



Statewide Interoperability Radio Network (SIRN)

Standards, Protocols, Procedures



| | | |
|-------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Document Section | 3 – Configuration and Allocation | Status: SIEC Sub Committee Approval Date: 11/29/2021 SIEC Approval: 11/29/2021 |
| State Standard Number | 3.16.0 | |
| Standard Title | GPS Radio Geo-location Services | |
| Date Established | /2021 | |
| Replaces Document Dated | NA | |
| Date Revised/Reviewed | NA | |

1. Purpose or Objective

The purpose of this Standard is to establish policy and procedure on the use of SIRN’s geolocation or radio-based GPS services.

2. Technical Background

- **Capabilities**

The SIRN platform supports APCO P25 standards-based GPS services to geolocate subscriber radios.

- **Constraints**

Location services is a resource-intensive feature impacting SIRN capacity and is only permitted under limited scenarios. In order to preserve SIRN capacity for voice services—its primary objective—this policy details specific types of geo-services permitted on SIRN. In addition, the SIRN platform provides database servers to retrieve and manage device locations but does not natively support the mapping applications necessary for viewing and administering subscriber device locations. This capability requires third party Geographic Information Systems (GIS) or mapping applications.

3. Operational Context

The ability to geo-locate first responders is an increasingly essential tool in improving public safety’s situational awareness. Identifying a first responder’s location via the SIRN platform is intended to provide a complementary capability to various other solutions employed by public safety agencies in the State for situational awareness.

4. Recommended Protocol/ Standard

The SIRN infrastructure and approved subscriber devices are configured to deliver radio location services (or geo coordinates) to the system core for use under the specific conditions listed in this Standard.

Location Display Software: Agencies or PSAPs seeking a more feature-rich graphic user interface (GUI) or mapping application are responsible for implementing their own third-party solution or Computer-Aided Dispatch (CAD) application to be interfaced with the SIRN system cores, and will additionally be responsible for the performance of the solution. Integration of a third-party GPS application with SIRN requires SIEC approval and must be made in accordance with NDIS’s network security and application





Statewide Interoperability Radio Network (SIRN) Standards, Protocols, Procedures



interface standards.

5. Recommended Procedure

Due to the resource-intensive nature of delivering GPS data over a radio network, only the following use case will be permitted:

- *Emergency Activation:* Devices *must* be configured to transmit their location to the SIRN core when activating an emergency alert.

Automatic polling of devices to report their location on a recurring and automated basis is NOT allowed.

6. Management

The SIRN Statewide System Administrator shall be responsible for enforcing this Standard and overseeing any third-party application implementation efforts.