

TECB

NG9-1-1 over NetTN Program

Vendor Controller Interface Recommendations

5/26/2011

Version: 4

Table of Contents

About This Document.....	3
CPE Interconnectivity Considerations	3
9-1-1 over NetTN Interfaces.....	4
xSR and 9-1-1 over Net TN Interconnectivity Requirements	4
Monitoring.....	4

About This Document

This document is designed to provide interface requirements for 9-1-1 over NetTN connectivity as well as guidance for Emergency Communications districts and procuring equipment under the Emergency Communications Board's grant program for CPE enhancements for Next Generation 9-1-1. This document is not intended to usurp individual ECD RFP requirements

Audience

This document is intended for all participants in the 9-1-1 over NetTN program.

User Feedback

Please send any comments about the accuracy and quality of this document to:

TN.ECD@TN.GOV

Related Documentation

- *AT&T ESInet to i3PSAP CPE Interface Specification. V1.8 dated 4/20/11*
- [NENA Vendor and Product Guide Website](#)
- Place holder for NENA NG CPE standard (04-xxx)

CPE Interconnectivity Considerations

Standards Federal and NENA

The 9-1-1 systems provided through this program should meet or exceed the requirements contained in:

- Federal Communications Commission (FCC) Rules and Regulations (47 CFR)
- Federal Communications Commission (FCC) FCC Wireless E9-1-1, 94-102 and addendums.
- NENA Generic Standards for E9-1-1 PSAP Equipment, Technical Reference NENA 04-001, Issue 2, (latest version).
- NENA 04-201, E9-1-1 PSAP Equipment
- NENA Recommended PSAP Master Clock Standard, NENA 04-002, Issue 3, May 17, 2000
- NENA IP Capable PSAP Features and Capabilities, NENA 58-501 June, 2004 Draft.
- NENA-02-010, Version 8.2 NENA Standard Data Formats for ALI Data Exchange & GIS Mapping including NENA Data Exchange Format Version 4 (XML tagged data)
- NENA Interface to IP Capable PSAP 08-501
- NENA VoIP I1, I2, I3.
- NENA Functional and Interface Standards for NG9-1-1 (i3), NENA 08-002
- NENA Security for Next Generation, NENA 75-001, February 6, 2010
- ATIS J-Std-036A and addendums
- NENA/APCO Generic Standards for NG9-1-1 PSAP Equipment, 04-XXX Draft in Progress

9-1-1 over NetTN Interfaces

- All equipment provided by the Vendor should be capable of seamlessly interfacing to standard radio, logging recorder, computer-aided dispatch and GIS systems available on the market
- Vendor should permit the use of any interfaces to 9-1-1 CPE. Equipment throughout the 9-1-1 CPE system should support any industry standard interfaces for an IP network and from the public switched telephone network (PSTN), including the delivery of accurate caller location information.
- All equipment provided by the vendor should be capable of seamlessly interfacing with existing trunk and line interfaces as well as future IP interfaces into 9-1-1 over NetTN as outlined in ATT ESInet SIP i3 document below.
- Vendors installing 9-1-1 systems are required to connect to ALI databases of all the Local Exchange Carriers and Stand alone ALI (LECs and SALI) in the legacy stages of the transition to NG, and with the Future requirements for the NG9-1-1 Location Delivery. When installing 9-1-1 systems, it is the responsibility of each Vendor to contact the LEC to obtain specific connection requirements.

xSR and 9-1-1 over Net TN Interconnectivity Requirements



ATT ESInet SIP i3
PSAP 04-20-11 V 1 8.

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Monitoring

- Real time monitoring of SNMP to the router at the PSAP shall be made available through 9-1-1 over NetTN IP interface to the Emergency Communications Board Tier 1 NOC services provider.
- Real time monitoring of SNMP at the Controller and/or work stations through 9-1-1 over NetTN IP interface to the Emergency Communications Board Tier 1 NOC services provider is encouraged.
- Vendor may provide a dedicated maintenance terminal for moves, adds and changes (MAC); however, compliance with the TECB Change Management Processes established for all items supported by the 9-1-1 over NetTN IP interface is required.