



ATIS-0500039

**Analysis of Predetermined Cell Sector Routing Outcomes
Compared to Caller's Device Location**

TECHNICAL REPORT



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ATIS Technical Report on

Analysis of Predetermined Cell Sector Routing Outcomes Compared to Caller's Device Location

Alliance for Telecommunications Industry Solutions

Approved July 2, 2019

Abstract

This Technical Report summarizes the research and findings associated with ESIF Issue 99. It explores specific characteristics of sub-optimally routed wireless emergency calls, such as where they occurred as well as the distribution of their distances from the boundaries of the Public Safety Answering Points (PSAPs) to which they routed. This report also includes recommendations derived from these findings for cell sector based routing and Location Based Routing (LBR) implementations.

Foreword

The Alliance for Telecommunications Industry Solutions (ATIS) serves the public through improved understanding between carriers, 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 an 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 Telecommunication Industry Solutions, Emergency Services Interconnection Forum (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 (Sprint)
- R. Muscat, ESIF 2nd Vice-Chair (Bexar Metro 911)
- K. Springer, ESIF ESM Co-Chair (AT&T)
- J. Green, ESIF ESM Co-Chair (Sprint)

The Emergency Services & Methodologies (ESM) Subcommittee was responsible for the development of this document.

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