

# **NENA Wireless (Pre-XML) Static and Dynamic ALI Data Content Technical Information Document**



NENA Wireless (Pre-XML) Static and Dynamic ALI Data Content Technical Information Document  
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Content Working Group

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## **1 Executive Overview**

### **1.1 Purpose and Scope of Document**

There has been a growing concern, among public safety administrators in various states and other interested parties, about the increasing degree of inconsistency in the use of specific E9-1-1 data fields for varying types of ALI-related data items. While this has provided a degree of customization to support varied PSAP data processes, it also has driven a large set of variations in SCP and MPC programming, and in ALI server data handling, along with expensive customizing of CAD and Mapping system software. As in other aspects of 9-1-1 data handling, what might be considered a positive situation - a high degree of flexibility - also can carry a high degree of complexity, when the national level view is considered. As a result, a balance between flexibility and complexity usually provides necessary real service capabilities with simplification and overall cost savings, due to lessened complexity.

While many wireless E9-1-1 implementations have already occurred, and indeed caused many of the above complications, about two-thirds of the combined Phase I and Phase II service projects still remain to be completed. If more consistent ALI data management standards can be implemented through common agreement among the major service providers within the next few months, simplification and cost savings can result for many of the remaining service deployments.

The Wireless ALI Content Team was established to provide a means to this objective, by identifying dynamic and static ALI data field content definitions and recommendations. Another Emergency Services Interconnection Forum (ESIF) Study Group is working an item about standardized messaging for the ALI screen, and generating a requirement among all wireless service types for the data parameter that drives class of service (or other messaging to the calltaker), so that the 9-1-1 calltaker clearly understands what wireless data type they are looking at. The liaison to TR45.2 has been drafted for that. Roger Hixson is chairing that Study Group, partly to help coordinate that work with the WACT and NENA standards work.

It is believed that use of these recommendations can be consistent with and supportive of already established standards, such as J Standard data definitions, while expanding to meet practical experience based needs.

Boundaries of this Technical Information Document:

- ALI screen display format standardization is not an objective
- Wireless ALI data requirements are not limited by strict interpretation of the FCC Mandates or J standards – practical data needs will drive practical standards for this effort

Objectives of the Wireless ALI Content Team:

- a maximum of available state-level work in this area will be taken into account
- the work and output of the NENA Wireless Operations Committee (WOCT) will be integrated into the work of the WACT
- all proposals made by the WACT will be reviewed with the NENA Technical and Operations Committees

- WACT proposals, leading to recommendations, and possibly a NENA Standard, will consider cost to implement, and may require limited variations due to established approaches to ALI display structure
- It is expected that WACT recommendations or resulting Standards will be implemented in parallel with wireless E9-1-1 implementations, and will not unduly delay service implementations under way prior to the publication of such recommendations or Standards.
- Current NENA standards, especially the NENA 4 data exchange XML standard, will be a primary consideration for consistency in data field naming, etc. An objective of this effort has been to avoid any complications in moving from pre-XML to XML data handling within the E9-1-1 systems.
- The sequence of data fields utilized in ALI screen displays around the nation may have an impact on the above objectives, in terms of wireless field usage and logical presentation of wireless data items to the calltaker.

## **1.2 Reason for Issue**

Objectives of this Technical Information Document:

- Provide national NENA best practice recommendations on wireless E9-1-1 ALI data content, ALI field usage, and data relationships, such that the E9-1-1 calltaker receives complete data with a maximum of clarity and with consistency of data elements and meaning across all carriers and their vendors.
- Provide a resulting best practice for data provision from wireless carriers and/or their vendors in support of the above objective.
- Nationally define how each system's logic will contribute to improved consistency of data handling, based on improved and commonly accepted data definitions, and reach agreement on how traditional ALI fields will be utilized to carry wireless data items

## **1.3 Reason for Reissue**

NENA reserves the right to modify this document. Whenever it is reissued, the reason(s) will be provided in this paragraph.

## **1.4 Recommendation for Standards Development work**

No standards work is need at this time. XML wireless fields already exist and NENA 05-001 exists for the wireless E2 interface.

## **1.5 Cost Factors**

There will be initial costs experienced during transition to standardized field content usage. These transition costs will minimize and possibly remove costs experienced in the current processes having to understand and conform to the multiple field content usages in place today among carriers and vendors.

## 1.6 Acronyms/Abbreviations

This is not a glossary! See [NENA Master Glossary](#) of 9-1-1 Terminology located on the NENA web site for a complete listing of terms used in NENA documents.

<b>The following Acronyms are used in this document:</b>	
ALI	Automatic Location Identification
ANI	Automatic Number Identification
ATIS	Alliance for Telecommunications Industry Solutions
ESIF	Emergency Services Interconnection Forum
TR 45.2	Telecommunications Industry Association Subcommittee responsible for “Wireless Intersystem Technology - Mobile and Personal Communications Standards”

## **2 Static Data Elements Delivered to ALI DB by Wireless Service Provider**

**Exhibit 1** suggests the pre-XML data sets and appropriate content to be utilized for the static data elements defined by WACT. This data message is to be delivered to the ALI database service provider by the Wireless Service Provider or their agent prior to commencing of service in each specific area

## **3 Dynamic Data Elements Delivered to E9-1-1 System**

**Exhibit 2** suggests the pre-XML data sets and appropriate content to be utilized for the dynamic data elements defined by WACT. This data message is to be delivered to the ALI database service provider or E9-1-1 System by the Wireless Service Provider or their agent for each 9-1-1 call originating on the Wireless Service Providers switch.

## **4 Data Exchange between ALI Database and PSAP**

Data exchange between the ALI database and the PSAP CPE is dependent upon the data message sets currently supplied by the ALI database Service Providers. Prior to the implementation of XML, data sets will provide considerable flexibility regarding ALI screen formats. There is no intent by the Wireless ALI Content Team to change the ALI screen formats currently in use. This TID is representing best practice recommendations to support data field usage and content standardization exclusively.

## **99 References**

Documents referenced in this Technical Information Document are:

NENA 02-010, Formats & Protocols for ALI Data Exchange, ALI Response & GIS Mapping, January 2002 edition, Version 2.1 Data Exchange Formats and Version 4.0 Data Exchange Formats.

## **Exhibits**

Pre/XML Format for Wireless Data Delivery:

- Exhibit 1; Static Data Elements Delivered to ALI Database by Wireless Service Provider
- Exhibit 2; Dynamic Data Elements Delivered to 9-1-1 System



**EXHIBIT 1: STATIC DATA ELEMENTS DELIVERED TO ALI DATABASE BY WIRELESS SERVICE PROVIDER:**

**These data elements shall be utilized for delivery of static cell tower and sector Phase I location information. The data shall be populated in the E9-1-1- ALI database for each cell/sector prior to turn-up of the cell location and each of its sectors. These data elements will typically be provided as fixed length records in a file similar to those used to provide wireline record updates.**

FIELD NAME	POSITION	BYTES	TYPE	DESCRIPTION
Function Code	1	1	A	Type of activity the record is being submitted for. Valid entries: C Change D Delete I Insert U Unlock M Migrate
NPA	2-4	3	N	For Hybrid applications that send the NPA of the Call Back Number from the Selective Router the PSAP: First three digits (NPA) of the Call Back Number/Mobile Directory Number or ESRD/ESRK depending on interface. For all other applications this field would carry the NPA of the pANI.  <i>(Note 1: assumes that the ALI server would have to be able to swap the Call Back Number and ANI TN for ALI transmission and display at the PSAP.)</i> <i>(Note 2: 000-000-0000 or NPA-911-XXXX are disallowed as a valid NPA/Calling Number.)</i>
Calling Number	5-11	7	N	For Hybrid applications that send the 4 <sup>th</sup> through 10 <sup>th</sup> digits of the Call Back Number from the Selective Router the PSAP: 4 <sup>th</sup> through 10 <sup>th</sup> digits of the Call Back Number/Mobile Directory Number or ESRD/ESRK depending on interface. For all other applications this field would carry the: 4 <sup>th</sup> through 10 <sup>th</sup> digits of the pANI.  <i>(Note 1: assumes that the ALI server would be able to swap Call Back Number and ANI TN for ALI transmission and display at the PSAP.)</i> <i>(Note 2: 000-000-0000 or NPA-911-XXXX are disallowed as a valid NPA/Calling Number.)</i>

**ADDRESS DATA FIELDS: To be used exclusively for Cell Tower address and coverage (orientation) information. Data to be input is determined by applicability to system requirements: CAS, NCAS or HCAS.**

Descriptive information should be placed into fields (RE: Location field, Telco comments, supplemental data or building fields) if displayed at the PSAP.

Service Providers need to use the appropriate MSAG valid individual address fields, street names and abbreviations for the data. The providing system should segment the data based upon the system utilizing and providing the data.

House Number	12-21	10	AN	Cell Tower/Cell Sector house number. The field should be space filled if no house number is available.
House Number Suffix	22-25	4	AN	Cell Tower/Cell Sector house number extension (e.g. /2). The field should be space filled if no suffix applies.
Prefix Directional	26-27	2	A	Cell Tower/Sector leading street direction prefix. The field should be space filled if no prefix applies. Valid entries: N S E W NE NW SE SW
Street Name	28-87	60	AN	Valid service address of the Cell Tower/Cell Sector.
Street Suffix	88-91	4	A	Cell Tower/Cell Sector valid street abbreviation, as defined by the MSAG.
Post Directional	92-93	2	A	Cell Tower/Cell Sector trailing street direction suffix. The field should be space filled if no suffix applies. Valid entries: N S E W NE NW SE SW
Community Name	94-125	32	A	Cell Tower/Cell Sector valid service community of the street name/house number as designated by the MSAG.

**End of ADDRESS DATA FIELDS**

State	126-127	2	A	Alpha state abbreviation (e.g. TX) OF Cell Tower/Cell Sector
Location	128-187	60	AN	Descriptive address information (free formatted) describing the exact location of the Cell Tower/Cell Sector or cell tower/sector coverage area (e.g. XXX).
Customer Name	188-219	32	AN	Wireless Carrier Name and Wireless 3 <sup>rd</sup> Party Data Provider Names associated with the Call Back Number/MDN.

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Class of Service	220	1	AN	Value of: 8 = MOBL, indicates a wireless call that is neither Phase I nor Phase II (no location data)  G = WRLS, indicates that Phase I location data is being provided from a Phase I capable cell site.  H = WPH2, indicates that Phase II location data is being provided from a Phase II capable cell sector.  I = WPH1, indicates that Phase I location data is being provided from a Phase II capable cell site.
Type of Service	221	1	N	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Exchange	222-225	4	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
ESN	226-230	5	AN	Emergency Service Number associated with the MSAG valid House number and Street Name of the Cell Tower/Cell Sector. <b>ESN shall NOT be populated by Wireless Service provider or 3<sup>rd</sup> Party vendor. The appropriate ESN will be added to the static ALI record upon successful processing of the update to the ALI database and supplied to the PSAP with the wireless static record information.</b>
Main NPA	231-233	3	N	Three digit area code of the pANI Number associated with the Cell Tower/Cell Sector. HCAS=pANI Would carry either NPA of calling number or NPA of pANI (ALT #, NPA Calling Number, Main NPA, Main Number field)  <i>(Note: Some systems only use 7 digit NXX-XXX of pANI number. If this is the case, the NPA provided must be the same NPA as the Primary PSAP for Cell Tower/Cell Sector.)</i>
Main Number	234-240	7	N	Seven Digit telephone number of the pANI Number associated with the Cell Tower/Cell Sector.
Order Number	241-250	10	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Extract Date	251-256	6	N	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>

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County ID	257-260	4	AN	County Identification Code (usually the FIPS code) of Cell Tower/Cell Sector.  <i>(Note: County Identification field is used to identify the county of call origination. The Subcommittee recommends use of the FIPS code assigned to each county by the U S Census Bureau.)</i>
Company ID	261-265	5	AN	NENA registered Company Identification code of Wireless Carrier only (Not the MPC Provider or 3 <sup>rd</sup> Party Data Provider)
Source ID	266	1	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Zip Code	267-271	5	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Zip + 4	272-275	4	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
General Use	276-286	11	AN	This field will be mutually used by data exchange partners to pass information not defined in previous fields.
Customer Code	287-289	3	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Comments	290-319	30	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
X Coordinate	320-328	9	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Y Coordinate	329-337	9	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Z Coordinate	338-342	5	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Cell ID	343-348	10	AN	The GIS identifier used by PSAPs to identify the cell site and sector for their map display should be included in this element.  <i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Sector ID	349	1	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
TAR Code	350-355	6	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>

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Reserved	359-376	21	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
ALT#	377-386	10	N	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Expanded Extract Date	387-394	8	N	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
NENA Reserved	395-480	86	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
Reserved	481-511	31	AN	<i>(Note: Wireless Carrier must communicate with the ALI Database Service Provider to ascertain the value to be populated in this field for each different service area implementation.)</i>
End of Record	512	1	AN	Always an asterisk (*).

**EXHIBIT 2: DYNAMIC DATA ELEMENTS DELIVERED TO 9-1-1 SYSTEM**

The following data elements should be provided dynamically by the wireless carrier (or their agent) during 911 call processing. Dynamic data will be transaction oriented rather than file oriented and will be provided via interfaces like PAM or E2. Actual data format will be dependent upon the interface used. **NOTE: The POSITION column has been deleted since the data format is dependent upon the interface used.**

PHASE USAGE	FIELD NAME	BYTES	TYPE	DESCRIPTION
I & II	NPA	3	N	For Hybrid applications that send the NPA of the Call Back Number from the Selective Router the PSAP: First three digits (NPA) of the Call Back Number/Mobile Directory Number or ESRD/ESRK depending on interface. For all other applications this field would carry the NPA of the pANI.  <i>(Note 1 : assumes that the ALI server would have to be able to swap the Call Back Number and ANI TN for ALI transmission and display at the PSAP.)</i> <i>(Note 2: 000-000-0000 or NPA-911-XXXX are disallowed as a valid NPA/Calling Number.)</i>
I & II	Calling Number	7	N	For Hybrid applications that send the 4 <sup>th</sup> through 10 <sup>th</sup> digits of the Call Back Number from the Selective Router the PSAP: 4 <sup>th</sup> through 10 <sup>th</sup> digits of the Call Back Number/Mobile Directory Number or ESRD/ESRK depending on interface. For all other applications this field would carry the: 4 <sup>th</sup> through 10 <sup>th</sup> digits of the pANI.  <i>(Note 1: assumes that the ALI server would be able to swap Call Back Number and ANI TN for ALI transmission and display at the PSAP.)</i> <i>(Note 2: 000-000-0000 or NPA-911-XXXX are disallowed as a valid NPA/Calling Number.)</i>

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I & II	Class of Service	1	AN	<p>Value of:</p> <p>G = WRLS, indicates that Phase I location data is being provided from a Phase I capable cell site.</p> <p>H = WPH2, indicates that Phase II location data is being provided from a Phase II capable cell sector.</p> <p>I = WPH1, indicates that Phase I location data is being provided from a Phase II capable cell site.</p>
I & II	Main NPA	3	N	<p>Three digit area code of the pANI Number associated with the Cell Tower/Cell Sector.          HCAS=pANI          Would carry either NPA of calling number or NPA of PANI (ALT #, NPA Calling Number, Main NPA, Main Number field)</p> <p><i>(Note: Some systems only use 7 digit NXX-XXX of pANI number. If this is the case, the NPA provided must be the same NPA as the Primary PSAP for Cell Tower/Cell Sector.)</i></p>
I & II	Main Number	7	N	<p>Seven Digit telephone number of the pANI Number associated with the Cell Tower/Cell Sector.</p>
I & II	X Cell Tower/Sector Coordinate	9	AN	<p>Phase I, Longitude/ X coordinate of Cell Tower/Cell Sector. Right justified, pad field with zeros to left of decimal degrees.</p> <p>- +Long: east of Greenwich; -Long: west of Greenwich</p> <p>-for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2</p> <p>Sample: -000.0000</p>
II	X Caller Coordinate	9	AN	<p>Phase II, Longitude/X coordinate of caller (Not used for Phase I) Right justified, pad field with zeros to left of decimal degrees.</p> <p>- +Long: east of Greenwich; -Long: west of Greenwich</p> <p>- for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2)</p> <p>Sample: -000.0000</p>

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I & II	Y Cell Tower/Sector Coordinate	9	AN	Phase I, Latitude/ Y coordinate of Cell Tower/Cell Sector. Right justified, pad field with zeros to left of decimal degrees. - +Lat: north of equator, -Lat: south of equator -for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2 Sample: +00.#####
II	Y Caller Coordinate	9	AN	Phase II, Latitude/Y coordinate of caller (Not used for Phase I) Right justified, pad field with zeros to left of decimal degrees. - +Lat: north of equator, -Lat: south of equator -for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2 Sample: +00.#####
II	Z Cell Tower/Sector Coordinate	5	AN	Phase II, Structure elevation of Cell Tower/Cell Sector (Not used for Phase I). Elevation/Altitude indicated as height above mean sea level, measure in meters. -space fill when data is not available -for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2 Sample: #####
II	Z Caller Coordinate	5	AN	Phase II, Structure elevation of caller (Not used for Phase I). Elevation/Altitude indicated as height above mean sea level, measure in meters. -space fill if data is not available -for clarity, the labels on the screen for the call taker must be clear, must know if the call is P1 or 2 Sample: #####
I & II	Cell Site ID	10	AN	Identification number assigned by Wireless Carrier indicating a geographic region of cellular coverage. The GIS identifier used by PSAPs to identify the cell site and sector for their map display should be included in this element.
I & II	Sector ID	1	AN	Sub set/section of a cell.
I & II	TAR Code	6	AN	Taxing Area Rate Code of Cell Tower/Cell Site.
I & II	ALT #	10	N	Customer Number being remote call forwarded in Interim Number Portability service.
II	LDT Confidence (A.K.A. Uncertainty)	7	AN	Uncertainty Factor. Information that indicates the level of uncertainty inherent to the associated latitude/longitude information expressed in meters, ranging from one meter to 1800 Km expressed in meters.



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II	LDT Confidence Percentage	3	N	Uncertainty %.Information identifying the confidence by which it is known that the calling party lies within the associated shape description. It is expressed as a percentage ranging from 0-100.
I & II	Date Stamp	10	AN	Date of 9-1-1 call. Format: CCYY-MM-DD
I & II	Time Stamp	8	N	The UTC (Coordinated Universal Time) time that reflects the time of position determination by the wireless carrier. Reflected in tenths of seconds. Format: HHMMSS.S
II	Updated Location Indicator	1	AN	MPC indicator which provides the 9-1-1 Jurisdiction with information that updated location information is or is not available. Values of: 1 = Updated location information not available 2 = Updated location information available 3 = Updated or Last Known location information available
II	Handset Indicator	1	AN	Indicator identifying if the wireless handset being used by the 9-1-1 caller is or is not a location capable handset. Values of : 1 = Handset not location capable 2 = Handset location capable