

# iconectiv COMMON LANGUAGE<sup>®</sup> Location Information Services

Consistently and accurately defining a location is important when communicating between individuals, departments and companies. Ordering, provisioning, interconnection and servicing are key areas requiring the accurate description of a location, often not satisfied with GPS coordinates or street addresses. Frequently, companies believe they can make do with their own representation of a location only to find their management of locations has become an expensive, complex affair, with numerous entries for the same place, different interpretations of a location and either not enough information, or too many versions of the same information, to fulfill a task.

When interconnecting between service providers, a service provider's point-of-interface (POI) needs to be communicated in a clear, unambiguous form. With a single street having multiple names, this can be a challenge. Without a uniform approach to location identification, automating the process of interconnection or communicating location is near impossible, forcing stakeholders to manually identify and quality check location information.

Location definition and clarity is often underestimated, with those entering the location information not appreciating the needs of the consumers of that information. Importantly, stricter financial rules are requiring service providers to identify the location of their assets; this is not easy when the location information is represented by a GPS location of a 17 floor building or via a full postal address, with its associated inconsistencies around road names and lack of detail around what is at that location. Lack of discipline in managing the location information leads to significant overheads and requires additional layers of quality control to avoid mistakes. Simple differences such as naming Main Street as Main St. or where a single location has multiple names can cost a service provider thousands in errors and correcting those errors.

Managing location information is more than just describing an address. The type of location, ensuring it is uniquely described internally and between other companies, the use of that location and the equipment available there are used for tracking and

Defining a location is important

Not satisfied with GPS coordinates

Numerous entries for the same place

A single street can have multiple names

Automate the communication of locations

Those entering location information may not appreciate the needs of the consumers of that information

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Managing a location is more than just describing an address

running a complex business. Through the discipline and experience of Common Language the management of the locations becomes efficient, allowing the service provider to concentrate on delivering services to their customers.

### **CLLI Codes**

The CLLI code is an 11 character, globally unique code that represents a physical location for a network site (cell sites, central offices, customer locations, hut's CEV's, poles, manholes) and what type of functionality that site represents (session border controller, wireless switch, NCTE, PBX etc). CLLI codes facilitate rapid and accurate communication of points of interface for interconnection. CLLI codes may also be used to identify the precise location of assets for regulatory and operational reasons. A CLLI is required for NPA/NXX assignment and for the ASR/LSR process.

### **CLONES and Locatelt**

CLONES is the centralized database of location information of a number of the world's largest service providers. The combination of CLONES and Locatelt provides support for complex address analysis enabling:

- the identification of duplicate addresses, such as: Main Str and Main Street,
- the understanding that two street names may represent the same location, e.g. 111th St and College Blvd,
- the determination of whether a CLLI already exists for that location, by Latitude and Longitude coordinates, under the same or alternative name.
- confidence in the accuracy of the location position and location type information.

### **Reduce Costs**

Service providers spend precious resource deliberating over: naming locations according to some internal standard, analysing reports for consistency and accuracy, correcting errors in the communication of location information and translating location information between various standards.

### **CLLI Code**

- 11 character standardized location code to represent locations and their use (e.g. outside plant site types, switches, etc)
- Required for NPA/NXX assignment
- Required on ASR/LSRs
- Electronic communication of location information

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### **CLONES/Locatelt**

- Central repository of location information
- Remove duplication of address information
- Lookup of interconnection points of other service providers

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### **Cost Saving**

- Remove the need to translate various methods of defining locations
- Remove issues related to duplicate entries for the same location
- Reduce the overhead of internally managing location naming – software & human resources

Common Language Location Information Services subscribers make use of the CLLI standard and work with other service providers to keep the standard relevant and consistent, saving the reinvention of the wheel when managing locations internally and the removing the need for bespoke translation solutions when communicating between fellow subscribers.

## Resources Available with a Subscription

- CLONES/Locatelt and CLLI Codes
- Support from our CLLI Subject Matter Experts
- XML Extracts of the CLONES database
- Industry forums for service providers to meet and discuss the evolution and best practice of implementing Common Language with other service providers.
- iconectiv policy management of key data elements, ensuring consistency in the data
- Coding discipline and implementation support from Common Language data infrastructure experts.
- Key documentation, including, but not limited to:
  - BR-751-100-050, COMMON LANGUAGE® Geographical Codes
  - BR-751-100-055, COMMON LANGUAGE® Geographical Code Description and Listings
  - BR-751-100-460, Switching System Codes
  - BR-751-100-440, Switching System Codes Private Branch Exchange (PBX) Centrex and Special Service
  - BR 795-100-100, CLLI™ Codes Description for Location Identification

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