

The logo for GEOCOMM. The word "GEOCOMM" is written in a bold, blue, sans-serif font. The letter "O" is replaced by a red location pin icon with a white shadow underneath. The background of the slide features a 3D rendering of a city street scene with buildings and a street sign that reads "Central Street".

**GEOCOMM**

State of North Carolina NG911 - GIS Data Hub Training

June 4, 2019 | June 6, 2019 | June 12, 2019 | June 25, 2019

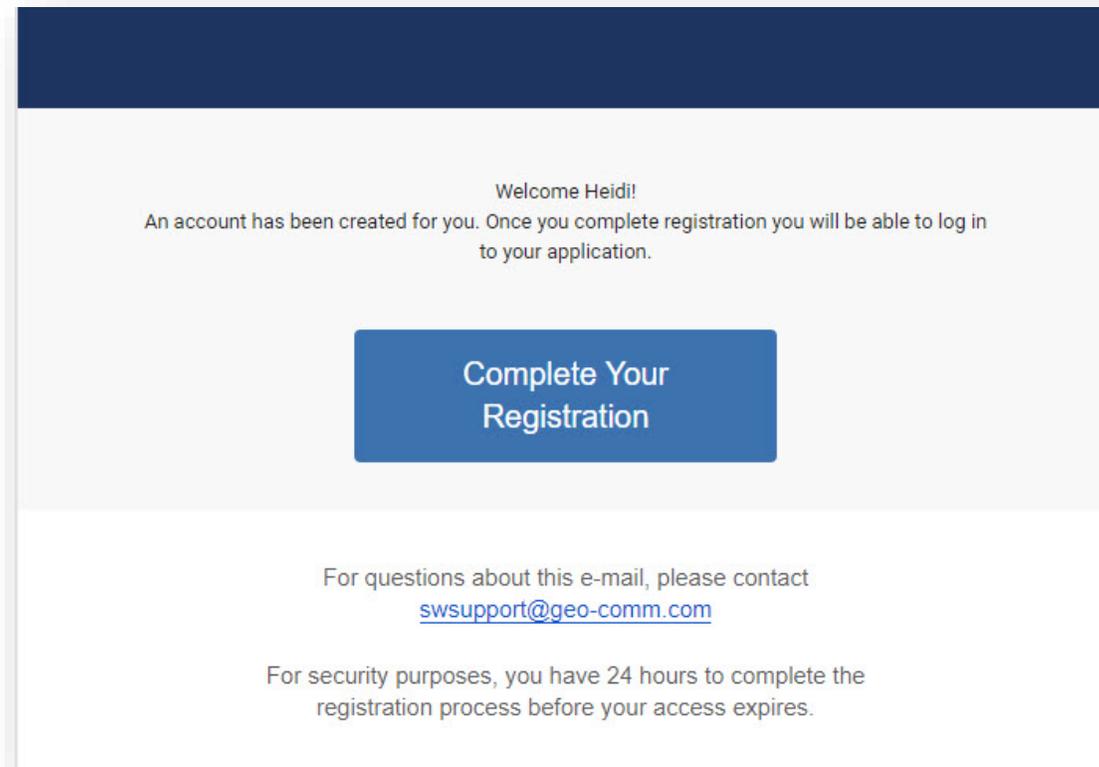
# Agenda

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- GIS Data Hub Access
- GIS Data Hub Exploration
- County Field Mapping
- QC Check Overview
- Documentation, Web Help & Tools
- QC Results & Exceptions

# GIS Data Hub Access

- Email with notification to set password for GIS Data Hub





# GIS Data Hub Exploration

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- GIS Data Hub Link: [https://gdh.sonc.nc.geo-comm.com/GMS\\_API](https://gdh.sonc.nc.geo-comm.com/GMS_API)
- Uploading Data – Zip File
  - File Geodatabase, Personal Geodatabase, Shapefiles
  - MSAG (Excel or geodatabase table)
  - ALI (Excel or geodatabase table)
- Field Mapping

# Log In



# Choose Project

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## Choose Your Project

My Project  
NorthCarolina ▼

My Client  
NCRichmond ▼

Start Using This Project

# Upload Data



## Upload Data

Upload your first COMPLETE dataset so we can see what your data looks like. Upload NEW versions of your data over time for processing.



**Upload Data**

## Finish Setup

Describe your data , ConfigureQC settings , Setup export and sharing settings.



**Configure Processing**

# Upload Data

Uploading to project : NorthCarolina client: NCRichmond

Logged in as user: Jessica Frye jfrye@geo-comm.com

### Processing Options

- Go! My existing settings work for me.
- Pause! Something changed, I need to update my settings.

### Select A File To Upload

 Browse

Or Drag & Drop

Upload your data for QC c

Richmond.zip

599.93 KB

 Upload And Submit

Ready For Upload

# Defining the GIS Data

Mapping the  
Future of 9-1-1



# Define Your Data



## Upload Data

Upload your first COMPLETE dataset so we can see what your data looks like. Upload NEW versions of your data over time for processing.



Upload Data

## Finish Setup

Describe your data , ConfigureQC settings , Setup export and sharing settings.



Configure Processing

# Define Your Data

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## Finish Setup

Tell us about the layers and fields in your uploaded data.

*This is a required step to process data.*



## Define Your Data

Configure QC settings for layers, fields, and rules.



## Configure QC Settings

I have completed the steps above.



## Process My Data

# Define Your Data



## GIS Data Configuration

Copy Layer Mappings From Previous Client ?

**Add A Layer Mapping** Use Below Settings & Go Next

### Existing Dataset Mappings

Source Dataset

mapped to

Target NG911 Dataset

# Define Your Data

**Add A Layer Mapping** ✕

Choose your source layer that should be ingested to a GeoComm layer.

<p>Your Source Layer</p> <p>tkt_1106964_soi</p>	<p>GeoComm Target Layer</p> <p>Master Street Address Guide (MSAG)</p>
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NOTE: only layers from your last upload are shown in the "Your Source Layer" dropdown above.

**Create A New Layer Mapping** Cancel

# Define Your Data



## GIS Data Configuration

Copy Layer Mappings From Previous Client ?

Add A Layer Mapping Use Below Settings & Go Next

### Existing Dataset Mappings

Source Dataset	mapped to	Target NG911 Dataset
ESN		ESBEMS  
ESN		ESBLaw  
ESN		ESBFire  
Streets		Road Centerline  
UpdatedAddressPoints_1		Site/Structure Address Point  
tkr_1106964_soi		Automatic Location Information (ALI)  
City_Limits		Incorporated Municipality Boundary  

# Define Your Data

**Perform Schema Mapping** [Close]

Describe how your source data will be pushed into the GeoComm data model.

Not Configured

Source Field: ESN\_NUMBER

Input Value: rcmdncec1.richmond.nc.us

**sourceOfData** ⓘ  
Field type:String  
Field length:75  
⚠ NENA Required

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Not Configured

Source Field: last\_edj\_1

Input Value: [Empty]

**Source Last Edit Date** ⓘ  
Field type:Date

---

Not Configured

Source Field: ESN\_NUMBER

Input Value: [Empty]

**uploadAuthority** ⓘ  
Field type:String  
Field length:75

---

Not Configured

Source Field: ESN\_NUMBER

**effectiveDate** ⓘ  
Field type:Date

[Save Schema Mapping] [Cancel]

# QC Checks – An Overview

Mapping the  
Future of 9-1-1



# QC Checks – Jurisdictional GIS Data

- Data Validation (conforms to data model, valid domains)
- General
- Polygon
- Road Centerline
- Site/Structure Address Points
- MSAG to RCL
- ALI to RCL
- ALI to Site/Structure Address Point



# QC Checks – Data Validation

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- Field Format Validation
- Projection, Tolerance and Resolution
- Field Mapping
- Exception Flag Check
- UniqueID / Globally UniqueID Check
- Roads Need Zero Ranges
- Remove Duplicate SSAPs



# QC Checks – General | All Layers

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- Critical Fields are Missing Value(s)
- Critical Values Outside Domain



# QC Checks – Boundaries

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- Polygons Have Gaps
- Polygons Have Overlaps
- Does Not Cover Provisioning Boundary
- Does Not Cover SSAP or RCL



# QC Checks – Road Centerlines

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- Cross a Boundary Layer
- Does Not Meet Length Requirements
- From Value Higher than To
- Has Incorrect Direction
- Overlapping Address Range Values



# QC Checks – Road Centerlines

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- Parity Issues
- Has Stacked Segments
- Not Snapped to Adjacent Segments
- Has Zero in Range Value



# QC Checks – Site/Structure Address Points

- Address Found Multiple Times
- SSAP to RCL
  - Wrong Side
  - No matching street name found
  - No house number
  - Address matches multiple road segments
  - Address is lower than compatible ranges
  - Address is higher than compatible ranges
  - Address found only in a different ESN
  - Address found only in a different community and ESN
  - Address found only in a different community
  - Address falls in a gap in the compatible ranges
  - Address could not be found in compatible ranges



# QC Checks – MSAG to RCL | Low & High

- No matching street name found
- No house number
- Address is higher than compatible ranges
- Address is lower than compatible ranges
- Address found only in a different ESN
- Address found only in a different community and ESN
- Address found only in a different community
- Address falls in a gap in the compatible ranges
- Address could not be found in compatible ranges



# QC Checks – ALI to RCL

- No matching street name found
- No house number
- Address is higher than compatible ranges
- Address is lower than compatible ranges
- Address found only in a different ESN
- Address found only in a different community and ESN
- Address found only in a different community
- Address found multiple times
- Address falls in a gap in compatible ranges



# QC Checks – ALI to SSAP

- No matching street name found
- No house number
- Address lies between existing house numbers
- Address is higher than compatible ranges
- Address is lower than compatible ranges
- Address found with a different unit designation
- Address found with different house number suffix
- Address found only in a different ESN
- Address found only in a different community and ESN
- Address found only in a different community
- Address found multiple times



# QC Checks – State GIS Data

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- Aggregated Data Validation (conforms to data model, valid domains)
- Road Centerline topological integrity
- Boundary topological integrity
- Resolve overlapping address ranges

# Documentation, Web Help & Tools

- User Guide
- Web Help
- Resolver

The image displays two overlapping screenshots. The background screenshot is the cover of the 'State of North Carolina GIS Managed Services User Guide'. It features the GEQCOMM logo at the top left, a central image of a firefighter in full gear, and a cityscape with location pins at the bottom left. The title 'State of North Carolina GIS Managed Services User Guide' is prominently displayed in the center, with the date '5/31/2019' in the bottom right corner. At the very bottom, it reads 'PUBLIC SAFETY GIS SIMPLIFIED'.

The foreground screenshot shows the 'GIS Data Hub' web interface. The header includes the GEQCOMM logo, the title 'GIS Data Hub', and navigation links for 'Basics', 'Get Started', 'Features', 'QC Checks', and 'Resources'. A search bar is located below the header. The main content area is titled 'GIS Data Hub' and includes the following information:

- Version 1.8
- Use help to find information, procedures, FAQs, product PDF, and more to assist you with using the application. Within help, you can search for topics, browse content topics, download a PDF guide or print single help topics.
- Get Started**
  - [Understanding your workspace](#)
  - [Upload your data](#)
  - [View Quality Control Checks and descriptions](#)
  - [Search for an address \(requires Map Viewer\)](#)
  - [Print a topic or the entire help guide](#)

# QC Results & Exceptions

Your GIS Data Hub File is Ready to Download  
If you can't see the message below, [click here to access your content](#)

## GIS Data Hub Notification

Hello,

Data for **NorthCarolina - NCRichmond** has been processed by GeoComm's GIS Data Hub.

The export package for '**QC Results**' is ready for download.

Please contact the GIS Team if you have any questions.

Thank you,  
GeoComm GIS Team  
[gis@geo-comm.com](mailto:gis@geo-comm.com)

[Download Your Files](#)

Tue 5/14/2019 10:50 AM

**NR** No Reply  
GIS Data Hub ready to download

To  Jessica Frye, ENP

 NCRichmond\_GeoCommNG911.pdf  
84 KB

Hello,

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**GEOCOMM GIS Data Hub** [Configure Project](#) [Upload Data](#) [Configure Processing](#) [System Admin](#) [Dashboard](#) [?](#)

Choose Report

# QC Results & Exceptions

Contents	Preview	Description
Name		Type
Exceptions		Folder
GISData		Folder
Reports		Folder
ResolverFiles		Folder

Contents	Preview	Description
Name		Type
QcFallouts.gdb		File Geodatabase
ETLFallouts.csv		Text File
QCFallouts.csv		Text File

Contents	Preview	Description
Name		Type
BND_Topology_Gap_ESRI_Standard		File Geodatabase Feature Class
BND_Topology_Overlap_ESRI_Standard		File Geodatabase Feature Class
EMSBoundary_No_Value		File Geodatabase Feature Class
FireBoundary_No_Value		File Geodatabase Feature Class
GEN_Duplicate_Source_Unique_Id		File Geodatabase Feature Class
GEN_Field_Values_Outside_Acceptable_Values_Val...		File Geodatabase Feature Class
IncMunicipalityBoundary_No_Value		File Geodatabase Feature Class
LawBoundary_No_Value		File Geodatabase Feature Class
RCL_Range_FROM_Higher		File Geodatabase Feature Class
RCL_Range_Overlap		File Geodatabase Feature Class
RCL_Range_Parity		File Geodatabase Feature Class
RCL_Segment_Length		File Geodatabase Feature Class
RCL_Topology_BND		File Geodatabase Feature Class
RCL_Topology_Snapping_ESRI		File Geodatabase Feature Class
RCL_Zero_Range_Value		File Geodatabase Feature Class
RoadCenterline_No_Value		File Geodatabase Feature Class
SSAP_No_Value		File Geodatabase Feature Class
SSAP_To_RCL		File Geodatabase Feature Class

# Poll

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- Who will begin right away updating and correcting the GIS data for NG9-1-1?
- Who will begin within the next 2 – 3 months?

# Questions

**Jessica Frye, GeoComm County**  
**Project Manager**  
320-281-2554  
[jfrye@geo-comm.com](mailto:jfrye@geo-comm.com)

**Jessica Beierman, GeoComm State**  
**Project Manager**  
320-281-2202  
[jbeierman@geo-comm.com](mailto:jbeierman@geo-comm.com)

**Brandon Moore, King-Moore**  
276-356-8224  
[moore@king-moore.com](mailto:moore@king-moore.com)

**GeoComm NC Team**  
1-844-282-4507  
[NCTeam@geo-comm.com](mailto:NCTeam@geo-comm.com)



**Mapping the  
Future of 9-1-1**