Illinois State Police (ISP) Review of Plan Modification

	Requirement	Information Included	Staff Comment
Contact and 9-1-1 System information		Yes 🛛 No 🗆	Lindsay Szafran 301 S. IL Route 59 Fox Lake, IL 60020 (847) 587-3517 (O) (847) 366-1507 (M) szafranl@foxlake.org
Verification		Yes 🛛 No 🗆	
Letter of Intent		Yes 🗵 No 🗆	
Plan Narrative (if incorporating an NG9-1-1 solution, narrative must include the following:)		Yes 🛛 No 🗆	Fox Lake is requesting to modify its 9-1-1 system by transitioning to the statewide Next Generation 9-1-1 ESInet provided by AT&T. The FoxComm 911 Center PSAP is scheduled to transition to the AT&T ESInet on September 22, 2022. The FoxComm 911 Center began accepting text-to-911 in January of 2021 with Comtech as its text control center.
	Name of certified 9-1-1 system provider	Yes 🛛 No 🗆 N/A 🗆	AT&T
	Explanation of the national standards, protocols and/or operating measures that will be followed	Yes ⊠ No □ N/A □	The 9-1-1 System will comply with all State and Federal requirements and is compliant with the National Emergency Number Association (NENA) Standards including the NENA i3 Standard for Next Generation – NENA-STA-010.3a-2021.
	Explanation of measures taken to create a robust, reliable and diverse/redundant network and whether other 9-1-1 Authorities will be sharing the equipment	Yes ⊠ No □ N/A □	AT&T's ESInet solution is a combination of their IP network and Next Gen Core Services (NGCS) components that includes industry leading SLAs, management services and tools to help ensure that they provide the best possible service. The design is based on building redundant systems to avoid any single point of failure in the ESInet and the overall NG9-1-1 Network Architecture. The NG9-1-1 system will provide flexibility in the routing of calls. The ESInet being deployed has all PSAPs connected and can route calls based on not only

		location, but also by availability. In a Next Generation solution, a call will be answered through intelligent routing. Additionally, there will be more available positions to answer calls because all connected and tested PSAPs will be technically able to answer the call and will be able to dispatch or transfer the call to another PSAP. AT&T's ESInet provides six geographically diverse and fully redundant facilities to increase resiliency and survivability in natural and man-made disaster scenarios, with scalable capacity capable of supporting more than twice the 9-1-1 busy hour call for the entire United States. AT&T has documented business continuity and restoration plans, including complex disaster and evacuation contingencies. The 24x7 operations center employs an Incident Handling process modeled on FEMA's Incident Command System, with notifications built into the process.
Explanation of how the existing 9- 1-1 traditional legacy wireline, wireless and VoIP network, along with the databases, will interface and/or be transitioned into the NG9-1-1 system	Yes ⊠ No □ N/A □	 The AT&T ESInet solution will interconnect to legacy selective routers as defined per NENA standards. AT&T provides redundant, public safety grade points of presence in each LATA for OSP ingress locations for Legacy Network Gateways. AT&T will interconnect to Legacy Selective Routers to transfer and/or receive calls with Automatic Number Identification and Automatic Location Identification information to the State's NGCS via legacy means through the Legacy Selective Router Gateway. Interconnections will also allow legacy PSAPs served by legacy selective routers to serve as the abandonment route for PSAPs served by the AT&T ESInet solution. Connectivity extends beyond the internal ESInet transport to external network and Originating Service Provider (OSP) interfaces. The ESInet supports both TDM and IP OSP ingress at geographically distributed Points of Interconnection (POI's). The ESInet supports standards-based protocol interfaces to external ESInet solution, PSAPs on the ESInet have the ability to transfer calls to PSAPs on other ESInet solution and IP ospecies.
Explanation of how split exchanges will be handled	Yes ⊠ No □ N/A □	Interconnection agreements will include the roles and responsibilities of the Parties related to the exchange of 9-1-1 traffic including but not limited to, split rate centers, tandem to tandem and IP connections.

Explanation of who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday through Friday Yes ⊠ No □ N/A Explanation of security measures Yes ⊠ No □ N/A	 GIS data is submitted to the AT&T ESInet via a web-based spatial interface portal. The portal provides secure GIS file transfer. 9-1-1 Authorities can maintain their local database schema and configure database changes using attribute field mapping tools. The Spatial Interface validation engine logs errors and refers errors back to the
Explanation of security measures	originating 9-1-1 Authority in comprehensive reports that are retrieved in the 9-1-1 Enterprise Geospatial Database Management System.
placed on the IP 9-1-1 network and equipment to safeguard it from malicious attacks or threats to the system operation and what level of confidentiality will be placed on the system in order to keep unauthorized individuals from accessing it	AT&T's ESInet cyber security policies, standards, and guidelines are consistent with industry best practices as defined by International Organization for Standardization and Control Objectives for Information and related Technology. The AT&T ESInet is a highly secure, privately managed IP network providing IP based call routing services for next generation 9-1-1 call delivery. All inbound and outbound traffic interactions are with pre-authorized entities, utilize agreed upon protocols and traverse controlled access points. Call processing and real-time data delivery are protected through both physical and logical controls. Sensitive data resides in trusted data centers that employ logical and

Financial Information		
Annual recurring 9-1-1 network costs prior to modification	Yes □ No ⊠	N/A
Projected annual recurring 9-1-1 network costs after modification	Yes 🗆 No 🖂	TBD
Installation cost of the project	Yes □ No ⊠	TBD
Anticipated annual revenues	Yes □ No ⊠	N/A
Five Year Strategic Plan	Yes □ No ⊠	No change
Communities Served	Yes ⊠ No □	
Participating Agencies	Yes 🛛 No 🗆	
Adjacent Agencies	Yes 🛛 No 🗆	
Carrier Listing	Yes 🛛 No 🗆	
Attachments	If changes necessitate new versions	
Ordinances	Yes 🗆 No 🖂	
Intergovernmental agreement(s)	Yes □ No ⊠	
Contracts	Yes □ No ⊠	
Back-up PSAP agreement	Yes 🛛 No 🗆	There is no change to the current backup arrangement. Cencom 911 will continue to provide backup services to Fox Lake. McHenry County currently is an alternate route for the Geneva selective router. It will

		be determined during operational readiness testing if this alternate route is still needed. If no longer required, Cencom will be the sole backup for Fox Lake.
Network Diagram	Yes ⊠ No □	
Call-Handling and Aid outside jurisdictional boundaries agreements	Yes 🗆 No 🖂	
Test Plan	Yes ⊠ No □	AT&T will jointly plan the interconnecting network with the OSP. Circuits will be ordered and implemented between the OSP and the ESInet POI. AT&T will cooperatively test and turn up all trunking arrangements with the OSP. Traffic migrations from the legacy to new AT&T infrastructure will follow.

Conclusions:

Fox Lake is requesting a networking change to transition to the statewide AT&T Next Generation 9-1-1 network to provide Next Generation 9-1-1 service with transition to the AT&T ESInet scheduled for September 22, 2022, for the FoxComm 911 Center. The ISP has completed its review of the modified plan and has determined that it meets the requirements for a modified plan filing under 83 III. Admin. Code Part 1325.205.

Reviewed by: Stacy Ross **Date:** 9/1/22