



# LSSi CSV Data Supplier Specification

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# OVERVIEW

## Preview

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**INTRODUCTION** This document provides a specification for providing data to LSSi for inclusion in LSSi's national Directory Assistance Database. This format described within this document is based on industry standard CSV (comma-separated values) format. The CSV format is compatible with most spreadsheet applications and database systems.

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**CONTENTS** This guide covers the following topics.

<b>Section</b>	<b>Page</b>
Section 1: CSV Technical Specifications	2
Formatting Rules	
Header Record	
Sample: CSV Data	
Section 2: CSV Field List	3
Field Definitions	
Section 3: List of Changes	7

# SECTION 1

## CSV Technical Specifications

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### FORMATTING RULES

In the LSSI CSV format, each line of the file represents a single record in the LSSI database. Each record is divided into fields separated by a single comma character. The LSSI format does not include spaces before or after the comma separator.

Formatting rules are:

- CSV file is in ASCII format
  - Every field value is enclosed within double quotes, even empty values
  - No leading or trailing spaces surrounding field values
  - Spaces only appear within field value itself
  - CSV header record defines order of field values  
**NOTE:** Required if not in data fields.
  - Embedded quotes are escaped with another quote, resulting in double-quotes. ' "" '
  - Each listing should have the same number of columns as the header
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### HEADER RECORD

CSV header record defines the order of fields in the CSV record. It is subject to all formatting rules defined above. If the header record appears within data feed file, it must be the first record of the file. Optionally, the header record may be sent in a file that is separate from the listings data feed file.

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### SUMMARY FILE

The summary file contains the following value:

- Count- number of CSV records included in the data file. Number does not include the header record if header is first record in data file.
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### SAMPLE CSV DATA

```
"NPA", "TELNO", "SPLIT", "LSTTYP", "LSTSTY", "INDENT", "LSTNM", "LSTGN", "STRT", "LOCNM", "STATE"  
"919", "5551212", "1", "1", "0", "0", "Smith", "John", "12 Main St", "Durham", "NC"  
"919", "5551313", "1", "1", "0", "0", "Doe", "Jane", "", "Durham", "NC"  
"919", "5552121", "4", "1", "0", "0", "Bob's", "Garage", "567 Mechanics Ave", "Durham", "NC"
```

- Line 1- header record defining CSV fields
- Line 2-4 - listing records

**NOTE:** Fields that do not have data, like STRT for Jane Doe listing, still contain double quotes.

**NOTE:** Data field may contain more or less fields for each record than those shown in example.

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# SECTION 2

## CSV Field List

### ABOUT FIELD LIST

Below is the list of possible fields currently understood by the LSSi system that may be present in the CSV data file. The header record should, at least, contain the required field names.

#### \* Fields required

Field	Length	Definition
* NPA	3 numeric	Listed NPA (area code) used for display. <b>NOTE:</b> Must be a valid NPA. Populate with "000" for listings without telephone numbers (cross-reference, NP, etc.)
* TELNO	7 numeric	Listed telephone number. Populate with "0000000" for listings without telephone numbers (cross-reference, NP, etc.) <b>NOTE:</b> Required if LSTTYP has value of 3.
* XCODE	1 alpha	Required for updates. Transaction code. I=in, O=out.
MNPA	3 numeric	Match NPA is useful for placing foreign listings into the desired NPA/book. For foreign listings, MNPA should contain the NPA of the book in which the listing should appear. <b>NOTE:</b> Must be a valid NPA.
OCN	variable (255 max) alphanumeric	Operating Company Number. Field contains 4 character abbreviation of telephone source provider.
* RECID	variable (255 max) alphanumeric	Required for updates. Unique record id.
NSTEL	variable (255 max) alphanumeric	Nonstandard telephone number. Field contains telephone number that consists of something other than standard 10 digits. <b>For example:</b> 411, 611, 800 FLOWERS
* SPLIT	1 numeric	Split indicator. Indicate if the listing is a Business, Government, or Residential listing. Permitted values are: <ul style="list-style-type: none"> <li>• 1 Residential</li> <li>• 2 Government</li> <li>• 3 Government/Residential</li> <li>• 4 Business</li> <li>• 5 Business/Residential</li> <li>• 6 Business/Government</li> <li>• 7 Business/Government/Residential</li> </ul>
* LSTTYP	1 numeric	Listing type. Permitted values are: <ul style="list-style-type: none"> <li>• 1 Listed telephone number</li> <li>• 2 Nonlisted telephone number</li> <li>• 3 Nonpublished telephone number</li> </ul>

* LSTSTY	1 numeric	<p>Listing style. Indicates how listing record is to be processed and displayed. Permitted values are:</p> <ul style="list-style-type: none"> <li>• 0 Straight-line listing</li> <li>• 1 Straight-line undent (SLU set) header</li> <li>• 2 Indent under a straight-line undent header or indent.</li> <li>• 8 Caption set header (no phone number on top heading)</li> <li>• 9 Caption set subheader</li> <li>• 6 Indent under caption header, subheader, or indent</li> </ul>
* INDENT	1 numeric	<p>Degree or level of indentation used for each record during display generation. Permissible values are 0 through 7. Straight-line listings (LSTSTY= 0) and set headers (LSTSTY= 1 or 8) only have an indent level of zero. All other listings, indent level must be between 1 and 7.</p> <p><b>NOTE:</b> For indents, value must be at least 1 and not increase by more than 1 for each consecutive level of indentation. Moreover, for any indent record of level N, where N is greater than 0, the parent record must have an indent level equal to N-1.</p> <p><b>For example:</b> A caption set is considered improperly formatted if any indent immediately underneath caption set header (parent with indent level= 0) has indent level of more than 1. A parent record may have multiple indents with same level, each of which may have multiple indents.</p>
* LSTNM	variable (255 max) alphanumeric	<p>Listed finding name. Field used for display. Residential listings will contain subscriber surname with punctuation.</p> <p><b>For example:</b> Smith or O'Tool</p> <p>For business or government listings, field should contain first word of business/agency name including punctuation.</p> <p><b>For example:</b></p> <p style="padding-left: 40px;">Lowe's United Pete's</p>

* LSTGN	variable (255 max) alphanumeric	Listed given name/title/designation. Display field contains all of the other words of subscriber name not listed in the LSTNM field. The LSTGN field together with the LSTNM field makes up the complete subscriber name. <b>For example:</b> <table style="margin-left: auto; margin-right: auto; border: none;"> <tr> <td style="text-align: center;"><u>LSTNM</u></td> <td style="text-align: center;"><u>LSTGN</u></td> </tr> <tr> <td style="text-align: center;">Smith</td> <td style="text-align: center;">John</td> </tr> <tr> <td style="text-align: center;">Lowes</td> <td style="text-align: center;">Hardware</td> </tr> <tr> <td style="text-align: center;">United</td> <td style="text-align: center;">States Mint Information</td> </tr> <tr> <td style="text-align: center;">Pete's</td> <td style="text-align: center;">New &amp; Used Auto Sales</td> </tr> </table>	<u>LSTNM</u>	<u>LSTGN</u>	Smith	John	Lowes	Hardware	United	States Mint Information	Pete's	New & Used Auto Sales
<u>LSTNM</u>	<u>LSTGN</u>											
Smith	John											
Lowes	Hardware											
United	States Mint Information											
Pete's	New & Used Auto Sales											
FTD	variable (255 max) alphanumeric	Full title and designation field. Contains all titles and designations from subscriber name. Used for sequencing and matching, not display.										
FSN	variable (255 max) alphanumeric	Fully spelled name containing all the words of subscriber name, not including titles, designations, or special characters. Used for sequencing and matching, not display. <b>NOTE:</b> Must contain only characters ( A-Z, a-z, 0-9).										
DIRTX	variable (255 max) alphanumeric	Directive text. Field contains display data for listed name and address (e.g., MASTER PLUMBER). During display generation, data generally appears after name and before address to an operator. <b>NOTE:</b> For an indent record, field should be displayed instead of listed finding name (LSTNM) and listed given Name/title/designation (LSTGN).										
* STRT	variable (255 max) alphanumeric	Listed street address. <b>For example:</b> 123 South Main St. SW										
* LOCNM	variable (255 max)	Locality name. Field contains the city for the given listing.										
* STATE	2 alpha	State/province abbreviation. <b>NOTE:</b> Must be valid USPS state abbreviation.										
ZIP	5 or 9 numeric	USPS Zip code. While optional, the use of this field is strongly encouraged; it will help with operator retrieval. <b>NOTE:</b> Must be a valid USPS postal code. ( 5 or 9 numeric digits).										
COUNTY	variable (255 max) alpha	County subscriber address belongs.										
SPLTX	variable (255 max) alphanumeric	Special listing text. Field contains special display-only text that generally appears following listed address and before telephone number to an operator (e.g. NO CHARGE TO CALLING PARTY). (non-searchable)										
SICCODE	variable (255 max) alphanumeric	Business category code.										
GEO_LAT	variable (255 max) alphanumeric	Geo code latitude number for listing. Latitude displays in decimal degrees. Latitude number has either an N or S (North or South) indicator appended to it. <b>For example:</b> 37.780968N										

GEO_LONG	variable (255 max) alphanumeric	Geo code longitude number for listing. Longitude displays in decimal degrees. Longitude number has either a W or E (West or East) indicator appended to it. <b>For example:</b> 122.41707W
GEO_ACC	variable (255 max) numeric	Geo code accuracy. If no accuracy value is present, GEO_LAT and GEO_LONG fields do not contain values. Permitted values are: <ol style="list-style-type: none"> <li>1 Rooftop</li> <li>2 Block level</li> <li>3 Within a few blocks</li> <li>4 Center of 5-digit zip</li> </ol>

## SECTION 3

### List Of Changes

12/07/03	Draft version released
05/11/04	Version 1.0 - OCN added
10/13/05	Version 1.1 - Field lengths added to CSV Field List - XCODE added - altered how embedded quotes are handled from backslash to double-quotes