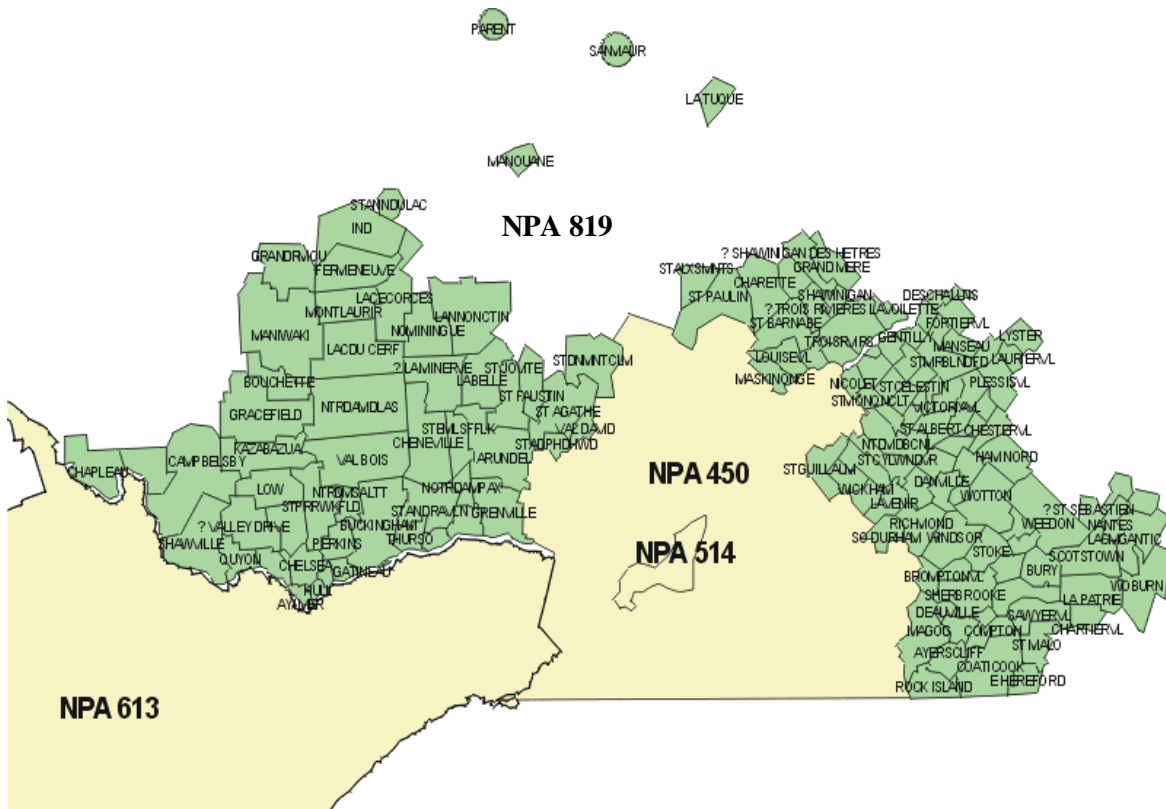


Planning Document NPA 819 Numbering Relief

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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Planning Document NPA 819 Numbering Relief

1. EXECUTIVE SUMMARY

Hull, located in NPA 819, and Ottawa, located in NPA 613, have the largest numbering demand in NPAs 819 and 613. 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 Hull-Ottawa. This circumstance is prematurely causing exhaust of both NPAs. This Initial Planning Document (IPD) identifies possible solutions for providing relief for the NPA 819 geographic area.

Based on the August 15, 2000 NPA 819 Relief Planning Central Office Code Utilization Survey (R-COCUS), the existing 800 Central Office (CO) Codes, of which 759 are assignable, are forecast to exhaust in January 2005 if the protection of CO Codes to maintain 7-digit dialing between the Hull-Ottawa free calling areas of NPAs 819 and 613 is retained. The exhaust of NPA 819 will be deferred to 2Q 2024 if CO Code protection is removed.

The following alternatives were evaluated to delay the exhaust of NPA 819:

A. Eliminate CO Code Protection:

Introduce mandatory 10-digit dialing, as opposed to 7-digit dialing, thereby eliminating CO Code protection in NPAs 819 and 613.

B. Introduce new NPA using the Concentrated Overlay method in the Hull and Ottawa Exchanges¹ of NPAs 819 and 613

This option assumes that Option A has already been implemented and that mandatory 10-digit dialing exists in this geographic area.

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

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.

1. 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 and the Ottawa Exchange in NPA 613.

The following is a comparison of the alternatives evaluated:

Description	Eliminate CO Code Protection in NPAs 819 & 613 (A)	NPAs 819 & 613 Hull - Ottawa Concentrated Exchange Overlay (B)
Exhaust – NPA 819	2024	2038
Exhaust – NPA 613	2008	2012
Exhaust –New NPA		2028
Approximate Number Changes Required	Nil	Nil
Dialing Impact	10D	10D
Permissive Dialing	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 819 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

NPA 819 consists of 213 Exchanges serving mainly Hull, Drummondville, Gatineau, Shawinigan, Sherbrooke, Trois Rivières, Victoriaville and surrounding communities in the Canadian province of Quebec. The Exchanges serving the Hull area in NPA 819 have free calling with some of the Exchanges serving the Ottawa-Carleton area in NPA 613. In order to retain 7-digit dialing for local calling between the exchanges of these two NPAs, CO Codes has been protected within each NPA.

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.

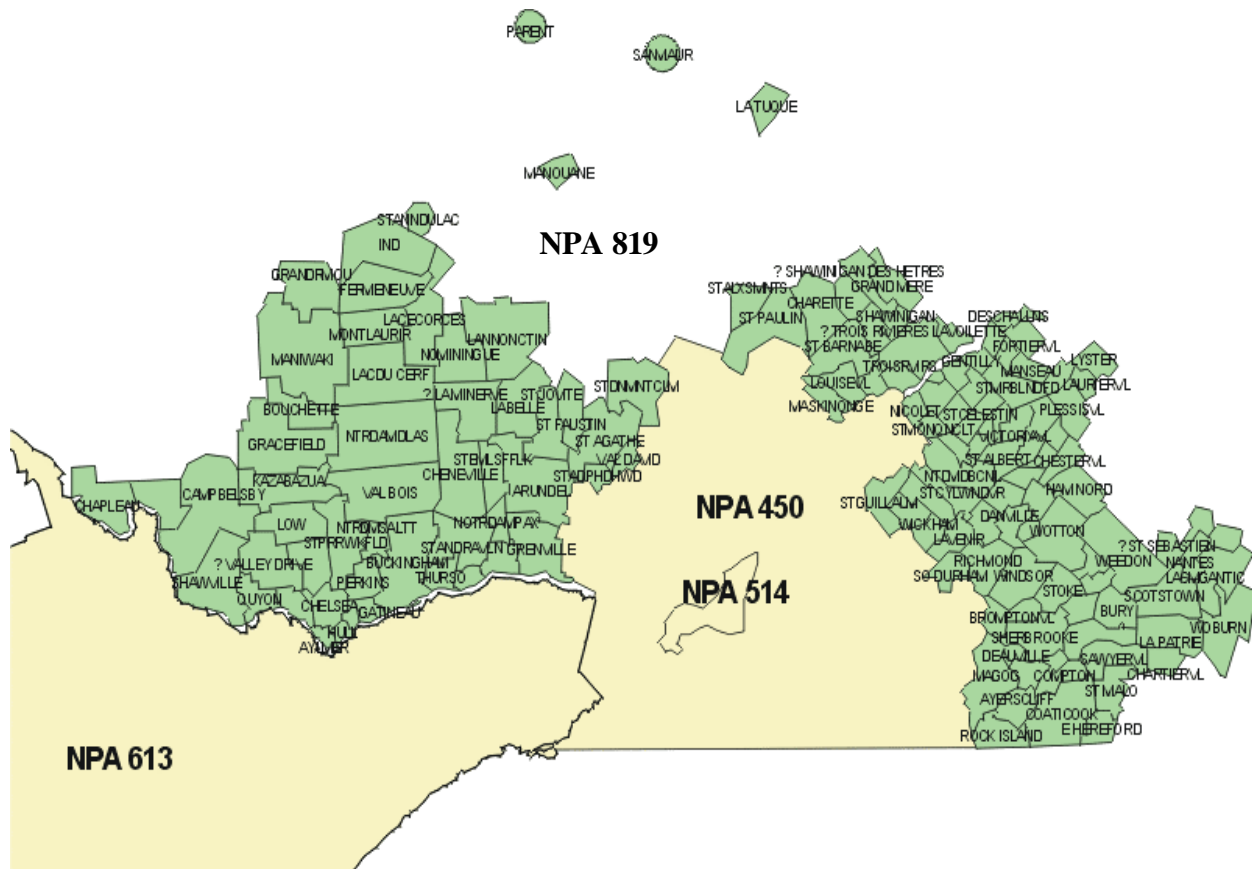
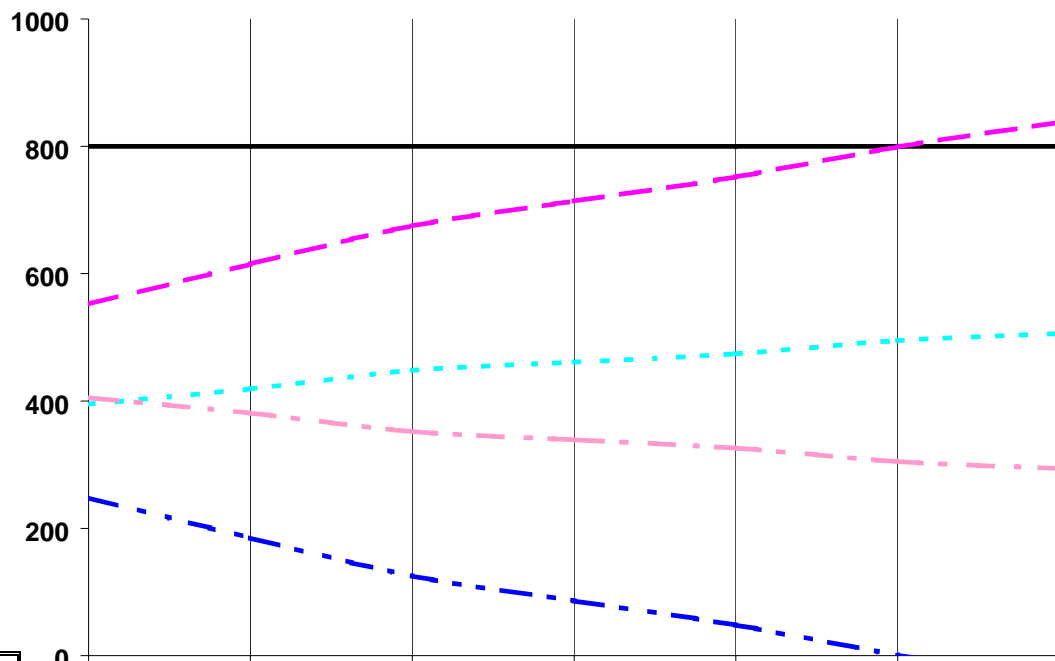


Figure 1 Existing NPA 819

3. CENTRAL OFFICE CODE EXHAUST

All CO Codes in NPA 819 are expected to exhaust in January 2005. 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, the granting of Personal Communications Services (PCS) licenses for the introduction of PCS service in 1996, and the requirement for CO Code protection, have all contributed to the earlier than expected requirement for relief of NPA 819. The following graph is based on results from the August 15, 2000 R-COCUS and represents the rate of CO Code utilization in NPA 819.



Year (January)	2000	2001	2002	2003	2004	2005	2006
— NPA Capacity	800	800	800	800	800	800	800
- - - COCUS with Protection	552	615	675	714	752	799	838
..... COCUS no Protection	395	419	448	461	474	495	506
- . - . NXX Availability no Protection	405	381	352	339	326	305	294
- - - NXX Availability with Protection	248	185	125	86	48	1	-38

Figure 2 NPA 819 CO Code Exhaust Protection August 2000 R - COCUS

With Protected CO Codes



Without Protected CO Codes



[Figure 3 NPA 819 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 819 and 613.

4. CODE RELIEF METHODS

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

A. Concentrated Overlay over parts of the two NPAs.

4.1. Overlay

4.1.1. 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 considered introduction of the Concentrated Overlay strategy in part of the geographic area that is served by two contiguous NPAs.

4.1.2. 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. *Eliminate CO Code Protection in NPAs 819 & 613 (A)*

Introduce mandatory 10-digit dialing, as opposed to 7-digit dialing, thereby eliminating CO Code protection in NPAs 819 and 613. Relief to NPA 819 is expected to last until year 2024.

5.2. *NPAs 819 & 613 Hull-Ottawa Concentrated Exchange Overlay (B)*

This option assumes that mandatory 10-digit dialing exists in this geographic area.

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

The 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 819 and NPA 613, the following table reflects the dialing arrangement for Local calls only.

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

Overlay (Concentrated)	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 819 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	¾		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 819 Exhaust Date With Protected Codes **January 2005**

NPA 819 Exhaust Date With Protected Codes **June 2024**

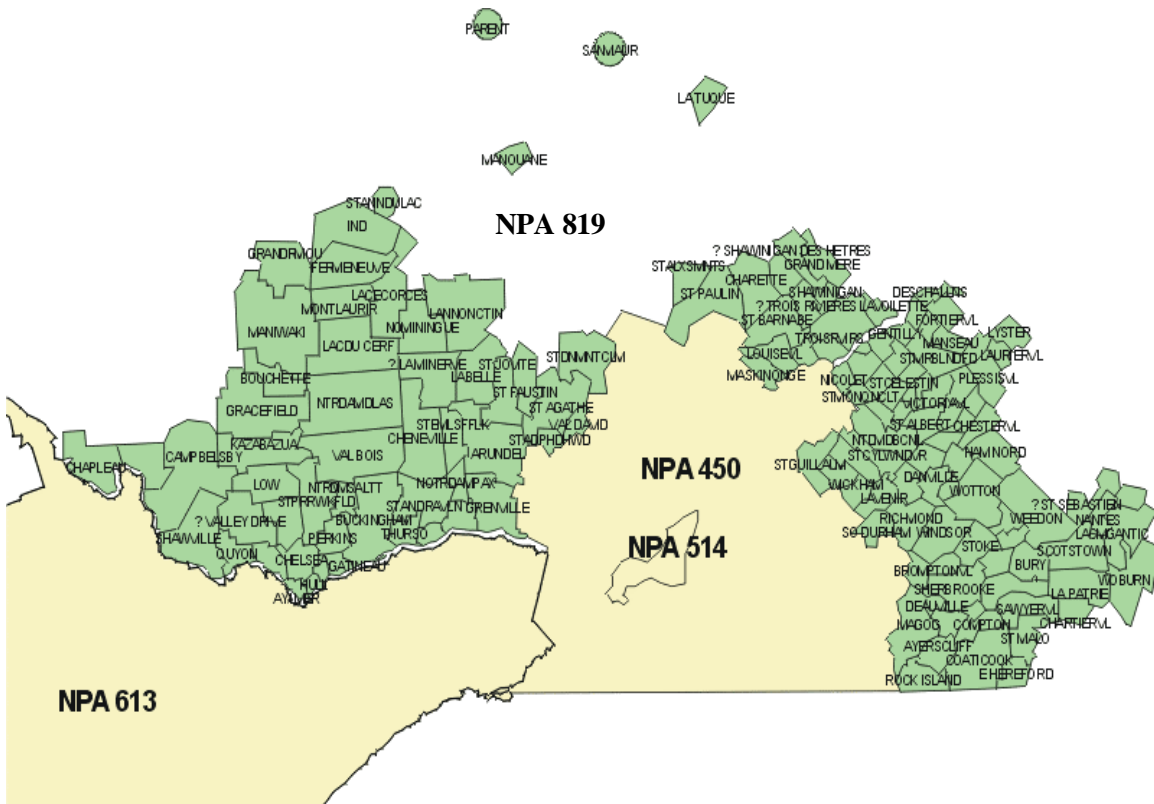


Figure 4 NPA 819 Boundaries

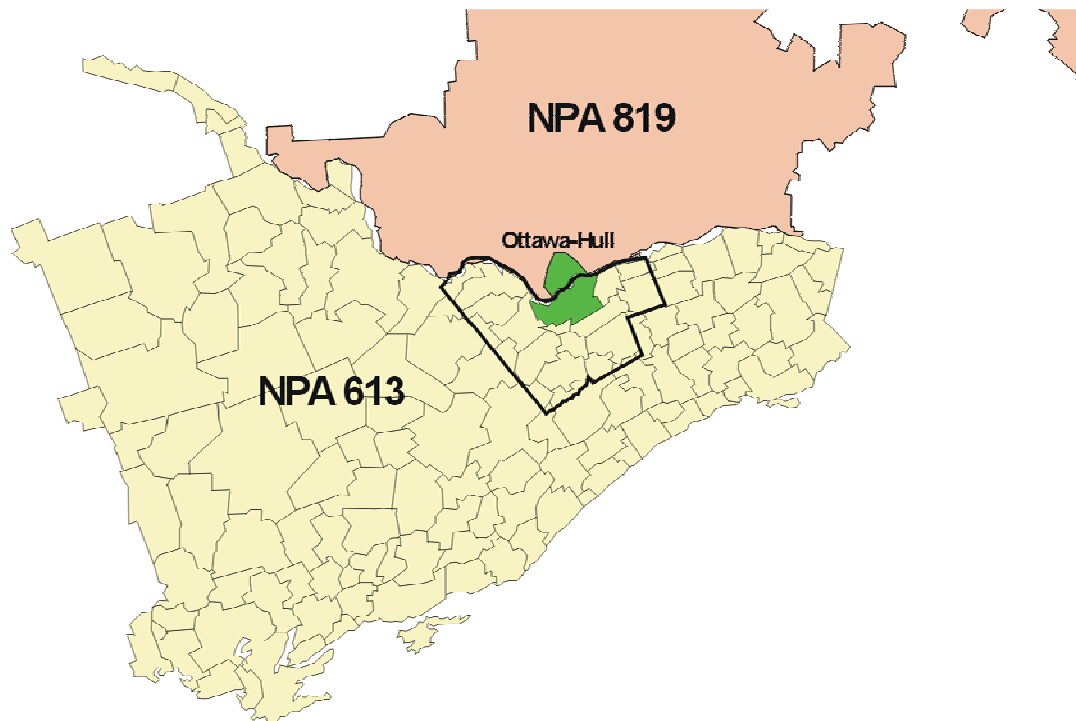


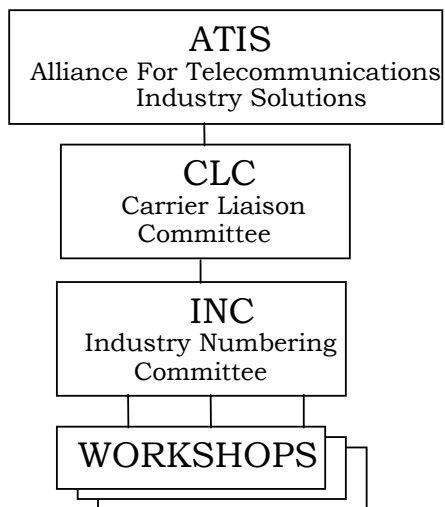
Figure 5 NPA 819/613 Ottawa-Hull Exchange Concentrated Overlay



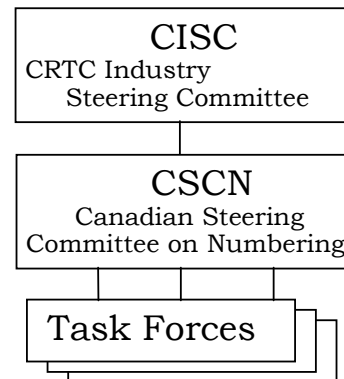
[Appendix 1 Canadian Geographic NPAs](#)

Industry Fora

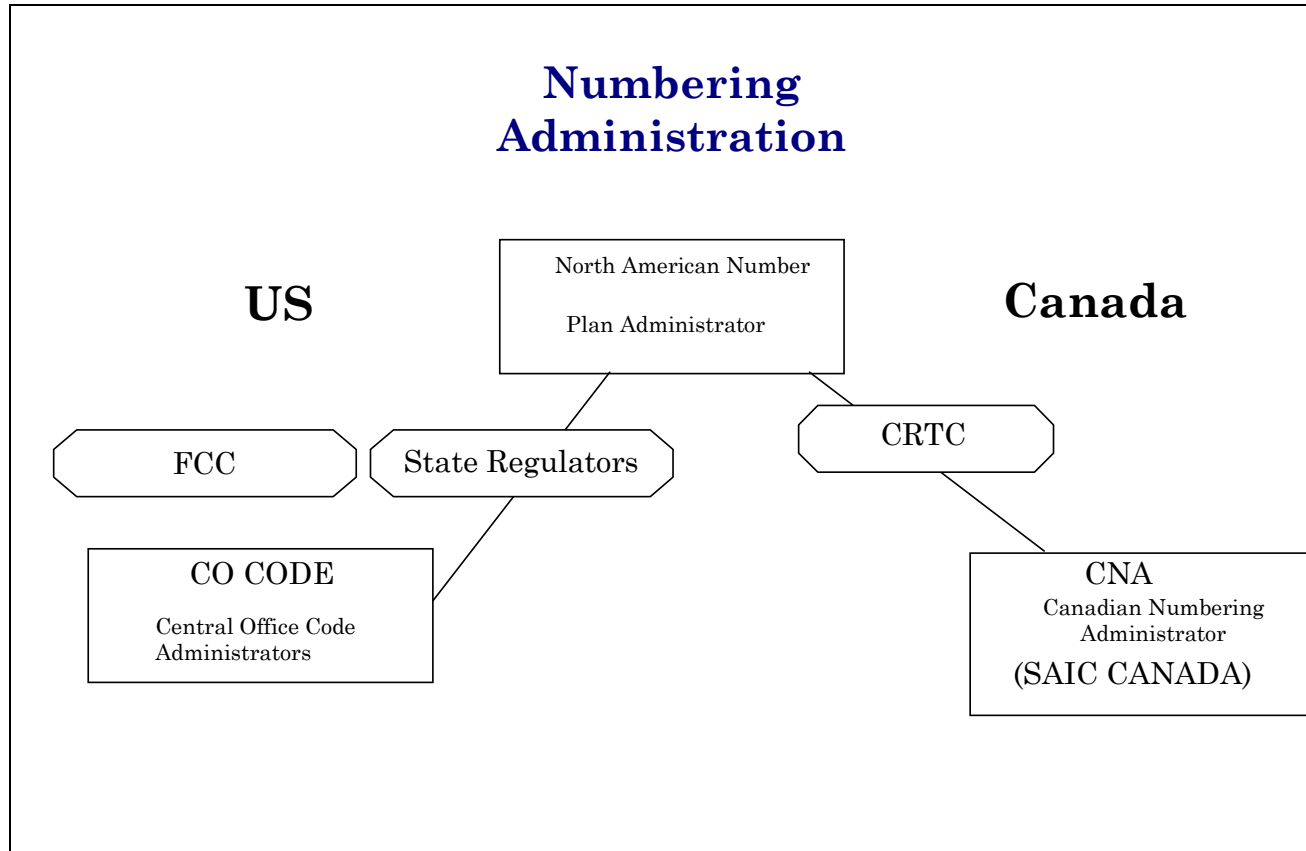
NANP



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.**



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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](#)

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