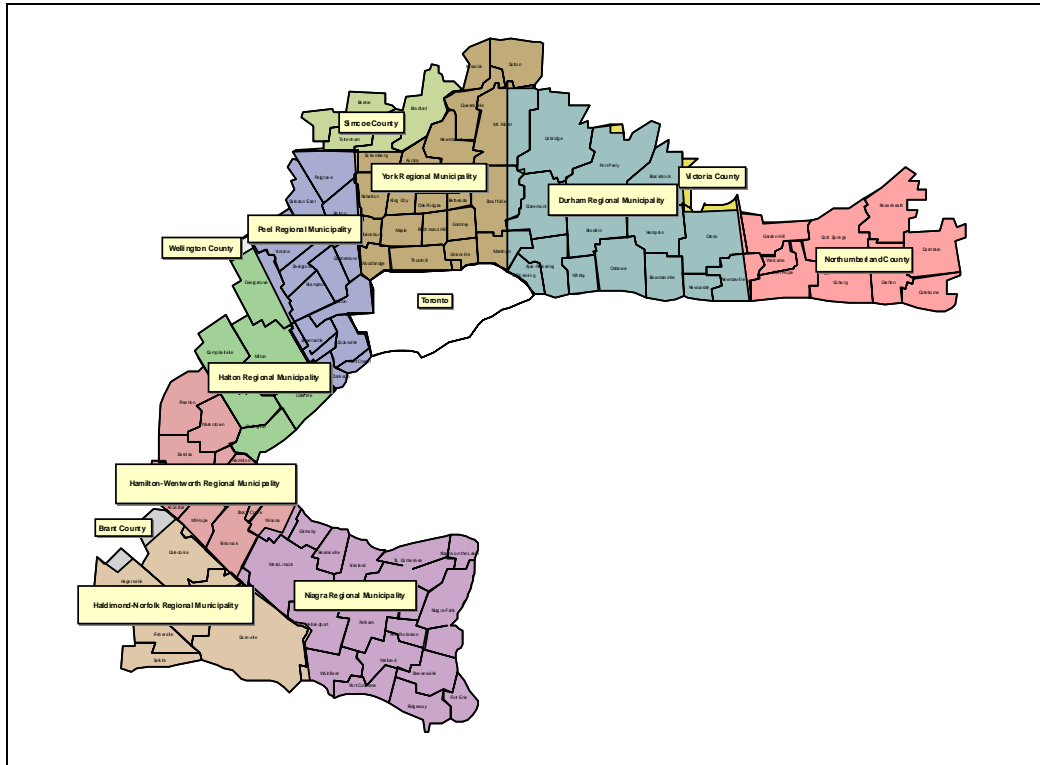
<b>Geographic Split</b>	<b>Today</b>	<b>After Relief</b>
Landline to Wireless within NPA	7 digits	7 digits
Landline to Wireless between NPAs	10 digits	10 digits
Landline to Landline within NPA	7 digits	7 digits
Landline to Landline between NPAs	10 digits	10 digits
Wireless to Wireless within NPA	7 digits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

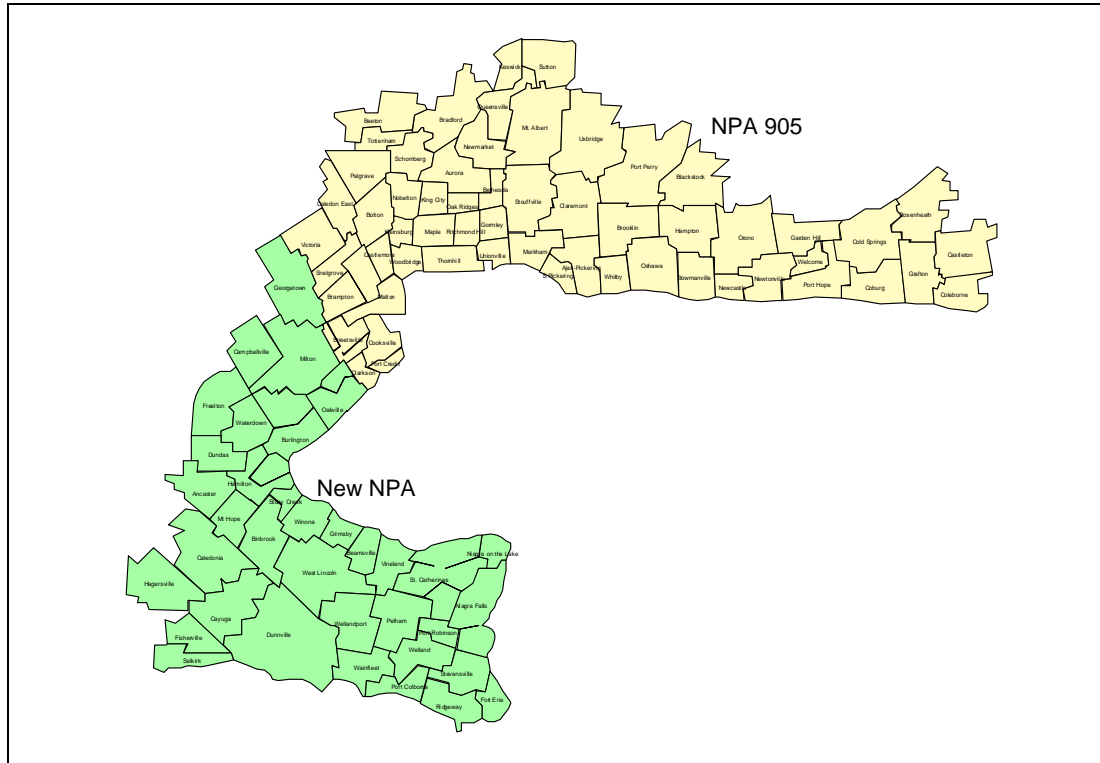
## 7. PROPOSED SCHEDULE

<u>Dates</u>	<u>Activities</u>
October 1999	Initial Planning Document Issued
December 1999	NPA Relief Industry Meetings Begin
Feb. 2000	Special COCUS ( By Exchange )
April 2000	Special COCUS results to Committee
April . 2000 – September 2000	Follow-up Meetings ( as required )
October 2000	NPA Relief Industry Meetings Complete
November 2000	Industry Consensus Report to Regulator
Nov. 2000 - TBD	Regulatory Process / Approval of Plan
Feb. 2001	Conduct Special COCUS by Exchange
April 2001	Special COCUS results to Committee
May 2001	Establish Firm Relief Dates
June 2001 – September 2001	Regulatory Approval of Relief Date
September 2001	Apply to NANPA for New NPA
November 2001	NANPA Industry Letter
*	Industry Implementation of New NPA ( if split option)
*	Industry Implementation of New NPA ( if overlay)
*	Permissive period
*	10 Digit local Dialing Adjustment Period
*	Mandatory 10 Digit local Dialing
*	First NXX Opened in New NPA
*	Dates for these activities are dependent upon the final approved plan and relief date.

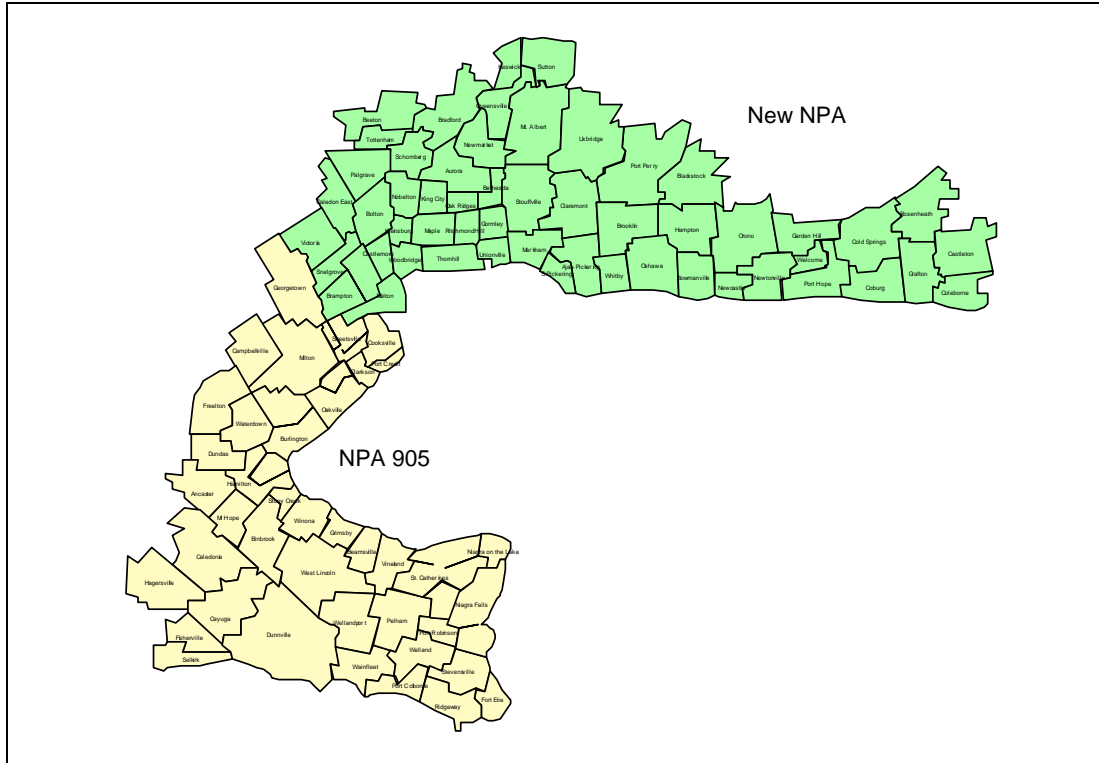




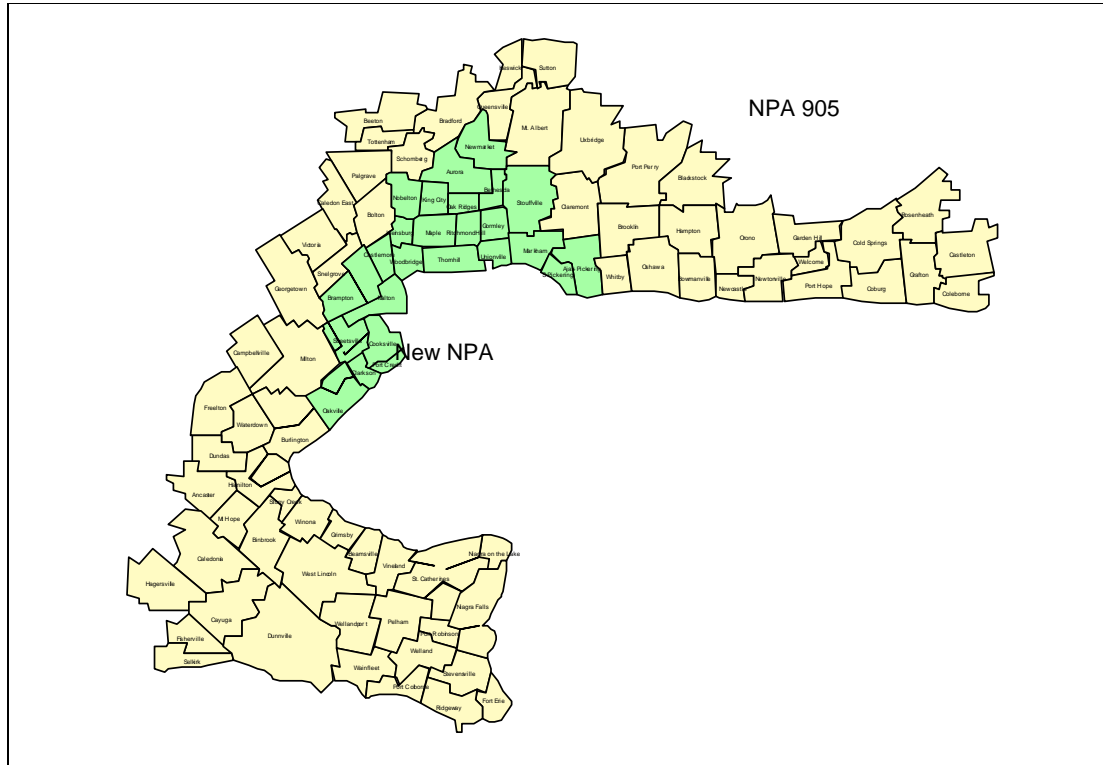
**Figure 5 NPA 905 Municipalities**



**Figure 6 Municipality Split**



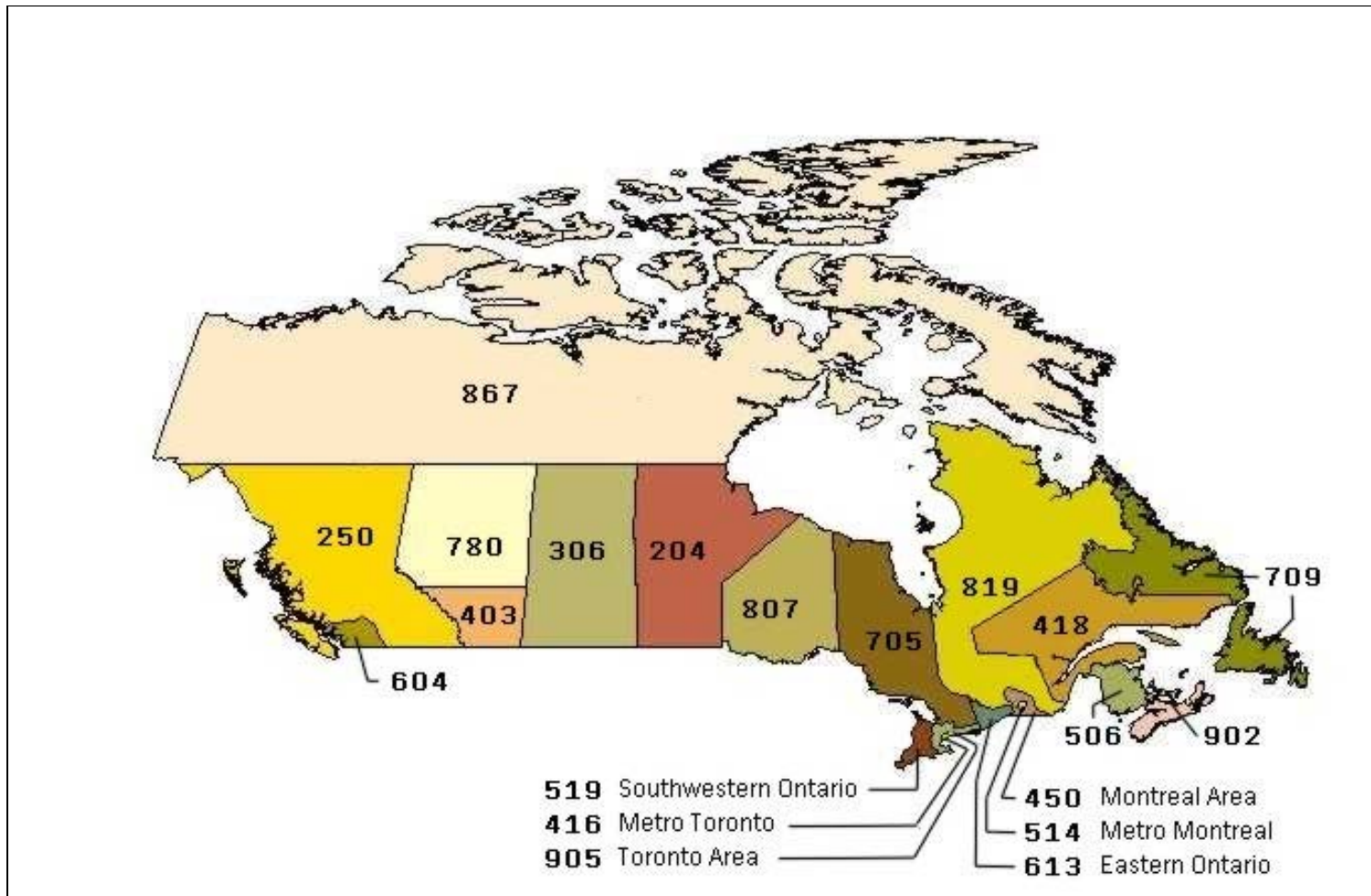
**Figure 7 Municipality Split and Exchanges south of Highway 401**



**Figure 8 Split by rings around Toronto**





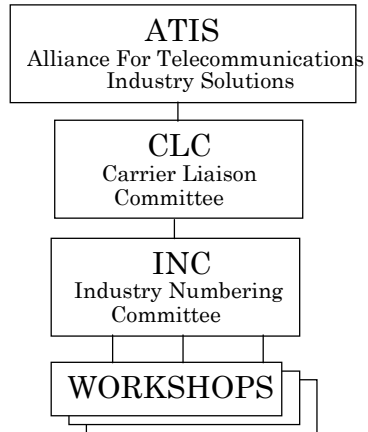


[Appendix 1 Canadian Geographic NPAs](#)

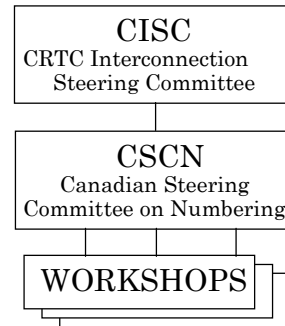


## Industry Forums

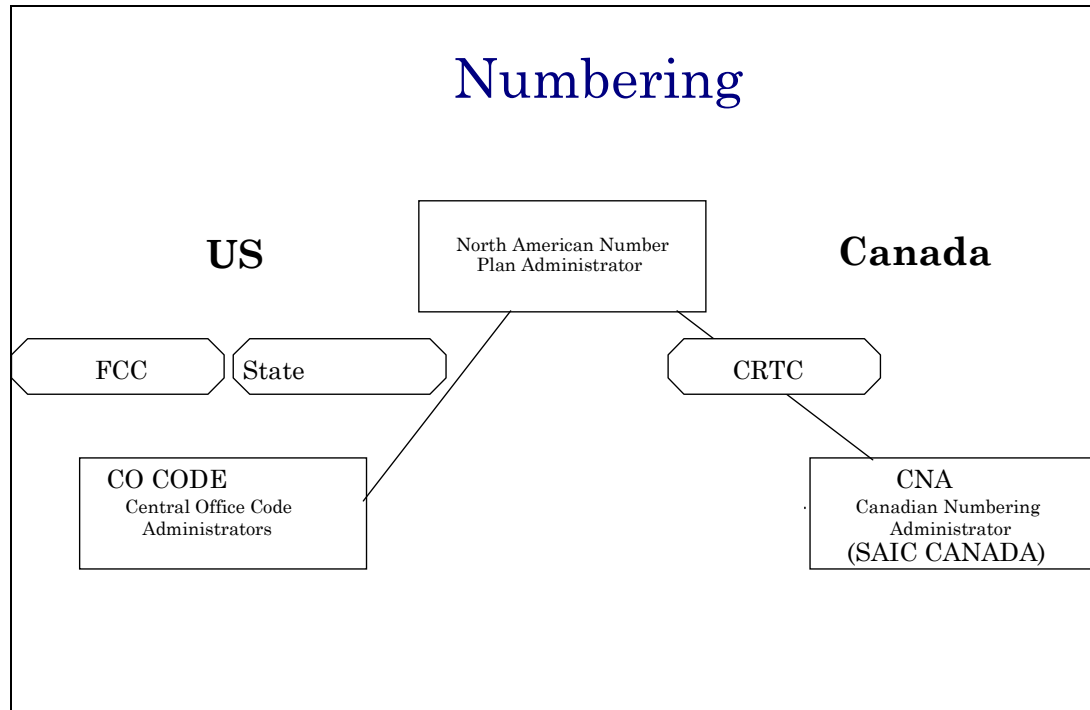
### NANP



### CANADIAN



### [Appendix 2 Industry Forms](#)



Appendix 3 Numbering Administration

The *NPA Code Relief Planning & Notification Guidelines* may be obtained from the ATIS website at <ftp://ftp.atis.org/pub/clc/inc/97040416.doc>. **Double-click on the object below to open and view this document.**

**[Appendix 4 NPA Code Relief Planning & Notification Guidelines](#)**





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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

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