# ILLINOIS STATE POLICE Office of the Statewide 9-1-1 Administrator



State of Illinois

## **Application for** 9-1-1 **Modification Plan**

## 911 GENERAL INFORMATION

DATE: 03/14/2023				
Type of Change:	Long Form Modification Plan	Short Form Modification	Plan	
Current System Na	me:	Population Served	Land Ar	ea in Sq Miles
Municipal Consolidate	d Dispatch (MCD)	36,00	00	7
List PSAPs:			Primary	Secondary
Municipal Consolidate	d Dispatch 7300 W. Wilson Avenue, Harwood	Heights, IL 60706	х	
				1
	200		-	
¥	,			
911 System Conta	ict: Ronald Gross			
Street Address: 73				
City, State and Zip	Code: Harwood Heights, IL 60706			
Office Telephone:	708) 320-7882		1)	
Cellular Telephone	e: <u>(773) 951-6093</u>			
Email: rgross@mcde	911.org			
Wireless C	overage for Consolidated System:	Please check if applicable	<b>):</b>	
	hase II compliant	X NG9-1-1 capable	=	
	hase I compliant	Receive 9-1-1 Text		
	•	Pagaira 0.1.1 Video		

### **VERIFICATION**

, Ronald Gross	, first being duly sv	vorn upon oath, depose and say tha
l am the Executive Director	_, of Municipal Consolidat	ed Dispatch ; that I have read the
foregoing plan by me subscribed and	d know the contents	thereof; that said contents are true in
substance and in fact, except as to the	nose matters stated u	pon information and belief, and as to
those, I believe same to be true.		
	Ron:	ald Gross, Executive Director
	Ra	nald Gross
	7-0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Subscribed and sworn to before me		1, m p m
		OFFICIAL SEAL
this 15 day of MAL est	, 20 <u>~2 ;</u> .	MARIA RAFALZIK  NOTARY PUBLIC, STATE OF ILLINOIS  MY COMMISSION EXPIRES: 4/9/2025
Marie Lafelye	<u></u>	
NOTARY PUBLIC, ILLINO'S		

# 9-1-1 SYSTEM PROVIDER LETTER OF INTENT

03/14/2023		
(Date)		
Lisa Wirtanan		
(9-1-1 System Provider Company Representative)		
AT&T		
(9-1-1 System Provider Company Name)		
4918 W. 95th Street		
(Street Address)		
Oak Lawn, IL 60453		
(City, State, Zip Code)		
(c.,, c.,, _,, _,, _,, _,, _,, _,, _,, _,, _,,		
Dear_Lisa :		
This letter is to confirm our intent to modify our 9-1-1 System. Enclos modification plan to be filed with the Department of the Illinois State		
Thank you for your assistance in this matter.	rolice for approv	aı.
Sincerely,		
Ronald Gross (Name) ROWAID GROSS (Title) Executive Director		
(Name) Ra Inia G. 0.055		
(Title) Executive Manchar		
The control of Red.		

enclosure: Modification Plan

#### **NARRATIVE STATEMENT:**

(Provide a detailed summary of system operations for a modified 9-1-1 plan. Also, if incorporating an NG9-1-1 solution, please include the additional items listed below pursuant to 1325.205 b)12).

- 1) Indicate the name of the certified 9-1-1 system provider being utilized.
- 2) Explain the national standards, protocols and/or operating measures that will be followed.
- 3) Explain what measures have been taken to create a robust, reliable and diverse/redundant network and whether other 9-1-1 Authorities will be sharing the equipment.
- 4) Explain 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.
- 5) Explain how split exchanges will be handled.
- 6) Explain how the databases will be maintained and how address errors will be corrected and updated on a continuing basis.
- 7) Explain who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday through Friday.
- 8) Explain what security measures will be 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.

#### Plan Narrative:

The Municipal Consolidated Dispatch (MCD) Joint Emergency Telephone System Board 9-1-1 System is transitioning from E9-1-1 to Next Generation 9-1-1 (NG911). AT&T is the 9-1-1 System Provider ("SSP"). The MCD JETSB 9-1-1 System will comply with all Federal and State laws and with National Emergency Number Association Standards (NENA) that pertain to NG911 including the NENA i3 Standard for Next Generation - NENA-STA-010.3a-2021.

The State of Illinois has selected AT&T to provide a statewide Next Generation 9-1-1 System. AT&T's ESInet combines AT&T's network capabilities with technology from Intrado Life &Safety, Inc. (Intrado). The AT&T ESInet solution will facilitate an efficient transition from legacy 9-1-1 networks to networks capable of supporting the growing demands of a mobile society. With AT&T ESInet, the State is taking advantage of AT&T's investment in a pre-built, cloud-based solution that delivers next-generation functionality. AT&T is also providing their industry-leading AT&T VPN MPLS network for primary access to all PSAPs.

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 (SPOF) 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 defense-in-depth security is built into the architecture. AT&T's Global IP network is monitored by 8 different Security Operations Center (SOC) facilities located across the world. AT&T uses its security portfolio capabilities to protect their data centers and networks.

AT&T's ESInet provides six (6) 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.

#### Plan Narrative:

The ESInet is monitored 24x7x365 from a NOC with tier 2 and tier 3 technical resources dedicated to the AT&T ESInet. AT&T's 9-1-1 Resolution Center has dedicated public safety resources.

The AT&T ESInet provides a flexible routing platform that supports both ESN (tabular) and GIS (spatial) routing on the same Emergency Call Routing Function (ECRF).

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 (LNGs).

AT&T will interconnect to Legacy Selective Routers to transfer and/or receive calls with Automatic Number Identification (ANI) and Automatic Location Identification (ALI) information to the State's NGCS via legacy means through the Legacy Selective Router Gateway (LSRG). 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 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 ESInets for call hand-off and call transfers. With pre-established connectivity capabilities, PSAPs on the ESInet have the ability to transfer calls to PSAPs on other ESInets or PSAPs that have not yet transitioned off legacy selective routers.

AT&T will coordinate getting the OSPs records into the AT&T ESInet database. AT&T will also jointly plan the interconnecting network with the OSP. Circuits will be ordered and implemented between the OSP and the ESInet POI. The ESInet POI may reside in an AT&T office or hub. 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. Integrated Text-to-911 is supported by the ESInet.

AT&T is responsible for negotiating interconnection agreements and trunking arrangements with each service provider. 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.

GIS data is submitted to the AT&T ESInet via a web-based spatial interface (SI) 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 (SI) validation engine logs errors and refers errors back to the originating 9-1-1 Authority in comprehensive reports that are retrieved in the 9-1-1 Enterprise Geospatial Database Management System (9-1-1EGDMS). Validation errors are corrected by the 9-1-1 Authority within their own GIS database. Updates are submitted and processed on an on-going basis.

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 physical access controls. All hardware and software elements deployed in a production environment go through stringent release management processes that incorporate thorough penetration scan testing. Corporate and development environments are separate from production and are not used in development or system test environments. Inter-zone traffic is restricted to only that of authorized personnel and the necessary protocols destinations used to support the management and applications of the ESInet with all other traffic implicitly denied by way of redundant and diverse Session Border Controllers (SBC) and stateful firewalls. A Network Operations Center (NOC) staffed 24 hours a day, seven days a week, 365 days a year to actively monitor and manage the AT&T ESInet end-to-end service is provided. When a potential or actual Customer-affecting issue is detected, the Incident Administration team is engaged by the NOC. The team uses established processes that are ISO 9001:2008-compliant for immediate escalation, notification, resolution, and reporting. All buildings, NOC and Data Center access are monitored by 24x7 security and access control systems.

MCD is not currently taking Text to 911 calls. We will be participating in the State's Text to 911 project and will work with our CHE provider to integrate text calls.

## FINANCIAL INFORMATION

Annual recurring 9-1-1 network costs prior to modification	\$ N/A
Projected annual recurring 9-1-1 network costs after modification	* N/A
Installation cost of the project	sN/A
Anticipated annual revenues	\$N/A

### FIVE YEAR STRATEGIC PLAN FOR MODIFIED PLAN

(Provide a detailed summary of the proposed system's operation, including but not limited to, a five-year strategic plan for implementation of the modified 9-1-1 plan with financial projections)

Narrative:			
N/A			
		¥	

### **COMMUNITIES SERVED**

Provide a list of all communities to be served by the proposed 9-1-1 System. Please include the name of the community and the official mailing address including street address, city and zip code.

#### USE ADDITIONAL SHEETS AS NECESSARY

City, Town or Village	Street Address, City, Zip Code
Village of Harwood Heights	7300 W. Wilson Avenue, Harwood Heights, IL 60706
Village of Norridge	4000 N. Olcott Avenue, Norridge, IL 60706
Village of Schiller Park	9526 W. Irving Park Road, Schiller Park, IL 60176

#### PARTICIPATING AGENCIES

Provide a list of public safety agencies (Police, Fire, EMS etc.) that are to be dispatched by the 9-1-1 System. Each Agencies land area(s) in square miles and estimated population which will have access to the proposed 9-1-1 System. Do not forget to include County Sheriff's jurisdiction and Illinois State Police Districts. Each agency that appears on this list should also have signed a call handling agreement.

9-1-1 Participant Agencies	Street Address, City, Zip Code	Administrative Telephone No.	Direct Dispatch	Transfer	Call Relay
Harwood Heights Police	7300 W Wilson Av Harwood Heights, 60706	(708) 867-4343	х		
Norridge Police	4020 N. Olcott Av Norridge, 60706	(708) 453-4770	х		
Schiller Park Police	9526 W. Irving Park Rd, 60176	(847) 678-2425	Х		
Schiller Park Fire	9526 W. Irving Park Rd, 60176	(847) 678-5136	Х		
Norwood Park Fire Prot. Dist.	7447 W. Lawrence Av, 60706	(708) 867-5428	Х	Х	
			r	i i	
4.4 m - 1 m					
-					

## ADJACENT AGENCIES LIST

Provide a list of public safety agencies and existing 9-1-1Systems that are adjacent to the proposed system's boundaries. Each agency that appears on this list should also have signed a call handling agreement and/or aid outside jurisdictional boundaries.

AGENCY	STREET ADDRESS, CITY, ZIP CODE	TELEPHONE NUMBER
Chicago OEMC	1411 W. Harrison St. Chicago, 60607	(312) 746-0911
Cook County ETSB	9511 W. Harrison, Des Plaines, 60016	(847) 294-4746
Proviso-Leyden / Norcomm	2600 N. Mannheim Rd, Franklin Park 60131	(708) 344-2124
Illinois State Police - Troop 15	2700 W. Ogden Av. Downers Grove, 60515	(630) 271-7535
Illinois State Police - Troop 3	9511 W. Harrison, Des Plaines, 60016	(847) 294-4843

## Municipal Consolidated Dispatch Village of Harwood Heights, Norridge, Schiller Park

7300 W. Wilson Avenue, Harwood Heights, IL 60706 • 708.320-7880

## Alternate Public Safety Answering Point Routing Agreement

This agreement is made between Municipal Consolidated Dispatch (MCD) and NORCOMM Public Safety Communications (NORCOMM), located at 2600 N. Mannheim Road, Franklin Park, IL 60131, for the purposes of effective handling and routing of E-9-1-1 and wireless 9-1-1 emergency calls for police/fire/EMS assistance.

#### **Call Handling**

**Municipal Consolidated Dispatch** 

When the volume of emergency calls at MCD Public Safety Answering Point (PSAP) is such that an overflow of emergency calls is produced, the overflow of calls, normally routed to MCD, will be routed to NORCOMM Public Safety Communications.

When NORCOMM receives an emergency call for service, normally routed to MCD, they will notify MCD via the Starcom radio network, Division XX local frequency, IFERN, AT&T programmed trunk to trunk transfer, designated number listed in the PSAP transfer list provided by the Office of the 9-1-1 State Administrator, or a mutually agreed upon method to have an emergency unit respond to the call for assistance.

In the event MCD is rendered inoperable and unable to receive or dispatch emergency calls for service, NORCOMM will serve as the backup PSAP, provided NORCOMM is physically capable to receive such calls. If MCD is physically unable to dispatch emergency units, NORCOMM will provide direct dispatch to the respective response agency via interoperable capabilities in place.

This agreement shall become effective upon the decommissioning of the Village of Rosemont Public Safety Answering Point.

**NORCOMM Public Safety Communications** 

Ronald Gross, Executive Director	Oomed of Neutro
Nonald Gross, Executive Director	Donald Nielsen, Executive Director
Date: 07/30/2005	Date: 07/29/2020

#### **CARRIER LISTING**

(Wireline, Wireless, VoIP)

Provide a list of each carrier that will be involved in the proposed system.

#### (USE ADDITIONAL SHEETS AS NECESSARY)

CARRIERS	STREET ADDRESS, CITY, ZIP CODE	TELEPHONE NUMBER
AT&T		
Verizon		
T-Mobile		
4		
,		

#### **Test Plan Description i3**

TEST #	TEST CASE	TYPE
1	Trunk Verification (SIP)	Call Routing
2	Trunk Verification (SS7 Ingress from LSR)	Call Routing
3	Trunk Verification (SS7 Egress from AGC to LSR)	Call Routing
4	Perform reboot and validation on each AT&T network edge router at PSAP	Failover test
5	Perform WAN interface shutdown and validation on each AT&T network	Failover
	edge router at PSAP	
6	Perform reboot and validation on each ATT Interface Router (between CPE	
	and AT&T router)	
7	Wireline Call Routed to PSAP through AT&T ESInet	Equipment
8	Wireless Call Routed to PSAP through AT&T Esinet	Equipment
9	VOIP Call Routed to PSAP through AT&T ESInet	Equipment
10	CPE bids i3 Components	Call Handling
11	i3 Routing Fails, Routing via SRDB for Wireline call	Call Routing
12	i3 Routing via ECRF for Wireline call	Call Routing
13	i3 Transfer: Fixed Bridge Conferencing Confirmation (Call to IP PSAP then	Call Handling
	bridge to i3 PSAP if available – willing PSAP)	
14	S/R Transfer: Selective Bridge Conferencing Confirmation, if used by the	Call Handling
	PSAP	
15	S/R Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
16	S/R Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
17	PSTN Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
18	Manual Transfer to valid local TN	Call Handling
19	Manual conference bridging to invalid unassigned number	Call Handling
20	Manual conference bridging to a valid 8YY number	Call Handling
21	Manual conference bridging to a valid Busy number	Call Handling
22	Manual conference bridging to a Multi-Party Conference	Call Handling
23	Manual conference bridging to a valid long-distance cell	Call Handling
24	Alternate Routing	Call Routing
25	Ring no Answer Timer	Call Routing
26	No position Logged In	Call Routing
27	Abandonment Routing	Call Routing
28	Un-Abandonment Routing	Call Routing
29	Abandonment Routing – PAD Testing (if PAD available)	Call Routing
30	Un-Abandonment Routing – PAD Testing (if PAD available)	Call Routing
31	Test line appearances that appear on each CPE	Call Processing
32	TTY call	Call Handling
33	TTY conference call	Call Handling