Using Z-Axis and Indoor Maps to Locate 9-1-1 Callers Faster

October 26, 2023
601 W Saint German ST
Floor 2
Room 202
Saint Cloud
Minnesota

Latitude: 45.567066°
Longitude: -94.183014°
HAE: 200 m
Translating Height Above Ellipsoid (HAE) into a Caller Location

Latitude: 45.567066°
Longitude: -94.183014°
HAE: 200 m
Definition of Dispatchable Location:

Dispatchable location is the validated street address of the 9-1-1 calling party, plus additional information such as suite, apartment, or similar information necessary to adequately identify the location of the caller.

For 9-1-1 calls placed from multi-story buildings or campus environments, dispatchable location will typically require specific floor and room information in addition to the street address.
Why is a dispatchable location important - 2D Example
Why is a dispatchable location important - 3D Example
Vertical Location Services converts latitude, longitude, and height above ellipsoid or orthometric height into dispatchable locations comprising height above ground, estimated street address, building name, and floor level, along with 3D building and 9-1-1 caller location visualization:

Open a web interface via URL parameters:

An application can call the GeoComm VLS API directly:
3D Mapping of 911 Call Data

Tactical 9-1-1 caller visualization and mapping. Can run stand-alone or integrated into existing 9-1-1, CAD, and responder solutions.
3D Tactical Tools

3D tactical mapping and visualization of 9-1-1 caller location including 3D measuring tools and interactive line of sight calculation.
Local 3D WebScenes

Include locally created Esri 3D Webscenes into 3D View from your local LiDAR flights, feature tags, and 3D Mesh data.
Z-Axis and Indoor Maps

Integrate with Locally Authoritative Data, including GeoComm Indoor Maps, to improve accuracy of the translation, along with important contextual information.
Why Build Indoors Maps in GIS?
Next Steps

Learn More about GeoComm Vertical Location Services at
https://www.geocomm.com/vertical-location-services/