

# NALENND™

North American Local Exchange NPA NXX Database

## Gold Edition

### Data Set / File Specifications

Each file included with this product is a flat ASCII text, comma-separated-value (CSV) formatted data file. Each file contains a single header row that contains the column headings followed by one or more data rows. Each element (data value or column heading) within a row is terminated by a single ASCII comma ',' character. The final element in each row is terminated by an ASCII carriage return/line feed (CR/LF ) character combination. Data elements or values are encapsulated using "Double Quotes" if the data value itself contains a comma ',' character.

File	Description
phonegold.csv	NPA NXX master assignments data
lata.csv	LATA code to LATA name cross-reference
county.csv	FIPS county cross-reference data
cbsa.csv	Core Based Statistical Area cross-reference data
ocn.csv	Operating Company Number cross-reference data
msa.csv	Historical Metropolitan Statistical Area cross-reference data

Quentin Sager Consulting, Inc.  
20429 Ring Neck Road  
Altoona, FL 32702  
USA

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## FIELD DESCRIPTIONS: phonegold.csv

Field	Description
NPA	3-digit Number Plan Area, commonly referred to as the telephone area code.
NXX	3-digit Central Office Code or Destination Code, also referred to as the telephone exchange or prefix. The 3-digit NPA combined with the 3-digit NXX form the National Destination Code (NDC) for the North American Numbering Plan.
BLOCK_ID	<p>Single character or digit identifying the block assignment.</p> <p>A 10,000 block level record is identified by an “<b>A</b>” character and implies line assignments 0000 through 9999.</p> <p>A 1,000 block level assignment is identified by a single digit “<b>0</b>” through “<b>9</b>” and identifies the line assignments x000 through x999 where x is the identifying block digit.</p> <p><i>Non-pooled assignment</i></p> <p>For a non-pooled assignment this field will contain an “A” to identify the NPA NXX has been assigned to the Code Holder (OCN) at the 10,000-block level per the Central Office Code Assignment Guidelines.</p> <p><i>Pooled assignment</i></p> <p>Pooled NPA NXX assignments are made by the Pooling Administrator at the 1,000 block level. An “A” record will be present and is used for default processing and routing when 1,000 block is not present. The OCN specified in the “A” record is the LERG Assignee, carrier assignments are identified at the 1,000 block level.</p>
TBP_IND	<p>Thousands-block pooling indicator (applicable to the United States only).</p> <ul style="list-style-type: none"> <li>• <b>Y</b> – The NPA NXX is part of a pool within the given NPA where numbers are assigned 1,000 line at a time by the Pooling Administrator. The OCN specified in the “A” record identifies the LERG Assignee for administrative purposes. Carrier assignments are identified at the 1,000 block level.</li> <li>• <b>N</b> or <b>blank</b> - The NPA NXX is not pooled and is assigned at the 10,000 block level. The OCN field identifies the Central Office Code Holder.</li> </ul>
LATA	<p>The three or five-digit Local Access and Transport Area (LATA) or LATA-like code of this record’s Rate Center <i>or locality</i>.</p> <ul style="list-style-type: none"> <li>• Five digit LATA codes are currently found in Florida only. The last two digits of the code are the LATA sub-zone identifying Florida Equal Access Exchange Areas (EAEAs). Established by the Florida Public Utility Commission, applicability pertained to BellSouth and was adhered to by some major independent carriers in the areas. Florida LATA data may or may not be used to qualify the Subzone depending on the carrier involved.</li> <li>• LATA 99999 may be found for some records. These are <i>generally</i> cases of ODDBALL NXXs or associated data where the data is not necessarily associated with a single LATA.</li> <li>• In some cases the LATA entry might be different from the geographical LATA of the switch. This entry identifies the LATA (<i>or Point of Interface POI</i>) to which</li> </ul>

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	Interexchange Carriers deliver traffic for access to the NXXs assigned to the particular switch.
LTYPE	<p>Single character alphanumeric value identifying the basic line type of the NPA NXX.</p> <ul style="list-style-type: none"> <li>• <b>S</b> – Wireline, non-wireless service including POTS, Broadband etc.</li> <li>• <b>C</b> – Wireless type service including PCS, Cellular, GSM, etc.</li> <li>• <b>P</b> – Paging and other Messaging services.</li> </ul>
STATE	<p>Two-character state or province abbreviation of the exchange's Rate Center or locality. These are standard postal abbreviations which differ from the same COMMON LANGUAGE® assignments.</p> <p>The exceptions are as follows with the COMMON LANGUAGE® parenthesized next to the location name.</p> <ul style="list-style-type: none"> <li>• <b>AS</b> – American Samoa (AM)</li> <li>• <b>MP</b> – Northern Mariana Islands (NN)</li> <li>• <b>NL</b> – Newfoundland Labrador (NF)</li> <li>• <b>QC</b> – Quebec (PQ)</li> <li>• <b>NU</b> - Nunavut Territory (VU)</li> </ul>
COUNTRY	<p>Two-character ISO 3166-1 Country Code of the exchange's rate center country location.</p> <p>Telecommunications industry specific databases normally use abbreviations based on COMMON LANGUAGE® assignments. The COMMON LANGUAGE® country codes are those parenthesized values next to the country name.</p> <ul style="list-style-type: none"> <li>• <b>US</b> - United States (US)</li> <li>• <b>CA</b> – Canada (CA)</li> <li>• <b>BS</b> – Bahamas (BA)</li> <li>• <b>BB</b> – Barbados (BD)</li> <li>• <b>AI</b> – Anguilla (AI)</li> <li>• <b>AG</b> - Antigua and Barbuda (AN)</li> <li>• <b>VG</b> - Virgin Islands, British (BV)</li> <li>• <b>KY</b> - Cayman Islands (CQ)</li> <li>• <b>BM</b> – Bermuda (BM)</li> <li>• <b>GD</b> – Grenada (GN)</li> <li>• <b>TC</b> - Turks and Caicos Islands (TC)</li> <li>• <b>MS</b> – Montserrat (RT)</li> <li>• <b>LC</b> - Saint Lucia (SA)</li> <li>• <b>DM</b> – Dominica (DM)</li> <li>• <b>VC</b> - Saint Vincent and the Grenadines (ZF)</li> <li>• <b>DO</b> - Dominican Republic (DR)</li> <li>• <b>TT</b> - Trinidad and Tobago (TR)</li> <li>• <b>KN</b> - Saint Kitts and Nevis (KA)</li> <li>• <b>JM</b> – Jamaica (JM)</li> </ul>
RC	The non-abbreviated name of the exchange's Rate Center or locality. This name is used to identify the geographic area served by the NPA NXX.
SWITCH	Eleven character Common Language Location Identifier® (CLLI) code of the switch or point of interface serving the NPA NXX.

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	For NXXs Caribbean and Bermuda NPAs, the SWITCH field may be populated with SWCHxxUNKNO, where xx identifies the countries or territories in the Caribbean or Bermuda.
ZIP	<ul style="list-style-type: none"> <li>• <b>United States</b> – contains the first 5-digit ZIP code found for the exchange locality within the Rate Center.</li> <li>• <b>Canada</b> – contains the first postal code Forward Sortation Area code for the exchange within the Rate Center.</li> </ul>
ZIP2	Second United States ZIP code or Canadian postal code Forward Sortation Area code for the exchange locality.
ZIP3	Third United States ZIP code or Canadian postal code Forward Sortation Area code for the exchange locality.
ZIP4	Fourth United States ZIP code or Canadian postal code Forward Sortation Area code for the exchange locality.
FIPS	County or county equivalent code <ul style="list-style-type: none"> <li>• <b>United States</b> – 5-digit Federal Information Processing System (FIPS) county code.</li> <li>• <b>Canada</b> – 4-digit Statistics Canada census division code</li> </ul>
FIPS2	Second county or county equivalent code.
FIPS3	Third county or county equivalent code.
CBSA	Metropolitan statistical area code <ul style="list-style-type: none"> <li>• <b>United States</b> – 5-digit Office of Management and Budget to the Core Based Statistical Area (CBSA) code</li> <li>• <b>Canada</b> – 3-digit Statistics Canada Census Metropolitan Area (CMA) or Census Agglomeration (CA) code</li> </ul>
CBSA2	Second metropolitan statistical area code.
MSA	Four-digit code of the Metropolitan Statistical Area (MSA) the rate center is located in if any. This field is maintained for historical cross-reference. MSA codes have been replaced with the five-digit CBSA code.  United States exchanges only.
PMSA	Four-digit code of the Primary Metropolitan Statistical Area (PMSA) the rate center is located in if any. If a PMSA code is present then the MSA code is recognized as a Consolidated Metropolitan Statistical Area (CMSA) code. This field is maintained for historical cross-reference. MSA codes have been replaced with the five-digit CBSA code.  United States exchanges only.
LATITUDE	Latitude in decimal degrees of the general exchange locality.
LONGITUDE	Longitude in decimal degrees of the general exchange locality.
OCN_CATEGORY	Single character field identifying the general carrier “type” of the OCN. <ul style="list-style-type: none"> <li>• <b>B</b> - Regional Bell Operating Company RBOC - one of seven corporations created to provide local exchange service as part of AT&amp;T’s 1984 divestiture. These companies include Ameritech, Bell Atlantic, BellSouth, NYNEX, Pacific Bell, Southwestern Bell and US WEST, which were formed from the 22 “Bell Operating Companies (BOCs) operating in 1984.</li> </ul>

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	<ul style="list-style-type: none"> <li>• <b>L</b> - Independent Telephone Company (ILEC or ICO) - the initial telephone company that provides wire line local exchange service in a non-RBOC geographical area.</li> <li>• <b>C</b> - Competitive Local Exchange Carrier CLEC - a wire line based local exchange (switched and non-switched) carrier serving in a geographical area that is already served by an incumbent local exchange carrier (RBOC or ICO). This category also includes Competitive Access Providers, Unbundled local exchange carriers, and local service resellers.</li> <li>• <b>W</b> - Personal Communications Service PCS – a company that provides Personal Communications Service to its customers pursuant to FCC Regulations Part 24. This category also includes companies sanctioned to provide local exchange service on a non-wire line (wireless) basis pursuant to FCC Regulations Part 22.</li> <li>• <b>P</b> - Same as non-PCS wireless service providers but used to distinguish those carriers providing primarily paging and messaging services from other non-PCS wireless providers.</li> <li>• <b>I</b> - Inter-exchange carrier. Generally a carrier providing long distance and/or local toll services.</li> </ul> <p>Note: Both ICO and RBOC are classified as Incumbent Local Exchange Carriers (ILECs).</p>
OCN	Four-character NECA assigned Operating Company Number used to identify a carrier and/or service provider. A carrier may have multiple OCN codes.
DERIVED_FROM_NPA	<p>Indicates the previous NPA that existed in the area covered by a given NPA. In cases of overlays, some or all of the previous NPAs may still cover the area. The OVERLAY field should be referenced to determine how to interpret this field.</p> <ul style="list-style-type: none"> <li>• Splits –this field specifies the original NPA that this NPA was created from via a geographic split.</li> <li>• Overlays –this field specifies the original NPA that this NPA now overlays.</li> <li>• If this field is empty or specifies the current NPA then the current NPA is the original or parent NPA.</li> </ul>
NEWNPA	<p>Specifies the new area code to be used with the NXX or new area code(s) created in the same coverage area as the current area code. The OVERLAY field should be referenced to determine how to interpret this field.</p> <ul style="list-style-type: none"> <li>• Splits – if not empty or the value specified is different than the current NPA then this field specifies the new area code that should be used with the current NXX.</li> <li>• Overlay – if present, specifies one or more semi-colon separated area codes that occupy the same coverage area as the current NPA. The area code for the current NXX remains the same.</li> </ul>
OVERLAY	<p>Single character field to determine how the DERIVED_FROM_NPA and NEWNPA fields should be interpreted.</p> <ul style="list-style-type: none"> <li>• O - the NPA is overlaid by one or more NPAS or this NPA overlays one or more NPAS. The DERIVED_FROM_NPA field may be used to determine the overlay direction.</li> </ul>

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	<ul style="list-style-type: none"><li>• P - the NPA is involved in a DERIVED_FROM_NPA split and the exchange is being moved from the NEWNPA parent. If the NEWNPA field is empty, the exchange is remaining in the current NPA and is protected from re-assignment during the split.</li><li>• S - the NPA is being split and the exchange is moving from the current NPA to the NEWNPA</li><li>• empty – if DERIVED_FROM_NPA is not empty then NPA was created from a geographic split of DERIVED_FROM_NPA.</li></ul>
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## FIELD DESCRIPTIONS: ocn.csv

Field	Description
OCN	Four character Operating Company Number (OCN) assigned by the National Exchange Carrier Association (NECA) for the telephone company servicing the exchange.
OVERALL_OCN	Four-character alphanumeric field identifying the Overall Company Code as assigned by the National Exchange Carriers Association (NECA) of the OCN.
TYPE	Type of carrier or service provider <ul style="list-style-type: none"><li>• ILEC – Incumbent Local Exchange Carrier. These entries should be considered equivalent to Independent Telephone Company (ICO).</li><li>• RBOC – Regional Bell Operating Company</li><li>• CLEC - Competitive Local Exchange Carrier</li><li>• CAP - Competitive Access Provider</li><li>• IXC – Inter-exchange Carrier</li><li>• WRSL – Wireless Reseller</li><li>• LRSL – Local Reseller</li><li>• WIRE – Wireless</li><li>• PCS – Personal Communications Service</li><li>• PAGING – Paging and Messaging</li></ul>
NECA	Specifies whether the particular OCN is a National Exchange Carrier Association (NECA) member .
COMPANY	The legal or generally formal name of the service provider.
DBA	The commonly recognized business name of the service provider.

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## FIELD DESCRIPTIONS: county.csv

Field	Description
CountyCode	County or county equivalent code <ul style="list-style-type: none"><li>• <b>United States</b> – 5-digit Federal Information Processing System (FIPS) county code.</li><li>• <b>Canada</b> – 4-digit Statistics Canada census division code</li></ul>
Country	Two character country abbreviation
State	Two character state or province abbreviation
Name	Name of county or county equivalent
Type	Organizational recognition of the county
LandArea	County land area in square miles
Pop2006	U.S. Census Bureau, Population Division or Statistics Canada reported 2006 population

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## FIELD DESCRIPTIONS: cbsa.csv

Field	Description
CBSA	Metropolitan statistical area code <ul style="list-style-type: none"><li>• <b>United States</b> – 5-digit Office of Management and Budget to the Core Based Statistical Area (CBSA) code</li><li>• <b>Canada</b> – 3-digit Statistics Canada Census Metropolitan Area (CMA) or Census Agglomeration (CA) code</li></ul>
CSA	Three-digit Combined Statistical Area code if the CBSA is part of a larger statistical area.
AREA_NAME	Area name
STATE	State or province abbreviation
AREA_TYPE	Recognized area type

## FIELD DESCRIPTIONS: msa.csv

Field	Description
MSA	4-digit code assigned by the Office of Management and Budget to the MSA or PMSA code.
TYPE	Identifies whether the code is an MSA (Metropolitan Statistical Area), PMSA (Primary Metropolitan Statistical Area), or CMSA (Consolidated Metropolitan Statistical Area).
NAME	Official name of the MSA, PMSA or CMSA.
CMSA	2-digit code to identify the CMSA.
POPULATION	Estimated year 2000 population

## FIELD DESCRIPTIONS: lata.csv

Field	Description
LATA	Three-digit field specifies the Local Access Transport Area (LATA) the NPA/NXX is located in. LATA is a predefined boundary for local toll calls.
STATE	Two character state, province, or territory abbreviation of the NPA/NXX Service Center location.
COUNTRY	This two character field is the ISO 3166 Country Code for LATA location
LOCATION	Generalized name defining the LATA location

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## Gold Edition: schema

Overall cross-reference. Preferred record **keys** are **RED**.

```
phonegold.csv : NPA_NXX {  
    NPA number(3) null,  
    NXX number (3) null,  
    BLOCK_ID char(1) null,  
    TBP_IND char(1) null,  
    LATA number(5) null,  
    LTYPE char(1) null,  
    STATE char(2) null,  
    COUNTRY char(2) null,  
    RC varchar(255) null,  
    SWITCH char(11) null,  
    ZIP varchar(5) null,  
    ZIP2 varchar(5) null,  
    ZIP3 varchar(5) null,  
    ZIP4 varchar(5) null,  
    FIPS char(5) null,  
    FIPS2 char(5) null,  
    FIPS3 char(5) null,  
    CBSA char(5) null,  
    CBSA2 char(5) null,  
    MSA number(4) null,  
    PMSA number(4) null,  
    LATITUDE number null,  
    LONGITUDE number null,  
    OCN_CATEGORY char(1) null,  
    OCN char(4) null,  
    DERIVED_FROM_NPA char(3) null,  
    NEWNPA varchar(20) null,  
    OVERLAY char(1) null  
};
```

```
ocn.csv : Operating_Companies {  
    OCN char(4) null,  
    OVERALL_OCN char(4) null,  
    TYPE varchar(8) null,  
    NECA char(1) null,  
    COMPANY varchar(128) null,  
    DBA varchar(128) null,  
};
```

```
lata.csv : LATA {  
    LATA number(5) null,  
    STATE char(2) null,  
    COUNTRY char(2) null,  
    LOCATION varchar(64) null,  
};
```

```
county.csv : County {  
    CountyCode number(5) not null,  
    Country char(2) not null,
```

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```
State char(2) not null,  
Name varchar(128) null,  
Type varchar(80) null,  
LandArea number null,  
Pop2006 number null,  
};
```

```
cbsa.csv : CBSA {  
  CBSA number(5) null,  
  CSA number(3) null,  
  AREA_NAME varchar(64) null,  
  STATE varchar(20) null,  
  AREA_TYPE varchar(64) null  
};
```

```
msa.csv : MSA {  
  MSA number(4) null,  
  TYPE varchar(8) null,  
  NAME varchar(128) null,  
  CMSA number(2) null,  
  POPULATION number null,  
};
```

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## Appendix A – Common states, provinces, and territories

### United States - States and territories

AL	Alabama	NJ	New Jersey
AK	Alaska	NM	New Mexico
AZ	Arizona	NY	New York
AR	Arkansas	NC	North Carolina
CA	California	ND	North Dakota
CO	Colorado	OH	Ohio
CT	Connecticut	OK	Oklahoma
DE	Delaware	OR	Oregon
DC	District of Columbia	PA	Pennsylvania
FL	Florida	RI	Rhode Island
GA	Georgia	SC	South Carolina
HI	Hawaii	SD	South Dakota
ID	Idaho	TN	Tennessee
IL	Illinois	TX	Texas
IN	Indiana	UT	Utah
IA	Iowa	VT	Vermont
KS	Kansas	VA	Virginia
KY	Kentucky	WA	Washington
LA	Louisiana	WV	West Virginia
ME	Maine	WI	Wisconsin
MD	Maryland	WY	Wyoming
MA	Massachusetts	AS	American Samoa
MI	Michigan	FM	Micronesia
MN	Minnesota	GU	Guam
MS	Mississippi	MH	Marshall Islands
MO	Missouri	MP	Northern Mariana Islands
MT	Montana	PW	Palua
NE	Nebraska	PR	Puerto Rico
NV	Nevada	UM	Minor Islands
NH	New Hampshire	VI	Virgin Islands

### Canada - Provinces and territories

AB	Alberta	NU	Nunavut
BC	British Columbia	ON	Ontario
MB	Manitoba	PE	Prince Edward Island
NB	New Brunswick	QC	Quebec
NL	Newfoundland and Labrador	SK	Saskatchewan
NT	Northwest Territories	YT	Yukon
NS	Nova Scotia		

### Mexico - States and territories

AGS	AGUASCALIENTES	MOR	MORELOS
BC	BAJA CALIFORNIA	NAY	NAYARIT
BCS	BAJA CALIFORNIA SUR	NL	NUEVO LEON
CAM	CAMPECHE	OAX	OAXACA
COAH	COAHUILA	PUE	PUEBLA
COL	COLIMA	QRO	QUERETARO
CHIS	CHIAPAS	QROO	QUINTANA ROO

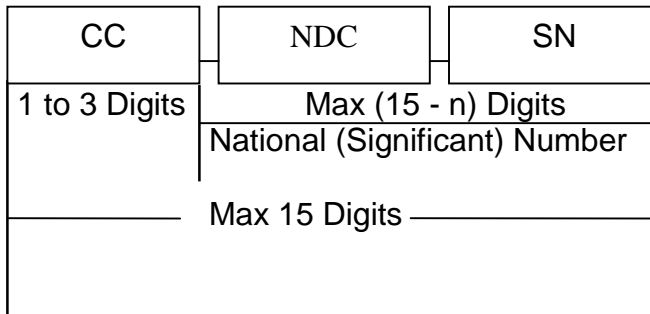
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CHIH	CHIHUAHUA	SLP	SAN LUIS POTOSI
DF	DISTRITO FEDERAL	SIN	SINALOA
DGO	DURANGO	SON	SONORA
GTO	GUANAJUATO	TAB	TABASCO
GRO	GUERRERO	TAM	TAMAULIPAS
HGO	HIDALGO	TLAX	TLAXCALA
JAL	JALISCO	VER	VERACRUZ
MEX	MEXICO	YUC	YUCATAN
MICH	MICHOACAN	ZAC	ZACATECAS

## Appendix B – North American Numbering Plan

Telephone numbers in North America adhere to the ITU Recommendation E.164. The structure of the ITU Recommendation E.164 number is made up of the following fields:



where:

- **CC** - Country Code
- **NDC** - National Destination Code
- **SN** - Subscriber Number
- **n** - the number of digits in the Country Code