ATIS-0500040

ATIS Standard on -

Unified X/Y and Z Indoor Test Methodology

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Abstract

This document provides guidelines for simultaneously measuring horizontal (X/Y-axis) and vertical (Z-axis) indoor position accuracy performance in a common testing framework. It also defines a technology-agnostic testing methodology to account for emerging vertical height determination technologies, including WiFi-based techniques. Additionally, this document incorporates an approach to increase test point positional diversity, which is required to improve test sample independence for newer indoor wireless location technologies.

Foreword

The Alliance for Telecommunications Industry Solutions (ATIS) serves the public through improved understanding between carriers, customers, and manufacturers. The Emergency Service Interconnection Forum (ESIF) provides a form 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:

- R. Marshall, ESIF Chair (Comtech)
- J. Green, ESIF 1st Vice Chair, ESIF ESM Co-Chair (Sprint)
- R. Muscat, ESIF 2nd Vice Chair (Bexar Metro 911)
- K. Springer, ESIF ESM Co-Chair (AT&T)

The ESM Subcommittee was responsible for the development of this document.

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