

NATIONAL 911 PROGRAM July 7 & July 14, 2020

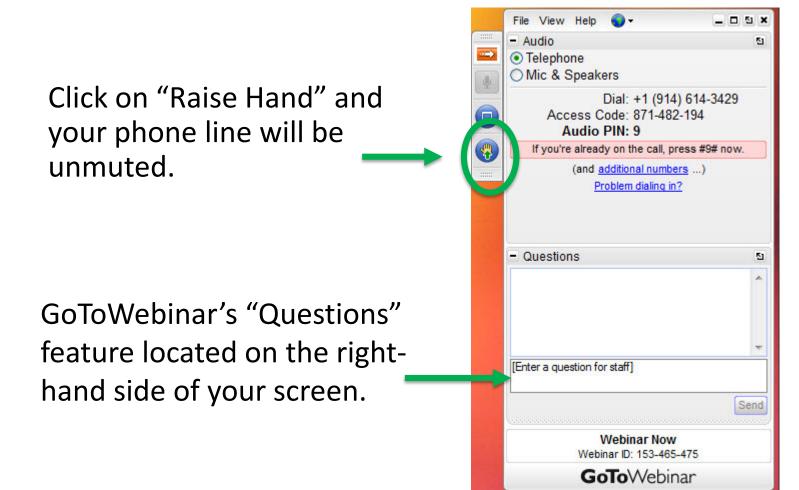


State of 911 Webinar Series

- Designed to provide useful information about Federal and State participation in the planning, design, and implementation of Next Generation 911 (NG911) coupled with real experiences from leaders overseeing these transitions throughout the country
- Webinars are typically held every other month and include presentations from a Federal-level 911 stakeholder and State-level 911 stakeholder, each followed by a 10-minute Q&A period
- For closed captioning, please copy and paste the URL link in the chat window to an additional web browser
- For more information on future webinars, to access archived recordings and to learn more about the National 911 Program, please visit <u>911.gov</u>
- Feedback or questions can be sent to: <u>National911Team@mcp911.com</u>



Questions







Using & Sharing 911 Data Get Involved!



Speakers

Laurie Flaherty Coordinator, National 911 Program

Steve McMurrer

911 System Administrator, Fairfax County, Virginia

Jackie Mines

Project Manager, Mission Critical Partners



Agenda

- 911 Data: The Core of Every 911 Story
- Challenges of 911 Data
- Introducing the 911 DataPath Initiative
- Goal #1: Establishing a Common 911
 Data Language
- How to Get Involved





Current 911 Data Challenge

Current National Environment:	Impact on the 911 Community & Public:		
Siloed 911 systems	Hinders data use		
Varying data	Inhibits service delivery		
Inconsistent understanding of data terms	Compromised incident response		



Introducing the 911 DataPath Initiative

- Benefits all of the 911 community
- Will facilitate voluntary, standardized and automated collection, use and sharing of 911 data to support efficient and effective evidence-based 911 decision-making
- Will help 911 community collect, use, and share authoritative data and information





Imagine a Future...

Imagine the ability to exchange timely data and information with other Public Safety Answering Points (PSAPs)/Emergency Communications Centers (ECCs), regional 911 authorities, and state or national agencies to provide a clear picture of the effectiveness and efficiency of 911.

Dependable and consistent information exchange for decision makers is central to the **911 DataPath Initiative**—a 911 community-wide effort to implement the strategic plan, "911 Data & Information Sharing." The Strategic Plan, developed by the 911 community in partnership with the National 911 Program, describes an ideal future environment where data can be exchanged on a scheduled, ad hoc, or live basis, so decision makers can make more informed and accurate decisions.

For years, the 911 community has experienced the need for a measurable understanding of the 911 environment. This has been shown in a variety of ways:

- Elected officials inquire about 911 agency needs;
- Federal grant programs are funded at only fractions of their appropriations; and
- Local/state funding legislation is side-tracked due to the lack of clear data to illustrate need.

Fully enabling the 911 DataPath initiative may take a while, yet the demonstrated need is apparent. As jurisdictions transition to Next-Generation 911 (NG911) capabilities, the need to efficiently collect, use, and share authoritative data continues to intensify, especially as the 911 community shifts from multiple independent systems to a nationally interconnected NG911 system of systems. Therefore, 911 agencies should adopt a consistent and collaborative approach to using data and information—administratively, operationally, and technically. Sound formidable? It is. Progress is not progress without change. However, a future that includes—at your fingerips—all the information you need to tell your "911 story" will help you make the case to continuously improve and expand 911 service delivery.

911 DataPath Origin: FCC TFOPA

FCC: Task Force on Optimal Public Safety Answering Point Architecture (TFOPA)

"...a National system enabling the collection of standardized administrative data, operational data, cost data and CAD data should be developed and made available to PSAPs and 911 Authorities to provide essential information to substantiate planning decisions and improvements."



911 DataPath Origin: 911 Community Input

	Visible 911 L	.andscape	
	Natio o		
Multi-Jurisd Collaboratio		systems, resources, and assets	Easy data
Seamless inter opportunity for shared situational	operability and Data uniformity	visualizatio	discovery and access; meaningful n and reporting
awareness	and automated collection, use, analysis and exchange of 911	Informed Dec	ision Making
	Ŭ	perations	



911 DataPath Initiative—A Strategic Plan

911 DataPath Strategic Plan

The Plan: An Overview

- Enhances use of 911
 data
- Supports actionable improvements
- Driven by the 911 community



A Strategic Plan

Version 1.0 | 2019



911 DataPath Progress



As someone responsible for 911 services in your community, you:

- Make decisions about your 911 system's administration, operations, technology, or infrastructure
- Develop and maintain your jurisdiction's first Next Generation 911 (NG911) Plan
- Assess NG911 training costs for your jurisdiction's workforce
- Build Congressional testimony on NG911 funding needs
- Propose legislation that addresses 911 service delivery requirements

And to do all of that (and more), you need reliable data—data that illustrates the importance of the 911 story you need to tall. That data can be the difference between getting the funding you need, the technical solution you want, or the industry change you're seeking. However,

language?

Why is it important to speak the same 911 data

When data elements mean the same thing across the 911

when justifying funding, identifying operational needs, and

· The effectiveness of 911 service delivery

Current levels of NG911 maturity

identifying technical 911 system requirements.

community, stakeholders can exchange information knowing precisely what is being requested and what to provide. When the 911

community shares uniformly defined data, it can tell a stronger story

What stories can 911 data elements help illustrate?

Needs and priorities related to 911 service administration, operations, technology, or infrastructure

when you reach out to collect the data you need, you may find that others label and define the same 911 data points in different ways. These variations can make information gathering and exchange complex and may mean your aggregated data may not accurately reflect what is happening.

The National 911 Program and 911 community are currently addressing 911 data language and exchange issues by identifying and defining data elements relevant to specific 911 topics. Their initial focus is on administrative data necessary for 911 decision-making.

These efforts compose the first focus of the **911** DataPath Initiative. The 911 DataPath Initiative supports the five goals articulated in the 911 DataPath Strategic Plan, which points to the 911

community's achievement of secure, automated 911 data and information sharing in a nationwide NG911 system. Efforts to build a common language for 911 data support the Strategic Plan's first goal, Data Uniformity, which involves definition of essential 911 data elements for forms of 911 data, and the creation of a standards-based 911 data exchange model. At all stages, priority will be placed on leveraging efforts, resources, and standards that are either in progress or have already been established by 911 community stakeholders.

June 2019

- The 911 community convened to discuss options for action
- Identified what needs to be accomplished at the national level to achieve a nationally uniform NG911 data system

September 2019

 Articulated the future vision of 911 data sharing in a nationwide NG911 system via the 911 DataPath Strategic Plan

October 2019

 Implemented project to address 1st portion of Strategic Plan's Goal 1 (data uniformity)



911 DataPath: Five Strategic Goals





911 DataPath Purpose & Scope

This plan IS intended to:



Be Voluntary



Motivate



Serve

This plan is NOT intended to:



Replace Existing Systems



Recreate the Wheel

Required or Mandatory



911 DataPath: Five Strategic Goals

We're Here





911 DataPath: Strategic Goal #1



Data Uniformity

Essential elements of information that are standardized and supportive of interoperability and overall quality assurance of 911 service delivery

Identify and Define	Create	Categorize
Essential elements of information	911 elements dictionary and data model	Data by source, collector and user

Collectively, as our first step, we have been working on elements that can be considered **Administrative Data**



How You Benefit

A common language improves our ability to tell the 911 story!

When the 911 community shares uniformly defined data, it can tell a stronger story when justifying funding and workforce needs and identifying technical 911 system requirements





Current Project: Nuts & Bolts Two Current Project Deliverables





A reference document that:

- Encompasses the essential data set that addresses the scope statement
- Delineates the single data points that the set comprises (and their attributes)
- Provides data exchange models so the set can be shared

A framework for promoting jurisdictional adoption and implementation of the Data Dictionary



Snapshot of the Draft 911 Data Dictionary

Contains data element names, descriptions, use, allowable data, data type, min/max characters, values, exchange tags, reference standards, sources, and sample XML and JSON schema

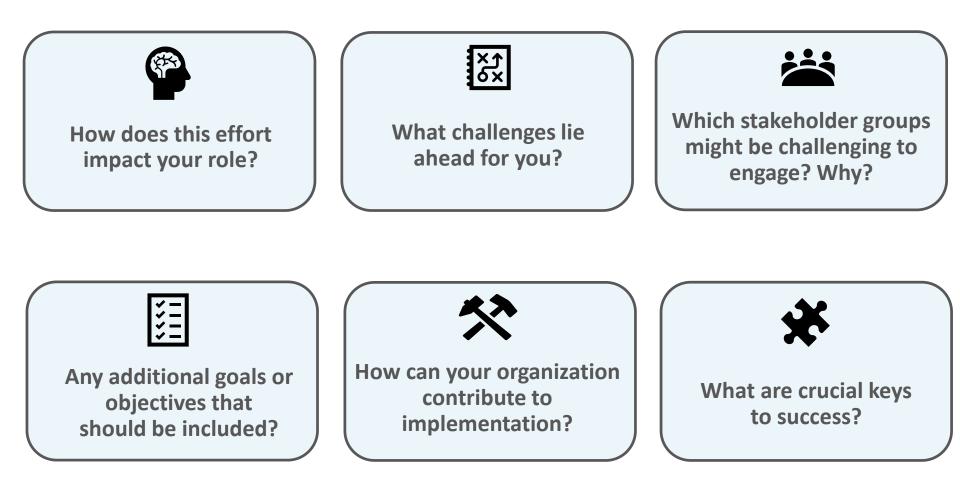
								<xx:element name="Data_Sharing_Classification_TLP_Detail" type="xx:string"></xx:element> <xx:element name="Notes" type="xx:string"></xx:element>
	A	В	D	E	F	G	н	
1	Data Element	Description	Use	Allowable Data	Data Type	Minimum Characters	Maximum Characters	
2	ECC Data Component							Sample JSON Data Schema Section
3	ECC Name	Proper name of the ECC	Required	Alphanumeric	String	1	99	
4	ECC ID	ECC Specific unique ID		Alphanumeric	String	1	33	"Sschema": "http://json-schema.org/draft-07/schema#", "Sid": "http://j11domain.com/draft-07/schema#",
5	ECC Location	ECC location Information in a PiDF-Lo format	Required	Other	Array	1	9999	"title": "911 JSON Schema",
6	ESInet URI	Routable ECC URI on the ESInet for calls in IPv4, or IPv6; Text URL.	Optional	Alphanumeric	String	1	99	"hype": "object", "properties"; { "HEARE"; {
7	ECC Type	Type of ECC (Required for first submission and for changes) from the following list of codes P - Primary ECC or PSAP S - Secondary ECC or PSAP B - Back up ECC or PSAP (not staffed) D - Dispatch only ECC (does not receive 911 calls but dispatched resources) O - Other	Optional	Specific List	String	1	1	"Troutes": ["SOURCE", "SOURCE_TYPE", "SOURC_PSAP", "SOURCE_LHAME", "SOURCE_FHAME", "SOURCE_TITLE", "SOURCE_EALL", "SOURCE_PHONE", "Data_Time_of_Data_Start", "Data_Time_of_Data_Sharting_Classification_TLP"], "Type": "abject", "Source::{ "Sour
8	Back UP ECC Activation time	How long will it take to have the back up ECC fully staffed and functioning in Minutes (Mandatory to complete for Back Up ECCs)	Conditional	Numeric	Time	1	5	ISC }, Figure 7
9	Level of Service	ECC's Highest level of service call type received From the following List: B911 - Basic 911 E911 - Enhanced 911 WPH1 - Wireless Phase 1 WPH2 - Wireless Phase 2 NG911 - Next Generation 911 (transitional, NG End state) DISP - Dispatch Only		Specific List	String	4	5	B911, E911, WPH1, WPH2, NG911 transitional, NG911 end state DISP NENA-ADM-000.23-2020

Sample XML Data Schema Section

<xs:element name="Header"> <xs:complexType>



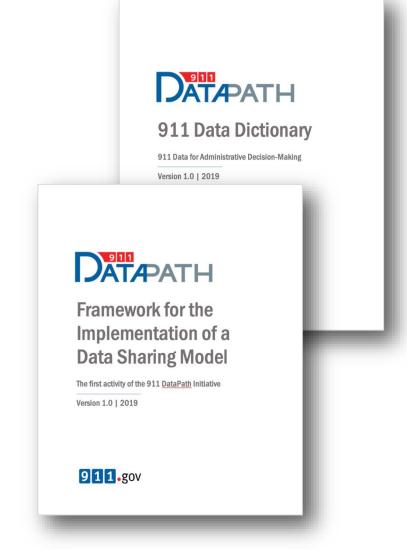
Considerations and an Invitation!





How to Get Involved

- Provide input on the 911 Data Dictionary and the 911 DataPath Implementation Framework
- Visit <u>www.911.gov</u>
 - Click on "Current Projects"
 - Click on "911 DataPath"
 - Download documents and feedback forms
 - Submit completed forms to <u>davidr@consultdpi.com</u>



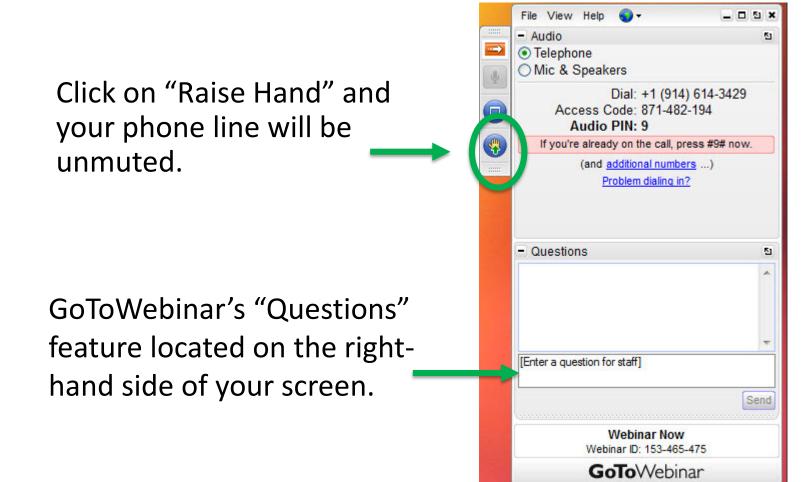


For additional information please contact:

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Q & A Period





Future Webinars

- Tuesday, September 8, 2020
- Tuesday, November 10, 2020
- To register, visit: <u>https://attendee.gotowebinar.com/register/8495593598854798605</u>
- Previous State of 911 webinars are available at: <u>www.911.gov/webinars.html</u>



National 911 Program

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