



ATIS-0300061

**NPA CODE RELIEF PLANNING AND NOTIFICATION
GUIDELINES**

Reissued with the resolution of Issue 856.

October 26, 2018

Copyright © 2018 by the Alliance for Telecommunications Industry Solutions, Inc.
All rights reserved.

The NPA Code Relief Planning & Notification Guidelines dated October 26, 2018, is copyrighted, published and distributed by ATIS on behalf of the Industry Numbering Committee (INC). Except as expressly permitted, no part of this publication may be reproduced or distributed in any form, including electronic media or otherwise, without the prior express written permission of ATIS.

Participants in the INC and other parties are hereby authorized to reproduce this document and distribute it within their own business organizations for business purposes, provided that this notice continues to appear in the reproduced documentation. Resale is prohibited.

For ordering information, please contact:

ATIS
1200 G Street N.W., Suite 500
Washington, DC 20005
(202) 628-6380
inc@atis.org

A complete listing of INC Documents is available on the ATIS Web Site at: <http://www.atis.org/inc/incguides.asp>.



As a leading technology and solutions development organization, the Alliance for Telecommunications Industry Solutions (ATIS) brings together the top global ICT companies to advance the industry's most pressing business priorities. ATIS' nearly 200 member companies are currently working to address the All-IP transition, network functions virtualization, big data analytics, cloud services, device solutions, emergency services, M2M, cyber security, network evolution, quality of service, billing support, operations, and much more. These priorities follow a fast-track development lifecycle — from design and innovation through standards, specifications, requirements, business use cases, software toolkits, open source solutions, and interoperability testing.

ATIS is accredited by the American National Standards Institute (ANSI). The organization is the North American Organizational Partner for the 3rd Generation Partnership Project (3GPP), a founding Partner of the oneM2M global initiative, a member of and major U.S. contributor to the International Telecommunication Union (ITU), as well as a member of the Inter-American Telecommunication Commission (CITEL). For more information, visit www.atis.org.

The Industry Numbering Committee (INC) provides an open forum to address and resolve industry-wide issues associated with planning, administration, allocation, assignment and use of North American Numbering Plan (NANP) numbering resources within the NANP area.

This document is maintained under the direction of ATIS and the INC. Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, INC Staff, 1200 G Street NW, Suite 500, Washington, DC 20005. All changes to this document shall be made through the INC issue resolution process and adopted by the INC as set forth in the *ATIS Operating Procedures*.

Trademark Acknowledgements

iconectiv®, Telcordia®, and Common Language® are registered trademarks and CLCI™, CLLI™, LERG™ Routing Guide and TPM™ Data Source are trademarks and the Intellectual Property of Telcordia Technologies, Inc. dba as iconectiv.

Notice of Disclaimer & Limitation of Liability

The information provided in this document is directed solely to professionals who have the appropriate degree of experience to understand and interpret its contents in accordance with generally accepted engineering or other professional standards and applicable regulations. No recommendation as to products or vendors is made or should be implied.

NO REPRESENTATION OR WARRANTY IS MADE THAT THE INFORMATION IS TECHNICALLY ACCURATE OR SUFFICIENT OR CONFORMS TO ANY STATUTE, GOVERNMENTAL RULE OR REGULATION, AND FURTHER, NO REPRESENTATION OR WARRANTY IS MADE OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. ATIS SHALL NOT BE LIABLE, BEYOND THE AMOUNT OF ANY SUM RECEIVED IN PAYMENT BY ATIS FOR THIS DOCUMENT, AND IN NO EVENT SHALL ATIS BE LIABLE FOR LOST PROFITS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. ATIS EXPRESSLY ADVISES THAT ANY AND ALL USE OF OR RELIANCE UPON THE INFORMATION PROVIDED IN THIS DOCUMENT IS AT THE RISK OF THE USER.

<p>NOTE - The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights. By publication of this standard, no position is taken with respect to whether use of an invention covered by patent rights will be required, and if any such use is required no position is taken regarding the validity of this claim or any patent rights in connection therewith. Please refer to [http://www.atis.org/legal/patentinfo.asp] to determine if any statement has been filed by a patent holder indicating a willingness to grant a license either without compensation or on reasonable and non-discriminatory terms and conditions to applicants desiring to obtain a license.</p>
--

TABLE OF CONTENTS

1.0 PURPOSE 3

2.0 ASSUMPTIONS AND CONSTRAINTS 3

3.0 NPA RELIEF PLANNING PRINCIPLES 4

**4.0 CO CODE ADMINISTRATOR’S AND POOL ADMINISTRATOR’S RESPONSIBILITIES FOR
CODE RELIEF PLANNING 5**

5.0 NPA RELIEF PLANNING PROCESS 6

6.0 ALTERNATIVE RELIEF METHODS 15

7.0 OTHER RELIEF PLANNING CONSIDERATIONS 17

8.0 UPDATING BIRRDs AND LASS 18

9.0 ROUTING TO THE NEW NPA CODE 18

10.0 A PERMISSIVE DIALING PERIOD 19

11.0 ANI AND RECORDS CONVERSION 20

12.0 SP RESPONSIBILITIES FOR NPAC RECORDS CONVERSION 21

13.0 MANDATORY DIALING 21

14.0 TOLL FREE RELIEF PLANNING 22

15.0 MAINTENANCE OF THESE GUIDELINES 24

16.0 GLOSSARY 25

Appendix A 29

Appendix B 31

Appendix C 32

Appendix D 33

Appendix E	34
Appendix F	35
Appendix G	42

Appendices:

- Appendix A: NANPA NPA Relief Checklist
- Appendix B: Issues to Be Considered During NPA Relief Planning
- Appendix C: Industry Notification of NPA Relief Activity Timeline for Relief via an NPA Split
- Appendix D: Summary of Model Used by NPA Relief Planner
- Appendix E: General Attributes of Some Relief Alternatives
- Appendix F: Issues to be Considered During NPA Relief Implementation
- Appendix G: Technical Considerations

1.0 Purpose

The purpose of this document is to provide guidelines for NPA code relief planning activities. This includes the relief planning process, industry notification process and NANPA's responsibilities to Affected Parties and applicable regulatory authorities within the North American Numbering Plan area. It also provides relief planning principles, administrative responsibilities and industry notification requirements. The steps of the NPA code relief planning process are listed and the alternative methods of providing relief and their various attributes are described.

2.0 Assumptions and Constraints

The development of these guidelines includes the following assumptions and constraints:

- 2.1 These guidelines were developed by the INC to apply to geographic NPA relief planning.
- 2.2 Section 14 has been added to incorporate NANPA's responsibility for Toll Free Service relief planning.
- 2.3 Relief activities will be undertaken to provide relief to an exhausting NPA. For the purpose of NPA relief planning, it is assumed that the capacity of an NPA is 792 CO codes (NXXs). However, in overlay NPA situations, the CO code exhaust capacity will be the number of NPA codes assigned to that geographic area times 792. It may not be possible to assign all 792 NXXs as CO codes for a variety of reasons.
- 2.4 The relief plan chosen will seek to minimize end user confusion while balancing multiple objectives including cost effectiveness, minimum customer impact, and long-lasting relief.
- 2.5 For each relief activity proposed in the plan, it is recommended that customers who undergo number changes shall not be required to change again for a period of 8-10 years. However, the ultimate decision as to which geographic area is assigned a new NPA in an NPA split is usually in the hands of local regulatory authorities instead of the industry. In addition, an extended permissive dialing period for certain specific NXX codes, e.g., wireless or NXX codes containing numbers utilized by alarm companies, especially where local number portability (LNP) and/or thousands-block number pooling have been implemented, shall be avoided.
- 2.6 The ATIS consensus process will be employed in selecting an industry relief recommendation.
- 2.7 NANPA will moderate industry relief planning meetings and is required to do so in a fair and impartial manner, ensuring that all participants have any opportunity to express their opinions.
- 2.8 These relief planning guidelines were developed without making any assumption as to who will fill the role of CO Code Administrator or NANP Administrator.