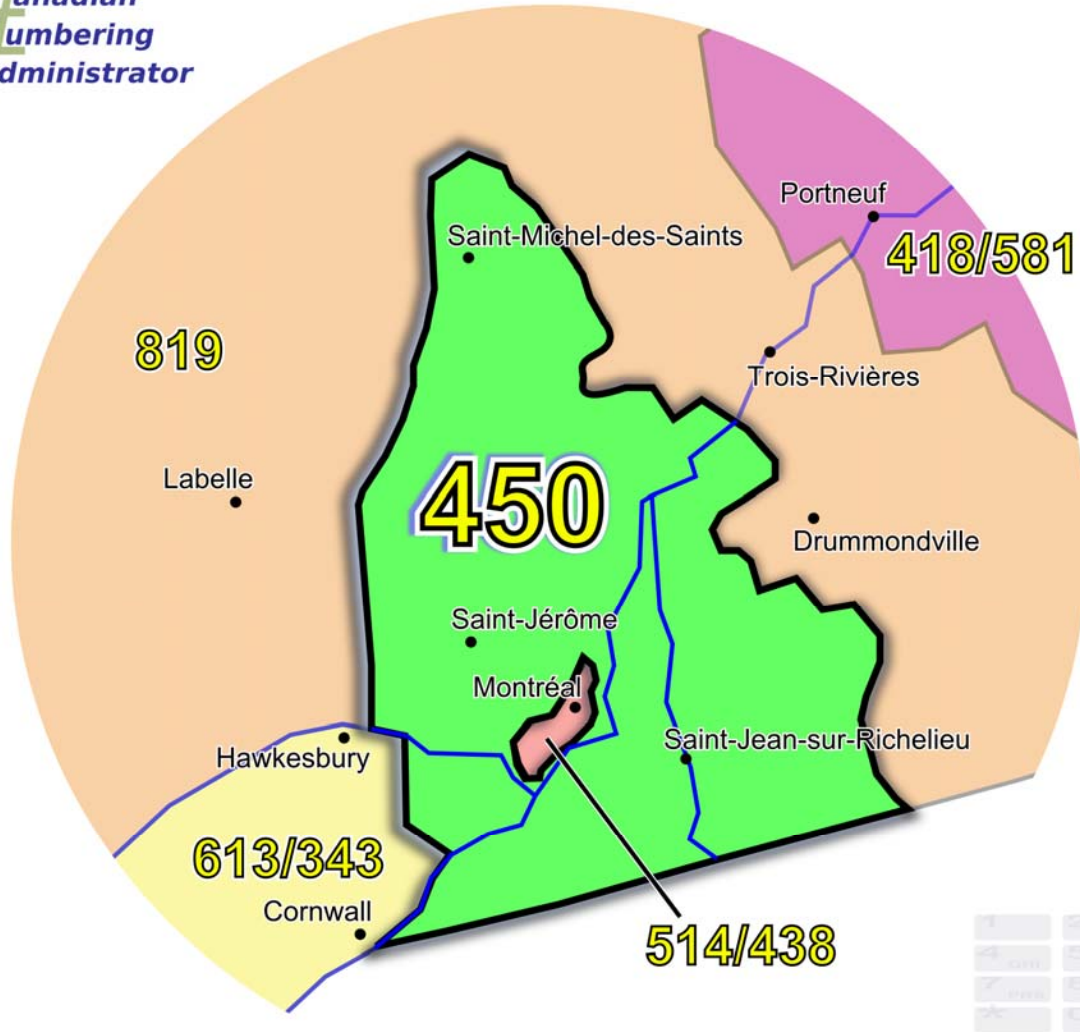


# Annexes

## Initial Planning Document

### NPA 450 Numbering Relief



February 11, 2009

Canadian Numbering Administrator (CNA)  
Suresh Khare  
613-563-7242-315  
60 Queen Street, Suite 1516  
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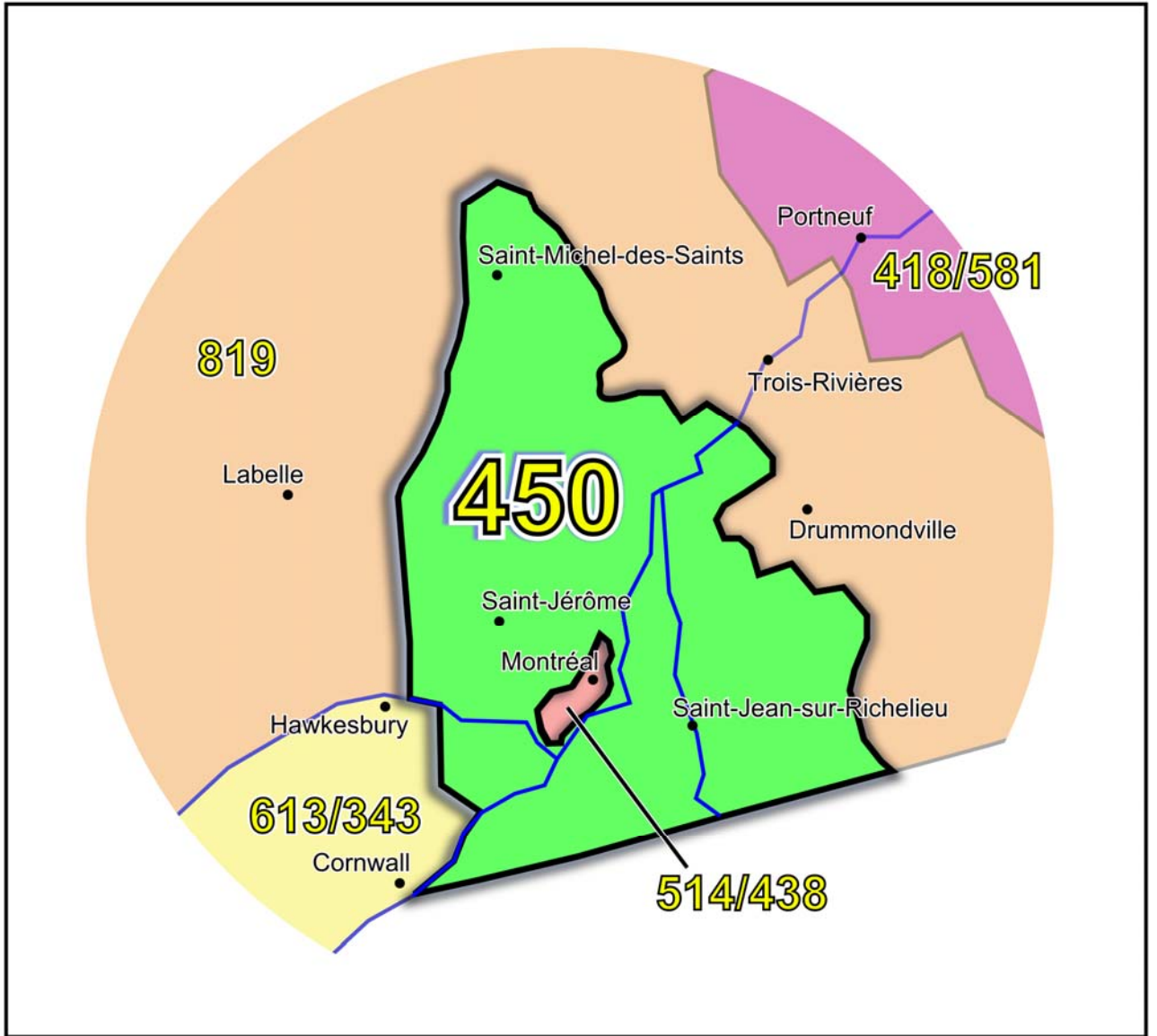
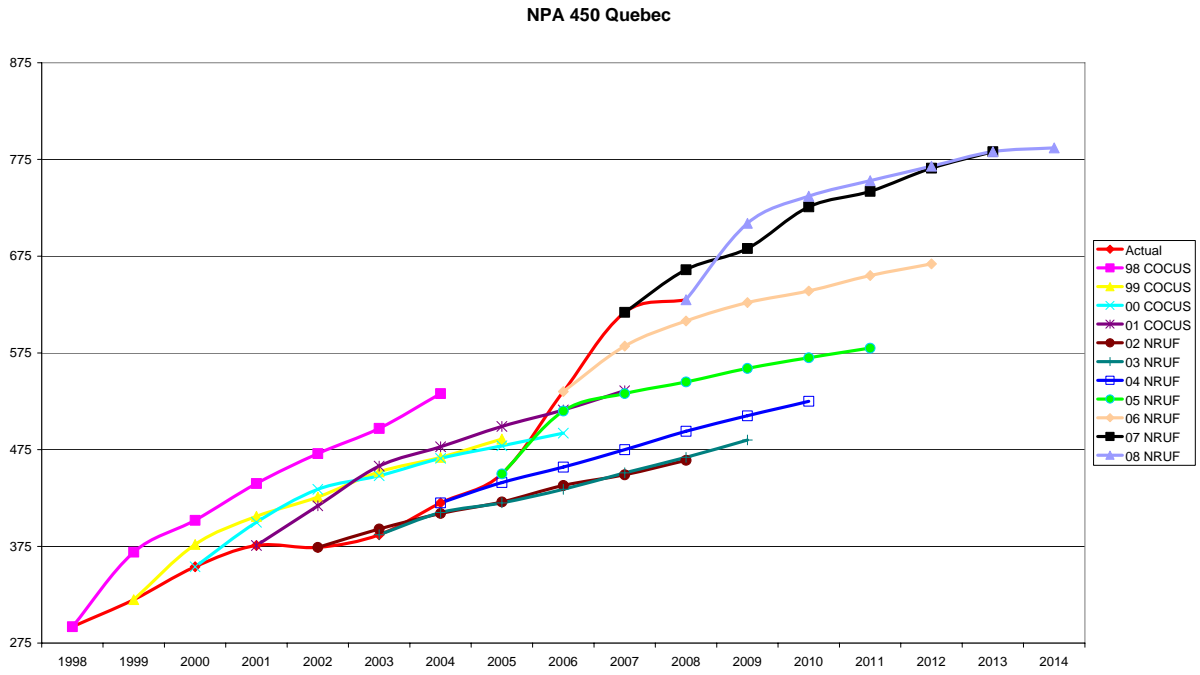
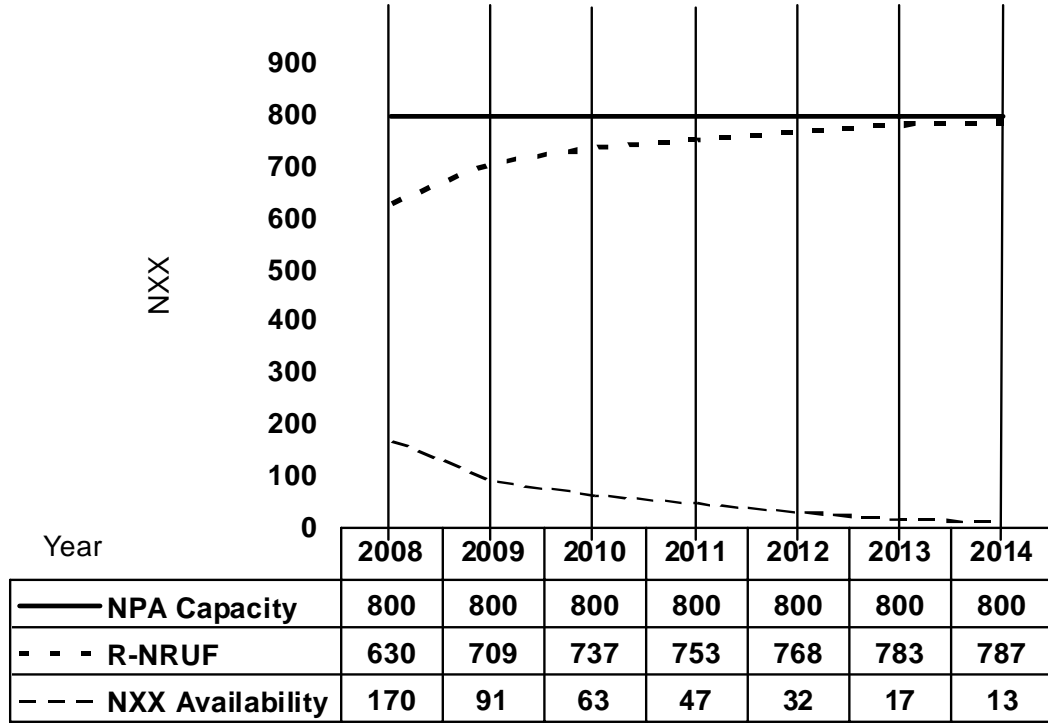


Figure 1 - Overview of NPA 450 and Adjacent NPAs



**Figure 2 - NPA 450 Actual and Forecast CO Code Assignments**

**NPA 450 CO Code Exhaust January 2008 R-NRUF**



**Figure 3 - NPA 450 CO Code Exhaust January 2008 R-NRUF**

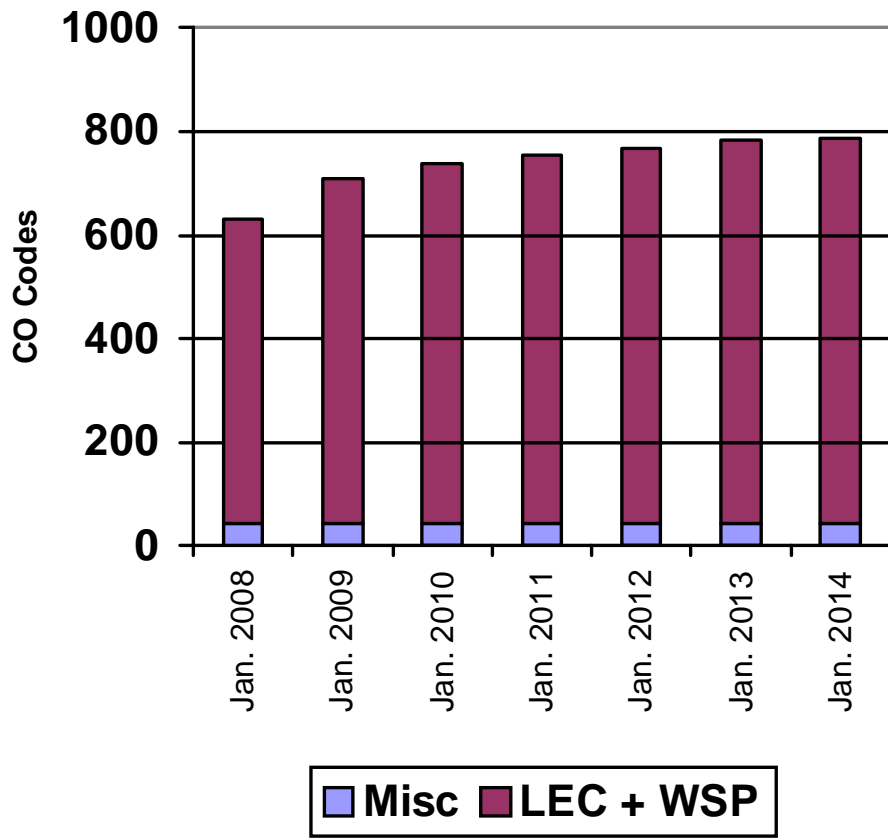


Figure 4 - NPA 450 CO Code Exhaust January 2008 R-NRUF

### NPA 450 CO Code Exhaust July 2008 R-NRUF

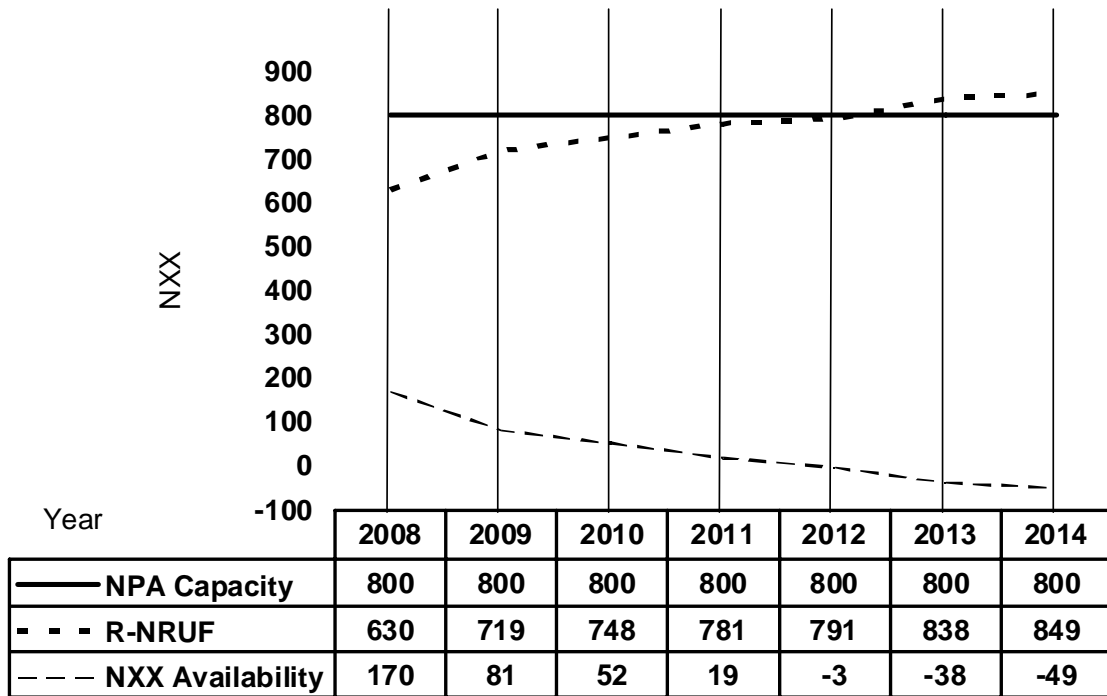


Figure 5 - NPA 450 CO Code Exhaust July 2008 R-NRUF

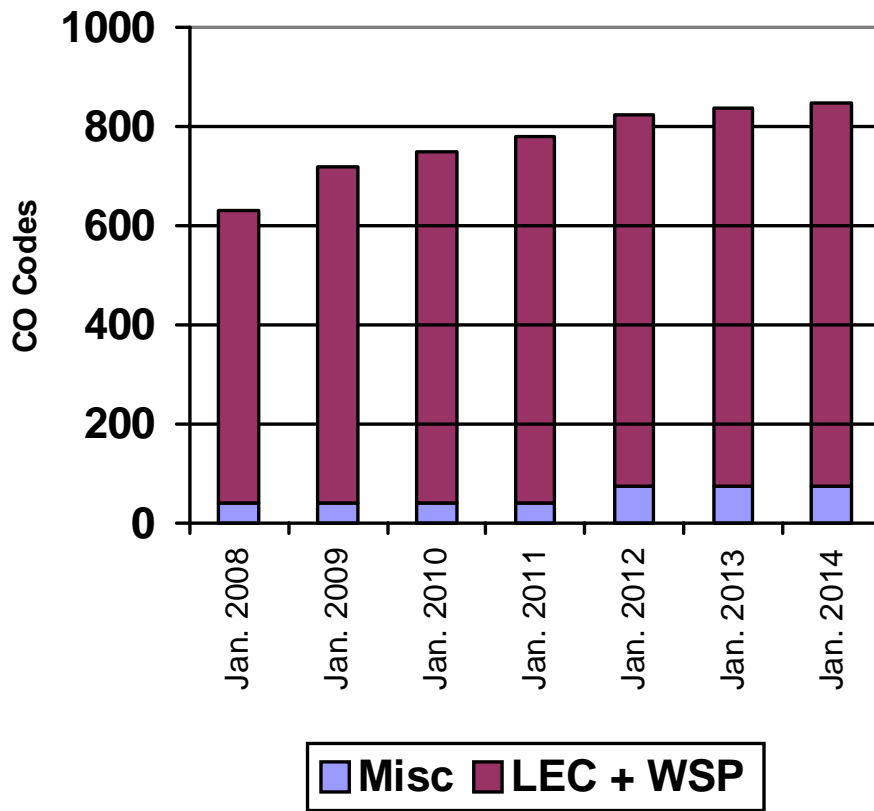
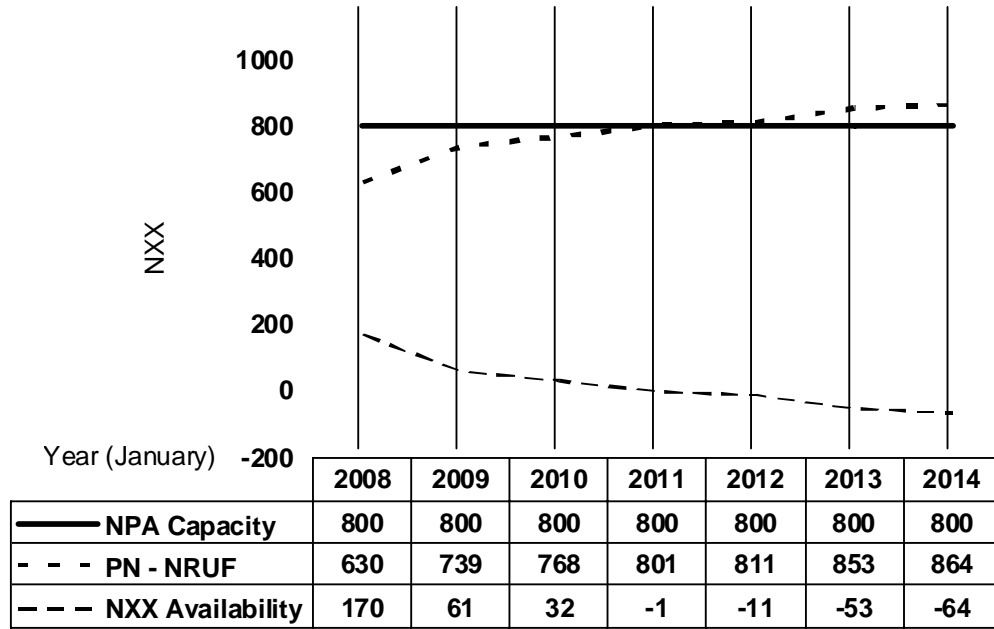


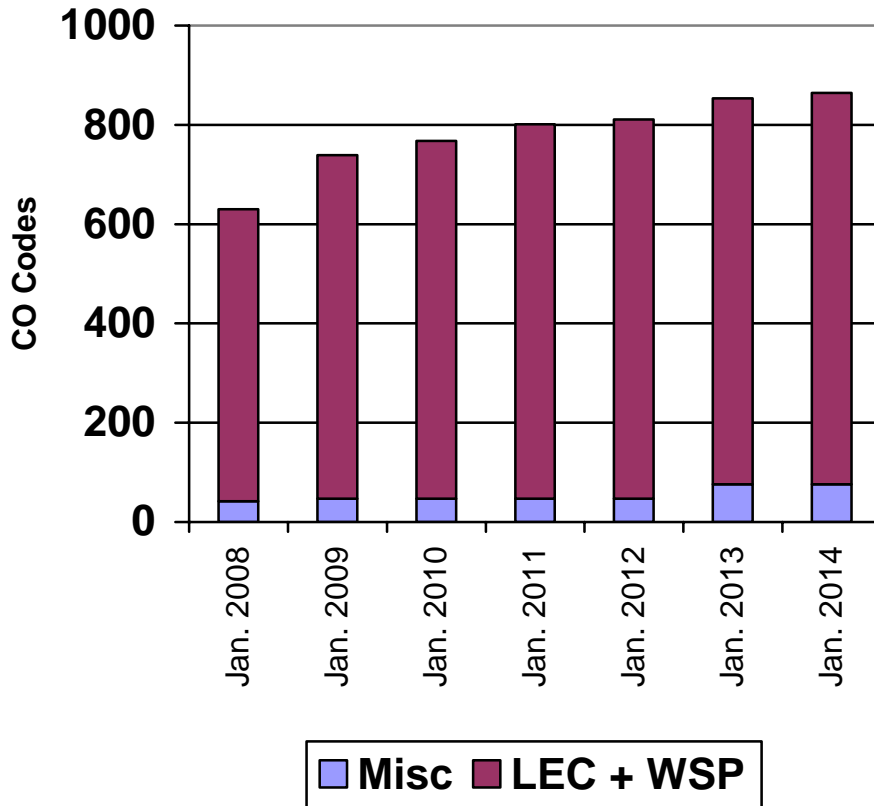
Figure 6 - NPA 450 CO Code Exhaust July 2008 R-NRUF

**NPA 450 CO Code Exhaust as at 4 November 2008**

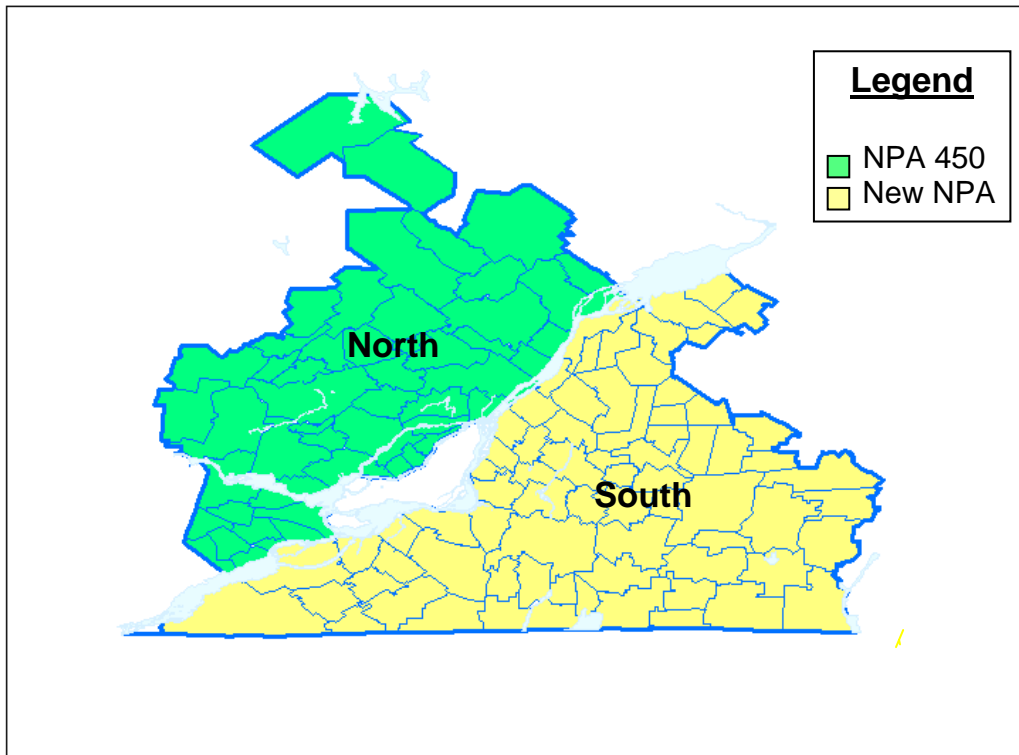


**Figure 7 - NPA 450 CO Code Exhaust after release of Telecom Public Notice CRTC 2008-17 and 4 November 2008 CRTC Staff Opinion concerning additional July 2008 R-NRUF data**





**Figure 8 - NPA 450 CO Code Exhaust after release of Telecom Public Notice CRTC 2008-17 and 4 November 2008 CRTC Staff Opinion concerning additional July 2008 R-NRUF data**



**Figure 9 - Plan 1a: Split - St Lawrence River as the boundary (North retains NPA 450)**













































	Plan 7	Plan 8
Exchange Area	NPA 438 Boundary Realignment	Distributed Overlay
Chambly	✓	✓
Châteauguay	✓	✓
Chomedey	✓	✓
Clarenceville	✓	✓
Contrecoeur	✓	✓
Côteau-du-Lac	✓	✓
Côteau-Landing	✓	✓
Cowansville	✓	✓
Crabtree	✓	✓
Dunham	✓	✓
Eastman	✓	✓
Farnham	✓	✓
Franklin Centre	✓	✓
Frelighsburg	✓	✓
Granby	✓	✓
Hemmingford	✓	✓
Henryville	✓	✓
Howick	✓	✓
Hudson	✓	✓
Huntingdon	✓	✓
Joliette	✓	✓
Knowlton	✓	✓
Lachute	✓	✓
Lacolle	✓	✓
Lanoraie	✓	✓
Laprairie	✓	✓
Laval-Est	✓	✓
Laval-Ouest	✓	✓
Lavaltrie	✓	✓
Lawrenceville	✓	✓
Le Gardeur	✓	✓
L'Épiphanie-l'Assomption	✓	✓
Les Cèdres	✓	✓
Longueuil	✓	✓
Mansonville	✓	✓
Marieville	✓	✓
Mascouche	✓	✓
Mirabel-Aéroport	✓	✓
Mirabel-St-Augustin	✓	✓
Mirabel-Ste-Scholastique	✓	✓
Morin Heights	✓	✓
Napierville	✓	✓
Notre-Dame-de-Stanbridge	✓	✓
Oka	✓	✓
Ormstown	✓	✓

	Plan 7	Plan 8
Exchange Area	NPA 438 Boundary Realignment	Distributed Overlay
Pierreville	✓	✓
Pont-Viau	✓	✓
Rawdon	✓	✓
Rigaud	✓	✓
Rivière-Beaudette	✓	✓
Roxton Falls	✓	✓
Shawbridge	✓	✓
Sorel	✓	✓
St-Aimé	✓	✓
St-Alphonse-de-Rodriguez	✓	✓
St-André-Est	✓	✓
St-Barthélémy	✓	✓
St-Blaise	✓	✓
St-Bruno	✓	✓
St-Calixte-de-Kilkenny	✓	✓
St-Césaire	✓	✓
St-Chrysostôme	✓	✓
St-Clet	✓	✓
St-Constant	✓	✓
St-Damase	✓	✓
St-Denis	✓	✓
Ste-Adèle	✓	✓
Ste-Anne-des-Plaines	✓	✓
Ste-Hélène-de-Bagot	✓	✓
Ste-Julie-de-Verchères	✓	✓
Ste-Julienne	✓	✓
Ste-Justine-de-Newton	✓	✓
Ste-Madeleine	✓	✓
Ste-Marguerite	✓	✓
Ste-Marthe	✓	✓
Ste-Martine	✓	✓
Ste-Rosalie	✓	✓
Ste-Rose	✓	✓
Ste-Thérèse	✓	✓
St-Eustache	✓	✓
Ste-Victoire	✓	✓
St-Felix-de-Valois	✓	✓
St-Gabriel-de-Brandon	✓	✓
St-Hippolyte	✓	✓
St-Hugues	✓	✓
St-Hyacinthe	✓	✓
St-Jacques	✓	✓
St-Jean	✓	✓
St-Jean-de-Matha	✓	✓
St-Jérôme	✓	✓



	Plan 7	Plan 8
Exchange Area	NPA 438 Boundary Realignment	Distributed Overlay
St-Jude	✓	✓
St-Lambert	✓	✓
St-Liboire	✓	✓
St-Lin	✓	✓
St-Marc	✓	✓
St-Michel-des-Saints	✓	✓
St-Ours	✓	✓
St-Paul-d'Abbottsford	✓	✓
St-Pie	✓	✓
St-Pie-de-Guire	✓	✓
St-Polycarpe	✓	✓
St-Rémi	✓	✓
St-Sauveur	✓	✓
St-Simon	✓	✓
St-Thomas-d'Aquin	✓	✓
St-Vincent-de-Paul	✓	✓
St-Zénon	✓	✓
St-Zéphirin	✓	✓
Sutton	✓	✓
Terrebonne	✓	✓
Upton	✓	✓
Valcourt	✓	✓
Valleyfield	✓	✓
Varenes	✓	✓
Vaudreuil	✓	✓
Venise-en-Québec	✓	✓
Verchères	✓	✓
Waterloo	✓	✓
Yamaska	✓	✓

**Table 2 – Exchange Areas by LIR**

<b>LIR</b>	<b>Exchange Area</b>	<b>LIR</b>	<b>Exchange Area</b>	<b>LIR</b>	<b>Exchange Area</b>
LIR-PQ03	Brownsburg Lachute Morin Heights Shawbridge St-André-Est Ste-Adèle Ste-Marguerite St-Sauveur	LIR-PQ11	Bedford Clarenceville Farnham Hemmingford Henryville Lacolle Napierville St-Blaise St-Jean	LIR-17PQ	Actonvale St-Damase Ste-Madeleine St-Hyacinthe St-Pie
LIR-PQ04	Côteau-du-Lac Côteau-Landing Franklin Centre Hudson Huntingdon Les Cèdres Ormstown Rigaud Rivière-Beaudette St-Clet Ste-Justine-de-Newton Ste-Marthe St-Polycarpe Valleyfield Vaudreuil	LIR-PQ12	Beloeil Boucherville Chambly Laprairie Longueuil Marieville St-Bruno Ste-Julie-de-Verchères St-Lambert St-Marc Varennes Verchères	LIR-PQ18	Bromont Cowansville Dunham Eastman Frelighsburg Granby Knowlton Mansonville St-Césaire St-Paul-d’Abbottsford Sutton
LIR-PQ05	Mirabel-St-Augustin Mirabel-St-Scholastique Oka St-Eustache	LIR-PQ13	Mascouche Terrebonne	<b>Telebec Exchange Areas</b>	
LIR-PQ06	St-Calixte-de-Kilkenny St-Hippolyte St-Jérôme St-Lin	LIR-PQ14	Berthierville Crabtree Lanoraie L’Épiphanie- l’Assomption Lavaltrie Le Gardeur Rawdon	TB-RIL-7	Contrecoeur St-Aimé St-Ours Ste-Victoire
LIR-PQ07	Mirabel-Aéroport Ste-Anne-des-Plaines Ste-Thérèse	LIR-PQ15	Joliette St-Alphonse-de-Rodriguez St-Barthélémy Ste-Julienne St-Félix-de-Valois St-Gabriel-de-Brandon St-Jacques St-Jean-de-Matha St-Michel-des-Saints St-Zénon	TB-RIL-8	St-Thomas-d’Aquin St-Jude St-Hugues Ste-Hélène-de-Bagot St-Simon
LIR-PQ08	Chomedey Laval-Est Laval-Ouest Pont-Viau Ste-Rose St-Vincent-de-Paul	LIR-PQ16	Pierreville Sorel St-Denis St-Pie-de-Guire St-Zéphirin Yamaska	TB-RIL-9	Notre-Dame-de-Stanbridge Venise-en-Québec
LIR-PQ10	Beauharnois Châteauguay Howick St-Chrysostôme St-Constant Ste-Martine St-Rémi			<b>Independent Exchange Areas not in an LIR</b>	
					Baie-du-Fèvre Lawrenceville Roxton Falls St-Liboire Ste-Rosalie Upton Valcourt

**Table 3– Status in NPA 450 and Adjacent NPAs of NXXs that correspond to Future Canadian Geographic NPAs**

Home NPAs & neighbouring NPAs		NXXs corresponding to NPAs																														Notes				
		Future Canadian NPAs (forecast to be needed for NPAs exhausting within 20 years)																																		
		236	249	257	263	273	354	365	367	368	382	387	428	431	437	460	468	474	487	537	548	568	579	584	639	672	683	742	753	825	851		871	873	879	942
343	ON	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Z	A	A	A	A	Z	Z	A	A	A	A	A	A	A	A	Z	Z	A	A		
438	PQ	A	A	A	Z	A	A	A	S	A	A	A	A	Z	Z	Z	Z	Z	A	Z	Z	A	Z	Z	A	Z	Z	Z	A	A	A	A	A	A		
450	PQ	S	Z	Z	S	Z	Z	Z	Z	S	Z	Z	Z	S	S	S	S	Z	S	S	S	Z	S	Z	S	Z	S	S	S	Z	Z	Z	Z	Z		
514	PQ	S	S	S	Z	S	S	S	S	S	S	S	Z	Z	Z	Z	Z	S	Z	Z	S	Z	Z	S	Z	S	Z	Z	S	S	S	S	S	S		
613	ON	S	S	S	S	S	S	AJ	AJ	S	S	S	AJ	AJ	AJ	AJ	Z	S	S	S	S	Z	Z	S	S	AJ	S	S	AJ	S	S	Z	Z	AJ	AJ	
819	PQ	A	Z	Z	S	Z	S	S	S	Z	S	Z	S	Z	S	Z	S	Z	S	S	S	Z	Z	S	S	S	Z	S	S	Z	Z	Z	S	Z		
Tot	S,A,AJ	6	4	4	4	4	5	5	5	5	4	5	3	4	4	1	4	4	4	4	4	0	3	5	4	5	3	4	6	4	2	2	5	4	135	
	Z	0	2	2	2	2	1	1	1	1	1	2	1	3	2	2	5	2	2	2	2	6	3	1	2	1	3	2	0	2	4	4	1	2	69	
	R	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

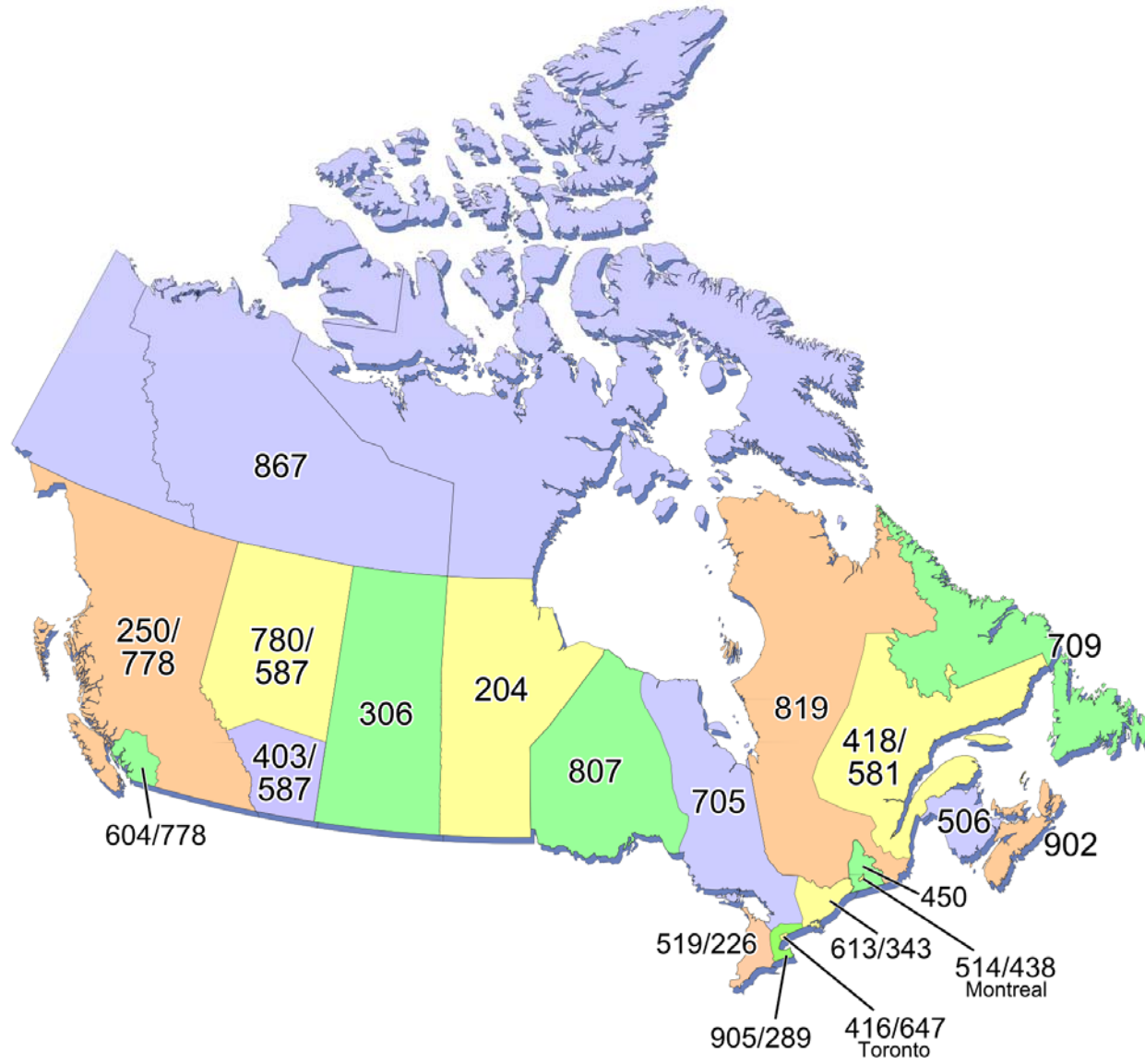
NXXs in Home NPA that correspond to NPAs in the future Canadian NPA Pool and are designated "Not Available for Assignment"		249	257	273	354	365	367	382	387	428	487	579	639	683	851	871	873	879	942
--	--	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

NXXs in Home & Neighbouring Cdn NPAs that correspond to NPAs in the future Canadian NPA Pool and are designated "Not Available for Assignment"		579
--	--	-----

Qty of home + neighbouring NPAs	6
---------------------------------	---

- A** Available
- AJ** A in Jeopardy Condition only, and after 2010 relief (to be confirmed)
- S** In-service or Assigned
- Z** Not Available

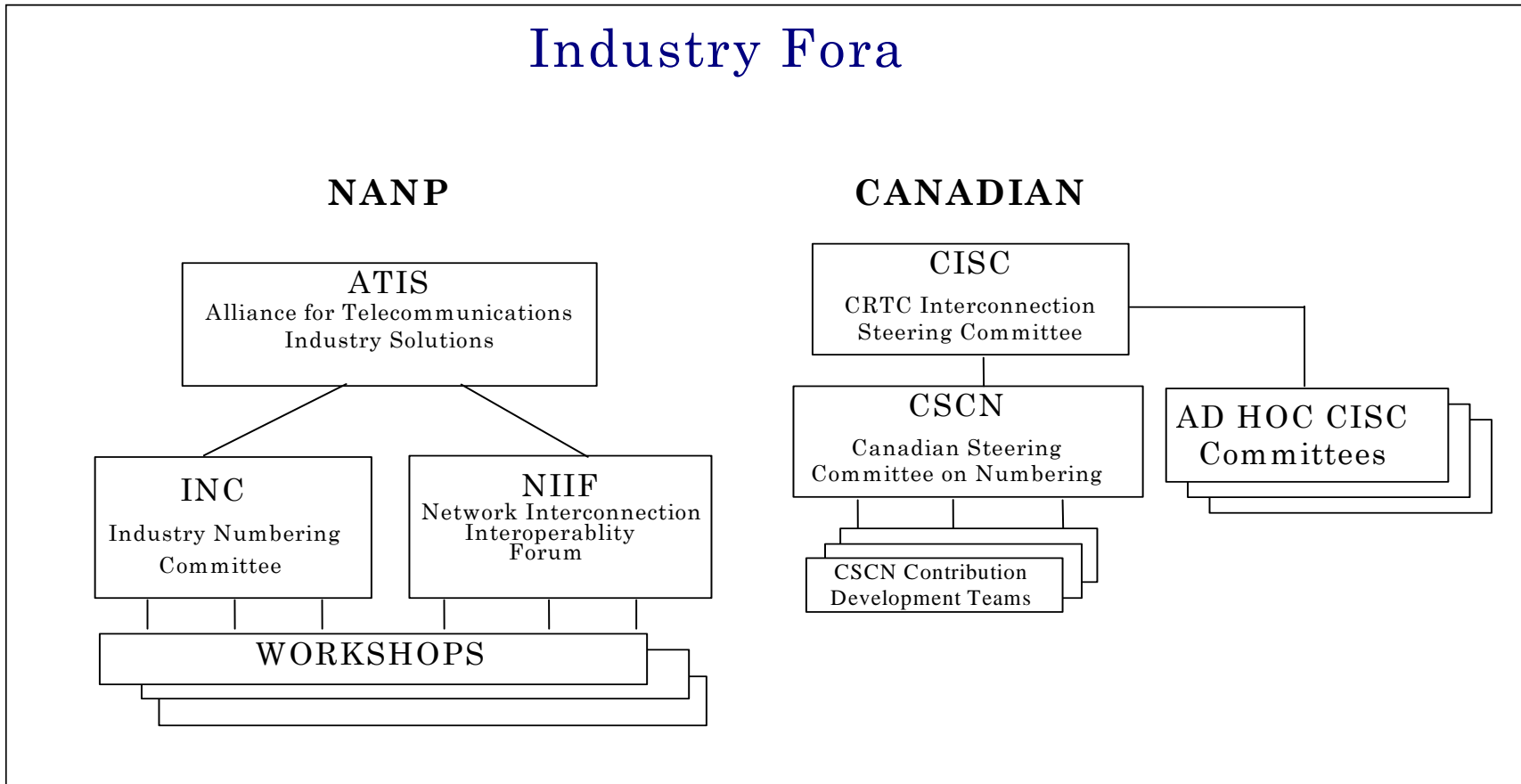
### Canadian Geographic NPAs



The following is a brief summary of Canadian geographic area code relief history:

- 1947 – AT&T assignment of 86 area codes (9 Canada, 77 continental USA) in format N(0/1)X-NNX-XXXX (where N = 2 to 9 and X = 0 to 9);
  - Ontario: 416, 613;
  - Québec: 514, 418;
  - New Brunswick, Nova Scotia, PEI, Newfoundland & Labrador: 902;
  - Manitoba: 204;
  - Saskatchewan: 306;
  - Alberta: 403;
  - British Columbia: 604
- 1953 - new area code 519 for Ontario split from parts of 416 & 613
- 1955 – new area code 506 split from 902 for New Brunswick & Newfoundland & Labrador (902 retained for Nova Scotia & PEI)
- 1957 - new area code 705 for Ontario split from parts of 613 and 519
- 1957 - new area code 819 for Québec split from parts of 514 & 418
- 1960 - Yukon & the southern & western parts of the Northwest Territories begin to interconnect and use Alberta 403 area code
- 1962 - new area code 709 for Newfoundland & Labrador split from 506 (506 retained by New Brunswick)
- 1962 - new area code 807 for Ontario split from 705; 416/705 boundary modified (Peterborough area moves into 705)
- 1973 – NANP CO Code format changes from NNX to NXX; NANP format becomes N(0 or 1)X – NXX – XXXX (Interchangeable CO Codes); first NPA to change is NPA 213 in California; other NPAs changed gradually until Interchangeable NPA Codes were introduced in 1995
- 1975 - Québec's 819 area code extended to include Bell Canada part of the Northwest Territories
- 1990 – First Canadian Interchangeable CO Codes implemented in NPA 416
- 1993 (Oct) - new area code 905 splits from 416: 416 retained for Toronto Ontario; 905 for areas surrounding Toronto
- 1995 – Area Code format changes from N(0/1)X to NXX (Interchangeable NPA Codes); NANP format becomes NXX – NXX – XXXX
- 1996 (Oct) - new area code 250 splits from 604 in BC; 604 for southwestern mainland BC including Vancouver; 250 for Vancouver Island and BC Mainland excluding Lower Mainland
- 1997 (Oct) – new area code 867 implemented for Yukon and Northwest Territories (including Nunavut) including northern parts of Alberta previously served by 403 and northern parts of Québec previously served by 819; 403 is made exclusive to Alberta ; 819 is made exclusive to Québec
- 1998 (June) - new area code 450 splits from 514 in Québec; 514 retained for Montreal area, 450 for area surrounding Montreal
- 1999 (Jan) - new area code 780 splits from 403 in Alberta; 780 for N. Alberta (Edmonton); 403 retained for S. Alberta (Calgary)
- 2001 (March) - new area code 647 overlay on 416 in Toronto Ontario; mandatory ten-digit local dialing implemented (first Canadian overlay)
- 2001 (June) - new area code 289 overlay on 905 surrounding Toronto Ontario; mandatory ten-digit local dialing implemented
- 2001 (Nov) - new area code 778 (Greater Vancouver Regional District, Abbotsford and Mission) concentrated overlay of part of 604 (Lower Mainland BC including Vancouver); remaining 604 NXXs retained for 604 area outside the concentrated overlay; mandatory ten-digit local dialing implemented in 604 & 778

- 2006 (Oct) – new area code 226 overlay of 519 S. W. Ontario; mandatory ten-digit local dialing implemented in 226 & 519
- 2006 (Oct) – mandatory ten-digit local dialing implemented in area codes 613 & 819
- 2006 (Nov) – new area code 438 overlay of 514 Montreal area; mandatory ten-digit local dialing implemented in area codes 438, 450 and 514
- 2007 (July) – new area code 778 concentrated overlay of 604 is extended to cover all of British Columbia (province-wide overlay) to provide relief for area code 250; remaining 604 CO Codes become assignable throughout 604 region
- 2008 (Sept) – new area code 581 overlay of 418 NE Québec area including Québec City; mandatory ten-digit local dialing implemented (mandatory ten-digit local dialing becomes universal in the Province of Québec)
- 2008 (Sept) – new area code 587 overlay of 403 and 780 to serve all of Alberta (province-wide overlay); mandatory ten-digit local dialing implemented (mandatory ten-digit local dialing becomes universal in the Province of Alberta)
- 2008 (Sept) – mandatory ten-digit local dialing implemented in 250 area in British Columbia (mandatory ten-digit local dialing becomes universal in the Province of British Columbia)
- 2010 (May) – new 343 overlay of 613 E Ontario including Ottawa
- Total Canadian Geographic NPAs in-service at May 2010 = 28

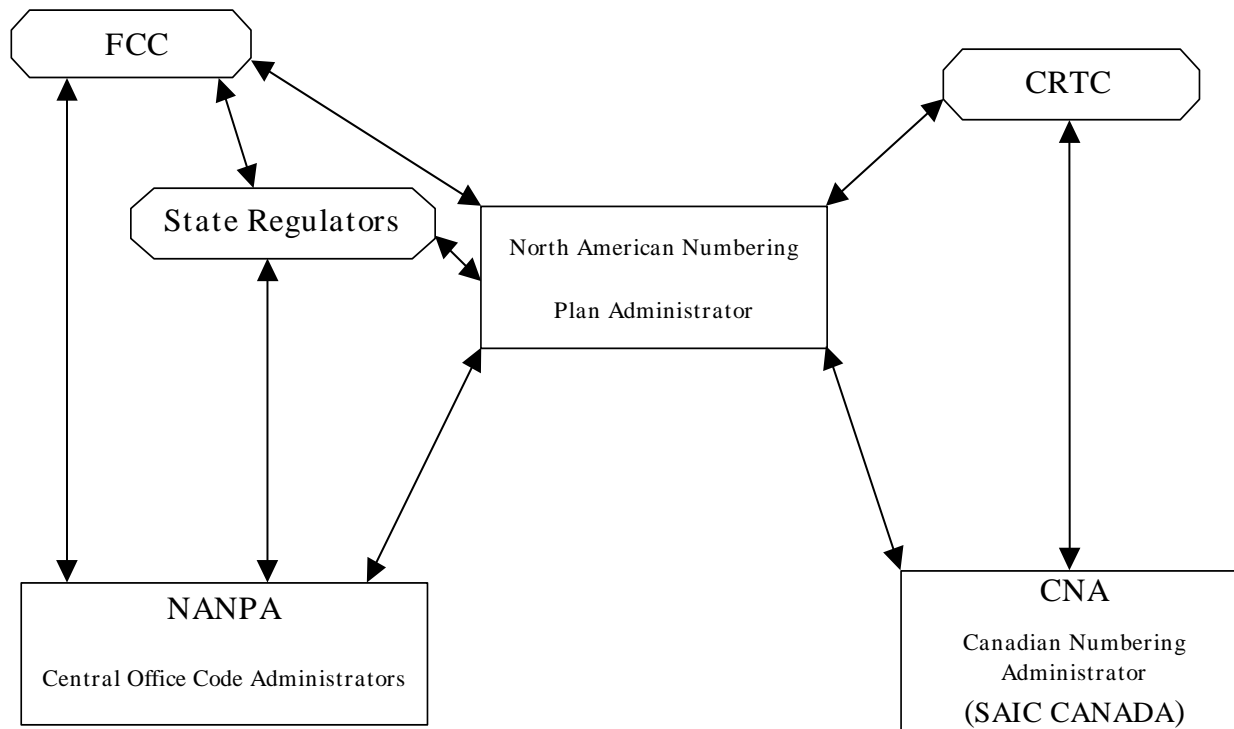


Industry Fora

# Numbering Administration

## United States

## Canada



Numbering Administration























