

**Next Generation Interconnection Interoperability Forum  
(NGIIF)**

**Network Routing Resources Educational Document:  
Intercompany Responsibilities in the Telecommunications  
Industry**

**Alliance for Telecommunications Industry Solutions**

Approved November 3, 2019

**Abstract**

This document serves as a reference for many of the steps and data flows involved with a company becoming integrated within certain aspects of the telecommunications industry. It is primarily directed for use by telecommunications service providers (SPs) as a resource for understanding interconnection processes, data requirements, and data exchange processes among carriers. This document has been designed to provide an overview of the various processes and procedures that a SP should acknowledge and understand.

## Foreword

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The Alliance for Telecommunications Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The Next Generation Interconnection Interoperability Forum (NGIIF) addresses next-generation network interconnection and interoperability issues associated with emerging technologies. Specifically, it develops operational procedures which involve the network aspects of architecture, disaster preparedness, installation, maintenance, management, reliability, routing, security, and testing between network operators. In addition, the NGIIF addresses issues which impact the interconnection of existing and next generation networks and facilitate the transition to emerging technologies.

The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages. The word *may* denotes an optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, NGIIF, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, NGIIF, which was responsible for its development, had the following leadership:

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## Trademark Acknowledgements

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# Next Generation Interconnection Interoperability Forum (NGIIF): Network Routing Resources Educational Document: Intercompany Responsibilities in the Telecommunications Industry

## 1 Scope, Purpose, & Background

### 1.1 Scope

This document provides an overview of the various processes and procedures relative to general intercompany routing processes that a service provider (SP) should acknowledge and understand. References are made to other sources where additional, more specific, information may be obtained. This document is not inclusive of all processes and procedures that may need to be followed. Variations and/or alternative processes to those documented herein may exist due to reasons such as interpretation, company-specific requirements, and regulatory variations (e.g., by state).

### 1.2 Purpose

This document serves as a reference for a company becoming integrated within certain aspects of the communications industry.

It is primarily directed for use by SPs as a source for understanding interconnection processes, data requirements, and data exchange processes among carriers related to network and routing resources.

### 1.3 Background/Overview of Processes

As underscored by the issuance of the Telecommunications Act of 1996, there has been a rapid increase in the number of participants in the communications industry. The need to develop guidelines, provide information, and provide a means for efficient intercompany interaction is a major factor in maintaining an operable network. This document has been updated by the ATIS Next Generation Interconnection Interoperability Forum (NGIIF) as an aid for new and established providers.

In general, most SPs are involved in providing services to a “subscriber” (e.g., business, residence, or wireless). These companies may own, lease, and/or resell various components of the network that support these services. Identification of these network elements and their interrelationships becomes increasingly important and complicated as the number of providers and services increase.

To support an understanding of these elements and processes, this document covers topics such as Interconnection Agreements, Certification to Provide Service, Common Language® Information Services, Company Codes/Operating Company Numbers (OCNs), Administrative Operating Company Number (AOCN), Revenue Accounting Office (RAO), Thousands-Block (NPA-NXX-X) & Central Office Code (NPA-NXX) Administration Guidelines (T-COCAG), Local Number Portability (LNP), Thousands-Block Pooling, NECA Tariff Federal Communications Commission (FCC) No. 4, Industry Forums, and Telecom Routing Administration (TRA).

## 2 Informative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.