



ATIS-0300253.2016

Structure for the Representation of Location Entities for  
Information Exchange



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## ATIS-0300253.2016, Structure for the Representation of Location Entities for Information Exchange

Is an American National Standard developed by the **Telecom Management and Operations Committee (TMOC)**.

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**ATIS-0300253.2016**

(Revision of ATIS-0300253.2011)

American National Standard for Telecommunications

# **Structure for the Representation of Location Entities for Information Exchange**

**Alliance for Telecommunications Industry Solutions**

Approved November 4, 2016

**American National Standards Institute, Inc.**

## **Abstract**

This standard defines the format and structure of data elements and the overall code necessary to provide a structure for the representations of location entities for the purpose of efficient information exchange.

## Foreword

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The information contained in this foreword is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. As such, Foreword may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the standard.

This standard was processed and approved for submittal to ANSI by the ATIS Telecom Management and Operations Committee (TMOC). The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The Telecom Management and Operations Committee (TMOC), formerly T1M1, develops operations, administration, maintenance and provisioning standards, and other documentation related to Operations Support System (OSS) and Network Element (NE) functions and interfaces for communications networks - with an emphasis on standards development related to U.S.A. communication networks in coordination with the development of international standards.

This American National Standard defines the format and structure of a code to be used for the identification of location entities for information exchange. It also provides for instances of codes to represent geographical locations (e.g., cities, towns, and communities) within the states and territories of the United States and the provinces and territories of Canada, as well as in other countries and unique designations. This standard also provides information for the assignment of these codes and defines the duties of a maintenance agent. The provision of instances of the remaining data elements in the overall location code is also described. The remaining data elements needed to complete the unique location codes are assigned by the maintenance agent in concert with customers licensed by Telcordia Technologies, Inc. dba iconectiv to use its CLLI™ Code design.

The code structure and format portion of this standard is compatible with the Common Language® CLLI™ Code design for the identification of location entities. The CLLI™ Code design was initially developed in 1966 and has been recognized as a de facto telecommunications standard for the interchange of information in the ordering of access services and for identifying points of termination for services provided by exchange and interexchange carriers. It is also included as information in the National Exchange Carrier Association (NECA) Tariff F.C.C. No. 4 - *Wire Center and Interconnection Information*.

ANSI guidelines specify two categories of requirements: mandatory and recommendation. 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 of performance advantages.

This document contains four informative annexes. These annexes are for information only and are not considered part of this standard.

Suggestions for improvement of this standard will be welcome. These should be sent to the Alliance for Telecommunications Industry Solutions, TMOC, 1200 G Street, NW, Suite 500, Washington DC 20005.

At the time it approved this standard, TMOC, which is responsible for the development of this Standard had the following leadership:

- M. Usry, TMOC Chair (iconectiv)
- M. Usry, Technical Editor (iconectiv)

## Trademark Acknowledgments

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American National Standard for Telecommunications –

# Structure for the Representation of Location Entities for Information Exchange

## 1 Scope & Purpose

This standard is intended for general use to provide a common method of identification of location entities, in order to help ensure the unambiguous exchange and interpretation of information. While the intended scope of this standard is for the identification of locations in North America, the code as defined may be applied to location entities in other countries and to unique designations (e.g., satellites and oceans).

The code described in this standard is used to facilitate information exchange in the identification of locations across various processes for both humans and machines as it relates to business supporting functions such as:

- Asset Recording and Financial Management
- Procurement
- Inventory and Spares Management
- Planning, Forecasting, and Reporting
- Engineering Management: Circuit/Design Layout Records (CLR/DLR)
- Ordering: Access/Local Service Request (ASR/LSR), Firm Order Confirmation (FOC)
- Billing: Carrier Access (CABS)
- Trouble Administration

This standard also outlines the responsibilities of the maintenance agent.

## 2 Normative References

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

ANSI INCITS 382009[2014] *Information Technology - Codes for the Identification of the States and Equivalent Areas within the United States, Puerto Rico, and the Insular Areas.*<sup>1</sup>

ISO 3166-1:2003, *Codes for the Representation of Names of Countries and Their Subdivisions - Part 1: Country Codes.*<sup>2</sup>

## 3 Definitions

**3.1 Customer site:** Customer utilization of ICT equipment at a specific location where there is a requirement to uniquely identify that customer's presence for the purpose of inventory and facility management

<sup>1</sup> This document is available from the American National Standards Institute (ANSI) at < <http://webstore.ansi.org/default.aspx> >

<sup>2</sup> This document is available from the International Organization for Standards (ISO) at < <http://www.iso.org> >

- 3.2 **Data:** A representation of facts, concepts, or instructions that are collected, organized, recorded, processed, and stored in a retrievable form suitable for communication, interpretation, or processing by human or automated means. [This definition refers to a group of facts taken as a unit; thus, it is used with a singular verb.]
- 3.3 **Data composite:** A collection of *data elements* treated as a unit.
- 3.4 **Data element:** A single unit of *data* that in a certain context is considered indivisible. It cannot be decomposed into more fundamental segments of *data* that have useful meanings within the business.
- 3.5 **ICT:** Information and Communications Technologies
- 3.6 **Network support site:** A specific location, normally outside of a building, at which unique identification is needed for ICT equipment or an interface point for the purpose of inventory and facility management
- 3.7 **Network entity:** A functional identification, associated with a network site for purposes of maintaining various ICT equipment inventory categories, facility/circuit terminations and other functional and administrative identification.
- 3.8 **Network site:** A specific location where there are one or more ICT equipment entities, facility terminations, nodal locations, or administrative operations, e.g. building.
- 3.9 **Site:** A specific geographical location having a precise set of geographic information system (GIS) coordinates.

## 4 General

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Each data element SHALL consist of sequences of characters, each character being either alphabetic (A-Z) or numeric (0-9). In clause 6, character positions that require either alphabetic, numeric, or either alphabetic or numeric characters are represented by "A", "N", and "A/N" respectively. The alphabetic characters SHALL be considered as case insensitive; that is, there SHALL be no distinction made between upper and lower case letters. However, it is recommended that the code be represented with upper case letters.

## 5 Data Units

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Clause 5 of this standard describes data elements and data composites that are used to construct the location code formats of clause 6.

### 5.1 Geographical Code

A standardized code that designates a single geographical locality within a state, province, territory, country, or distinct region of the world (e.g., municipality). This data element SHALL consist of four alphabetic characters.

### 5.2 Geopolitical Code

A standardized code that designates a state or territory of the United States, a province or territory of Canada, another country having a national federal government, or a unique designation (e.g., the oceans). This data element SHALL consist of two alphabetic characters.

### 5.3 Network Site Code

A non-standard code that designates a site within a geographical location where there is a need to identify one or more ICT function or purpose. This data element SHALL consist of either two alphabetic or two numeric characters.

### 5.4 Network Entity Code

A non-standard code that designates an ICT function, equipment entity, facility/circuit termination or administrative operation associated to the network site code. This data element SHALL consist of three alphabetic or numeric characters, based on a predefined format category that defines the functionality.

### 5.5 Network Support Site Code

A non-standard code that designates a site having one ICT function, typically at a site other than network site or customer site. This data element SHALL consist of five characters having a predefined alphabetic character in the first position followed by one numeric and three alphabetic or numeric characters in that sequence, based on a predefined format category that defines the functionality.

### 5.6 Customer Site Code

A non-standard code that designates a customer site location that utilizes ICT equipment at a specific location where there is a need to uniquely identify a customer’s presence for the purpose of inventory and facility/circuit management. This data element SHALL consist of five characters having one numeric character in the first position followed by one alphabetic and three alphabetic or numeric characters in that sequence.

## 6 Format Structures

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The data elements and data composites of clause 5 are combined in one of the prescribed sequences shown below to uniquely identify a location entity. The type of data composite can be determined from its length and the characters in positions 7 and 8 (alphabetic and/or numeric). The possible data composite formats are as described in the following sub clauses.

### 6.1 Network Site Format

A standardized code that uniquely identifies a site within a geographical location where there is a need to identify one or more ICT function, equipment entity, facility/circuit termination or administrative operation. This format SHALL consist of a sequence of Geographical Code, Geopolitical Code, and Network Site Code data elements, resulting in a code that totals eight characters in the following format:

**Table 6.1 – Network Site Format**

	<b>Geographical Code</b>	<b>Geopolitical Code</b>	<b>Network Site Code</b>
<b>Character Position</b>	1 – 4	5 – 6	7 – 8
<b>Character Set</b>	alpha	alpha	alpha - alpha or numeric - numeric
<b>Data Element Use</b>	Required	Required	Required

### 6.2 Network Entity Format

A standardized code that uniquely identifies a site within a geographical location as well the ICT function, equipment entity, facility/circuit termination or administrative operation. This format SHALL consist of a sequence of data elements as listed in 6.1, plus a Network Entity Code data element, resulting in a code that totals eleven characters in the following format:

Table 6.2 – Network Entity Format

	Geographical Code	Geopolitical Code	Network Site Code	Network Entity Code
Character Position	1 – 4	5 – 6	7 – 8	9 – 11
Character Set	alpha	alpha	alpha - alpha or numeric - numeric	alphanumeric
Data Element Use	Required	Required	Required	Required

### 6.3 Network Support Site Format

A standardized code that uniquely identifies the geographical site location and function of ICT equipment, typically at a site other than network site or customer site. This format SHALL consist of a sequence of Geographical Code and Geopolitical Code data elements, plus a Network Support Site Code data element, resulting in a code that totals eleven characters in the following format:

Table 6.3 – Network Support Site Format

	Geographical Code	Geopolitical Code	Network Support Site Code		
Character Position	1 – 4	5 – 6	7	8	9 – 11
Character Set	alpha	alpha	alpha	numeric	alphanumeric
Data Element Use	Required	Required	Required	Required	Required

### 6.4 Customer Site Format

A standardized code that uniquely identifies a customer’s presence at a location, typically at a site other than a network site or network support site. This format SHALL consist of a sequence of Geographical Code and Geopolitical Code data elements, plus a Customer Site Code data element, resulting in a code that totals eleven characters in the following format:

Table 6.4 – Customer Site Format

	Geographical Code	Geopolitical Code	Customer Site Code		
Character Position	1 – 4	5 – 6	7	8	9 – 11
Character Set	alpha	alpha	numeric	alpha	alphanumeric
Data Element Use	Required	Required	Required	Required	Required

## **7 Guidelines for Assigning & Using Codes**

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### **7.1 Geographical Code**

Geographical Codes for geographical locations (e.g., cities, towns, areas) within states, territories, provinces, and countries SHALL be assigned by the maintenance agent to be unique within that state, territory, province, or country. It is desirable that mnemonic codes are used, that is, that codes be derived from the common name of a geographical location – i.e., a common abbreviation or a series of significant letters of the name. When a new code is to be assigned for a geographical location for which the common name of the geographical location contains fewer than four alphabetic characters, the last character of the common name SHALL be repeated as many times as necessary to make a four-character code. For example, a geographical location named RYE SHALL be coded as RYEE.

It is the intention of this standard that codes include (but not be limited to) populated places, primary county divisions such as townships and New England towns, Indian reservations, and facilities such as airports and military bases.

### **7.2 Geopolitical Code**

Geopolitical Codes for states and the District of Columbia SHALL be consistent with the codes already assigned in ISO 3166 and currently in general use (e.g., by the U.S. Postal Service). Codes for outlying and associated areas of the United States SHALL be those for which ISO 3166 provides a structure. Codes for provinces and territories SHALL be those already in general use. Codes for other countries and unique areas of the world SHALL be assigned by the maintenance agent so as not to conflict with any of the existing codes.

### **7.3 Network Site Code**

The Network Site Code is an authorized user assigned code developed consistent with licensing guidelines and present in the Maintenance Agent database registry.

### **7.4 Network Entity Code**

The Network Entity Code is an authorized user assigned code developed consistent with licensing guidelines and present in the Maintenance Agent database registry.

### **7.5 Network Support Site Code**

The Network Support Site Code is an authorized user assigned code developed consistent with licensing guidelines and present in the Maintenance Agent database registry.

### **7.6 Customer Site Code**

The Customer Site Code is an authorized user assigned code developed consistent with licensing guidelines and present in the Maintenance Agent database registry.

## 8 Maintenance Agent Duties<sup>3</sup>

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The maintenance agent SHALL be the custodian of the location entities information and will be responsible for the following administrative duties:

- a) Provide for the assignment, definition, and administration of the following location identification data units:
  - Geographical Code
  - Geopolitical Code
  - Network Site Code
  - Network Entity Code
  - Network Support Site Code
  - Customer Site Code
- b) Develop and publish dictionaries of location identification data units outlined in 8(a).
- c) Provide an industry procedure for obtaining knowledge of location entities information, through the obtaining of a COMMON LANGUAGE<sup>®</sup> Products CLLI<sup>™</sup> Code standard level license agreement with Telcordia Technologies, Inc. dba iconectiv.
- d) Provide services and materials under reasonable and nondiscriminatory terms.

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<sup>3</sup> Telcordia Technologies, Inc. dba iconectiv (“iconectiv”) or its equivalent is such a maintenance agent. At the time of approval of this standard, ATIS and the responsible ATIS Forum/Committee that developed the standard were aware of only one maintenance agent, iconectiv, for this requirement. If you are aware of an equivalent or an alternative maintenance agent, please provide this information to the ATIS General Counsel. Your comments will receive careful consideration at a meeting of the responsible Forum/Committee, which you may attend for the purpose of this consideration.

**Annex A**  
(informative)

## A Examples of Format Structures

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**Table A.1 – Example of an eight-character code representation for a Network Site format**

	Geographical Code	Geopolitical Code	Network Site Code
Character Position	1 – 4	5 – 6	7 – 8
Example	CHCG	IL	06

**Table A.2 – Example of an eleven-character code representation for a Network Entity format**

	Geographical Code	Geopolitical Code	Network Site Code	Network Entity Code
Character Position	1 – 4	5 – 6	7 – 8	9 – 11
Example	TAMP	FL	AB	CT1

**Table A.3 – Example of an eleven-character code representation for a Network Support Site format**

	Geographical Code	Geopolitical Code	Network Support Site Code		
Character Position	1 – 4	5 – 6	7	8	9 – 11
Example	NWRK	NJ	M	0	001

**Table A.4 – Example of an eleven-character code representation for a Customer Site format**

	Geographical Code	Geopolitical Code	Customer Site Code		
Character Position	1 – 4	5 – 6	7	8	9 – 11
Example	LSVL	KY	1	A	001

**Annex B**  
(informative)

## **B Informative References**

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At the time of publication, the editions indicated were valid. All standards are subject to revision, and users of this document are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ATIS-0401001-0008, CABS (Carrier Access Billing System) Auxiliary Report Specifications - Issue 8.<sup>4</sup>

ATIS-0401004-0010, Multiple Exchange Carrier Access Billing (MECAB).<sup>4</sup>

ATIS-0401005-0015.1, Small Exchange Carrier Access Billing (SECAB).<sup>4</sup>

ATIS-0404000-0053 thru ATIS-0404028-0053, Access Service Request Guidelines (ASR).<sup>4</sup>

ATIS-0404110-0028, Unified Ordering Model – Access Service Request (UOM ASR) Volume I.<sup>4</sup>

ATIS-0404120-0009, Multiple Exchange Carrier Ordering and Design (MECOD) Design Layout Report Guidelines for Access Service.<sup>4</sup>

ATIS-0404130-0012, Design Layout Report Guidelines For Access Service - Industry Support Interface (DLR-ISI).<sup>4</sup>

ATIS-0404160-0006, Trunk Group Service Request.<sup>4</sup>

ATIS-0405000-1402, Local Service Ordering Guidelines (LSOG).<sup>4</sup>

ATIS-0410002-0028, Unified Ordering Model – Access Service Request UOM-ASR Volume II – Analysis.<sup>4</sup>

ATIS-0410003-0028, Unified Ordering Model – Access Service Request UOM-ASR Volume III – Design.<sup>4</sup>

ATIS-1000113, Signaling System No. 7 (SS7) – Integrated Service Digital Network (ISDN) User Part.<sup>4</sup>

GR-1100-CORE, Billing Automatic Message Accounting Format (BAF) Generic Requirements.<sup>5</sup>

GR-246-CORE, Specification of Signalling System Number 7.<sup>5</sup>

GR-831-CORE, Operations Application Messages - Language For Operations Application Messages, Transaction Language 1 (TL1).<sup>5</sup>

GR-833-CORE, TL1 Surveillance and Maintenance Messages.<sup>5</sup>

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<sup>4</sup> These documents are available from the Alliance of Telecommunications Industry Solutions (ATIS) at < <https://www.atis.org/docstore/> >.

<sup>5</sup> These documents are available from Ericsson Inc. at < <http://telecom-info.telcordia.com/site-cgi/ido/index.html> >

**Annex C**  
(informative)

## **C Assignment of Maintenance Agent**

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The maintenance agent for this standard is:

Telcordia Technologies, Inc. dba iconectiv  
Common Language® Standards Customer Support Center  
444 Hoes Lane  
Piscataway, NJ 08854-3923  
+1 (877) 699-5577  
Email: <[clsc@iconectiv.com](mailto:clsc@iconectiv.com)>  
Website: <<http://www.commonlanguage.com/>>

**Annex D**  
(informative)

## **D Recognition of Other Location References**

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This annex is included to provide additional information only and is not essential for the completion of the requirements as defined in this standard.

Application and Data Identifiers for identifying location reference:

- ANSI MH10.8.2 Data Identifier and Application Identifier Standard,  
< <http://www.mhi.org/standards> > MH 10 Data Identifiers (Continuous Maintenance Version)

Other location codes/references:

- UN Location Codes < <http://www.unece.org/cefact/locode/welcome.html> >
- Geographic Locator Codes (GLCs) < <http://www.gsa.gov/portal/content/104507> >
- GS1 Global Location Number (CLN) < <http://www.gs1.org/gln> >
- A Uniform Resource Identifier for Geographic Locations ('geo' URI)  
< <http://www.rfc-editor.org/info/rfc5870> >
- World Geodetic System  
< <https://www.nga.mil/ProductsServices/GeodesyandGeophysics/Pages/WorldGeodeticSystem.aspx> >

For more detailed information, use the above given links.

NOTE: Websites are a constantly involving entity; please note the links above may change. If a link is no longer valid but may be useful to proceed to the root website of the link in order to start a search (e.g., < <http://www.gsa.gov> >).