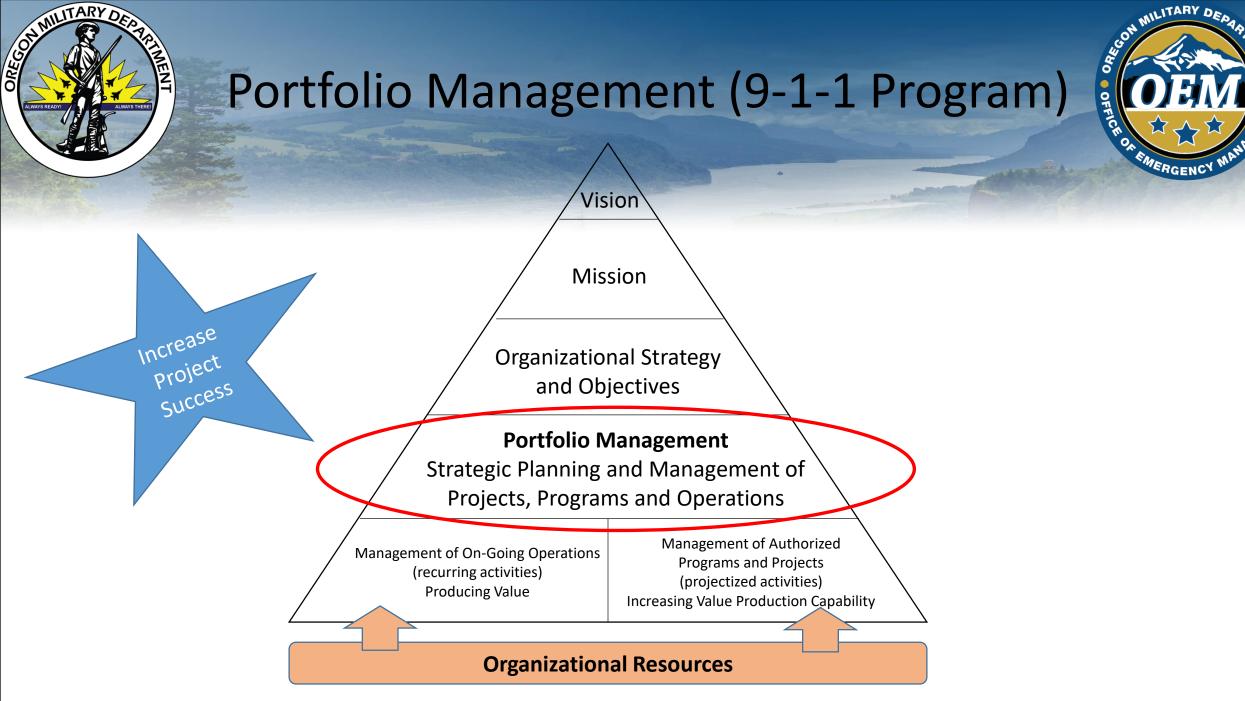


9-1-1 Program Updates



Organizational Change

- Addition of a Project Portfolio Manager
- Increase visibility on work taking place within the 9-1-1 Program
- Align operational program work and projects within a single portfolio to ensure efficient use of existing staff resources
- Improve the prioritization of program and project work
- Identify additional resources needed to support effective Transitional NG9-1-1 portfolio of projects



Adapted from Project Management Institute, Standard for Portfolio Management – Third Edition, PMI Newton Square Pennsylvania, 2013, p/8

		OEM 9-1-1 Program Projects & Operational Assignments																						
STAFFING		STAFE	CAPACI	ти		May-17																		
STAFFING		STAF	CAPACI										20											
NAME	verified? 4/1/17	TOTAL ALLOCATION	ADMINISTRATIVE OVERHEAD Includes Business Support, Leave and Misc Duties	AVAILABILITY	Assignment	CURRENT PROJECT DEMAND	ALLOCATION TO OPERATIONAL WORK	ALLOCATION TO PROJECT WORK	March	April	May	June	VIN	August	September	October	November	December	January	February	March	April	May	June
					Work Effort																			
DUVALL, GILLIEN	x	100%	20%	0%	CPE Replacement Project (Planning Calls & Contracting)	40%																		444
					CPE Contract Billing	20%						<i></i>	X///////										<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	<i>[]]]]</i>
					CPE Standards Development	0%		40%																
					PSAP Support (Helpdesk Function)	20%				24//////	X///////	¥///////	X////////		×///////	<i>\///////</i>						<i>4111111</i>	X/////////////////////////////////////	<i>[]]]</i>]]
					OEM Support Activities (EDO, ECC, Training or Other)	0%																		\vdash
USTIG, PAT	x	124%	20%	-24%	NG 9-1-1 Strategy Development	1%				1		<i></i>	<i></i>		<u> </u>									\square
			2070		MPLS Program Management	35%				×////////	XIIIIII													<i></i>
					Legacy 9-1-1 Billing Cleanup	15%			<i>977777</i>															
					Legacy 9-1-1 SME Program Support	15%				3 <i>011111</i>														<i>97771</i>
					Frame Relay Operational Maintenance Task Coord.	30%		33%															<u> </u>	
					Frontier ES Trunk Migrations	2%		0070																
					Nondialable ESRK Implementation	1%																!		<u> </u>
					OEM Support Activities (EDO, ECC, Training or Other)	5%																		<i></i>
					Conference Attendance	0%	1																	
										NIIIII	<u>x////////////////////////////////////</u>	<i></i>	4		4	•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
GURLEY, MICHAEL	x	132%	20%	-32%	GIS/MSAG Billing Review	10%																		UIII.
					GTAC Tasks (Data Model, PSAP Jurisdiction)	5%							<i></i>			<i></i>							<i></i>	
					GIS/MSAG Funding Policy	25%																		
					GIS Service Development Project (Development & Maint.)	20%	92%	20%														<i>uuu</i> a		444
					PSAP Vesta Map Support	5%																		444
					PSAP Support (Helpdesk Function)	30%																		
					OEM Support Activities (EDO, ECC, Training or Other)	2%				X///////		¥///////	<i>¥////////</i> ////////////////////////////		×///////				<i></i>				¥///////	<i>[[]]</i>
					Conference Attendance	15%					<i>\///////</i>											\vdash		<u> </u>
TOTAL	S					790%	641%	149%																
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Oregon Transitional NG9-1-1 Strategy Overview

Frank Kuchta, 9-1-1 Project Portfolio Manager Pat Lustig, NG9-1-1 Project Manager Michael Gurley, NG9-1-1 Deputy Project Manager

State 9-1-1 Advisory Committee Meeting – APCO/NENA Conference

May 23, 2017



- Purpose
- Standards & Reference Material
- Assumptions
- Governance
- Legacy Environment
- NENA Transition Scenarios
- Transition Approach
- Transition Architecture
- Communication Approach
- Next Steps



Purpose



- Intent of this presentation is to provide a high-level overview outlining Oregon's path to implementing statewide Transitional NG9-1-1
- This presentation is intended for the State of Oregon 9-1-1 Advisory Committee review and input prior to seeking approval from the NG9-1-1 Executive Steering Committee to move forward with future investments in Oregon's NG9-1-1 infrastructure and services

Standards and Reference Materials

• Standards:

DREG

 NENA-STA-010.2-2016 - Detailed Functional and Interface Standards for the NENA i3 Solution

• Reference Materials:

- NENA-INF-008.2-2013 NENA NG9-1-1 Transition Plan Considerations Information Document
- FCC Task Force on Optimal PSAP Architecture Final Report January 2016
- OEM Project Governance Plan for Next Generation 9-1-1 September 2014
- NENA NG9-1-1 "end-state" 11 Assumptions

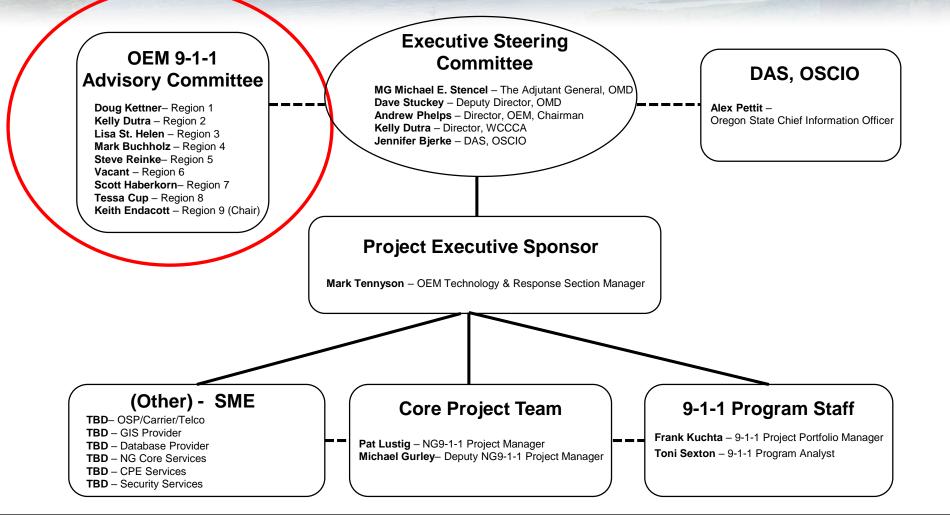


- Phased implementation approach minimizing risk to 9-1-1 service and future NG9-1-1 investments
- 9-1-1 Program will maintain adequate resources to support active projects underway and will acquire additional resources necessary to move future Transitional NG9-1-1 efforts forward
- Planning activities will be funded within OEM's current operational budget
- Next Generation 9-1-1 projects undertaken will require Executive Steering Committee and State CIO approval as defined within the existing NG9-1-1 Governance structure
- Align with the existing State of Oregon 9-1-1 Advisory Committee to actively champion and support transition plans within their respective PSAP regions

Oregon NG9-1-1 Governance Structure/Membership

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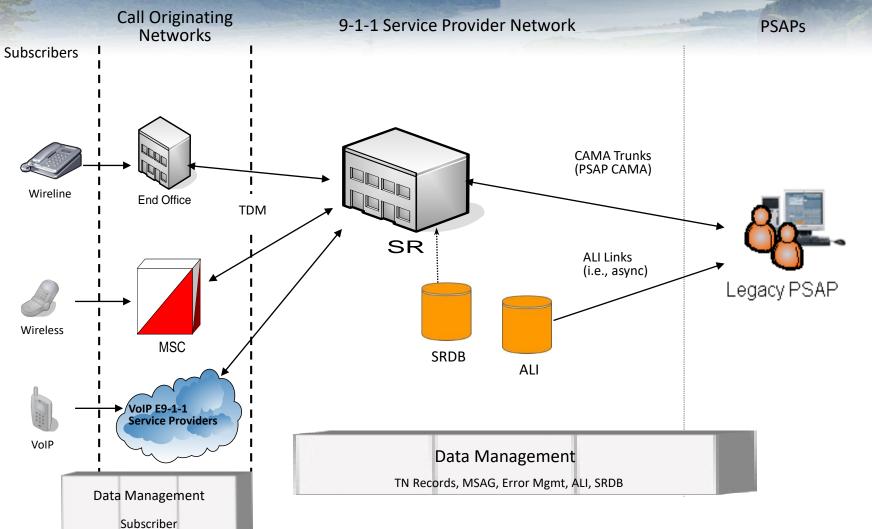
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Legacy E9-1-1 Environment





NENA Transitioning Scenarios

Scenario 1:

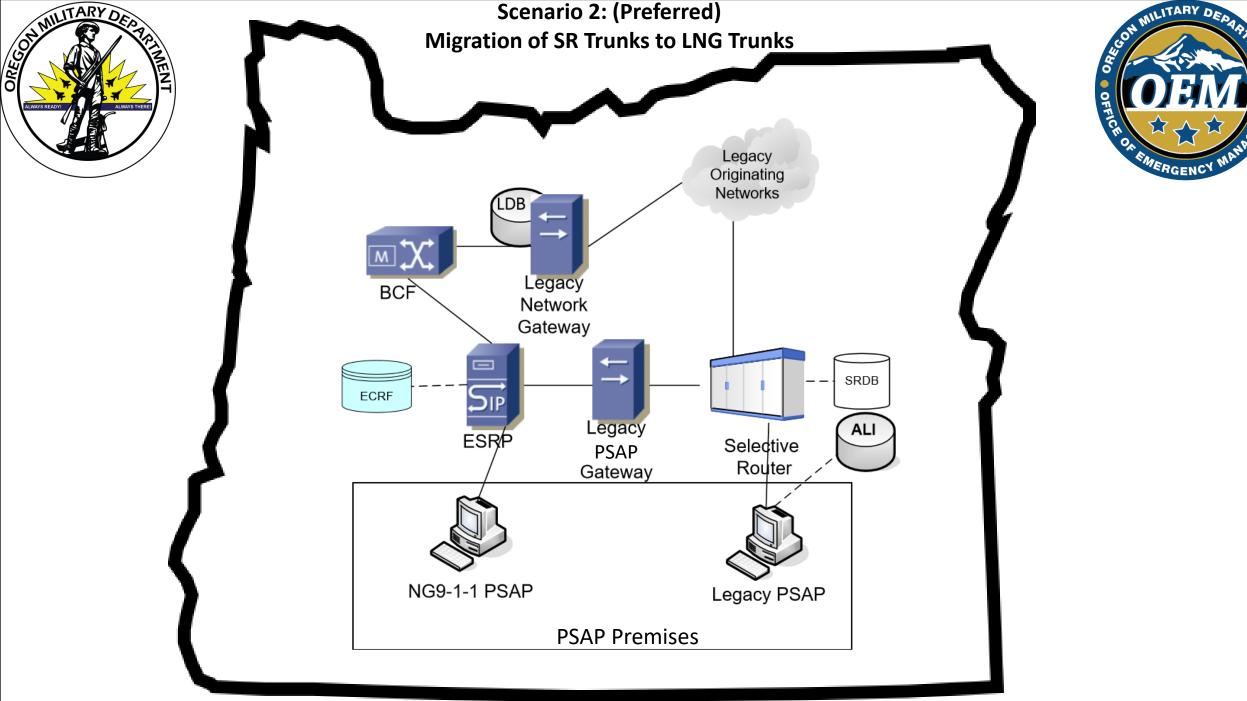
(Tandem to Tandem), emergency calls ingress to the SR and are directed over Tandem to Tandem trunks to the LSRG in the NG9-1-1 system. And there may be a need to transfer/bridge calls between the two networks using the Tandem to Tandem capabilities

Scenario 2: (Preferred)

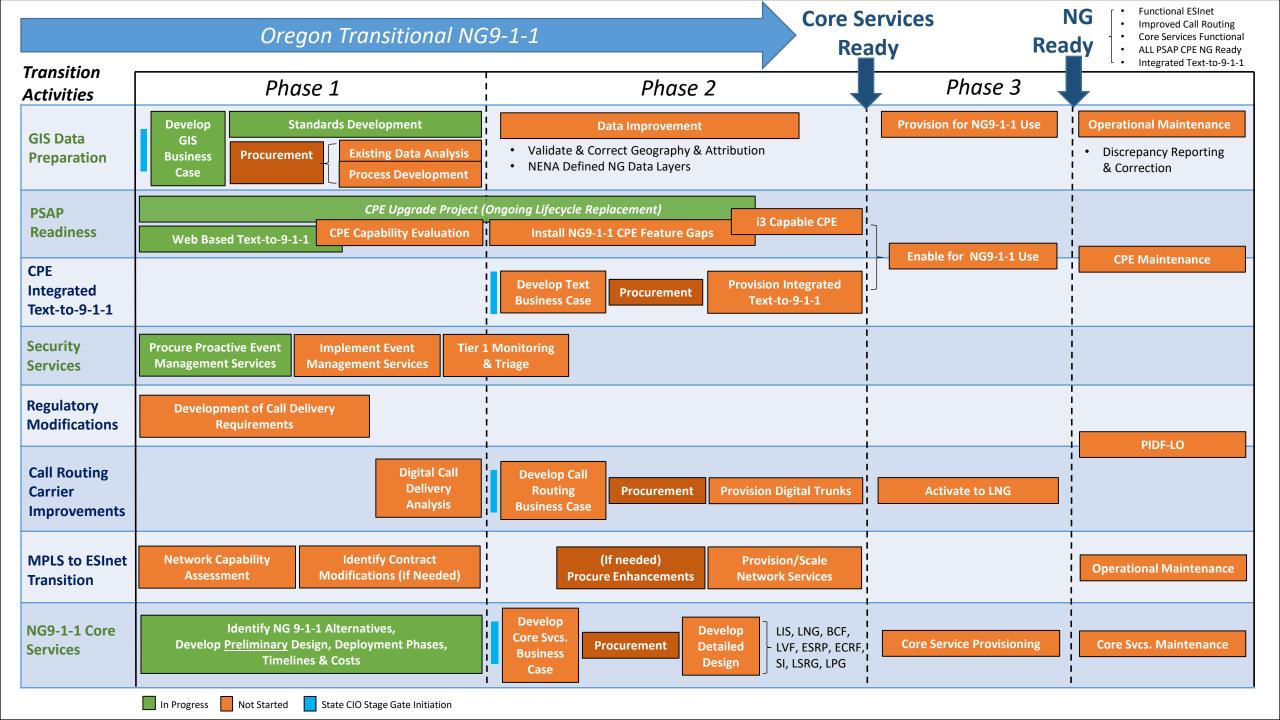
(Migration of SR Trunks to LNG Trunks) calls are migrated from the SR trunks to the LNG trunks

Scenario 3:

(Dual Mode PSAP) the Dual Mode PSAP has connections to both the ESRP and the SR. Calls that ingress through the SR are delivered to the PSAP via the legacy TDM trunks. The PSAP must query the ALI for location information. Calls that enter through the ESInet are routed using location and the calls are delivered to the PSAP via the IP connectivity, including location



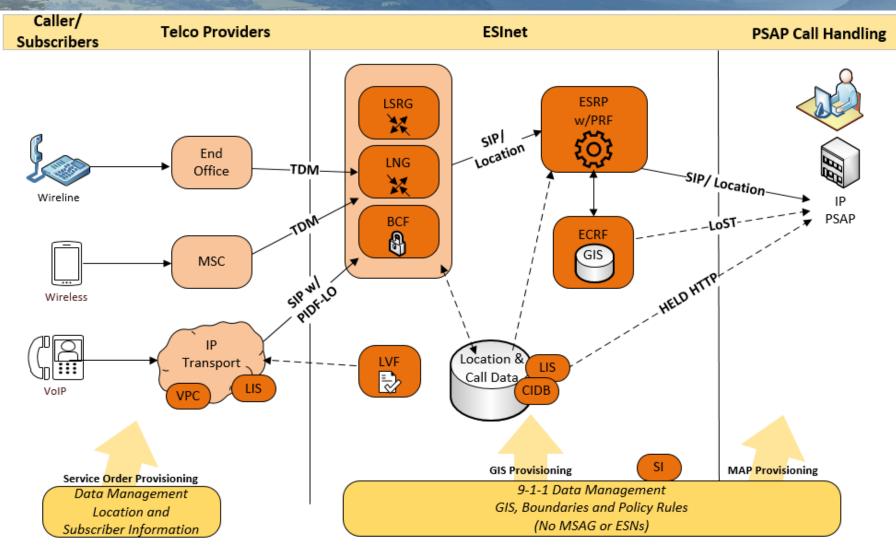




NG9-1-1 Architecture

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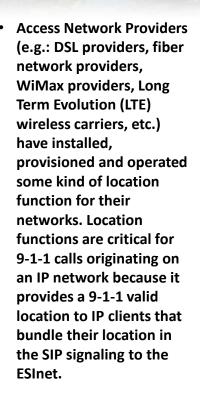




* NG Elements adapted from the FCC Task Force on Optimal PSAP Architecture, January 2016



NENA NG9-1-1 "end-state" Assumptions



All calls entering the ESInet are SIP based. Gateways, if needed, are outside of, or on the edge of, the ESInet. IP services that are not native SIP based, have protocol interworking to SIP prior to being presented to the ESInet.

Periodic revalidation of civic location against the LVF is also needed to assure that location remains valid as changes in the GIS system that affect existing civic locations are made. All calls entering the ESInet will normally have location (which might be coarse, e.g., cell site/sector) in the signaling with the call.

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- Transition to i3 is complete when the existing Selective Router and ALI are no longer used. Even after that time. some PSAPs may not have upgraded to i3. The i3 architecture describes a Legacy PSAP Gateway (LPG) to interface between the ESInet and a legacy PSAP. The LPG supports the origination of an emergency call through the ESInet to a legacy PSAP as well as the transfer of an emergency call from/to an i3 PSAP to/from a legacy PSAP.
- 9-1-1 authorities have transitioned from the tabular MSAG and ESNs to GIS based Location Validation Function (LVF) and Emergency Call Routing Function (ECRF).
 - Since the legacy circuitswitched TDM network will very likely continue to be used for the foreseeable future (both wireline and wireless,) the i3 architecture defines a Legacy Network Gateway (LNG) to interface between the legacy network and the ESInet.
- 9-1-1 authorities have accurate and complete GIS systems, which are used to provision the LVF and ECRF. A change to the 9-1-1Authority's GIS system automatically propagates to the ECRF and LVF and immediately affects routing.
 - Federal, State and local laws, regulations and rules may need to be modified to support NG9-1-1 system deployment.



Civic location will be validated by the access network against the LVF prior to an emergency call being placed. This is analogous to MSAG validation.

•

While NG9-1-1 is based on protocols that are international, and are designed to allow visitors and equipment not of North American origin to work with NG9-1-1, the specific protocol mechanisms, especially interworking of legacy telecom and ESInet protocols is North American-specific and may not be applicable in other areas.



- OEM Transitional NG9-1-1 Webinar May 30th from 1:00 3:00 Pacific
- Communication as needed (e-mail/phone) with Advisory Chair and Committee Members



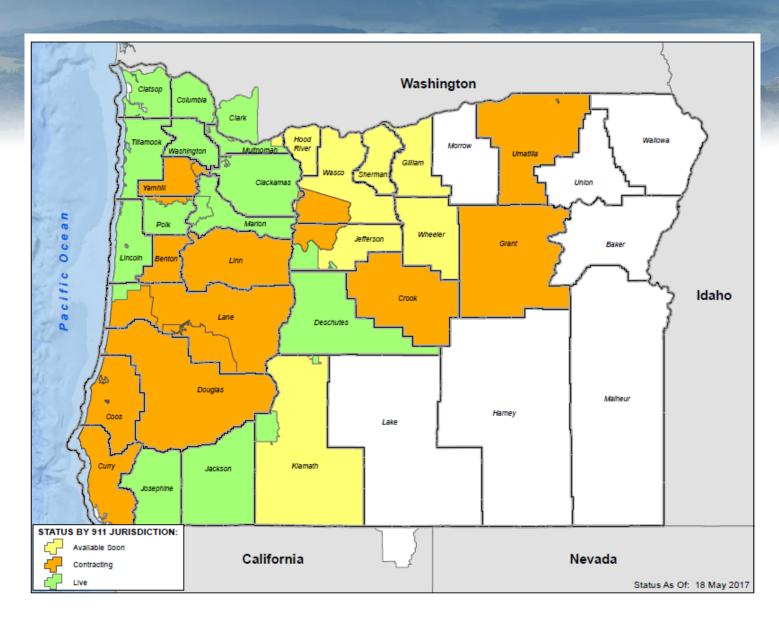
- OEM will provide electronic copy of presentation materials to Regional PSAP Advisory Committee Members
- Advisory Committee shares approach with PSAP community seeking feedback from each respective regions:
 - Collect recommendations
 - Identify any major gaps in the proposed strategy
 - \circ $\,$ Feedback on sequencing of activities
- Advisory Committee provide OEM feedback to determine the value of recommendations and evaluate potential impacts against original proposed strategy
- Determine time needed to collect regional feedback and future meeting schedules



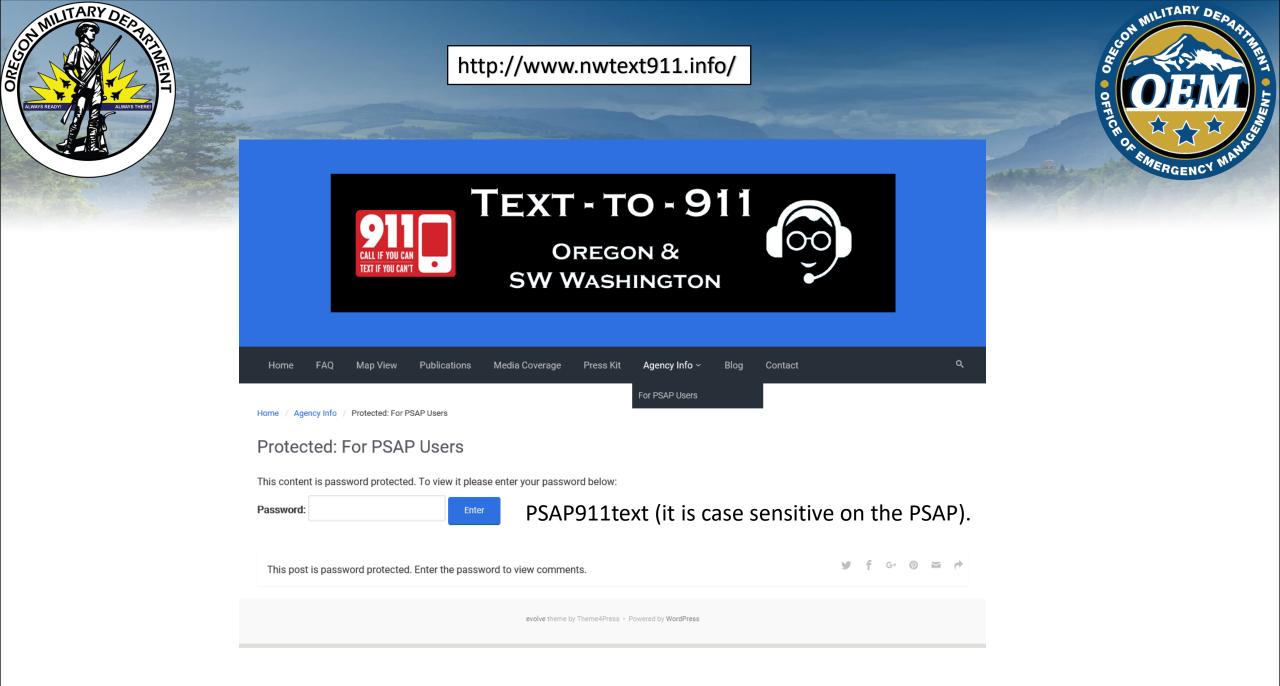
Text to 9-1-1

OREGON

Text to 9-1-1 May 2017









Home / Agency Info / Protected: For PSAP Users

Protected: For PSAP Users

Welcome to Text-to-911 Resources for Public Safety Answering Points

The following resources are intended to help you navigate the process of securing your own interim text-to-911 solution within the State of Oregon and Southwest Washington.

Product Selection Research

- TCS Solution Versus Intrado Solution
- > FCC Text-to-911 webpage (look for Current Listing of PSAP deployments about mid-page)

Action Forms for Text Solutions

Sample Carrier Letter

Policy Development

- Regional Model Policy (June 16, 2016)
- Sample Localized Policy (Clackamas 911)

Admin, Testing, Transcript & Evaluation Info

- > Quick Messages
- > ECATS Session Transcript Sample
- Sample Test Message Script

Training Information

- > TCS E-Media PSAP User Guide
- TCS E-Media Simulator
- Dispatcher Training: What To Expect (Clackamas 911)
- > Dispatcher Training: Scenario "At Your Desk" Practice Guide (Clackamas 911)

Public Education Tools

- > NENA Text-to-911 Website
- > Presentation: Leslie Taylor / APCO Meeting in May 2016
- > Presentation: Centroid Explanation
- > Public Education Committee (PEC): Community Brochure
- > PEC: First Responder Brochure
- > PEC: Talking Points
- > PEC: News Release Template for YES
- PEC: News Release Template for NO





Have a Question? Click this picture & email your question!



ECATS – or.ecats911.com

Please go to website for support to add users or reset a password!

ECATS	Toni Sexton Logo
	🤇 Reports 🛛 🖓 Ad Hoc 🖉 🕼 Raw
nformation into Insights /	Si Kepons X Ad Hoc X Kaw
Reporting 🗟Groups 🖗Ad	dministration 👎Project Management CCD Support Release Notes 🤗 Download Training Manual
Standard Reports	REPORTS
SMS Reports	Standard Reports >Call Summary
Sessions Per Hour	Select PSAPs: Select Groups:
Messages Per Hour	Central Lane Communications
Messages Per Hour By Carrier	OR
Messages By Initial Operator	Columbia 911 Communications
Initial Operator Average Speed of Answer	Coos County Sheriff's Office
Messages Per Session Profile	
Operator Average Speed of Response	
Operator Single Session Average Response	Select Date Range From: To: Period Group: - SELECT - V Month V
Average Session Duration	
Session Transcript	Call Type: Abandoned Filters:
SMS Top Busiest Hours	911 Calls V Include Abandoned V
Sessions From Same MDN	
Top Sessions From Same MDN	Include Comparisons
GEM User Login Info	Graph Format:
SMS Attempts	No Graph 🗸
Denied Messages	Agency Affiliation
SMS-To-TTY Sessions	✓ Fire ✓ Medical ✓ Fire ✓ Medical
SMS Messages per Hour	
SMS Transfers	Run this report Now V Output Format: Web V Senerate Report
Average Messages Per Session	





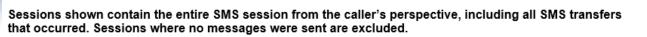
Sessions Per Hou	ır	Report Date:	05/18/2017 09:22:28
Clackamas County Communic	ations	Report Date From:	05/01/2017
2200 Kaen Rd.		Report Date To:	05/18/2017
Oregon City, 97045	County: Clackamas	Period Group:	Month
		Time Group:	60 Minute
Year:	2017	Time Block:	00:00 - 23:59
Agency Affiliation	Police		

Date	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total
May 2017	0	0	0	0	0	0	0	0	0	1	1	1	0	1	2	0	0	1	1	0	1	0	1	0	10
Total	0	0	0	0	0	0	0	0	0	1	1	1	0	1	2	0	0	1	1	0	1	0	1	0	10

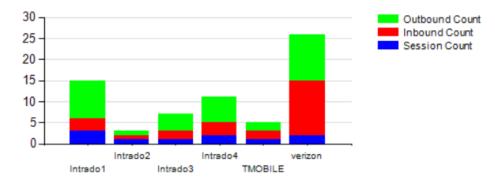
Text Sessions by Hour for May



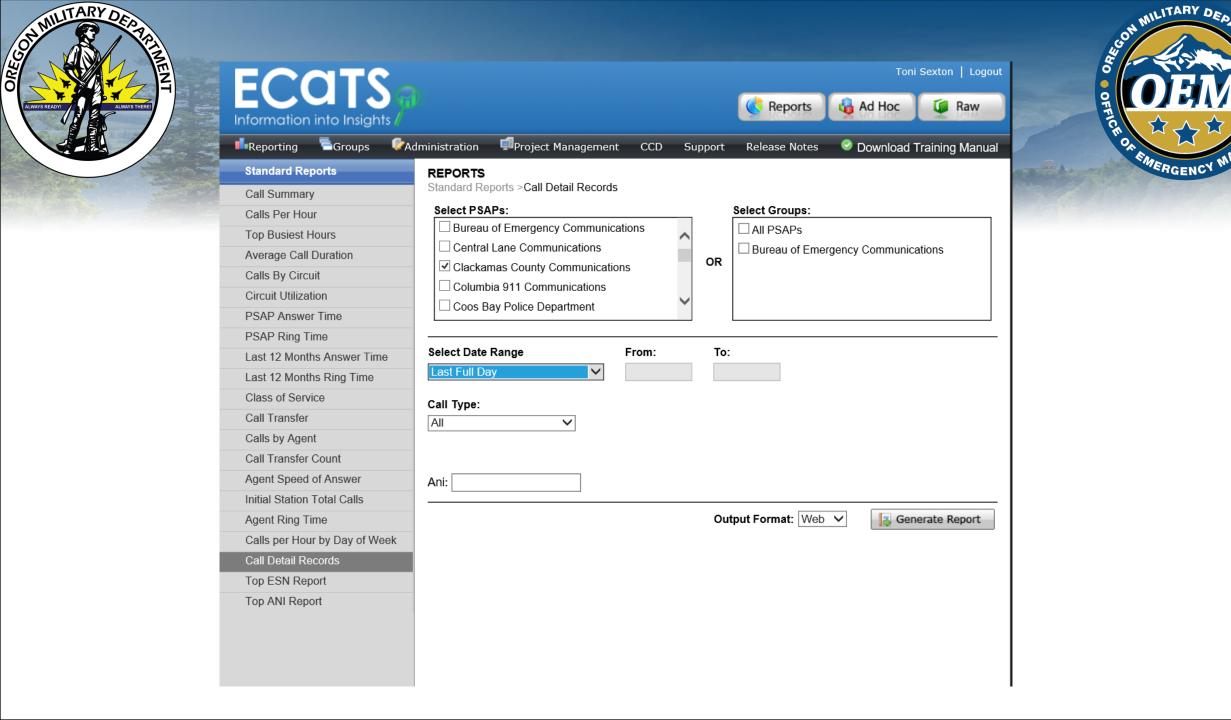
Messages Per Ho	our By Carrier	Report Date:	05/18/2017 09:24:21
Clackamas County Communi	ications	Report Date From:	05/01/2017
2200 Kaen Rd.		Report Date To:	05/18/2017
Oregon City, 97045	County: Clackamas		
Agency Affiliation	Police		



Overall Totals								
Carrier	Number of Sessions	Number of Inbound Messages	Number of Responses					
Intrado1	3	3	9					
Intrado2	1	1	1					
Intrado3	1	2	4					
Intrado4	2	3	6					
TMOBILE	1	2	2					
verizon	2	13	11					
Grand Totals	10	24	33					











Clackamas County Communications ^

Total Calls: 305

Open CDR Report	Psap Name	Seizure DateTime	Call Type	ALI ANI	Class Of Service
-	Clackamas County Communications	5/17/2017 00:16:40	911 Calls	503-884-7981	WPH2
-	Clackamas County Communications	5/17/2017 00:30:17	911 Calls	503-726-6854	WPH2
-	Clackamas County Communications	5/17/2017 00:35:16	911 Calls	503-995-7028	WPH2
-	Clackamas County Communications	5/17/2017 00:42:45	911 Calls	503-995-7028	WPH1
-	Clackamas County Communications	5/17/2017 00:43:03	911 Calls	503-995-7028	WPH2
-	Clackamas County Communications	5/17/2017 01:06:38	911 Calls	971-276-2748	WPH2
	Clackamas County Communications	5/17/2017 01:12:09	911 Calls	503-462-4533	WPH2
-	Clackamas County Communications	5/17/2017 01:13:54	911 Calls	503-847-5927	WPH2
<u> </u>	Clackamas County Communications	5/17/2017 01:17:46	911 Calls	503-723-7321	RESD
	Clackamas County Communications	5/17/2017 01:27:29	911 Calls	503-659-3449	VOIP
	Clackamas County Communications	5/17/2017 01:43:06	911 Calls	911-169-8650	WPH1



3001 CCOM		
ANT	5033419081	
CPN	5037266854	
Crit	5057200054	
Call 188178	Arrives On	911_6 Cell
911_6 Cell	Goes Off Hook	JII_0 CEII
911_6 Cell	GUES UTT HOUK	Test_Profile
Call 188178	Filtering Begins Cellular Call	rest_prorrie
Call 188178	CPN: 5037266854	
Call 188178	Accepted (Vox)	Test_Profile
911_6 Cell	Filtering Ends	Test_Profile
911_6 Cell	Queue In	Queue 12
Queue 12	Queue Out	1505
1505	Picks Up	
1505	Puts On Hold	911_6 cell
1505	Retrieves	911_6 Cell
1505	Puts On Hold	911_6 Cell
1505	Dials	913606964461
1505	Calls	CLKMSM1K1A
CLKM5M1K1A	Is Ringing	
CLKMSM1K1A	Answers	
CLKMSM1K1A	Is Put In Conference	
1505	Retrieves	911_6 Cell
1505	Hangs Up	Call 188178
911_6 Cell	Is Transferred To	CLKMSM1K1A
CLKMSM1K1A		Call 188178
911_6 Cell	Hangs Up Is Released	Call 1001/0
Call 188178	Finishes	
ALI Information		
	05/17/17 00:30:43	
VERIZON	- "	
5030	P#503-341-9081	
BROADWAY ST		
	ESN=00346	
LINN	OR	
CLASS:WPH2	TEL=VZW	
LAT:+045.372440	LON:-122.586075	
METERS:28	PERCENT:090	
ELV SPD		
PSAP=CLACKAMAS		
VERIFY		
VERIFY		
-		

🖳 CML Text Formatter

Call Detail Record	
With Pocket Dial Filtering	



WEST

May/17/17 00:30:17 DST

May/17/17 00:30:17 DST May/17/17 00:30:17 DST

May/17/17 00:30:18 DST May/17/17 00:30:18 DST May/17/17 00:30:31 DST May/17/17 00:30:31 DST May/17/17 00:30:31 DST

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May/17/17 00:35:16 DST May/17/17 00:35:16 DST



9-1-1 TAX DISTRIBUTION & 1%

Gordon Tiemeyer, 9-1-1 PSAP Relations Analyst Hood River Conference May 23, 2017

9-1-1 TAX DISTRIBUTION

ORS 403.240 Distribution of account proceeds; uses; reimbursement request review; reports.

(8) After all amounts under subsections (1) and (2) of this section and ORS 403.235 (2) have been paid, the office shall allocate the balance of the Emergency Communications Account to cities on a per capita basis and to counties on a per capita basis of each county's unincorporated area for distribution directly to 9-1-1 jurisdictions as directed by the city or county. However, each county must be credited a minimum of one percent of the balance of the account after the amounts under subsections (1) and (2) of this section and ORS 403.235 (2) have been paid.

9-1-1 TAX DISTRIBUTION

- Distribution amount is the tax collection amount, after subtracting for:
 - Dept. of Revenue, up to 1% amount
 - OEM Admin, up to 4% amount
 - 35% to 9-1-1 Subaccount
- Remainder is then distributed.

9-1-1 TAX DISTRIBUTION

- Distribution calculation handled by DAS
- Maintains city/county populations and processes for several types of distributions throughout the state.
- Population figures updated and provided by Portland State University Population Research Center

Population

- 4,013,843 Total
- 2,777,113 Incorporated Inside the cities
- 1,236,730 Unincorporated **Outside** the cities
- 241 Cities
- 36 Counties
- Which county has the fewest incorporated cities?
 ➤Crook 1
- Which county has the most?

► Marion – 19

9-1-1 TAX DISTRIBUTION - 1%

"...to counties on a per capita basis of <u>each county's unincorporated area</u> for distribution directly to 9-1-1 jurisdictions as directed by the city or county. However, <u>each county must be credited a minimum of one percent</u> of the balance of the account..."

Interpreted to mean that each county is credited with <u>either</u> the 1% amount or what amount the per capita of the unincorporated would be, whichever is larger.

9-1-1 TAX DISTRIBUTION - 1%

• Determine 1% amount

\$6,232,481.55 **X** 1% **=** \$62,324.82

Now determine which counties might have a larger amount then this 1% amount, based on the population of their unincorporated area.

• Baker County unincorporated population divided by total population to reach percentage.

4,928 / 4,013,843 = 0.1228%

0.1228% **X** \$6,232,481.55 **= \$7,651.93**

Less then \$62,324.82, so Baker County is allotted the larger 1% amount.

Counties that receive <u>more</u> then 1% based on their unincorporated populations are:

Deschutes 58,430	C
Douglas	59 <i>,</i> 065
Jackson	66,148
Marion	90,919
Lane	97 <i>,</i> 485
Clackamas 179,177	
Washington	237,963

- For remainder of distribution.
- Unincorporated population and amount of 1% counties is removed.
- Standard determination is completed to find per capita amount for remainder

- Note that this credit is for each county, not 9-1-1 jurisdiction.
- Amount is paid to the 9-1-1 jurisdiction that serves the unincorporated area of the county.
- For multiple PSAP counties, it is divided up based on percentages.
- These percentages are built in to the DAS calculation.

- Clatsop County
- Served by City of Astoria PSAP and City of Seaside PSAP.
- County 1% amount is split between the two based on a percentage of unincorporated area of the county served.

- Polk County (No 9-1-1 jurisdiction)
- Served by City of Salem PSAP (WVCC) and YCOM PSAP.
- Again, split based on a percentage.

- Umatilla County
- City of Milton Freewater PSAP serves just their respective city, so only get their city's share.
- County 1% goes to Umatilla County PSAP, which serves all of the county unincorporated area.

Questions?

Future Update

Toni Sexton, President, Oregon APCO/NENA



GIS/MSAG FUNDING POLICY

GIS/MSAG FUNDING POLICY GOALS



- Support both current operational and transitional NG needs
- Focus less on time expended and more on results
- Variable, based on population (in-line with PSAP distribution process)
- Flexibility for recognized differences in needs/focus
- Diminish administrative burden without weakening accountability
- Improve identified weaknesses in current policy
 - Special Projects
 - Multiple entities and jurisdictional issues
 - Data sharing

DREG

• Full stakeholder participation



WORKGROUP SCHEDULE



5/8 – 5/12	MEETING #1
5/15 – 5/19	MEETING #2
5/22 – 5/26 (Quarterly)	Individual input
5/29 – 6/2 (holiday and vacation)	Individual input
6/5 – 6/9 (NENA 2017)	Individual input
6/12 – 6/16	MEETING #3
6/19 – 6/23	MEETING #4
6/26 - 6/30	Final DRAFT

GIS/MSAG FUNDING SUBCOMITTEE

MILITARYO



NAME	REPRESENTING
Michael Gurley	State 911 Program
Jeff Rusiecki	Region 1 (Clatsop, Columbia, Tillamook, Lincoln)
Ian Crawford	Region 2 (Clackamas, Washington, Yamhill)
Laura Wolfe	Region 3 (Multnomah)
Gina Audritsh	Region 4 (Marion, Polk)
Steve Reinke	Region 5 (Hood River, Wasco, Jefferson, Deschutes, Crook, Wheeler, Gilliam, Sherman, Morrow)
Deb Rozeboom	Region 6 (Umatilla, Grant, Harney, Wallowa, Union, Baker, Malheur)
Keith Massie	Region 7 (Benton, Linn, Lane)
Cynde Black	Region 8 (Coos, Douglas, Curry)
Chad Pliler	Region 9 (Josephine, Jackson, Klamath, Lake)



Michael Gurley NG9-1-1 Deputy Project Manager

michael.gurley@state.or.us

503-378-3229

