

# NC/NCI™ information services

Ultimately, all services are both ordered as and delivered via network links or connections that provide very specific capabilities. These connections need to be ordered, designed and activated. iconectiv® TruOps Common Language® Connection Information Services consist of a series of code sets that can be used to describe in technical detail what kind of network connections a provider seeks to order from another provider or from an organization within its own company. Without a single, consistent means to communicate connection details: processing time and error recovery time increase; increasing costs and therefore hitting the bottom line of any service provider's balance sheet.

Network Channel and Network Channel Interface codes enable the specification of services typically used to support interconnection within a Service Provider and between Service Providers. NC stands for Network Channel and represents the "pipe" being ordered. NCI stands for Network Channel Interface; there are two NCIs for each specified NC and they describe the engineering characteristics of the NC endpoints.

In the USA the NC/NCI codes are used extensively between service providers to define how they intend to interconnect. NC/NCI codes accurately communicate technical attributes of services, facilities and their associated interfaces and are used on inter-carrier ordering forms that are for the most part processed electronically and in an automated manner.

As with all Common Language codes, NC/NCI codes enable electronic transmission of information in a standard, clear, concise and meaningful way. This means that the NC/NCI codes can be integrated within a Service Provider's OSS and, further, standardized across an inter-Service Provider interconnection ordering interface.

A major part of the ASR/LSR process, NC/NCI codes are published in iconectiv NC/NCI subscribers carrier coding guides. iconectiv create and manage the NC/NCI code definitions and maintain over 4 million valid combinations, ensuring interconnection orders are right the first time.

## NC/NCI codes

The NC code KDA- describes the type of channel. e.g. 10Mbps Ethernet along with the optional features, e.g. full duplex LAN. The NCI code 02LNF. A02 describes a 2 conductor, LAN, Fiber interface with interface options A02, which is just one of many configurations of this interface. It's easy to see how confusion can arise when definitions aren't clear; this is made worse when each partner has their own definition. iconectiv facilitates the consistent definition of NC/NCI codes and the maintainance of the valid combinations across the industry, enabling service providers to concentrate on selling and delivering their services rather than dealing with issues related to misunderstandings.

## alignment with interconnection partners

The codesets receive hundreds of additions and amendments each year as service providers establish new offerings. Through Common Language, service providers are able to keep in-sync with the valid combinations of NC and NCI code. Without NC/ NCI, the synchronizing of service definitions between interconnection partners would involve manual processes or expensive, bespoke solutions. Standardizing on the language between interconnection partners plays a large part in automated service ordering. Without Common Language service providers face all sorts of issues when ordering and delivering new services.

# TruOps Common Language

## iconectiv provides value

Defining, agreeing, producing and maintaining wholesale/buy services is a constant effort. New services, new partners, and new packages all required constant monitoring and management. The addition of having to manage the data dictionary for the naming of these services just adds to the work load. iconectiv has been managing and maintaining an industry standard for communicating services with interconnection partners since the 1980s and, not only saves its customers effort, but provides a level of standardization superior to that which can be achieved by any one service provider iconectiv provides a Common Language to the industry.

- All services are delivered via connections
- A single, consistent connection definition saves time and money
- NC/NCI Codes enable interconnection and integration of connection definitions across the OSS, and automate the communication of interfaces
- iconectiv NC/NCI subscribers can publish NC/NCI codes in their carrier coding guides

NC Code Content	NCI Code content
4 character standardized code to represent the pipe	12 character standardized code to represent each end of the pipe
Provides an industry standard description of what the connection channel type is	Provides an industry standard description of what the connection type is
Required on ASR/LSRs	Required on ASR/LSRs
Electronic communication of connection information	

### about iconectiv

As the authoritative partner of the communications industry for more than 30 years, iconectiv's market-leading solutions enable the interconnection of networks, devices, and applications for more than two billion people every day. Working closely with private, government and non-governmental organizations, iconectiv continues to protect and secure telecommunication infrastructures for service providers, governments and enterprises, while providing network and operations management, numbering, registry, messaging and fraud and identity solutions to more than 1,200 organizations globally. A US-based company, Telcordia Technologies, does business as iconectiv.

## cost saving

- Prevents delays due to incorrect interface expectations
- Prevents disputes between connecting partners
- Enables automated ordering
- Reduce the overhead of internally managing connection naming – software & human resources

## resources available with a subscription

- NC & NCI Codes
- NC/NCI compatibility guide
- Access to our NC/NCI Subject Matter Experts
- 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-795-403-101**, COMMON LANGUAGE® Network Channel and Channel Interface codes – Compatibility Guide

**BR-795-403-100**, COMMON LANGUAGE® Network Channel and Channel Interface codes

**BR-751-000-157**, COMMON LANGUAGE® Service and Product Enhancement code (SPEC) Catalog

### NC/NCI code set data (Excel)

(at additional cost)

### make the connection.

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