



ATIS STANDARD

ATIS-0500021

ATIS Standard on -

SUPPLEMENTAL LOCATION DATA

Currently in preview, click buy full version



As a leading technology and solutions development organization, ATIS brings together the top global ICT companies to advance the industry's most-pressing business priorities. Through ATIS committees and forums, nearly 200 companies address cloud services, device solutions, M2M communications, cyber security, ehealth, network evolution, quality of service, billing support, operations, and more. These priorities follow a fast-track development lifecycle—from design and innovation through solutions that include standards, specifications, requirements, business use cases, software toolkits, and interoperability testing.

ATIS is accredited by the American National Standards Institute (ANSI). ATIS is the North American Organizational Partner for the 3rd Generation Partnership Project (3GPP), a founding Partner of oneM2M, a member and major U.S. contributor to the International Telecommunication Union (ITU) Radio and Telecommunications sectors, and a member of the Inter-American Telecommunication Commission (CITEL). For more information, visit < [www.atis.org](http://www.atis.org) >.

---

### Notice of Disclaimer & Limitation of Liability

The information provided in this document is directed solely to professionals who have the appropriate degree of experience to understand and interpret its contents in accordance with generally accepted engineering or other professional standards and applicable regulations. No recommendation as to products or vendors is made or should be implied.

NO REPRESENTATION OR WARRANTY IS MADE THAT THE INFORMATION IS TECHNICALLY ACCURATE OR SUFFICIENT OR CONFORMS TO ANY STATUTE, GOVERNMENTAL RULE OR REGULATION, AND FURTHER, NO REPRESENTATION OR WARRANTY IS MADE OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR AGAINST INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS. ATIS SHALL NOT BE LIABLE, BEYOND THE AMOUNT OF ANY SUM RECEIVED IN PAYMENT BY ATIS FOR THIS DOCUMENT, AND IN NO EVENT SHALL ATIS BE LIABLE FOR LOST PROFITS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. ATIS EXPRESSLY ADVISES THAT ANY AND ALL USE OF OR RELIANCE UPON THE INFORMATION PROVIDED IN THIS DOCUMENT IS AT THE RISK OF THE USER.

NOTE - The user's attention is called to the possibility that compliance with this standard may require use of an invention covered by patent rights. By publication of this standard, no position is taken with respect to whether use of an invention covered by patent rights will be required, and if any such use is required no position is taken regarding the validity of this claim or any patent rights in connection therewith.

---

### ATIS-0500021, *Supplemental Location Data*

Is an ATIS Standard developed by the Emergency Services and Methodologies (ESM) Subcommittee under the ATIS Emergency Services Interconnection Forum (ESIF).

Published by  
**Alliance for Telecommunications Industry Solutions**  
1200 G Street, NW, Suite 500  
Washington, DC 20005

Copyright © 2012 by Alliance for Telecommunications Industry Solutions  
All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without the prior written permission of the publisher. For information contact ATIS at 202.628.6380. ATIS is online at < <http://www.atis.org> >.

Printed in the United States of America.

## Supplemental Location Data

Alliance for Telecommunications Industry Solutions

Approved October 2012

### Abstract

Growing uses of UE devices in mixed environments are driving the desire to identify a customer's location beyond the standard latitude / longitude as used today. Emerging technologies providing indoor RF coverage as well as coverage in RF challenged areas requiring a small signal footprint are evolving to incorporate additional location information. There is no common standard for including supplemental location data, if available, for delivery to the ALI database so a PSAP can access and utilize the information if the PSAP has available tools to do so.

## Foreword

---

The Alliance for Telecommunication Industry Solutions (ATIS) serves the public through improved understanding between providers, customers, and manufacturers. The Emergency Services Interconnection Forum (ESIF) provides a forum to facilitate the identification and resolution of technical and/or operational issues related to the interconnection of wireline, wireless, cable, satellites, Internet and emergency services networks.

The mandatory requirements are designated by the word *shall* and recommendations by the word *should*. Where both a mandatory requirement and a recommendation are specified for the same criterion, the recommendation represents a goal currently identifiable as having distinct compatibility or performance advantages. The word *may* denotes a optional capability that could augment the standard. The standard is fully functional without the incorporation of this optional capability.

Suggestions for improvement of this document are welcome. They should be sent to the Alliance for Telecommunications Industry Solutions, ESIF, 1200 G Street NW, Suite 500, Washington, DC 20005.

At the time of consensus on this document, ESIF, which was responsible for its development, had the following leadership:

- K. Springer, ESIF Chair (AT&T)
- K. McMahon, ESIF 1<sup>st</sup> Vice-Chair (APCO)
- T. Reese, ESIF 2<sup>nd</sup> Vice-Chair (Ericsson)

The Emergency Services and Methodologies [ESM] Subcommittee was responsible for the development of this document.

- K. Springer, ESIF ESM Co-Chair (AT&T)
- S. Sherwood, ESIF ESM Co-Chair (Verizon Wireless)

## Table of Contents

---

1	INTRODUCTION .....	1
2	STATIC SUPPLEMENTAL LOCATION DATA .....	1
3	DYNAMIC SUPPLEMENTAL LOCATION DATA .....	1
4	SUPPLEMENTAL “STATIC” LOCATION DATA RECOMMENDATION .....	1
5	SUPPLEMENTAL “DYNAMIC” LOCATION DATA RECOMMENDATION .....	1

## Table of Tables

---

TABLE 1: APPROVED NENA E2 LOCATION DESCRIPTION TAGS.....	2
--	---