

OREGON'S NEXT GENERATION 9-1-1 PROJECT

Request for Information Update and Technology Review





Oregon 9-1-1 RFI Information

AGENDA

- WHY AN RFI
- DEVELOPING AN RFI
- OREGON'S RFI
- FORWARD TO RFP





WHY AN RFI?

- ISSUE HAS COMPLEXITY
- NEW TECHNOLOGIES
- EDUCATION
- TIMELINES
- COST
- REDUCTION OF RISK FOR RFP





DEVELOPING AN RFI

- CLARITY OF MISSION
- ISSUES COMMON TO RFP
- NON-BINDING FACT
- VENDOR OPPORTUNITY





OREGON'S NG9-1-1 RFI

- DATES
- CONTACTS
- ELEMENTS
- PRICING





OREGON'S NG9-1-1 RFI DATES

July 23, 2012	RFI Published
August 24, 2012	Deadline Submission of Meeting Request
September 5, 2012	Submission Deadline
September 10-14, 2012	Week Held for Meetings





OREGON'S NG9-1-1 RFI CONTACTS

Administrative/General Questions;

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Technical Questions/Issues;

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Oregon 9-1-1 RFI Information



OREGON'S NG9-1-1 RFI ELEMENTS STANDARDS

Vendor's should be familiar with the following current NENA standards

- 75-001 v1 NG Security
- 04-002 v4 PSAP Master Clock
- 04-004 v1 PSAP Intelligent Workstation
- 04-502 v1 CPE Site Characteristics
- 04-503 v1 PSAP Security
- 71-001 v1 NG9-1-1 Additional Data (when it becomes available)
- 57-750 v1 NG9-1-1 System & PSAP Operational Features & Capabilities
- 77-501 v1 NG9-1-1 Transition Plan
- 53-001 v1 PSAP Disaster-Contingency Plans
- 53-503 v1 PSAP Survivability
- 53-507 v1 Virtual PSAP Management
- 54-750 v1 HMI & PSAP Display
- 08-001 v2 Interim VoIP Architecture i2
- 08-506 v1 Emergency Services IP Network Design
- 73-501 v1 Non-Voice Centric Emergency Services





OREGON'S NG9-1-1 RFI ELEMENTS STANDARDS

Vendor's should be familiar with the following ATIS standards

- ATIS-0500019.2010 Request for Assistance Interface (RFAI) Specification
- ATIS-0500017: Considerations for an Emergency Services Next Generation Network (ES-NGN)
- ATIS-0500008: Emergency Services Network Interfaces (ESNI) Framework
- ATIS-0500007.2008: Emergency Information Services Interface (EISI) Implemented with Web Services
- ATIS-0500005: Standard Wireless Text Message Case Matrix
- ATIS-0500002.2008: Emergency Services Messaging Interface (ESMI)





OREGON'S NG9-1-1 RFI ELEMENTS OTHER STANDARDS BODIES

- APCO
- IETF
- FCC
- TIA (especially 942 Data Centers)
- IEEE
- ANSI
- IJIS
- URISA
- UPTIME INSTITUTE





OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS

- Legacy Gateway (LG)
- Legacy Network Gateway (LNG)
- Legacy PSAP Gateway (LPG)
- Border Control Function (BCF)
- Event Recording (ER)
- Location Information Server (LIS)
- DLR Recorders (payload recording)
- Emergency Call Routing Function (ECRF)
- Emergency Services Routing Proxy (ESRP)
- Location Validation Function (LVF)
- Rules Based Routing Proxy
- Customer Premises Equipment (CPE)
- Data Centers
- PSAP Demarcation Device
- Network (ESInet)
- Scalability





OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - GATEWAYS

A **GATEWAY** is an *internetworking* system capable of joining together two networks that use different base protocols. A network gateway can be implemented completely in software, completely in hardware, or as a combination of both.



LOCATION: VARIOUS ELEMENT: NETWORK





OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - BCF

The **Border Control Function** provides a secure entry into the ESInet for emergency calls presented to the network. The BCF incorporates firewall, admission control, and may include anchoring of session and media as well as other security mechanisms to prevent deliberate, malicious attacks on PSAPs or other entities connected to the ESInet.



LOCATION: ENTRY TO ESInet ELEMENT: NETWORK





OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - EVENT RECORDER

An **EVENT RECORDER** records information about the call or payload. This includes, but not limited to, hold times, where a payload entered the NG9-1-1 system, system transit times, how long it took to answer a payload or call and other timings not associated with DLR recording.



LOCATION: ESInet ELEMENT: APPLICATIONS AND APPLIANCES





OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - LIS

The **Location Information Server** is a device that provides locations of endpoints in the ESInet. A LIS can provide Location-by-Reference, or Location-by-Value in geo or civic forms.







OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - DIGITAL LOGGING RECORDER

DIGITAL LOGGING RECORDERS perform a function equivalent to today's logging recorders with the exception they are designed to record all payloads delivered by the ESInet







OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - ECRF

The **Emergency Call Routing Function** is a functional element in an ESInet which is a LoST protocol server where location information (either civic address or geocoordinates) and a Service URN serves as input to a mapping function that returns a URI used to route an emergency call toward the appropriate PSAP.







OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - ESRP

The **Emergency Service Routing Proxy** is essential for direct call delivery to an appropriate PSAP based upon location and routing rules. It is essentially the last stop before the payload is delivered to the PSAP.







OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - LVF

The Location Validation Function provides sufficient location-based information to a PSAP that allows a 9-1-1 call taker to dispatch emergency responders to a 9-1-1 call scene. The location information is provided by civic based addresses or latitude/longitude data.







OREGON'S NG9-1-1 RFI FUNCTIONAL ELEMENTS - RULES BASED ROUTING

A **Rule Based Routing Proxy** benefits Next Generation 9-1-1 systems because of its ability to route calls based upon various parameters and enhances the ability to default route calls based upon payload.







OREGON'S NG9-1-1 RFI REMAINING FUNCTIONAL ELEMENTS

- CUSTOMER PREMISES EQUIPMENT
 - HOSTED and STANDALONE
- PSAP DEMARCATION DEVICE
- THE ESInet





OREGON'S NG9-1-1 RFI PRICING

- PURELY VOLUNTARY
- MSRP BASED
- NO DISCOUNTS
- CREATE AND VALIDATE BUDGET





OREGON'S NG9-1-1 RFI ROAD TO RFP

- LESSONS LEARNED
- COLLABORATIVE DESIGN
- VALUE BASED SCORING
- EVALUATION TEAM
- TIMELINE KICKOFF 9/26/12 @ OEM, 10am-12pm





OREGON'S NG9-1-1 RFI

QUESTIONS?





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