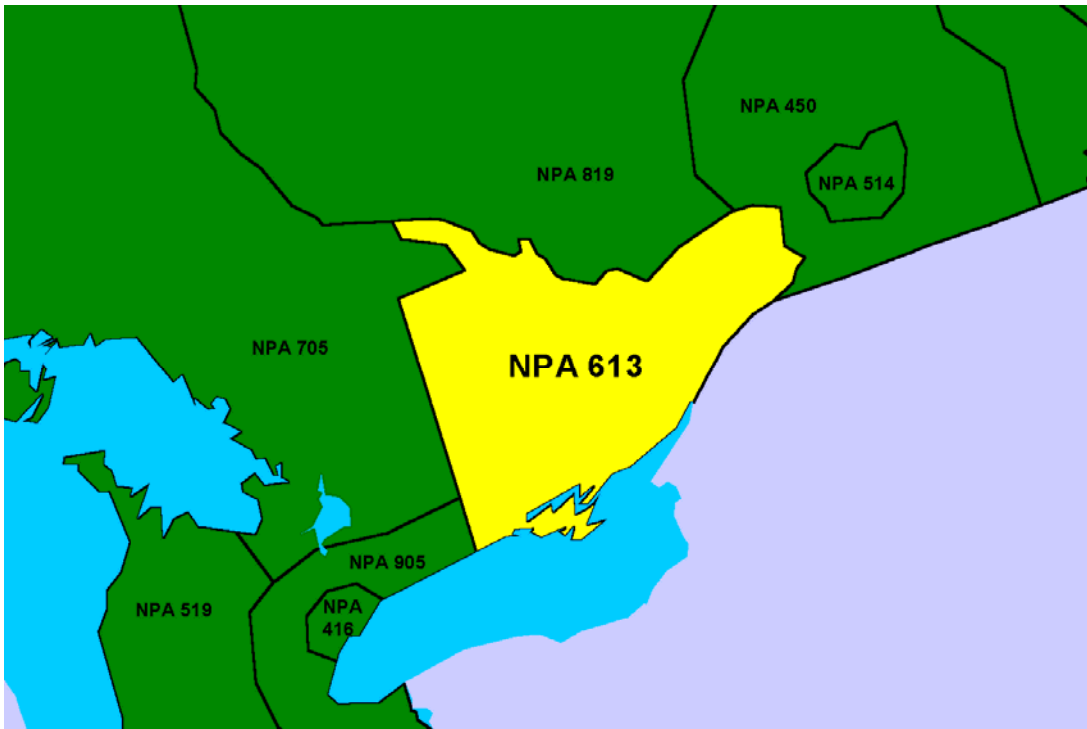


Initial Planning Document NPA 613 Numbering Relief

CNA

Science Applications International
Corporation (SAIC Canada)

Version 1 IPD Based on August 15, 2000 Relief Planning COCUS Results



November 1, 2000

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Initial Planning Document NPA 613 Numbering Relief

1. EXECUTIVE SUMMARY

Ottawa, located in NPA 613, and Hull, located in NPA 819, have the largest numbering demand in NPAs 613 and 819. Free calling between Ottawa and Hull is made facilitated by using local 7-digit dialing between the two NPAs. Consequently, a large number of Central Office (CO) Codes are protected to maintain the integrity of 7-digit dialing since the same CO Code cannot be assigned in each NPA in Ottawa-Hull. This circumstance is prematurely causing exhaust of both NPAs. This Initial Planning Document (IPD) identifies possible solutions for providing relief for the NPA 613 geographic area.

Based on the August 15, 2000 NPA 613 Relief Planning Central Office Code Utilization Survey (R-COCUS), the existing 800 Central Office (CO) Codes, of which 758 are assignable, are forecast to exhaust in January 2006 if the protection of CO Codes to maintain 7-digit dialing between the Ottawa-Hull free calling areas of NPAs 613 and 819 is retained. The exhaust of NPA 613 will be deferred to 2Q 2008 if CO Code protection is removed.

Relief Planning of both NPAs is interdependent; therefore, the date of relief for NPA 613 must be determined based on the earliest exhaust date of either of the NPAs. The NPA 819 Relief Planning COCUS indicates that NPA 819 will exhaust in 1Q 2005 if CO Code protection is retained and will exhaust in 2Q 2004 if CO Code protection is removed. Consequently, NPA 613 Relief Planning must take the earliest exhaust date of NPA 819 (i.e., 1Q 2005) into consideration.

The following alternatives were evaluated using the assumptions shown below:

1. 7-digit dialing between the Ottawa-Hull exchanges of Naps 613 and 819 will be replaced by 10-digit dialing beginning February 2004;
2. CO Code protection in NPAs 613 and 819 will be eliminated and mandatory 10-digit dialing will be introduced by **October 2004**; and,
3. for all three Concentrated Overlay Options, an implementation date for the new NPA will be on or before 1Q 2005, which will extend the life expectancy of NPA 613 up to the year 2012. Advancing the introduction of a concentrated overlay to before 1Q 2005 can further extend the life expectancy of NPA 613.

A. Split the NPA into two geographic areas (three options):

- i NPA 613 Ottawa Exchange¹ Split (A-i): The area served by the Ottawa Exchange Central Offices would retain NPA 613 and the area served by the remainder of the existing NPA 613 Exchanges would be grouped in the new NPA.
- ii NPA 613 Regional Municipality of Ottawa-Carleton (RMOC) Exchange Split (A-ii): The area served by the 14 Exchanges in the RMOC would retain NPA 613 and the area served by the remaining existing Exchanges in NPA 613 would be grouped in the new NPA.
- iii NPA 613 Ottawa Extended Area Service (EAS) Split (A-iii): The area served by the Exchanges which have EAS (i.e., Free Calling) with the Ottawa Exchange would retain NPA 613 and the area served by the remainder of the existing NPA 613 Exchanges would be grouped in the new NPA.

1. This exchange appears in the LERG as OTTAWAHULL. To avoid confusion the CNA will refer to this exchange as the Ottawa Exchange in NPA 613.

B. Introduce a new NPA using the Concentrated Overlay method (two options):

- i NPA 613 Ottawa Exchange Concentrated Overlay (B-i): Effective 1Q 2005, the future CO Code growth of the area served by the existing NPA 613 Ottawa Exchange would be provisioned by the new NPA and the area served by the remainder of the Exchanges would continue to utilize the remaining CO Codes available for assignment in NPA 613.
- ii NPA 613 RMOC Exchange Concentrated Overlay (B-ii): Effective 1Q 2005, the future CO Code growth of the area served by the 14 Exchanges of the RMOC in the existing NPA 613 would be provisioned by the new NPA and the area served by the remainder of the NPA 613 Exchanges would continue to utilize the remaining CO Codes available for assignment in NPA 613.

C. Introduce new NPA using the distributed Overlay method:

The future CO Code growth in all Exchanges of the area served by the existing NPA 613 would be provisioned by the new NPA.

D. Introduce new NPA using the Concentrated Overlay method in the Ottawa and Hull Exchanges of NPAs 613 and 819

Effective Q1 2005, the future CO Code growth of the area served by the existing Ottawa and Hull² Exchanges in NPAs 613 and 819 would be served by the new NPA using the Concentrated Overlay Method. The area served by the remainder of the Exchanges in NPAs 613 and 819 would continue to utilize the remaining CO Codes available for assignment in NPAs 613 and 819.

This Relief Method is unprecedented in Canada, since the concentrated overlay area encompasses two separate NPAs, however, given the uniqueness of the Ottawa-Hull area telephone-calling pattern, the CNA did consider this a viable option.

The following is a comparison of the alternatives evaluated:

Description	NPA 613 Ottawa Exchange Split (A-i)	NPA 613 RMOC Exchange Split (A-ii)	NPA 613 Ottawa EAS Exchange Split (A-iii)	NPA 613 Ottawa Conc. Exchange Overlay (B-i)	NPA 613 RMOC Exchange Conc. Overlay (B-ii)	NPA 613 Distributed Overlay (C)	NPA 613 & 819 Ottawa-Hull Exchange Conc. Overlay (D)
Exhaust – NPA 613	2021	2019	2016	2013	2013	2008	2013
Exhaust – NPA 819	2024	2024	2024	2024	2024	2024	2038
Exhaust –New NPA	2030	2032	2043	2031	2031	2025	2028
Approximate Number Changes Required	1.5 M	1.3 M	1.1 M	Nil	Nil	Nil	Nil
Dialing Impact	10D	10D	10D	10D	10D	10D	10D
Permissive Dialing	Required	Required	Required	Required	Required	Required	Required

This IPD 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 613 code relief method and a relief date.

2. This exchange appears in the LERG as OTTAWAHULL. To avoid confusion the CNA will refer to this exchange as the Hull Exchange in NPA 819.

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

NPA 613 consists of 131 Exchanges serving mainly Ottawa, Kingston, Belleville, Brockville, Cornwall and surrounding communities of the eastern part of Ontario in Canada. The Exchanges serving the Ottawa-Carleton area in NPA 613 have free calling with the Hull area free calling Exchanges in NPA 819. In order to retain 7-digit dialing for local calling between the exchanges of these two NPAs, a large number of CO Codes continue to remain protected and this situation is causing the premature exhaust of both NPAs. This IPD identifies possible solutions for providing relief to the NPA 613 geographic area.

Based on the August 15, 2000 NPA 613 Relief Planning Central Office Code Utilization Survey (R-COCUS), the existing 800 Central Office (CO) Codes, of which 758 are assignable, are forecast to exhaust in January 2006 if the protection of CO Codes to maintain 7-digit dialing between the Ottawa-Hull free calling areas of NPAs 613 and 819 is retained. The exhaust of NPA 613 will be deferred to 2Q 2008 if CO Code protection is removed.

Relief Planning of both NPAs is interdependent; therefore, the date of relief for NPA 613 must be determined based on the earliest exhaust date of either of the NPAs. The NPA 819 Relief Planning COCUS indicates that NPA 819 will exhaust in 1Q 2005 if CO Code protection is retained and will exhaust in 2Q 2024 if CO Code protection is removed. Consequently, NPA 613 Relief Planning must take the earliest exhaust date of NPA 819 (i.e., 1Q 2005) into consideration.

With the rapid growth in services (e.g., wireless, internet, etc.), an increase in the number of service providers due to local competition, and an ever-increasing number of protected CO Codes, the number of CO Codes available for assignment in both NPAs is being depleted and will result in the premature exhaust of both NPAs.

It is very important to closely monitor the expansion plans of all existing and emerging service providers to ensure that mandatory 10-digit dialing is implemented, CO Code protection is removed and relief is provided far enough in advance that no shortage of assignable CO Codes occurs and that a jeopardy condition does not arise.

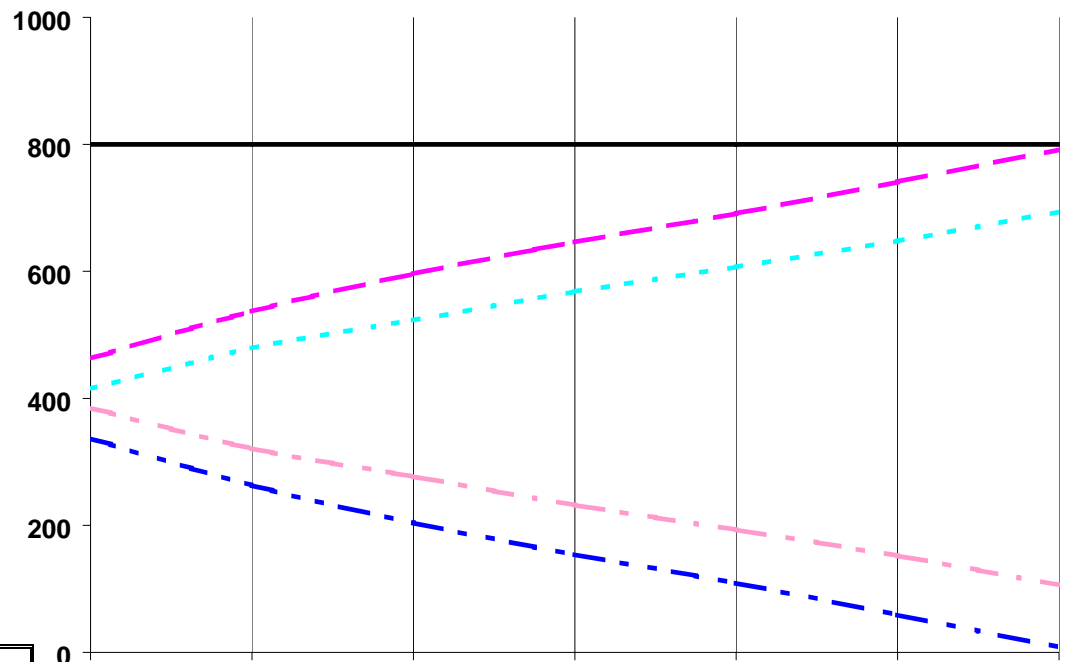


Figure 1 Existing NPA 613

3. CENTRAL OFFICE CODE EXHAUST

All CO Codes in NPA 613 are expected to exhaust in January 2006. This determination is based on the results of the August 15, 2000 R-COCUS.

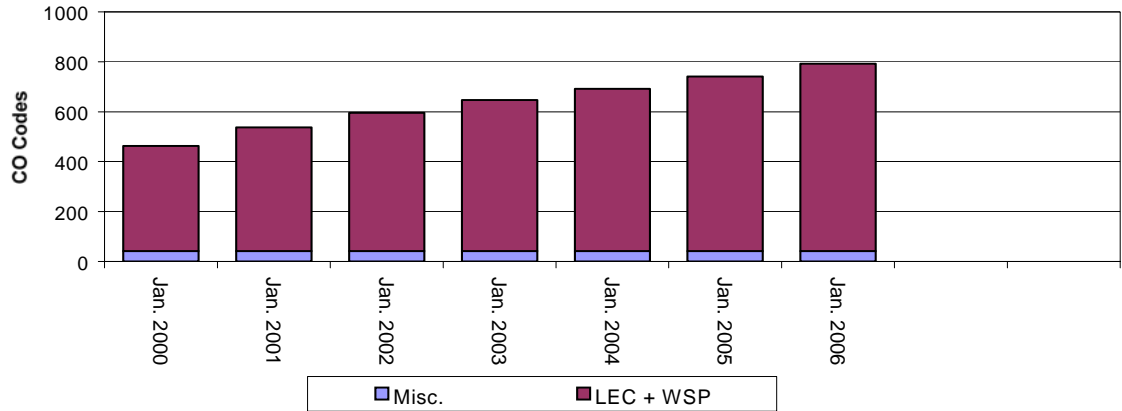
The year-over-year change in the forecasts due to new business strategies, Telecom Decision CRTC 94-19, which allows for local competition, and the granting of Personal Communications Services (PCS) licenses for the introduction of PCS service in 1996 have all contributed to the earlier than expected requirement for relief of NPA 613. The following graph is based on results from the August 15, 2000 R-COCUS and represents the rate of CO Code utilization in NPA 613.



Year (January)	2000	2001	2002	2003	2004	2005	2006
— NPA Capacity	800	800	800	800	800	800	800
- - - COCUS with Protection	463	537	596	646	691	741	792
..... COCUS no Protection	415	479	523	568	607	648	694
- . - NXX Availability no Protection	385	321	277	232	193	152	106
- - - NXX Availability with Protection	337	263	204	154	109	59	8

Figure 2 NPA 613 CO Code Exhaust Protection August 2000 R - COCUS

With Protected CO Codes



Without Protected CO Codes

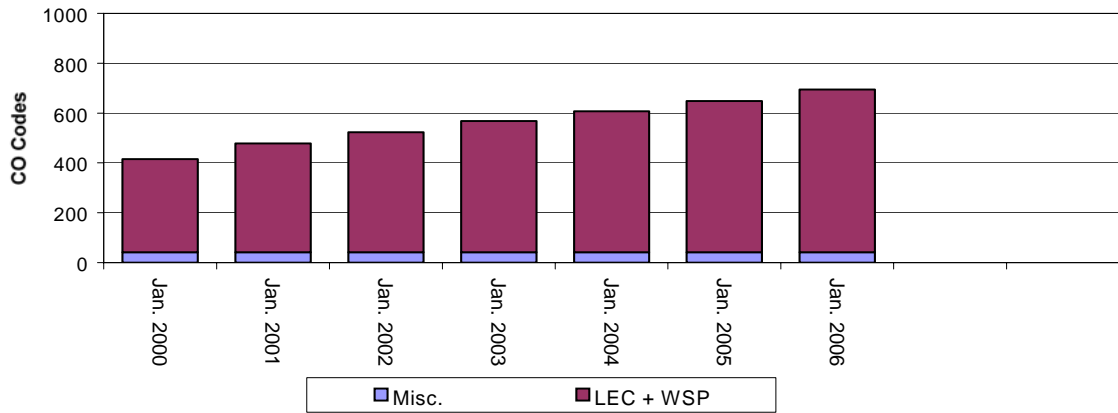


Figure 3 NPA 613 August 15, 2000 Relief COCUS

Figures 2 and 3 highlight the need to have mandatory 10-digit dialing in place and CO Code protection eliminated by October of the year 2004 in NPAs 613 and 819.

NPA 613 relief must be in place well in advance of reaching 758 assigned CO Codes, to allow for forecast volatility.

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. Concentrated Overlay within one NPA (two options);
- C. Distributed Overlay; and,
- D. Concentrated Overlay over parts of the two NPAs.

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 minimize 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 dialing 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.).
- Not as expensive to display in telephone directory.
- Requires a permissive dialing period.
- Possible boundary disputes.

4.2. 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 necessitates 10-digit dialing of local calls between the old and new NPAs coincident with NXX codes being implemented in the new NPA (universal 10-digit dialing 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.

A Concentrated Overlay strategy is considered when growth in telephone numbers continuously occurs or is expected to occur in a specific area of the existing NPA(s). Given the unique nature of telephone calling patterns and the demand for CO Codes in the Ottawa-Hull area, the CNA has also considered introduction of the Concentrated Overlay strategy in part of the geographic area that is served by two contiguous NPAs.

4.2.2. General Attributes

- Requires universal 10-digit dialing 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 split options were assessed; namely, NPA 613 Ottawa Exchange Split, NPA 613 RMOC Exchange Split and NPA 613 Ottawa EAS Split. There are no municipal, physical or natural boundaries that can be used as reference points to split the NPA.

5.1.1. *NPA 613 Ottawa Exchange Split (A-i):*

The area served by the Ottawa Exchange Central Offices would retain NPA 613 and the area served by the remainder of the existing NPA 613 Exchanges would be grouped in the new NPA. This option would result in approximately 1.5 million number changes. Relief to NPA 613 and the new NPA is expected to last until year 2021 and 2030 respectively.

5.1.2. *NPA 613 RMOC Exchange Split (A-ii):*

The area served by the 14 Exchanges in the RMOC would retain NPA 613 and the area served by the remaining existing Exchanges in NPA 613 area would be grouped in the new NPA. This option would result in approximately 1.3 million number changes. Relief to NPA 613 and the new NPA is expected to last until year 2019 and 2032 respectively.

5.1.3. *NPA 613 Ottawa EAS Split (A-iii):*

The area served by the Exchanges which have EAS (i.e., Free Calling) with the Ottawa Exchange would retain NPA 613 and the area served by the remainder of the existing NPA 613 Exchanges would be grouped in the new NPA. This option would result in approximately 1.1 million number changes. Relief to NPA 613 and the new NPA is expected to last until year 2016 and 2043 respectively.

5.2. *Concentrated Overlay*

Two Concentrated Overlay options for relief planning in NPA 613 were assessed; namely, NPA 613 Ottawa Exchange Concentrated Overlay and NPA 613 RMOC Exchange Concentrated Overlay.

The main advantage of these options is that number changes are not required, however they introduce the new NPA in a specific area within the existing NPA boundaries, eliminate local 7-digit dialing and introduce local 10-digit dialing.

5.2.1. *NPA 613 Ottawa Exchange Concentrated Overlay (B-i):*

Effective 1Q 2005, the future CO Code growth of the area served by the existing NPA 613 Ottawa Exchange would be provisioned by the new NPA and the area served by the remainder of the Exchanges would continue to utilize the remaining CO Codes available for assignment in NPA 613. Relief to NPA 613 and the new NPA is expected to last until year 2013 and 2031 respectively.

5.2.2. *NPA 613 RMOC Exchange Concentrated Overlay (B-ii)*

Effective 1Q 2005, the future CO Code growth of the area served by the 14 Exchanges of the RMOC in the existing NPA 613 would be provisioned by the new NPA and the area served by the

remainder of the NPA 613 Exchanges would continue to utilize the remaining CO Codes available for assignment in NPA 613. Relief to NPA 613 and the new NPA is expected to last until year 2013 and 2031 respectively.

5.3. NPA 613 Distributed Overlay (C)

Introduce a new NPA using the Distributed Overlay method of relief planning where future CO Code demand in all exchanges of the existing NPA 613 serving area will be provisioned by CO Codes from the new NPA.

The main advantage of this option is that number changes are not required, however it introduces the new NPA in a specific area within the existing NPA boundaries, eliminates local 7-digit dialing and introduces local 10-digit dialing.

The future CO Code growth in all Exchanges of the area served by the existing NPA 613 would be provisioned by the new NPA. Relief to NPA 613 and the new NPA is expected to last until year 2012 and 2025 respectively.

5.4. NPA 613 & 189 Ottawa-Hull Exchange Concentrated Overlay (D)

Effective Q1 2005, the future CO Code growth of the area served by the existing Ottawa and Hull Exchanges in NPAs 613 and 819 would be served by the new NPA using the Concentrated Overlay Method. The area served by the remainder of the Exchanges in NPAs 613 and 819 would continue to utilize the remaining CO Codes available for assignment in NPAs 613 and 819. Relief to NPA 613, 819 and the new NPA is expected to last until year 2013, 2038 and 2028 respectively.

This Relief Method is unprecedented in Canada, since the concentrated overlay area encompasses two separate NPAs, however, given the uniqueness of the Ottawa-Hull area telephone-calling pattern, the CNA did consider this a viable option.

6. DIALING CHANGES FOR LOCAL CALLS

In addition to the dialing patterns that exist for local calls between NPA 613 and NPA 819, the following tables reflect the dialing arrangement for each alternative for Local calls only.

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

Geographic Split	Today	October 2004	After Relief
Landline to Wireless within NPA	7-digits	10-digits	10-digits
Landline to Wireless between NPAs	10-digits	10-digits	10-digits
Landline to Landline within NPA	7-digits	10-digits	10-digits
Landline to Landline between NPAs	10-digits	10-digits	10-digits
Wireless to Wireless within NPA	7-digits	10-digits	10-digits
Wireless to Wireless between NPAs	10-digits	10-digits	10-digits

Overlay (Concentrated & Distributed)	Today	October 2004	After Relief
Landline to Wireless within NPA	7-digits	10-digits	10-digits
Landline to Wireless between NPAs	10-digits	10-digits	10-digits
Landline to Landline within NPA	7-digits	10-digits	10-digits
Landline to Landline between NPAs	10-digits	10-digits	10-digits
Wireless to Wireless within NPA	7-digits	10-digits	10-digits
Wireless to Wireless between NPAs	10-digits	10-digits	10-digits

7. PROPOSED SCHEDULE

No.	NPA 613 Relief Planning Proposed Time Line*	Time (mths)	Cum. Time	Start date	End date (est.)	Dependency
	Task or Event					
1	CNA identifies NPA Exhaust		0		2-May-00	
2	CNA notifies CRTC, CSCN, & NANP-A of NPA exhaust	¼	0		9-May-00	1
3	CNA conducts NPA R-COCUS	3	3¼		15-Aug-00	2
4	CNA prepares and distributes IPD to Affected Parties.	2½	5¾		31-Oct-00	3
5	Affected parties review IPD and provide comments to the CNA	1¼	7		7-Dec-00	4
6	CNA modifies IPD per comments received and reissues	1	8		7-Jan-00	5
7	CNA arranges for NPA Relief Planning Meeting					
8	Affected Parties review revised IPD prior to meeting	1¼	9¼			6
9	CNA Chairs NPA Relief Planning meeting to finalize IPD and to develop a TIF Report recommending that a CISC Ad Hoc NPA Relief Planning Working Group (RPWG) be formed	0	9¼		15-Feb-01	7
10	CNA revises and forwards IPD and TIF Reports to the CISC/CRTC	½	9¾		2-Mar-01	9
11	CNA creates and issues media release	¼	10		9-Mar-01	
12	CISC review of IPD and forwarding to CRTC for Approval*	½	10½		23-Mar-01	10
13	CRTC issues Public Notice and solicits Interested Parties	2	12½		23-May-01	12
14	Interested Parties Comment & Reply	4½	17		10-Oct-01	13
15	CRTC issues Decision & directs Ad Hoc NPA RPWG to develop and execute NPA Relief Implementation Plan (RIP)	4½	21½		27-Feb-02	14
16	CNA obtains assignment of Relief NPA(s) from the NANP-A	½	22		14-Mar-02	15
17	CNA announces Meeting of RPWG to Develop Consensus RIP, Planning Letter and JCP	0	22			15 + 16
18	RPWG Develops Consensus RIP, Planning Letter & JCP (A Series of Meetings/Conference Calls Might Be Required)	4	26		15-Jul-02	17
19	CNA Forwards Consensus RIP and JCP to CISC	½	26½		30-Jul-02	18
20	CISC reviews and forwards RIP and JCP to the CRTC for approval	1	27½		30-Aug-02	19
21	CRTC Approves RIP and JCP (a public process may be initiated)	2	29½		30-Oct-02	20
22	CNA submits Planning Letter to the NANP-A	½	30		15-Nov-02	16
23	CNA Issues Media Release and informs NANP-A, Telcordia TRA, LNP Consortium, Affected Parties and Interested Parties	1	31		15-Dec-02	21 + 22
24	7- to 10- digit Dialing Transition Period	9	45	Feb-2004	Oct-2004	
25	Mandatory 10 digit Dialing & Code Protection Removed	0			Oct-2004	
26	Task Forces, Service Providers and Users Execute the RIP.					21
27	Relief Date	0				21
28	CNA Submits Completion Reports to CISC one month after Relief	1				

* In the event that a new COCUS or actual demand indicates that the exhaust date will change significantly, the CNA may convene a meeting of the NPA Relief Planning Working Group to review the issue and make a recommendation to the CISC and CRTC.

Notes:

NPA 613 Exhaust Date With Protected Codes **Jan-2006**
 NPA 613 Exhaust Date Without Protected Codes **Apr-2008**
 NPA 819 Exhaust Date With Protected Codes **Jan-2005**

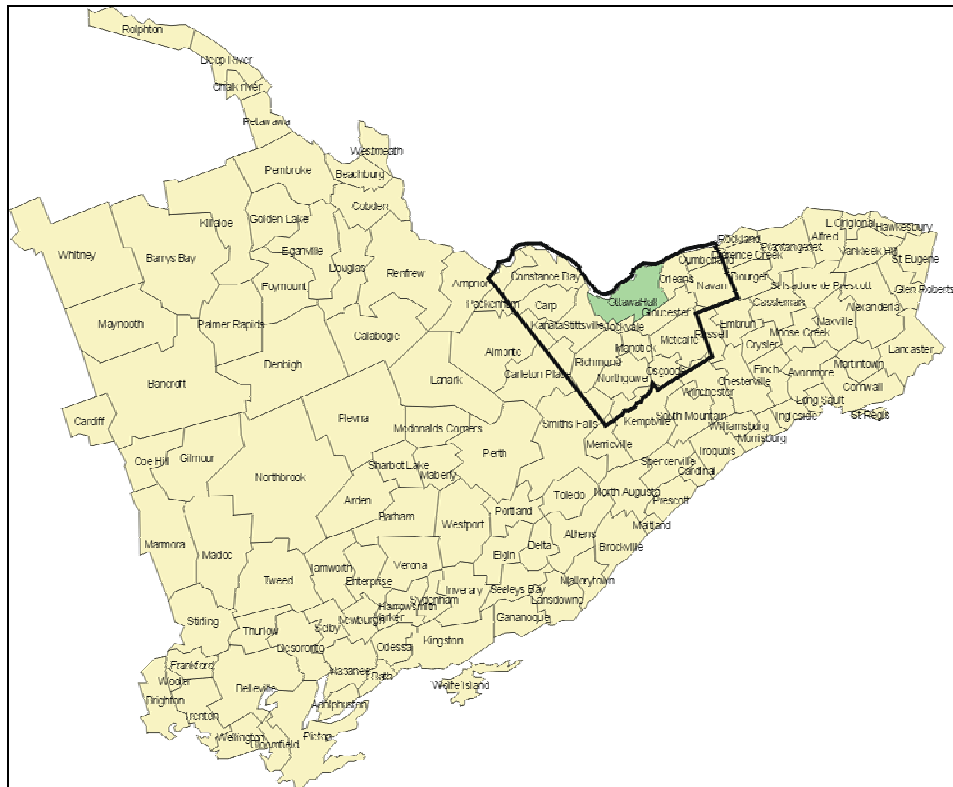


Figure 4 NPA 613 Ottawa–Hull Exchange Split

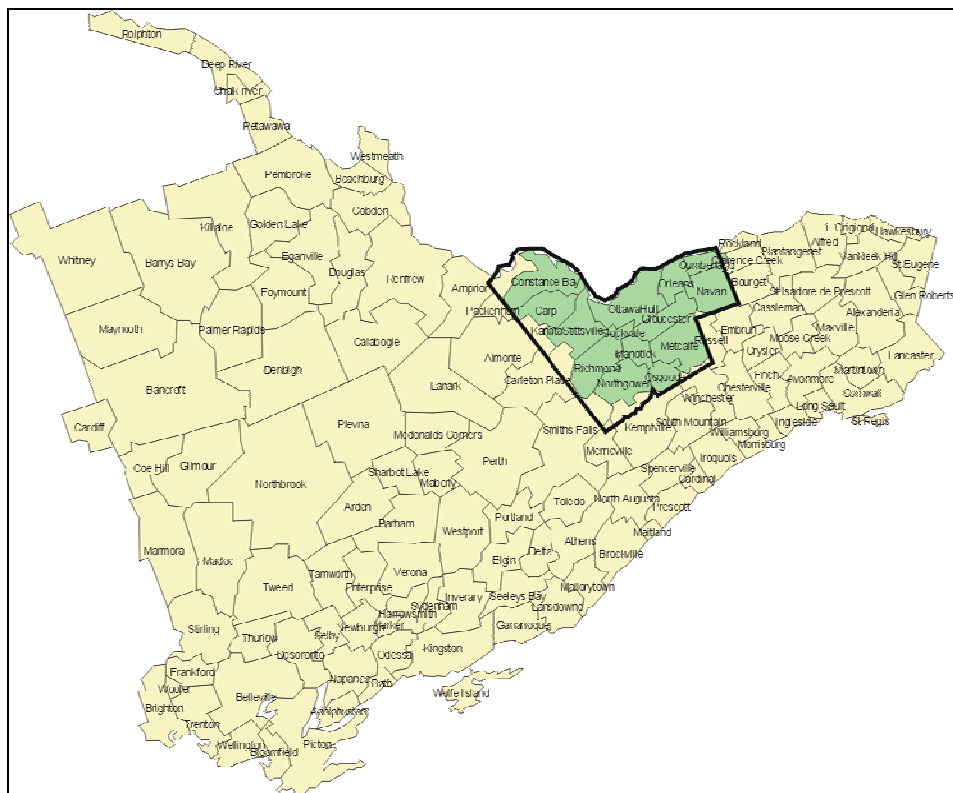


Figure 5 NPA 613 RMOC (Regional Municipality of Ottawa-Carleton) Exchange Split

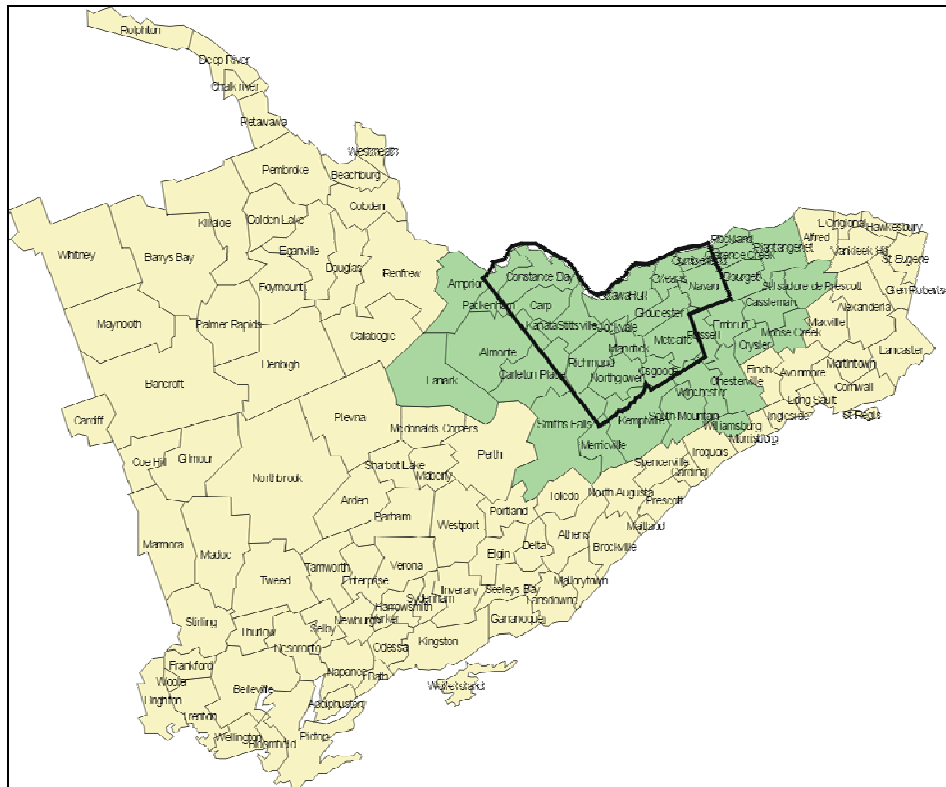


Figure 6 NPA 613 Ottawa-Hull EAS Exchange Split

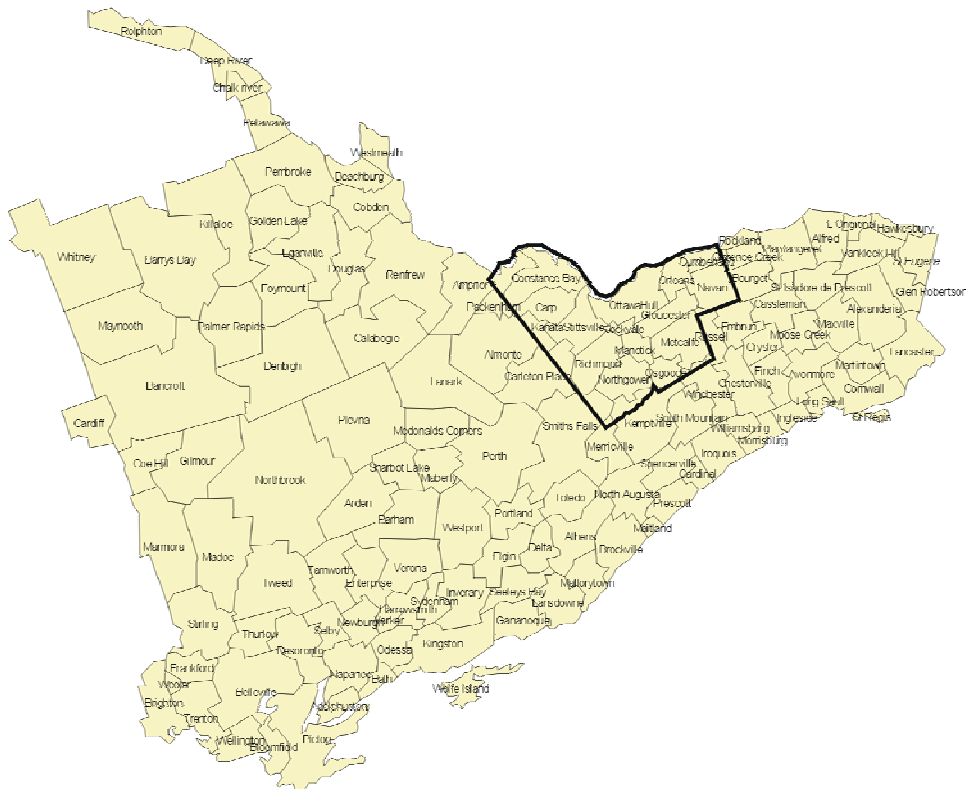


Figure 7 NPA 613 Ottawa-Hull Exchange Concentrated Overlay

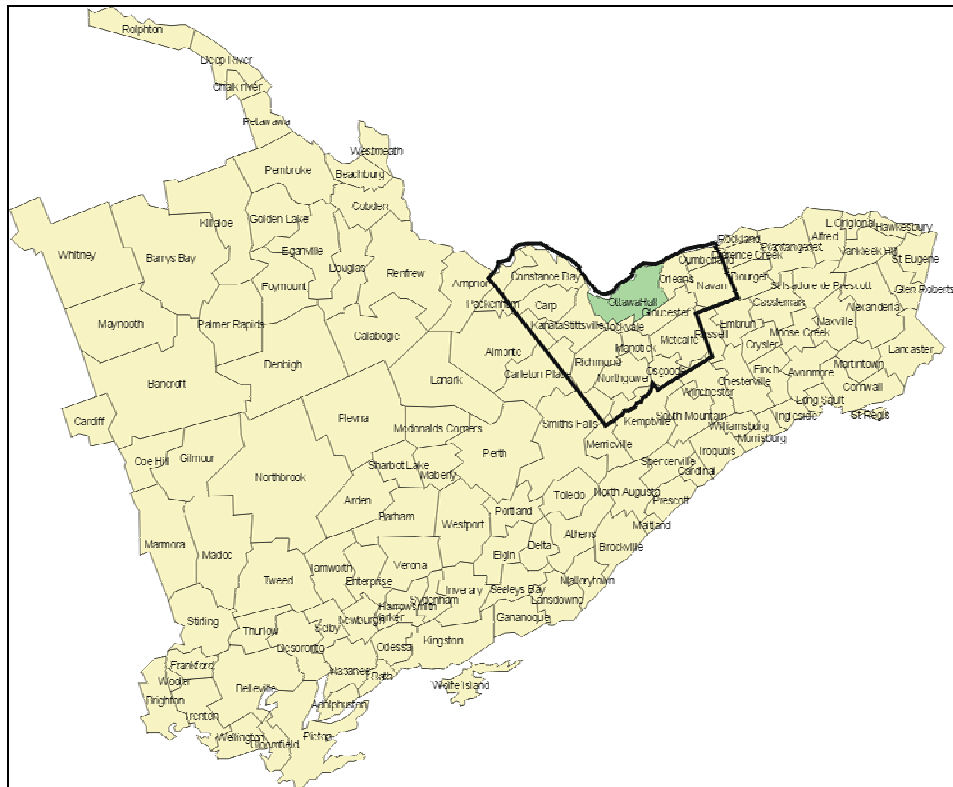


Figure 8 NPA 613 RMOC Exchange Concentrated Overlay

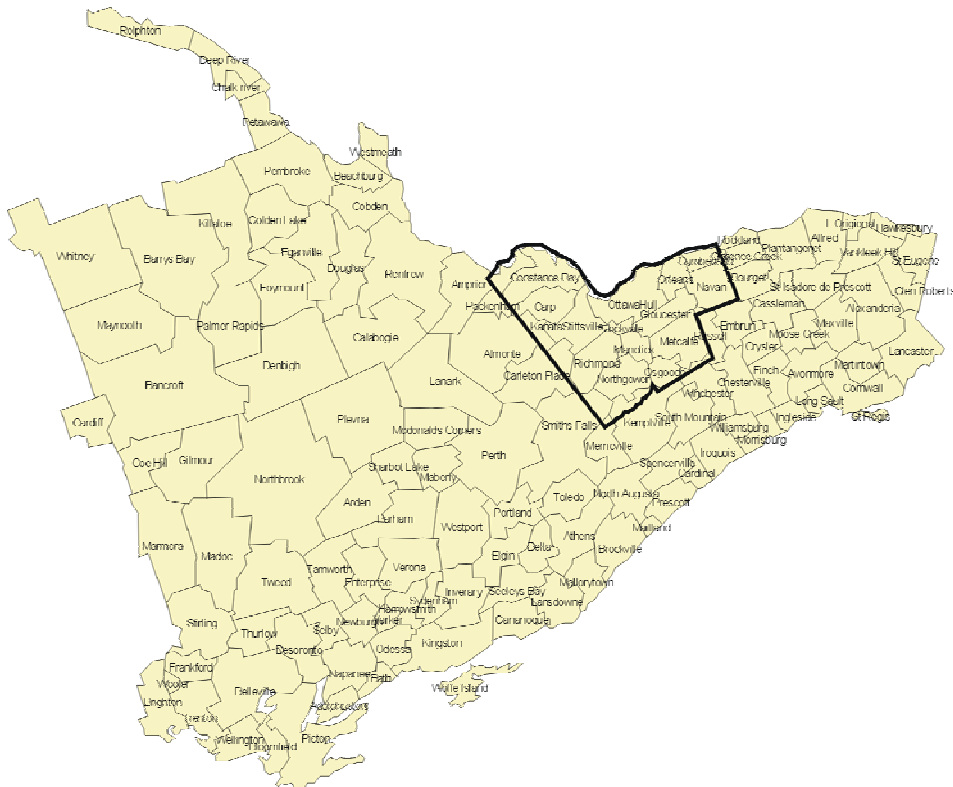
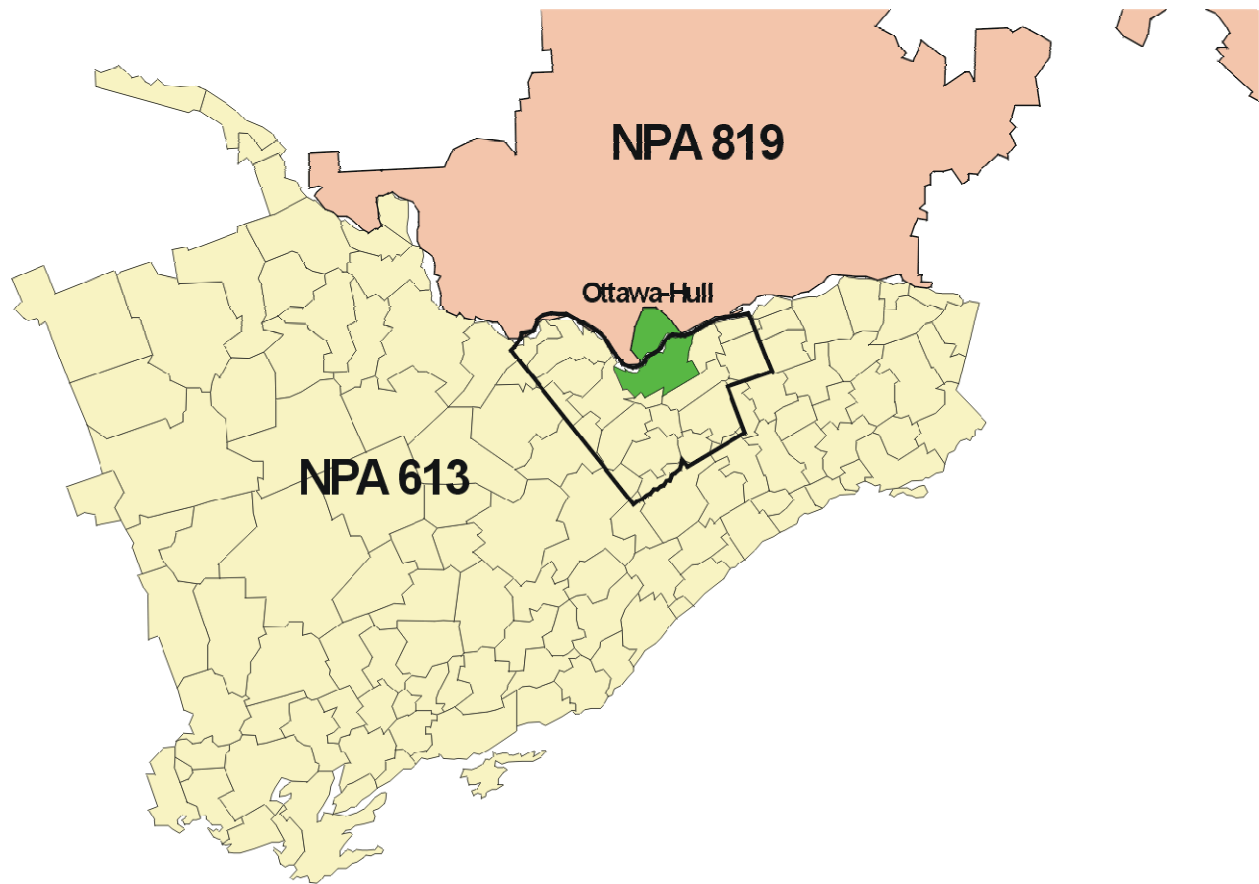
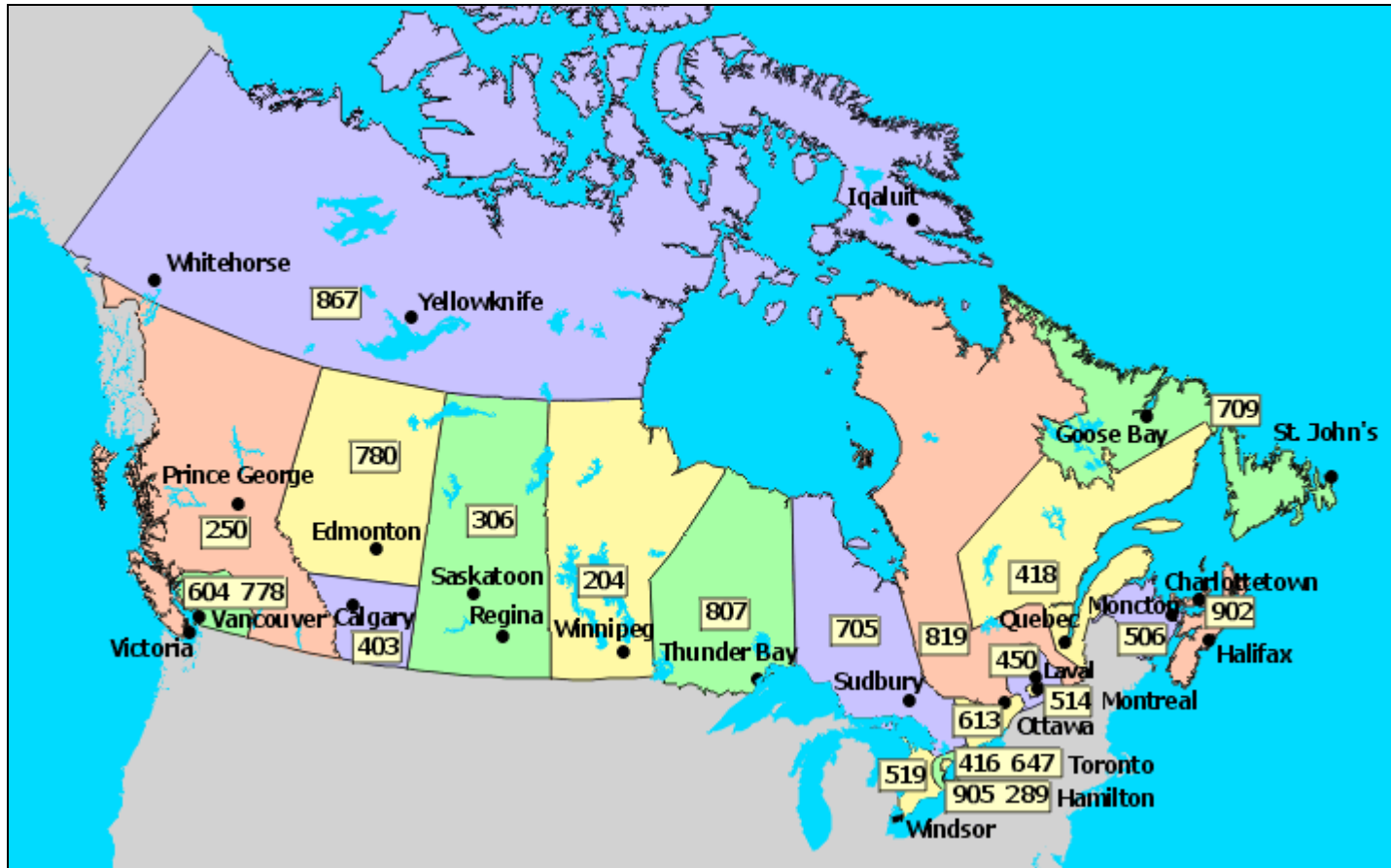


Figure 9 NPA 613 Distributed Overlay



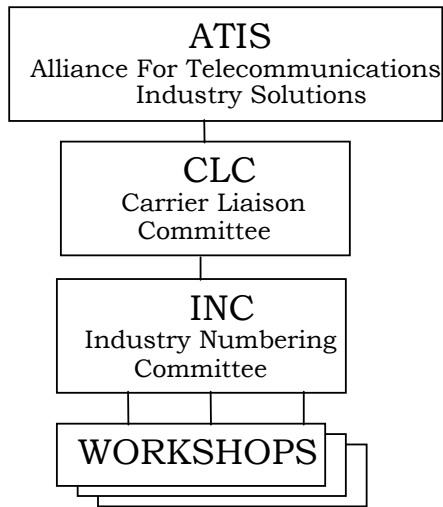
[Figure 10 NPA 613/819 Ottawa-Hull Exchange Concentrated Overlay](#)



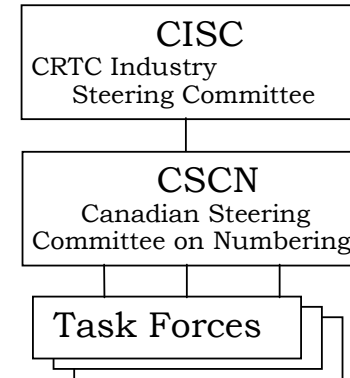
[Appendix 1 Canadian Geographic NPAs](#)

Industry Fora

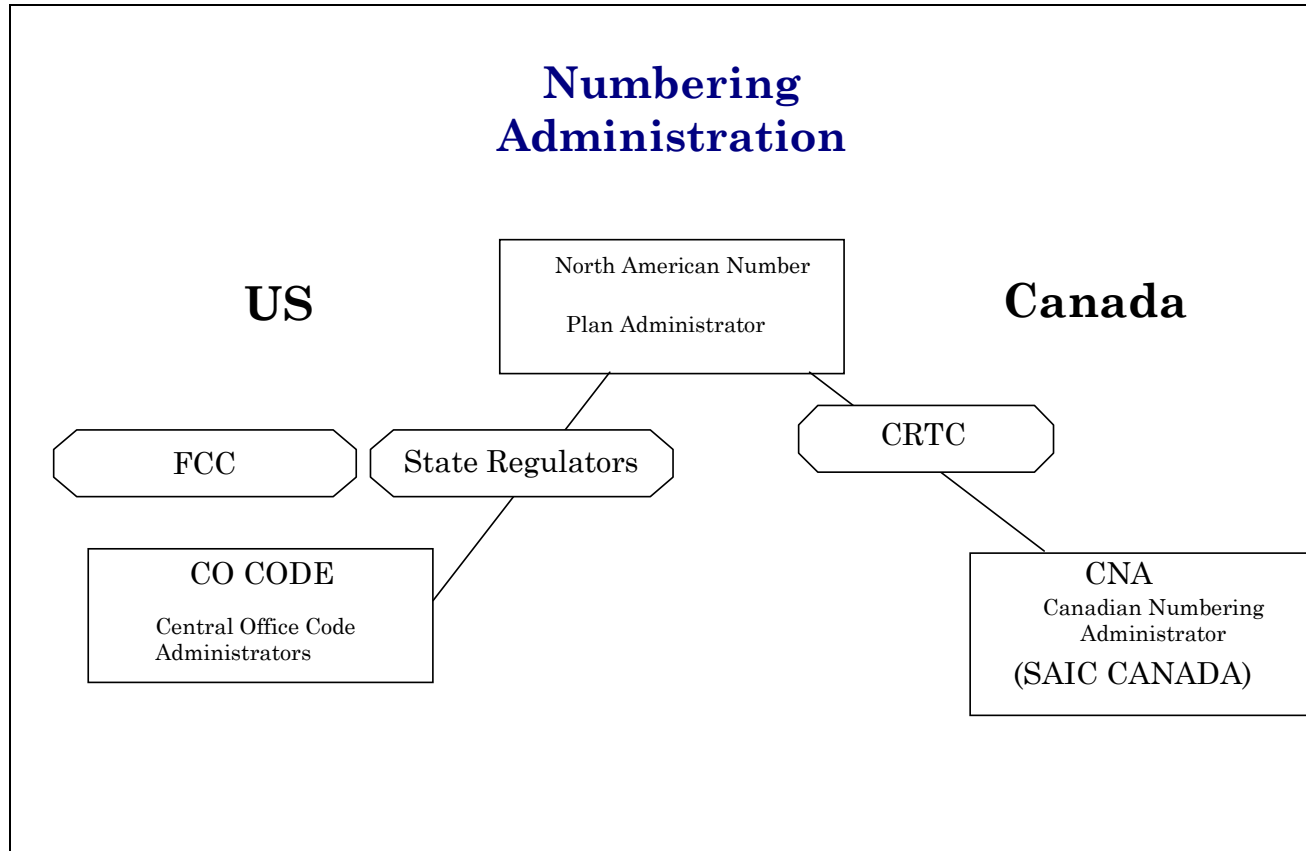
NANP



CANADIAN



[Appendix 2 Industry Fora](#)



[Appendix 3 Numbering Administration](#)

The *NPA Code Relief Planning & Notification Guidelines* may be obtained from the CNA website at http://www.cnac.ca/numres/npa_relief/97040416.doc. **Double-click on the object below to open and view this document.**



Alliance for Telecommunications
Industry Solutions



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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