

Canadian Numbering Administrator Annual Report

January to December 2003

Glenn Pilley
Director, Canadian Numbering Administrator
1516- 60 Queen Street, Ottawa, Ontario
613-563-7242
pilleyg@saiccanada.com
www.cnac.ca

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Canadian Numbering Administration Consortium (CNAC)

The Canadian Numbering Administration Consortium Inc. (CNAC) was formed in 1998, under the regulatory authority of the CRTC, to oversee numbering administration activities in Canada. CNAC is an incorporated entity with a Board of Directors, and shares held by almost all Canadian Telecommunications Service Providers (TSPs). The primary function of CNAC is to oversee and fund the numbering administration activities of the Canadian Numbering Administrator (CNA).

Canadian Radio-television & Telecommunications Commission (CRTC) Industry Steering Committee (CISC)

The CISC is a committee comprised of various industry representatives that facilitates the implementation of Telecom Decision CRTC 97-8, Local Competition and related Commission decisions. The mandate of the CISC is to undertake tasks related to technological, administrative and operational issues on matters assigned by the CRTC or originated by the public, that fall within the CRTC's jurisdiction.

Canadian Steering Committee on Numbering (CSCN)

The CSCN is an open public forum established in 1991 to consider and resolve numbering resource issues. It became a subtending Working Group of the CRTC Industry Steering Committee (CISC) in 1998. In addition to the mandate defined in Appendix 1, Item 6, of the CISC Administrative Guidelines, the CSCN is responsible for:

- a) developing number planning and implementation strategies for the Canadian telecommunications industry;
- b) ensuring the equitable assignment of numbering resources in a competitive Canadian telecommunications industry environment;
- c) ensuring that adequate and appropriate numbering resources are always available for Canadian public telecommunications services and customers;
- d) ensuring that the administration of numbering resources does not confer an undue advantage upon any entity nor inhibit the timely introduction of new telecommunications services or competition in these services in Canada;
- e) ensuring the efficient, effective and equitable use of numbering resources in Canada including the assignment, administration, forecasting and conservation of these resources;
- f) providing input and support on Canadian numbering policies to the CRTC via the CISC process;
- g) promoting CISC agreed positions on numbering issues in North American telecommunications industry fora; and,

- h) recommending to the CRTC, via the CISC process, allocations of numbering resources for the Canadian telecommunications industry.

Canadian Numbering Administration (CNA) Organization

The CNA is a program business unit of Science Applications International Corporation (SAIC Canada), within the Information, Environmental and Engineering Solutions Division. The Program Director reports to Mr. Terry Jamieson, Vice President SAIC Canada. The CNA is located at 1516 – 60 Queen Street, Ottawa, Ontario.

The CNA's organizational structure is as follows:

- Director, Canadian Numbering Administrator (Glenn Pilley)

As the CNA Program Manager, the Director of the CNA has the overall responsibility for the operation of the Canadian Numbering Administration division. The Director of the CNA is also responsible for the following numbering administration functions:

- Administers in Canada, North American Numbering Plan Administrator (NANPA) and Telcordia administered resources;
 - Attends numbering fora meetings in Canada and the U.S. as needed;
 - Assists in Central Office (CO) Code Administration when required;
 - Chairs NPA Relief Planning Committee Meetings; and,
 - Acts as liaison with CNAC Board and Oversight Staff.
- Manager, Canadian CO Code Administration (Suresh Khare)

The CO Code Manager reports to the Director of the CNA and is responsible for the following functions:

- Manages the administration of CO Codes across Canada;
 - Acts as Numbering Plan Area (NPA) Code Relief Planner; and,
 - Conducts the Canadian Numbering Resource Utilization Forecast (C-NRUF)
- Senior Project Manager Policy and Industry Notification (Fiona Clegg)

The Senior Project Manager Policy and Industry Notification reports to the Director of the CNA and is responsible for the following functions:

- Manages the Industry Notification Process;
- Acts as liaison with Telcordia Traffic Routing Administration and the Common Interest Group on Routing and Rating;
- Acts as the CSCN Secretary and CSCN liaison;

- Performs the NPA Relief Planning Committee Secretary functions; and
 - Assists in CO Code Administration when required.
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- Senior Engineer (Glen Brown)

The Senior Engineer Reports to the Director of the CNA and is responsible for the following functions:

- Manages the Canadian Numbering Administration System (CNAS);
 - Administers software development and acquisition;
 - Provides database support and develops database generated reports; and
 - Assists in CO Code Administration when required.
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- CO Code Administrators (Gerry Clermont and Natalie Lessard)

The CO Code Administrators report to the CO Code Manager and assign CO Codes in Canada as well as other administrative and data entry functions.

- Administrative Support (Sandi Mish)

Provides administrative support to the CNA staff.

Canadian Numbering Administrator Duties and Functions

A) CSCN Secretary

The CNA performs the duties of the CSCN secretary in accordance with the CSCN Administrative Guidelines including:

- 1) attend all meetings of the full CSCN and record the attendance and the real-time proceedings of all such CSCN meetings and emergency conference calls;
- 2) maintain a centralized file, including a log, of all CSCN documents;
- 3) maintain current and accurate CSCN participant distribution list(s);
- 4) prepare and ensure the timely distribution of the full CSCN meeting minutes; and
- 5) perform such other duties as may be prescribed from time to time by the CSCN.

B) Central Office Code Administration including NPA Relief Planning

The CNA performs CO Code administration functions in accordance with the Canadian Central Office Code (NXX) Assignment Guidelines (Canadian COCA Guidelines) for geographic NPAs assigned for use in Canada including NPA Relief Planning functions in accordance with the Canadian NPA Relief Planning Guidelines and the NPA Allocation Plan and Assignment Guidelines.

C) CNA Role in NANPA Administered Resources

The CNA performs the following tasks with respect to the North American Numbering Plan (NANP) number resources, which are administered by the NANP Administration:

- 1) Receive, validate and forward applications from Canadian entities to NANPA for assignment of:
 - a) NPA Codes;
 - b) International Inbound NPA 456 NXX Codes;
 - c) PCS/N00 NXX codes (NPA 500 NXXs);
 - d) NPA 900 NXX Codes;
 - e) NPA 800 855-XXXX line numbers;
 - f) 555-XXXX line numbers; and,
 - g) Carrier Identification Codes (CICs).
- 2) Reclaim resources in certain circumstances.

D) Administration of Canadian Numbering Resources

The CNA performs the following administrative tasks:

- 1) Receive, validate and forward applications for SS7 Network Codes and National Business Group Identifiers (NBGIs) from Canadian entities to Telcordia for assignment and maintain the associated records;
- 2) Receive, validate and process requests and maintain records for NPA 600 NXX Codes, International Mobile Station Identity (IMSI) Codes, and System Identifier Codes (SIDs);
- 3) Maintain and publish lists containing assignment information for Canadian numbering resources including approved applications of N11 codes in Canada;

- 4) Prepare and publish a CNA Annual Report on the status of Canadian numbering resources;
- 5) Seek clarification of CSCN and INC industry guidelines from the CSCN or CRTC, as necessary;
- 6) Provide reports to CSCN on various numbering topics upon request;
- 7) Provide clarification to interested parties with respect to the application of numbering resource guidelines applicable in Canada;
- 8) Participate in the CNA performance review process;
- 9) Investigate number assignment and administration issues, as necessary;
- 10) Seek resolution, as necessary, from CSCN or CRTC of number assignment and administration issues;
- 11) Participate and provide supporting data to the CSCN and CSCN Task Forces upon request;
- 12) Liaise and coordinate the CNA's activities with NANPA to ensure effective and efficient use of NANP resources in Canada;
- 13) Establish and maintain relationships with Industry Canada and the CRTC;
- 14) Develop and maintain knowledge of numbering activities at the INC and assess the impacts of any INC activities on Canadian numbering administration and CNA functions;
- 15) Respond to requests from participants in the Canadian telecommunications industry, Industry Canada, the CRTC and the media about Canadian numbering resources and their administration;
- 16) Be the primary repository for numbering information for the Canadian telecommunications industry; and
- 17) Communicate, orally and in writing, in both official languages, English and French.

CSCN Secretary

All of the CSCN secretary activities were carried out as required. Of particular interest, the CNA recorded the real time minutes for five full day CSCN meetings. The dates of the CSCN meetings held in 2002 were February 26, April 16, June 18, September 17, and November 26. Copies of these meeting minutes are located at <http://www.crtc.gc.ca/cisc/eng/cisf3fa.htm#MINUTES>.

In addition to the regular CSCN meetings, the CSCN Secretary attended eight emergency teleconferences which were held on January 8 and 21, February 12, March 10, 11 and 26, April 8, and November 8. There were also two full day CSCN NRUF meetings held on February 25 and November 25, as well as two CSCN NRUF teleconferences held on January 30 and September 15. The CSCN Secretary recorded real time minutes at these meetings and teleconferences, copies of which can be found at the website mentioned above.

Central Office (CO) Code Administration

Canada is a member of the NANP. NANP telephone numbers are in the format NXX NXX XXXX where N is equal to 2 through 9 and X is equal to 0 through 9. The first NXX in a telephone number is the Numbering Plan Area (NPA) Code, the second NXX is the CO Code and the XXXX is the line number.

When an eligible TSP in Canada requires the assignment of a block of telephone numbers, an application is made to the CNA for the assignment of a CO Code and its associated 10,000 line numbers. The CNA reviews the application to ensure that the service provider is eligible for the assignment of the CO Code, in accordance with the CRTC approved Canadian COCA Guidelines. Once it is determined that the applicant has met all eligibility criteria and the application is completed with the correct data, a CO Code is selected and the data is entered into the Canadian Numbering Administration System (CNAS) and the Telcordia Assigned Code Record (ACD) Screen. After the data is entered, the applicant is officially notified of the assignment using a Part 3 form. A Part 4 form is submitted to the CNA once the CO Code has been placed in-service by the Code Holder. The CNA subsequently updates the CNAS and the ACD Screen to show that the CO Code is in-service. The CO Code listings are updated on a daily basis on the CNA website at http://www.cnac.ca/co_codes.htm. The Canadian COCA Guidelines, which were developed by the CSCN and approved by the CRTC, may be found on the same web page.

An applicant is never denied the assignment of a CO Code due to the improper completion of an application. CNA staff members work with the applicant until the application is completed correctly. However, in 2003, five applications were denied because the CO Codes were non-assignable or the applicant was ineligible.

The following table lists the CO Code Administration activity in 2001 compared with 2002 and 2003. It should be noted that all CO Code administration activities were completed within the timeframes stipulated in the Guidelines.

Month	Part One Initial/ Growth	Part One Update	Bulk A	Bulk B	Recovered	Other
January 01	84	34	110	00	07	01
January 02	34	22	00	20	04	00
January 03	33	65	00	00	01	00
February 01	44	10	00	00	03	01
February 02	57	05	00	23	00	03
February 03	20	87	00	00	00	00
March 01	33	11	00	00	07	00
March 02	44	26	00	27	14	00
March 03	50	29	00	00	00	05
April 01	15	11	00	00	12	01
April 02	26	09	00	41	23	05
April 03	23	34	00	38	01	00
May 01	53	11	00	60	15	00
May 02	19	52	00	00	02	00
May 03	13	26	00	00	16	02
June 01	64	43	00	68	04	01
June 02	17	47	00	00	02	08
June 03	15	16	00	00	00	00
July 01	60	24	00	91	00	03
July 02	40	34	00	51	01	07
July 03	27	07	00	17	00	07
August 01	34	25	00	85	03	03
August 02	32	05	00	10	02	45
August 03	19	02	00	00	00	00
September 01	65	38	00	00	02	07
September 02	46	18	00	00	01	00
September 03	62	10	00	00	00	07
October 01	52	45	00	00	10	01
October 02	10	09	00	00	03	00
October 03	39	10	00	00	01	00
November 01	31	46	00	00	48	21
November 02	16	05	00	00	04	00
November 03	20	28	00	10	11	00
December 01	37	07	00	70	01	17
December 02	17	58	00	20	07	00
December 03	14	29	00	00	00	00
Totals 2001	572	305	110	374	112	56
Totals 2002	358	290	00	192	56	68
Totals 2003	335	343	00	64	30	21

Part One Initial/Growth applications are the quantity of CO Code Applications processed by the CNA that resulted in the assignment of new CO Codes. These would include applications for initial and growth CO Codes.

Part One Update applications are the quantity of CO Code Applications processed by the CNA to update data in the CNAS and the ACD Screens. These applications are Part 1 of the Canadian Central Office Code (NXX) Assignment Request and Confirmation Forms, detailing the appropriate changes, for the affected CO Code. This process includes changes such as, but not limited to, the OCN, switching entity/POI and Rate Center name.

Part One Bulk A applications are the quantity of CO Code Applications processed by the CNA that are received in volume and require a significantly reduced level of effort to process, compared to the Part 1 applications discussed above. The CNAC Board has agreed that Bulk A applications will meet the following criteria:

- A Part 1 Application is required in accordance with the Canadian Central Office Code (NXX) Assignment Guidelines;
- The Assigned Code Record (ACD) screen must be opened;
- One or two identical changes to the same data element;
- No error checking on the part of the CNA is required;
- Applications relate to updated information only;
- There must be at least 10 NXXs involved; and
- The normal 14 calendar day processing time does not apply.

Part One Bulk B applications are the quantity of CO Code Applications that are processed by the CNA and are received in volume and meet the following criteria as agreed to by the CNAC Board:

- A Part 1 Application is required in accordance with the Canadian Central Office Code (NXX) Assignment Guidelines;
- The Assigned Code Record (ACD) screen must be opened;
- Three or more changes to the same data elements are required; or
- Identical changes to three or more data elements are required; or
- Differing changes made to three or more or numerous data elements are required;
- Error checking is provided by the CNA;
- Applications relate to updated information only;
- There must be at least 10 NXXs involved; and
- The normal 14 calendar day processing time does not apply.

Part One Recovered CO Code applications are the quantity of CO Code Applications processed by the CNA to reclaim CO Codes for the following reasons:

- a) the CO Code is no longer required by the Code Holder for the purpose originally assigned;
- b) the service for which the CO Code was assigned is discontinued;
- c) the CO Code Holder has ceased operation;
- d) the CO Code was assigned, but not used in conformance with the Canadian Central Office Codes (NXX) Assignment Guidelines; or
- e) the CO Code was not placed In-Service within the time frame specified in the Canadian Central Office Code (NXX) Assignment Guidelines.

These applications are Part 1 of the Canadian Central Office Code (NXX) Assignment Request and Confirmation Forms.

Other is the number of modifications made to the CNAS to correct the data received by the CNA during and since the CO Code Administration transition period.

Numbering Resource Utilization Forecast (NRUF)

Each NPA Code contains approximately 750 assignable CO Codes, depending on the NPA. The CNA is required to determine the approximate date when all assignable CO Codes will exhaust in each NPA in order to begin NPA relief planning activities to ensure that enough telephone numbers and CO Codes remain available for assignment prior to the introduction of a new NPA. This is achieved by conducting the annual NRUF.

In accordance with the Canadian Numbering Resource Utilization Forecast (C-NRUF) Guidelines, during the fourth quarter of each year the CNA requests all existing and prospective Code Holders to complete the General Numbering Resource Utilization Forecast (G-NRUF) worksheet and return it to the CNA by February for analysis. On the worksheet, the Code Holders list the number of CO Codes, by NPA, that are assigned to them as well as forecast the number of CO Codes they expect to require, by NPA, in each of the next six years.

During the CNA's analysis of the data provided on the worksheets, any discrepancies between the CNA database and the number of assigned codes that the TSP has indicated on the worksheet is discussed with the TSP to ensure that the data is correct. The CNA also scrutinizes the TSP's forecast data to compare it against previous years' forecasts to detect any large deviations. The CNA contacts the TSP to determine why the deviation has occurred and to ensure that no errors were made. Additionally, the CNA verifies any forecasts from new entrants that appear to be somewhat inflated. The CNA discusses the forecast with the new entrant and offers educated assistance to ensure that the forecast is valid. Any large discrepancies or unusual forecasts are reported to the CRTC for its information and action, before the final aggregate report is presented to the CSCN and posted on the CNA website. CRTC and CNA staff meet to discuss the NRUF results, in detail, before they are released to the CSCN and NANPA. Once the G-NRUF report is

presented to the CRTC and the CSCN, it is forwarded to the NANPA to be used in its analysis for determining the exhaust date of the NANP.

On December 14, 2002, the CNA requested all existing or prospective Code Holders to provide their year 2003 G-NRUF to the CNA by February 14 2003. The aggregate G-NRUF was posted to the CNA website on April 15, 2003 after it was presented to the CSCN and forwarded to the CRTC and the NANPA. The 2003 G-NRUF indicated that in addition to NPA relief activities already occurring in NPAs 514, 519, 613 and 819, relief activities in NPAs 204 and 250 were no longer required. The 2003 G-NRUF may be found at <http://www.cnac.ca/cocus.htm#2003>.

NPA Relief Planning

NPA relief planning is a public process that is described in the Canadian NPA Relief Planning Guidelines, which may be found at http://www.cnac.ca/npa_rlf.htm. To increase public awareness and participation in the NPA relief planning process, the CRTC has determined that NPA Relief Planning Committees (RPCs) are to be established as ad hoc sub-committees of the CISC.

When the G-NRUF indicates that an NPA will exhaust within an 82 month window, the CNA informs CRTC staff, who normally initiates the publication of a CRTC Public Notice. The Public Notice is used to inform the public that NPA relief is required and also solicits interested parties to be part of the NPA Relief Planning Committee. Subsequently, the CNA NPA Relief Planner conducts a Relief NRUF (R-NRUF), which is similar to the annual G-NRUF except that existing CO Code assignments and the forecast CO Code requirements are generally reported at the exchange area level of detail, depending on the applicable CRTC determination and requirements set by the Relief Planning Committee (RPC). This information is used in the development of several viable relief options that are included in the Initial Planning Document (IPD). The IPD is sent to the CRTC Interested Parties list and to any other party that the CNA believes should have an interest in the ensuing NPA relief activities (e.g., Municipalities, TSPs that did not respond to the CRTC Public Notice, and public interest groups).

When the IPD is distributed to the NPA RPC mailing list, the members are invited to submit contributions suggesting other relief planning options and to attend the first RPC meeting, which is held at a location within the NPA in question. The initial and subsequent RPC meetings are chaired by the CNA, which also supplies the NPA Relief Planner and the RPC secretary.

At the initial meeting, the IPD is discussed in detail in order for the Committee members to become familiar with the NPA from a geographic, demographic, exchange area and NRUF point of view. Additionally, the relief options contained in the IPD are discussed in detail as are any contributions received by the CNA from any interested party.

During the RPC meetings, the Committee modifies the IPD to become the Planning Document (PD). The Committee will normally come to consensus on a recommended

relief option. The recommended relief option will be compared to other relief options either proposed in the IPD or considered by the RPC and this comparison will be included in the PD, which is forwarded to the CRTC via the CISC process. During 2003, the RPCs did not recommend any new relief plans (but did recommend a delay for the implementation of the NPA 519, 819 and 613 Relief Plans).

The CRTC normally issues another Public Notice to solicit comments from the public concerning the recommended plan and relief date or to suggest alternative plans and dates that may not have been considered by the RPC. Once the public process is completed the CRTC may accept the RPC recommendations, alter the recommendations or order a completely different relief plan.

Once the CRTC orders the Relief Plan, the CNA develops the Planning Letter for the NANPA and requests the assignment of the new NPA and then issues a press release. Subsequently, the CNA reconvenes the RPC to develop the Relief Implementation Plan (RIP), including an Implementation Schedule and Jeopardy Contingency Plan (JCP). Additionally, the RPC creates the Network Implementation Task Force (NITF) and the Consumer Awareness Program Task Force (CATF) and approves their output reports before sending them through the CISC process to CRTC staff. In 2003 these activities continued to be carried out for NPAs 514, 519, 613, and 819. Details of relief activities for these NPAs may be found at http://www.cnac.ca/npa_data.htm.

During 2003 the CNA chaired, supplied a secretary and Relief Planner and prepared minutes for 19 teleconferences attended by the CNA as listed below. Additionally, the CNA developed and/or maintained 3 Relief Planning Documents and performed 9 Relief, Special or G- NRUFs as listed below. The CNA was required to develop six NPA Relief Planning Reports to the CSCN.

NPA Relief Planning Meetings and Conference Calls:

NPA	Meeting or Conference call	Date
519	Conference call	January 9
613/819	Conference call	January 22
519	Conference call	February 4
613/819	Conference call	February 13
514	Conference call	March 21
514	Conference call	April 23
613/819	Conference call	April 25
514	Conference call	April 28
514	Conference call	May 5
514	Conference call	May 12
519	Conference call	May 23
613/819	Conference call	May 29

NPA	Meeting or Conference call	Date
519	Conference call	June 5
613/819	Conference call	July 3
613/819	Conference call	August 6
514	Conference call	October 30
613/819	Conference call	November 12
514	Conference call	November 14
514	Conference call	November 21

2003 /NRUF Activity

1 G-NRUF for all NPAs with exception of NPAs 514, 519, 613 and 819. 1

Relief & Special NRUFs

NPAs

514	February	August	2
519	February	August	2
613	February	August	2
819	February	August	2

Total - COCUS- and Relief & Special COCUS/NRUFs 9

CNA Role in NANPA Administered Resources

In addition to NPA Codes, the NANP contains other numbering resources. These numbering resources are also assigned to Canadian telecommunications entities by the NANPA via the CNA. Applications for these resources are received by the CNA and reviewed for accuracy and to ensure that the applicant meets Canadian regulatory requirements. Complete and correct applications are forwarded to the NANPA along with a recommendation for assignment. The CNA will deny the assignment of these resources and return the application where the applicant does not meet Canadian regulatory requirements or the requirements of the applicable assignment guidelines or its Canadian adjunct. No application is rejected because it is not completed correctly. The CNA works with the applicant until the application is properly completed. Once the NANPA has assigned a code, it is forwarded to the CNA who informs the applicant of the assignment. The CNA acts as the Canadian telecommunications industry liaison with the NANPA.

The CNA keeps a separate listing of all resources assigned to Canadian entities along with the associated Industry Numbering Committee Assignment Guidelines and the

associated Canadian Adjunct to the guidelines. They may be found on the CNA website at http://www.cnac.ca/numres/numb_res.htm.

The CNA is required to receive, validate and forward applications from Canadian entities to NANPA for assignment of the following resources:

- NPA Codes;
- International Inbound NPA 456 NXX Codes;
- PCS/N00 NXX Codes (NPA 500 NXXs) reserved for Canadian entities;
- NPA 900 NXX Codes;
- NPA 800 855-XXXX line numbers;
- 555-XXXX line numbers; and
- Carrier Identification Codes (CICs).

During 2003, thirty two CICs were assigned, three were reclaimed, twenty five were amended and one was denied. There were no 555 line numbers assigned, however, fifteen were amended and 1 was reclaimed. There were also three 900 NXX Codes assigned.

CNA Role in Telcordia Administered Resources

In addition to the NANPA administered resources, there are also other resources that are assigned to Canadian telecommunications entities by Telcordia Technologies Inc. via the CNA. Telcordia is under contract by the American National Standards Institute (ANSI) to administer these resources in North America. Applications for these resources are received by the CNA and reviewed for accuracy and to ensure that the applicant meets Canadian regulatory requirements. Complete and correct applications are forwarded to Telcordia along with a recommendation for assignment. The CNA will deny the assignment of these resources and return the application when the applicant does not meet Canadian regulatory requirements or the requirements of the applicable assignment guidelines. No application is rejected because it is not completed correctly. The CNA works with the applicant until the application is properly completed. Once Telcordia has assigned a Code, it is forwarded to the CNA who informs the applicant of the assignment. The CNA acts as the Canadian telecommunication industry liaison with Telcordia.

The CNA is required to receive, validate and forward applications for SS7 Network Codes and National Business Group Identifiers (NBGIs) from Canadian entities to Telcordia for assignment and maintain the associated records. A description of these resources can be found at the CNA website at http://www.cnac.ca/numres/numb_res.htm. However, a list of these resources does not currently appear on the website. Additionally, when an entity is assigned SS7 Network Codes they are informed, in writing, of the Global Title Translation (GTT) Point Code Industry Notification Process which is facilitated by CRTC staff. This process may be accessed via the CNA website at the website listed above.

During 2003, one SS7 Network Point Code and sixteen NBGIs were assigned.

Other Administration Activities

The CNA is required to receive, validate and process requests and maintain records for NPA 600 NXX Codes. A description of these resources and a listing of assignments may also be found at http://www.cnac.ca/numres/numb_res.htm. There has been no NPA 600 NXX Code assignment activity during 2003.

The CNA is required to receive, validate and process requests and maintain records for Canadian Emergency Service Routing Digit (ESRD) Blocks. A description of these resources and a listing of assignments may also be found at <http://www.cnac.ca/mapESRD.htm>. There have been three hundred and fifty six ESRD Blocks assigned during 2003.

The CNA is required to receive, validate and process requests and maintain records for System Identifier Codes (SIDs). A description of these resources can be found on the CNA website. There was one SID assignment 2003.

The CNA is required to receive, validate and process requests and maintain records for International Mobile Station Identifier Codes (IMSI). A description of these resources and a listing of assignments can be found on the CNA web site. There were no IMSI Code assignments during 2003.

The CNA is required to seek clarification of CSCN and INC Industry Guidelines from the CSCN or CRTC, as necessary. There have been a number of occasions where this has been necessary. In order to resolve a major issue the CNA has developed 1 Task Information Form (TIF) 52 and 13 contributions to the CSCN Task Forces as listed below.

New CSCN TIF Created by CNA in 2003

TIF 52 Revisions to section 3.7 of the COCA GLs - 16 April 2003.

CNA Contributions to the CSCN in 2003

TIF 43 - NPA Relief Planning Guidelines Maintenance - Draft TIF Report (not accepted)
17 September 2003

TIF 44 - Appendix G to COCA GLs (R&H) - 24 October 2003

TIF 46 - SIDs GLs - 25 March 2003

TIF 46 - Draft TIF Report 29 - IMSI GLs - 26 February 2003

TIF 46 - SIDs Glossary - 10 June 2003

TIF 47 - Suspension and Reactivation of NPA Relief Planning Activities - Draft TIF Report - 24 February 2003

TIF 48 - Multi-OCNs - Draft TIF Report - 16 June 2003

TIF 48 - Multi-OCNs - Joint Contribution Bell/TELUS/CNA - 30 April 2003

TIF 49 - CRTC CSCN Website Changes - Joint Contribution Bell/TELUS/CNA – 24 November 2003

TIF 52 - Revisions to Section 3.7 of the COCA GLs - done at request of Task Force – 24 July 2003

TIF 52 - Revisions to Section 3.7 of the COCA GLs - 25 July 2003

GMSC - C-NRUF GLs Changes - Joint Contribution Bell/TELUS/CNA – 27 October 2003

GMSC - "Notes to be Incorporated into C-NRUF document" - 6 August 2003

The CNA is also required to provide reports to the CSCN on various numbering topics upon request and must provide clarification to interested parties with respect to the application of numbering resource guidelines applicable in Canada. Although requests from the CSCN were minimal, the CNA has spent considerable time providing clarification to entities inquiring about acquiring numbering resources and to private citizens and the media wishing to discuss area code relief, particularly once they have realized that there will be a change in their dialing plans. The vast majority of these inquiries are received via the telephone although some are via email from the CNA website.

Industry Fora

In order to ensure that the CNA is up to date with CSCN activities and to ensure that the CSCN is able to develop and modify number assignment guidelines, the CNA has attended all CSCN Guidelines Maintenance Standing Committee (GMSC) and CSCN Task Force meetings in 2003. There have been 15 GMSC, 45 Task Force and 2 ENUM teleconferences as well as 10 full days of Task Force and GMSC meetings in 2003. Additionally, the CNA attends the Common Interest Group on Routing and Rating (CIGRR) and the Network Routing Resources Information Committee (NRRIC) meetings to ensure that Canadian industry is aware of rating and routing changes in the US that affect Canada and Canadian assignment guidelines. Generally, there is no other Canadian entity attending these meetings. The CNA attended 41 CIGRR/NRRIC meetings and teleconferences in 2003.

The CNA is required to develop and maintain knowledge of numbering activities at the INC and assess the impacts of any INC activities on Canadian numbering and CNA functions. The CNA attended 4 four-day INC meetings in 2003 and has delivered 6

summaries of INC issues that could affect Canadian assignment guidelines to the CSCN following all INC general meetings. Generally, no other Canadian entity attends these meetings.

Website

The CNA is required to establish and maintain an Internet website. The CNA website contains numbering information, which is unique to Canada, and generally it does not duplicate information that is available from the NANPA website. The CNA website provides a brief description of the information that is contained on the NANPA website, including the NANPA Internet website address.

The following information is available on the CNA Internet website at www.cnac.ca:

- 1) CNA mandate, mailing address, contact names, telephone and facsimile numbers, and E-mail addresses;
- 2) Canadian Geographic NPA Information including a Map of Canada showing Canadian geographic NPAs and a list of CO Codes and the status of each (e.g., assigned, reserved, protected, test, available) in a downloadable spreadsheet file format;
- 3) A list of Canadian National Numbering Resources;
- 4) Unique CSCN Number Resource Assignment Guidelines, including CSCN Administrative Guidelines and link to CRTC website;
- 5) List of INC Number Resource Assignment Guidelines which apply in Canada plus the address of the website where copies may be obtained;
- 6) Other CNA information or reports as directed by CNAC and the CRTC;
- 7) CNA Annual Report;
- 8) CSCN Information;
- 9) CSCN Membership List including company name, contact name, mail address, telephone and facsimile number, and e-mail address;
- 10) Current Schedule of CSCN meetings and conference calls including workshops; and,
- 11) Most recent CSCN Meeting Minutes without attachments and the link to CRTC website.

This information is updated on a timely basis when the CNA receives new information and at a minimum of once every week.