# Oahu Civilian E9-1-1

# Status Report

January 1, 2023 – January 31, 2023



# January 1, 2023 - January 31, 2023

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# January 1, 2023 - January 31, 2023

#### 1. PSAP OPERATIONS

#### 9-1-1 CALL VOLUME CIVILIAN PSAPS – JANUARY 2023

#### **Source:** Intrado Viper system

(\*) Totals are based on calls to Primary PSAP.

	9-1-1 Primary PSAP Call Volume																
Honolulu City & County PSAPs		Wireline		Wireless			VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls		
2023	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	Wireless	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Other Calls	% of Total Calls
January	84,014	11,930	14.20%	69,345	82.54%	16.53%	66.01%	2,688	3.20%	50	0.06%	1,601	1.91%	12,888	15.34%	987	1.17%

#### 9-1-1 CALL VOLUME CIVILIAN PSAPS - CALENDAR YEAR 2023

9-1-1 Primary PSAP Call Volume																	
Honolulu City & County PSAPs		Wireline		Wireless				VOIP Calls		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2023	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Total Call Received	% of Total Calls
JAN	84,014	11,930	14.20%	69,345	82.54%	16.53%	66.01%	2,688	3.20%	50	0.06%	1,601	1.91%	12,888	15.34%	987	1.17%
FEB																	
MAR																	
APR																	
MAY																	
JUNE																	
JULY																	
AUG																	
SEPT																	
ост																	
NOV																	
DEC																	
YTD	84,014	11,930		69,345				2,688		50		1,601		12,888		987	
MON AVG	84,014	11,930	14.20%	69,345	82.54%	16.53%	66.01%	2,688	3.20%	50	0.06%	1,601	1.91%	12,888	15.34%	987	1.17%

#### NOTE:

- 11 Calls with No ALI for January 2023 = 0.06% Statewide average for 2022 = 0.05%
- Total call volumes do not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.
- Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.
- Abandoned Calls are not included in the Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.

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### 9-1-1 CALL VOLUME BY AGENCY – JANUARY 2023

				9-1-1	Call Volu	me by Age	ncy						
2023		Hor	olulu Poli	ce Departn		Honolulu Fire Department							
2023	No. of Total Calls Received	% of Total Calls	Number of Emergency Calls		Number of Admin Calls	Number of Dropped Calls	No. of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls			
January	70,996	84.50%	19,189	37,552	1,367	12,888	2,997	3.57%	112	36			

			9	-1-1 Call Volu	me by Agen	су						
2023	Er	nergency M	edical Servic	es	Ocean Safety							
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls				
January	8,970	10.68%	67	123	64	0.08%	55	0				

### 9-1-1 CALL VOLUME BY AGENCY – CALENDAR YEAR 2023

							9	-1-1 Cal	I Volun	ne by A	gency							
2023	Honolulu Police Department						Honol	Honolulu Fire Department			Emergency Medical Services				Ocean Safety			
	Number of Total Calls Received	% of Total Calls	No. of Emergency Calls	No. of Non Emergency Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls
JAN	70,996	84.50%	19,189	37,552	1,367	12,888	2,997	3.57%	112	36	8,970	10.68%	67	123	64	0.08%	55	0
FEB																		
MAR																		
APR																		
MAY																		
JUNE																		
JULY																		
AUG																		
SEPT																		
ост																		
NOV																		
DEC																		
YTD	70,996		19,189	37,552	1,367	12,888	2,997		112	36	8,970		67	123	64		55	0
MON AVG	70,996	84.50%	19,189	37,552	1,367	12,888	2,997	3.57%	112	36	8,970	10.68%	67	123	64	0.08%	55	0

# January 1, 2023 - January 31, 2023

#### **PSAP OPERATION NOTES:**

- A New Class of Service (COS); FIXD = Wireless 911 calls to the PSAP via fixed indoor antennas.
- x (911) calls with the COS of FIXD were added to the Wireless Phase I (WPH 1) percentage total.
- A New Class of Service (COS): WDL1/WDL2 = Wireless 911 calls to the PSAP via fixed indoor antennas with a general location i.e., pool area (WDL1) or a specific area i.e., room 101 (WDL2).
- x (911) calls with the COS of WDL1, or WDL2 were added to the Wireless Phase I or Phase II percentage total.

#### FOR YOUR INFORMATION

	FYIFor Your Information												
	PSAP Operations												
	Statewide 911 Call Volumes												
PSAP	20	22	202	21	202	20	20	19	20	18	20	17	
Oahu Civilian	971,113	69.45%	1,052,026	68.91%	991,016	71.11%	1,075,726	69.67%	1,034,190	70.62%	1,022,818	72.16%	
<b>RDC Pearl Harbor</b>	31,827	2.28%	39,253	2.58%	37,014	2.66%	37,905	2.45%	37,068	2.53%	27,916	1.97%	
Hawaii County	199,811	14.29%	214,220	14.00%	188,329	13.51%	211,611	13.70%	206,648	14.11%	193,166	13.62%	
Maui County	140,524	10.05%	160,241	10.51%	125,626	9.01%	157,127	10.18%	133,869	9.14%	123,685	8.73%	
Kauai County	54,923	3.93%	60,986	4.00%	51,653	3.71%	61,754	4.00%	52,623	3.60%	49,902	3.52%	
Total	1,398,198	100.00%	1,526,726	100.00%	1,393,638	100.00%	1,544,123	100.00%	1,464,398	100.00%	1,417,487	100.00%	

911 Call Volume % decrease from 2021 to 2022								
Oahu	-7.69%							
RDC	-18.92%							
Hawaii	-6.73%							
Maui	-12.30%							
Kauai	-9.94%							
State of Hawaii	-8.42%							

911 Calls with No ALI 9	% average for 2022
Oahu	0.11%
RDC	0.00%
Hawaii	0.05%
Maui	0.06%
Kauai	0.04%
State of Hawaii average	0.05%

State of Hawaii 2022								
TEXT TO 911								
Oahu Civilian	3,415							
RDC Pearl Harbor	36							
Hawaii County	526							
Maui County	223							
Kauai County	153							
*Total	4,353							

\*Totals may include PSAP training, testing, and 911 Texting errors

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#### TEXT TO 911 OAHU CIVILIAN PSAPS - CURRENT MONTH - JANUARY 2023

	TEXT TO 911 Oahu Civilian PSAPs 2023					
Month	Total	HPD	HFD	EMS	os	911 (handled)
January	274	204	1	4	0	65
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						
YTD	274	204	1	4	0	65
Monthly Avg.	274.0	204.0	1.0	4.0	0.0	65.0

#### NOTE:

- Although there is a "Text to 911" plot on the MapFlex, the location of the plot is not dependable. Text to 911 Dispatchers should use their skills to ascertain the exact location of the emergency response.
- The 9-1-1 handled texts were incidents in which the Division conducted testing or the texter texted 911 in error.

#### 911 WIRELESS OAHU CIVILIAN PSAP TESTING - JANUARY 2023

	OAHU CIVILIAN - JANUARY 2023					
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:

#### NOTES:

• There were no (0) scheduled Wireless 911 Tests for the Oahu Civilian PSAP in January 2023.

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#### 2. MSAG (MASTER STREET ADDRESS GUIDE)

#### OAHU CIVILIAN MSAG TRANSACTIONS CURRENT MONTH/YEAR - JANUARY 2023

OAHU				9-1-1	TRANSA	CTIONS			
CIVILIAN	Total	MSAG	A	LI Submitte	ed	Discre	Open ALI		Customer Addresses
2023	Total	MSAG (A)	TN CR (B)	ALI DR (C)	VoIP (D)	TNCR	ALI DR	VoIP DR	Affected
JANUARY	580	9	571	0	0	4,112	0	0	422
FEBRUARY									
MARCH									
APRIL									
MAY									
JUNE									
JULY									
AUGUST									
SEPTEMBER									
OCTOBER									
NOVEMBER									
DECEMBER									
TOTAL YTD	580	9	571	0	0				422
AVG PER MONTH	580	9	571	0	0				422

#### **Definitions**

(A) Master Street Address Guide - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.

- (B) **T**elephone **N**umber **C**hange **R**equest Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 199 attached to them which indicates the need for validation.
- (C) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
- (D) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord Represents an address discrepancy discovered during a live 9-1-1 call, from a VoIP phone. These record corrections are treated with a higher priority and should be processed within 72 hours as a general guideline per Time Warner Operations Center. MSR tracking effective April 2014.

### January 1, 2023 - January 31, 2023

#### OAHU CIVILIAN MSAG CURRENT MONTH NOTES:

A total of **580** MSAG transactions were processed in 9-1-1 Net during the current reporting month. Nine (9) requests were processed relating to the MSAG database which include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS, and Military response areas, and inserting new MSAG records.

There were 442 customer ANI/ALI (telephone/address) records updated as a direct result.

#### OAHU CIVILIAN TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

Akimeka processed five hundred sixty-nine (569) TN CRs related to the Dispatchable Location Project during the current month.

#### OAHU CIVILIAN OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

• There are currently 4,112 Open TN CRs.

**4,112** Open TN CR transactions are a result of the Dispatchable Location project. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to Intrado for correction, it must be verified against HT records and/or approved by the customer. Intrado's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

- There are no Open ALI-DRs as of January 31, 2023
- There is no Open VoIP DRs as of January 31, 2023

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#### TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – JANUARY 2023

#### NOTE:

- 9-1-1 NET is a secure web-based application that provides access to request changes to the MSAG, ALI, TN, and ESN/ELT data supported and maintained by Intrado for the Telephone Company (TelCo).
- TNCRs are not requests to change Telephone Numbers (TNs); however, it is a corrective process within 9-1-1 NET to modify location information associated with an Automatic Location Identification (ALI) record to a valid MSAG address for 9-1-1 purposes.

	PSAP 9-1-1 Telephone Number Location Change Request			
	(Telephone Number Change Request (TNCR) Status)			
PSAP	TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS
OAHU CIVILIAN	4,112	0	2,671	1,441

#### **STATUS**

**TOTAL TNCRs SUBMITTED** - The total number of TNCR requests for modification that have been submitted in 9-1-1 **PENDING STATUS** - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service

Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.

<u>REFERRED STATUS</u> - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and the request requires additional information to validate. The Intrado Data Analysts assigns this status to a TNCR and the request is referred to the telephone service providers for further research.

**TOTAL UNOPENED TNCR RECORDS STATUS** - The request is submitted by Akimeka on behalf the PSAP; however, processing by the 9-1-1 Database Service Provider Data Analyst has not begun.

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#### DISPATCHABLE LOCATION - STATUS AS OF - JANUARY 2023

#### NARRATIVE:

During the August 2015 State of Hawaii 911 Board meeting, Akimeka provided a "State of Hawaii PSAPs Proposed ALI Compliancy with FCC 15-9" presentation. Based on the 9-1-1 Board's confirmation to add the "Dispatchable Location" information into the ALI database, Akimeka researched the format standards of each pertinent field, and tested the delivery of the data to the PSAP. After a few configuration adjustments (eliminating the TelCo comments field from appearing on the ALI Screen), Akimeka standardized an additional information data format to proceed with this project.

The "Dispatchable Location" data is entered into the "Driving Directions" field in the 9-1-1 Net system and will display on the Viper Power 911 ALI Screen in the "Exact" field should a 911 call be received from that telephone number. The Windward Mall will be the pilot location starting in April 2018. There were 746 transactions submitted and 569 processed in January 2023. (see next pages)

Dispatchable Location					
2023 Quarter 1	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**		
2022 carryover		32,226	17,792		
	Aloha Gas Kapahulu, 1001 Kapahulu Ave, Kaimuki	0	4		
	Kuhale Kapahulu, 1023 Kapahulu Ave, Kaimuki	0	4		
	Kapahulu Medical Bldg, 1029 Kapahulu Ave, Kaimuki	0	27		
	Purradise Cat Care Bldg, 1131 Kapahulu Ave, Kaimuki	0	114		
	Century Center, 1750 Kalakaua Ave, McCully	0	34		
	Discovery Bay Center, 1778 Ala Moana Blvd, Waikiki	0	36		
	Park Plaza Waikiki, 1784 Ala Moana Blvd, Waikiki	0	2		
	Pomaikai Condos, 1804 Ala Moana Blvd, Waikiki	0	2		
	The Plaza at Waikiki, 1812 Kalakaua Ave, McCully	0	8		
January	Pavillion at Waikiki, 1925 Kalakaua Ave, Wakiki	0	20		
	McCully Shopping Center, 1960 Kapiolani Blvd, McCully	0	18		
	Kaualana Manor, 1941 Church Ln, McCully	0	3		
	The Lime Tree Condo, 2015 Lime St, McCully	0	2		
	Marco Polo Condo, 2333 Kapiolani Blvd, McCully	0	67		
	Pan Pacific Condo, 922 Kapahulu Ave, Kapahulu	0	8		
	Holiday Parkway Condo, 910 Kapahulu Ave, Kapahulu	0	48		
	Kapahulu Shopping Center, 909 Kapahulu Ave, Kaimuki	0	3		
	Panda Express, 890 Kapahulu Ave, Kapahulu	0	2		
	Safeway Kapahulu Ave, 888 Kapahulu Ave, Kaimuki	0	40		

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### DISPATCHABLE LOCATION - STATUS AS OF - JANUARY 2023 - CONTINUED

Dispatchable Location				
2023 Quarter 1	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**	
2022 carryover		32,226	17,792	
	Ala Wai Manor Condo, 620 McCully St, McCully	0	8	
	Foodland, 2939 Harding Ave, Kapahulu	0	11	
	Market City Shopping Center, 2919 Kapiolani Blvd, Kapahulu	0	26	
	Contessa Condos, 2825 S King St, McCully	0	11	
	Humane Society, 2700 Waialae Ave, McCully	0	8	
	Hale Kulanui Condo, 2740 Kuilei St, McCully	0	10	
	Kapahulu Vista Apts, 837 Kapahulu Ave, Kaimuki	0	8	
	Rainbow Place, 2754 Kuilei St, McCully	0	9	
	Terrance Towers, 2440 Date St, McCully	0	4	
	Rigo Spanish Italian Restaurant, 885 Kapahulu Ave, Kaimuki	0	4	
	Brookside Terrance, 2751 Kapiolani Blvd, McCully	0	2	
	Regency Tower Condos, 2525 Date St, McCully	0	2	
	Plaza at Century Court, 2542 Date St, McCully	0	2	
lonuom.	Sheraton Waikiki, 2255 Kalakaua Ave, Waikiki	0	3	
January	Ala Wai Plaza, 500 University Ave, McCully	0	3	
	Ala Wai Clubhouse, 2015 Kapiolani Blvd, McCully	0	3	
	Plumeria Hale, 2630 Kapiolani Blvd, McCully	0	3	
	Sekiya Restaurant, 2746 Kaimuki Ave, Kapahulu	0	3	
	Honolulu Coffee Co, 1837 Kapiolani Blvd, McCully	0	1	
	Kapiolan Breeze Apts, 1881 Kapiolani Blvd, McCully	0	1	
	7 Eleven, 1922 Kalakaua Ave, Waikiki	0	1	
	Lani Home, 2563 Date St, McCully	0	1	
	Kapiolani Banyan, 2752 Kaaha St, McCully	0	1	
	The Royal Iolani Ewa, 581 Kamoku St, McCully	0	1	
	The Royal Iolani Diamond Head, 583 Kamoku St, McCully	0	1	
	Pizza Hut, 768 Kapahulu Ave, Kapahulu	6	0	
	Palani Manor, 727 Palani Ave, Kapahulu	2	0	
	Kamuela Hale, 712 Kamuela Ave, Kapahulu	5	0	

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# DISPATCHABLE LOCATION – STATUS AS OF – JANUARY 2023 – CONTINUED

Dispatchable Location				
2023	Common Name Place	TNCR* Transactions	Transactions	
Quarter 1	MSAG Address	Submitted	Processed**	
2022 carryover		32,226	17,792	
	Cure Oahu, 727 Kapahulu Ave, Kaimuki	3	0	
	American Savings Bank, 737 Kapahulu Ave, Kaimuki	4	0	
January	Taco Bell, 717 Kapahulu Ave, Kaimuki	3	0	
	Hele Gas Station, 707 Kapahulu Ave, Kaimuki	6	0	
	Side Street Inn, 614 Kapahulu Ave, Kapahulu	717	0	
February				
March				
Q1		746	569	
Total		32,972	18,361	

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#### SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT – JANUARY 2023

Akimeka received the Automatic Location Identification (ALI) records from Spectrum (formally known as Charter Communications) which is the predominant Voice over Internet Protocol (VoIP) provider in the State of Hawaii. As Akimeka has access to these ALI Records, Akimeka is researching and verifying the VoIP records against an MSAG valid address and the GIS data. This research is a validation of the ALI Record to ensure that the location as provided by the VoIP provider matches the GIS Information utilized by the Public Safety Agencies within their specific County 9-1-1 Service Area. This validation reduces the potential of address or location dispute during a 9-1-1 call.

The analysis of the database records indicates that there are invalid MSAG addresses utilized by the VoIP Provider. These records are being identified and will be sent back to Spectrum for corrective action.

	*Spectrum (Charter) 9-1-1 VoIP Database Verification Project				
PSAP	TOTAL RECORDS SUBMITTED BY SPECTRUM (A)	TOTAL RECORDS MATCHING & VERIFIED WITH 911 DATABASES (B)	TOTAL RECORDS NOT MATCHING	NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)	PERCENT COMPLETED
HAWAII County	22,044	21,638 (98%)	406	406	100.00%
KAUAI County	8,936	8,695 (97%)	241	241	100.00%
MAUI County	18,256	17,517 (96%)	739	739	100.00%
OAHU Cilivian	87,414	85,329 (98%)	2,085	2,085	100.00%
OAHU Military	3,663	710 (19%)	2,953	2,953	100.00%
TOTAL	140,313	**133,889	6,424	6,424	100.00%

<sup>\*</sup> Spectrum VoIP Database received on June 21st, 2017

<sup>\*\*</sup> Akimeka provided VoIP Records with Latitude/Longitude coordinates

(A)	VoIP Database records submitted by Spectrum to Akimeka for research and MSAG address validation.
	Akimeka has researched and verified the VoIP record against an MSAG valid address and GIS data. Akimeka is tracking corrections needed to be performed by Spectrum. Addressing data will be updated or added in the GIS if the VoIP record is determined to be valid.
(C)	Verifcation Process Completed.

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#### BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – JANUARY 2023

Akimeka received the Automatic Location Identification (ALI) records from Bandwidth which is a Voice over Internet Protocol (VoIP) provider in the State of Hawaii. As Akimeka has access to these ALI Records, Akimeka researched and verified the VoIP records against an MSAG valid address and the GIS data. This research is a validation of the ALI Record to ensure that the location as provided by the VoIP provider matches the GIS Information utilized by the Public Safety Agencies within their specific County 9-1-1 Service Area. This validation reduces the potential of address or location dispute during a 9-1-1 call.

The analysis of the database records indicates that there were invalid MSAG addresses utilized by the VoIP Provider. These records were identified and sent back to Bandwidth for corrective action.

Akimeka will update the chart below as we receive updated ALI records from Bandwidth.

	*Bandwidth				
9-1-1	VoIP Databa	ase Verificatio	n Project *	**(Updated	l)
PSAP	TOTAL RECORDS SUBMITTED BY BANDWIDTH (A)	TOTAL NO MATCHING RECORDS IDENTIFIED BY AKIMEKA	BANDWIDTH FALLOUT RECORDS (B)	NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)	PERCENT COMPLETED
HAWAII County	2,126	97	16	106	93.81%
KAUAI County	555	75	3	73	93.59%
MAUI County	1,794	60	14	69	93.24%
OAHU Cilivian	12,898	1,556	44	1,590	99.38%
OAHU Military	173	156	11	163	97.60%
TOTAL	17,546	1,944	88	2,001	95.52%

<sup>\*</sup>Bandwidth VoIP Database received on April 5th, 2018

(A)	VoIP Database records submitted by Bandwidth to Akimeka for research and MSAG address validation.
( <b>R</b> )	VoIP records identified by Bandwidth as fallout records. These records contain invalid MSAG addressing information which can include house number, street name/suffix, or MSAG community.
(C)	Verifcation Process Completed.

<sup>\*\*</sup>Updated Bandwidth VoIP Database received on September 6th, 2018

<sup>\*\*\*</sup> Updated Bandwidth VoIP Database received on October 1st, 2021

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### 3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – JANUARY 2023

MAPPING LAYERS UPDATED (PART I)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

		OAHU CIVILIAN PSAPS
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks
CRITICAI	9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
		Next Delivery 2/10/2023
		Corrected routing ID for one (1) record in Kakaako
	1/27/2023	Added new address point for three hundred and seventy-three (373)
	То	records in Makiki
	1/31/2023	Corrected spatial for five (5) records in Makiki
		Added new address point for one (1) record in Maili
		Added new address point for one (1) record in Waipio
		Delivered 1/27/2023
		Added new address point for two (2) records in Nuuanu
		Corrected TMK for four (4) records in Waialae
		Added new address point for two (2) records in Aiea
		Added new address point for one (1) record in Kailua
		Corrected spatial for seven (7) records in Makiki
Address Points		Corrected TMK for fifty-five (55) records in Manoa
riddiess i onits		Corrected TMK for one (1) record in Kaneohe
		Added new address point for one (1) record in Nanakuli
	1/13/2023	Corrected TMK for ninety-four (94) records in Kalihi
	То	Added new address point for thirty-six (36) records in Punchbowl
	1/26/2023	Added new address point for one (1) record in Waipahu
		Corrected TMK for ten (10) records in Kapahulu
		Corrected spatial, added location name, added location type for one (1)
		record in Makiki
		Added location type for one (1) record in Kahala
		Corrected TMK for six (6) records in Waikiki
		Corrected TMK for nine (9) records in Punchbowl
		Corrected TMK for three thousand, four hundred and seventy-four (3474)
		records in Honolulu
		Corrected TMK for sixteen (16) records in Mokuleia

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#### MAPPING LAYERS UPDATED (PART II)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS					
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks			
CRITICAL	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE				
Address Points	1/13/2023 To 1/26/2023	Corrected TMK for one (1) record in Haleiwa Corrected TMK for sixteen (16) records in Waialua Corrected TMK for sixteen (16) records in Nuuanu Corrected TMK for forty-five (45) records in Nuuanu Corrected TMK for forty-five (45) records in Kaimuki Added new address point for one (1) record in Kaneohe Added new address point for three (3) records in Haleiwa Corrected TMK for thirty-two (32) records in Kakaako Corrected TMK for eight (8) records in Mililani Corrected TMK for eight (8) records in Aiea Added new address point for two (2) records in Ewa Beach Corrected TMK for four (4) records in Kahala Corrected TMK for twenty-six (26) records in Airport Corrected TMK for thirty-three (33) records in Wahiawa Corrected TMK for three (3) records in Mapunapuna Corrected TMK for eleven (11) record in Waipio Corrected TMK for eleven (11) record in Kahala Added new address point for one (1) record in Kahala Added new address point for one (1) record in Kahala Added new address point for one (1) record in Kahalu Corrected TMK for four (4) records in Haleiwa Added new address point for one (1) record in Kahaluu Corrected routing ID for eleven (11) records in Makiki Added new address point for one thousand, four hundred and twenty-five (1425) records in Makiki Corrected TMK for six (6) records in Makiki			
		Corrected spatial for one (1) record in Punchbowl  Corrected TMK for three (3) records in Downtown  Added new address point for one (1) record in Pearl City			

# January 1, 2023 - January 31, 2023

#### MAPPING LAYERS UPDATED (PART III)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

	OAHU CIVILIAN PSAPS					
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks				
CRITICAI	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)					
	1/13/2023 To 1/26/2023	Corrected TMK for three hundred and seventy-six (376) records in Ala Moana Added new address point for seventy-six (76) records in Waipio Corrected TMK for two (2) records in Sunset Added new address point for four (4) records in Mililani				
Address Points	1/1/2023 To 1/12/2023	Delivered 1/13/2023  Added new address point for two hundred and one (201) records in Nuuanu  Corrected apartment for one (1) record in Mililani  Added name for two (2) records in Kaimuki  Corrected Tritech name for twenty-one (21) records in Downtown  Added new address point for one (1) record in Kailua  Added new address point for one (1) record in Hauula  Corrected spatial for six (6) records in Makiki  Corrected TMK for thirty-eight (38) records in Kaneohe  Corrected spatial for four (4) records in Punaluu  Added name for two (2) records in Waikiki  Corrected TMK for forty-three (43) records in Kahuku  Added new address point for one (1) record in Wahiawa  Added new address point for one hundred and twelve (112) records in Punchbowl  Corrected TMK for two (2) records in Punaluu  Added new address point for one hundred and twelve (112) records in Punchbowl  Corrected TMK for two (2) records in Punaluu  Added new address point for three (3) records in Waikiki  Corrected TMK for two (1) record in Kailua  Corrected routing ID for one (1) record in Kailua  Corrected location name, corrected spatial for one (1) record in Punchbowl  Corrected TMK for twenty (20) records in Laie				

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#### MAPPING LAYERS UPDATED (PART IV)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS						
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks				
CRITICAI	2 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE				
		(Listed Alphabetically)				
		Corrected routing ID for five (5) records in Honolulu				
		Corrected spatial for one (1) record in Hauula				
		Corrected spatial, TMK for one (1) record in Kahaluu				
		Corrected TMK for two (2) records in Hauula				
		Corrected spatial, added location type, corrected apartment for one (1) record in Makiki				
		Corrected routing ID for one (1) record in Laie				
		Added new address point for one (1) record in Kahala				
		Corrected routing ID for fourteen (14) records in Punchbowl				
	1/1/2023 To 1/12/2023	Added new address point for two (2) records in Kahaluu				
Address Points		Corrected routing ID for twenty-nine (29) records in Makiki				
		Added new address point for three hundred and fifty-nine (359) records				
		in Makiki				
		Corrected spatial for one (1) record in Punchbowl				
		Added name for one (1) record in Kapahulu				
		Corrected spatial for one (1) record in Nuuanu				
		Corrected spatial for one (1) record in Mililani				
		Added new address point for one (1) record in Manoa				
		Corrected spatial for five (5) records in Laie				
		Corrected TMK for three (3) records in Kaaawa				
		Corrected TMK for sixteen (16) records in Sunset				
Airports						
AMR Response Areas						
Bridges						
Building Footprints						
Bus Stops						
Churches						
Coastal Names						
Coastline						

# January 1, 2023 - January 31, 2023

#### MAPPING LAYERS UPDATED (PART V)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS					
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks			
CDITICAL	ļ	SAFETY LAYERS FOR DISPATCH & RESPONSE			
CRITICAL	2 9-1-1 PUBLIC	(Listed Alphabetically)			
Common Places					
Correctional Facilities					
Emergency Callboxes					
Emergency Operation					
Centers					
Emergency Shelters					
ESZ/ESN					
Fire Beats					
Fire Districts					
Fire Response Areas					
Fire Stations					
Food & Beverage					
Gas Stations					
Gate Codes					
Government Buildings					
Harbors					
Helipads					
Hiking Trails					
Hospitals					
Hydrants					
Hyrdology Layers					
Incident Response Areas					
Lodging					
Major Roads					
Medic Beats					
Medic Districts					
Medic Response Areas					
Medic Stations					
Medical Facilities					

# January 1, 2023 - January 31, 2023

#### MAPPING LAYERS UPDATED (PART VI)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS					
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks			
CRITICAI	9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE			
(Listed Alphabetically)					
Milepost Markers					
Military Response Areas					
MSAG Communities					
Net Junctions					
Ocean Rescue Boundaries					
Ocean Safety					
Parcels					
Parks					
Parks Polygon					
Points of Interest	1/1/2023 To 1/12/2023	Delivered 1/13/2023  Corrected routing ID for one (1) record in Punchbowl			
Police Beats					
Police Districts					
Police Response Areas					
Police Stations					
Post Offices					
Schools					
	1/27/2023	Next Delivery 2/10/2023			
Street Centerlines	То	Added new segment for one (1) record in Makiki			
	1/31/2023	Added name, range for one (1) record in Iroquois			
Subdivisions					
Tow Jurisdictions					
Tsunami Evacuation Zones					
Tsunami Heights					
Waste Water Plants					
		Next Delivery 2/10/2023			
W/CD Coll C	1/27/2023	Updated one (1) sector per AT&T CRS			
WSP Cell Sectors	To 1/31/2023	Added five (5) sectors per Verizon Wireless CRS			
		Updated six (6) sectors per Verizon Wireless CRS			

# January 1, 2023 - January 31, 2023

#### MAPPING LAYERS UPDATED (PART VII)

9-1-1 GIS layers provided by Akimeka to the PSAP are designed for use on E9-1-1 systems and NG9-1-1 systems.

OAHU CIVILIAN PSAPS						
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks				
CRITICAI	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)					
	1/13/2023	Delivered 1/27/2023 Updated thirteen (13) sectors per AT&T CRS				
WSP Cell Sectors	To 1/26/2023	Added fifty-five (55) sectors per Verizon Wireless CRS  Updated six (6) sectors per Verizon Wireless CRS				
	1/1/2023 To 1/12/2023	Added thirty-three (33) sectors per AT&T CRS  Delivered 1/13/2023  Added two (2) sectors per AT&T CRS				
	1/27/2023 To 1/31/2023	Next Delivery 2/10/2023  Added one (1) tower per AT&T CRS  Updated three (3) towers per Verizon Wireless CRS				
WSP Cell Towers	1/13/2023 To 1/26/2023	Delivered 1/27/2023  Added one (1) tower per AT&T CRS  Updated three (3) towers per Verizon Wireless CRS  Added six (6) towers per Verizon Wireless CRS  Updated five (5) towers per AT&T CRS				
	1/1/2023 To 1/12/2023	Delivered 1/13/2023 Updated one (1) tower per AT&T CRS				

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#### GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

#### GIS KEY ACTIVITIES/UPDATES

GIS Key activities include the events such as GIS deliverables, meetings, agreements, etc.

Date	Key Activities/Updates
1/27/2023	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
1/27/2023	Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.
1/27/2023	Delivered data update for Central Square including Streets, Police Beats, and Address Points (with and without the apartment records).
1/13/2023	HPD TriTech Deliverable: Delivered data update for Central Square including Streets, Police Beats, and Address Points (with and without the apartment records).
1/13/2023	TriTech Deliverable: Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
1/13/2023	MapFlex Civilian Deliverable: Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.

#### GIS FOR 911

As part of ensuring GIS data compatibility with 911 CAD systems, Akimeka removed certain spatial characteristics of street centerlines known as "true curves". True, or geometric, curves are sometimes used in the street centerline layer to depict a road that curves in a circular (or semi-circular) fashion, like a round-about or a cul-de-sac. These features can cause processing issues in CAD and GIS software, and therefore were replaced with a series of points that depict the same geometry without the use of a geometric, or true curve.

### January 1, 2023 - January 31, 2023

#### HONOLULU POLICE DEPARTMENT TRITECH CAD PROJECT

On October 10, 2018, Akimeka participated along with the CAD project team of the Honolulu Police Department on a teleconference GIS kickoff meeting with the TriTech CAD Company. Items that were discussed were GIS requirements for the CAD and RMS systems.

On October 25, 2018, Akimeka's initial delivery of 11 GIS layers to the TriTech FTP site included: Address Points, Airports, Coastline, Fire Response Areas, Medic Response Areas, MSAG Communities, Parks, Police Beats, State Boundary, Streams, and Street Centerlines.

Two spreadsheets describing the layers were also provided on the FTP site.

During the month of July 2022, the Honolulu Police Department (HPD) requested an updated map of the Police Sectors and Police Beats for District 8. The updates for District 8 have been loaded into the CAD as of July 22, 2022.

- 1. District 8 now consists of 4 sectors. Sector 3 was divided in two to create a new Sector 4.
  - Sector 1 includes Beats 850, 852, 854, 856
  - Sector 2 includes Beats 857, 858, 860, 861, 863
  - Sector 3 includes Beats 865, 867, 870, 871, 872
  - Sector 4 includes Beats 874, 875, 876, 877, 878, 879
- 2. The boundaries for the following beats were updated:
  - Beats 850 and 852 was updated to follow the south boundary of Makaha Valley Country Club instead of Noholio Rd and Makaha Valley Rd. Beat 852 takes care of everything north of Noholio Rd up to the south boundary of Makaha Valley Country Club.
  - Beats 857 and 858 was updated to follow Saint Johns Road down to Farrington Highway and to the shoreline of Maili
    Beach Park instead of following Mailiili Stream. Beat 857 takes care of everything west of Saint Johns Road and Beat 858
    takes care of everything east of Saint Johns Road.
  - Beats 861 and 863 was updated to follow Nanakuli Avenue south to Farrington Highway then along the west fence line of Nanakuli Beach Park. Beat 861 takes care of everything west of Nanakuli Ave and Beat 863 takes care of everything east of Nanakuli Ave.
  - Beat 863 was updated to take care of Waimanalo Gulch. Everything east of Waimanalo Gulch up to Palailai Gulch has been assigned to Beat 865.
  - Ka Makana Alii mall in Kapolei has been assigned to Beat 871 instead of Beat 872.
  - Honouliuli Water Treatment has been assigned to Beat 874 instead of Beat 871.
  - Beats 872 and 879 has been updated to follow Kualakai Parkway as their division boundary instead of cutting through the newly developed area that continues to be developed.
  - Beat 874 has been updated to follow Kualakai Parkway instead of the western fence line along the Ewa Villages Golf Course.
  - Beats 877 and 878 has been updated to follow the NAVMAG West Loch fence line instead of cutting through the agriculture area near Iroquois Road.

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#### **MAPFLEX SYSTEM**

Akimeka delivered GIS data to the MapFlex system on the following dates in January 2023.

**Hawaii County** – January 10, 2023, and January 24, 2023 **Maui County** – January 11, 2023, January 25, 2023 **Kauai County** – January 12, 2023, January 26, 2023 **Honolulu** – January 13, 2023, January 27, 2023

#### **MAPFLEX ISSUES**

The MapFlex issues are archived in the 2021 Monthly Status Report. Should the existing issues be addressed, this report will be reopened and tracked.

#### SPEED LIMIT UPDATES

Beginning in April 2017, and now that the Street Centerline data has achieved not only an above 98% synchronization rating but also a high degree of accuracy in the spatial accuracy, a new project to correct speed limits has begun. The project is beginning in Waimanalo and continuing in a counterclockwise patter around the island of Oahu. The initial focus is on Highways, Freeways, and other major roads, but also not limited to additional corrections, especially those which are immediately identified to positively impact vehicle routing, etc.

All updates are shared directly with the PSAPs and the agency most affected (positively) is HFD since they actively use vehicle routing, and this will assist in better CAD unit recommendations. During each GIS deliverable, a list of updates is being provided.

1. No updates received in January 2023.

#### **ROUTING ID UPDATES**

Beginning in July 2019, all Address Points and Points of Interests will be assigned a Routing ID to ensure that routing to these addresses are correct. The project is beginning in Waimanalo and continuing in a counterclockwise pattern around the island of Oahu.

All updates are shared directly with the PSAPs and the agency most affected (positively) is HFD since they actively use vehicle routing, and this will assist in better CAD unit recommendations. During each GIS deliverable, a list of updates is being provided.

1. During the month of January 2023, there were no Routing IDs added. As of January 2023, the Routing ID updates has been completed for all address points and points of interest. Any new address points and points of interest will be assigned a Routing ID.

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#### HONOLULU EMS RESPONSE AREA

During the month of December 2017, EMS requested a high-resolution map of the Honolulu Response Area which will be divided into 5 separate response areas to better support the EMS operations and ambulance response times.

- 1. With HPD's approval, Akimeka prepared a map of the requested area and provided to EMS on December 12, 2017.
- 2. Considering the additional response areas will certainly require the creation of additional ESZ/ESNs; HPD, EMS, and Akimeka will be coordinating so that the project can be mapped out on a timeline so that the changes can take place while maintaining an above 99% synchronization level between GIS, MSAG, and ALI.
- 3. An operational consideration has already begun a discussion, in that the military ESNs will be reallocated to a new numbering so that both civilian and military responses will have enough ESNs to support their individual operations.
- 4. During the first half of 2018, there will be further discussion on the creation of the new Response Areas, allocation of military ESNs, and creation of new ESZs/ESNs.

During the month of October 2019, EMS requested an updated map of the Honolulu Medic Response Area which was divided based on drive time analysis. There are now 21 (twenty-one) Medic Response Areas in Oahu.

During the month of August 2021, EMS requested an updated map of the Honolulu Medic District and Honolulu Medic Response Area which were extended out from the coastline. A Medic District was also added. There are now three (3) Medic Districts.

During the month of January 2022, there was a quarterly update to the Honolulu Medic Response Area.

During the month of May 2022, there was a quarterly update to the Honolulu Medic Response Area.

During the month of November 2022, there was a quarterly update to the Honolulu Medic Response Area.

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#### 4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS - JANUARY 2023

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

#### NOTE:

There are no (0) open service requests for January 2023.

SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2023

Oahu PSAPs				MSAG SERVICE REQUEST CATEGORIES						
2022	TOTAL		•	WIRE	WIRELINE		WIRELESS		VolP	
2023	Created	Closed	Open	Created	Closed	Created	Closed	Created	Closed	
2022 Carryover*			0							
January	0	0	0	0	0	0	0	0	0	
February										
March										
April										
Мау										
June										
July										
August										
September										
October										
November										
December										
TOTAL	0	0	0	0	0	0	0	0	0	

\* The 2022 Carryover row indicates the number of Service Requests that were opened in 2022; however, were brought forward into 2023 in an effort to track the service request until completion.

	Category	Description
	Wireline	Telephone Number (ALI) Discrepancies from land line phones that have been submitted to Intrado via 9-1-1 Net for correction.
<u>Definitions:</u>	Wireless	Telephone Number (ALI) Discrepancies from phones that were land lines at one time, and were ported out to a wireless carrier. However, the phone number was never removed from the MSAG database.
	VoIP	Telephone Number (ALI) Discrepancies from VoIP phones that have been submitted to Time Warner Cable (TWCBL) or other VoIP providers for correction

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#### 5. E9-1-1 OAHU CIVILIAN DATABASE SYNCHRONIZATION

# (<u>Reference:</u> NENA 71-501, Version 1.1 – NENA Information Document for Synchronizing Geographic Information System databases with MSAG & ALI)

The database synchronization process is an essential ongoing and continuous process to ensure the E9-1-1 databases used in the Selective Router (SR), and the Honolulu Police Department (HPD) 9-1-1 GIS layers used for location determination are exactly matched. This process ensures that the 9-1-1 databases and the GIS data remain current, exactly matched, and are synchronized and useful for 9-1-1 purposes. This process also prepares the GIS data for use in Next Generation 9-1-1 (NG911) systems, operations, and applications.

In 9-1-1, Public Safety Agencies (PSAs) are allocated and assigned Emergency Service Zones (ESZs) identified by their respective Emergency Service Numbers. These ESZs and ESNs are maintained by the Primary PSAP for Selective Router (SR) programming use. The entire County Jurisdiction Zone is referred to as an Administrative ESZ. Each PSA is required by Tariff to assign their Response Areas (RAs) based on their operational requirements and assignments within the ESZ. Smaller and more accurate ESZs are created for the geographic areas that have the same PSAs and assigned an Emergency Service Number (ESNs) which are known as a Routing ESNs, or ESNs.

The street names and associated addresses within the ESNs must be translated into a data format that is useful to the SR, the public safety agencies, and their 9-1-1 systems. Translated addresses for 9-1-1 must include the house numbers, street names, street name suffixes, MSAG Communities and are assigned to each of the PSA response areas. These translated addresses are referred to as "valid MSAG addresses" and are applied to both the MSAG and GIS databases. The data must be formatted to traverse throughout 9-1-1 networks & systems. This must also be done for the Public Safety Agencies to ensure there is no loss of data characters or data truncation for their internal and external 9-1-1 systems.

These MSAG street names and MSAG Communities might not be recognized in the County's authoritative addressing Agency and are intended for Public Safety Agency use only. Since neither database is static in nature, the synchronization process will never remain at a 100 percent match rate. It can be expected that the match rate percentage will fluctuate by a small degree each month. As such, NENA's recommended match rate between these critical databases is minimum 98%.

As part of Akimeka's value added services, Akimeka conducts four quarterly, in-depth 9-1-1 Database Synchronization audits per year for the Honolulu Police Department. They are conducted in January, April, July, and October of each Calendar Year (CY) while under contract with Akimeka. The database synchronization process is essential process to ensure the level of accuracy and synchronization of the E9-1-1 databases in preparation for Next Generation 9-1-1 (NG9-1-1) applications.

The results of the **January 31, 2023,** database synchronization audit are reported below.

#### TWO-WAY (2-WAY) COMPARISION – JANUARY 2023

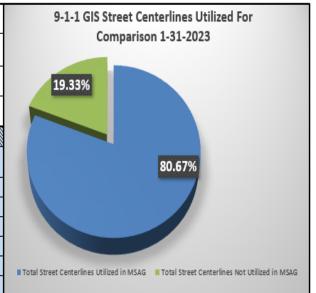
Akimeka's two-way database comparison service provides for comparing the Local Exchange Carriers (LECs) MSAG Database to the Honolulu Police Department's 9-1-1 GIS Street Centerline layer. This ensures the Telephone or VoIP Telephone Company device information is accurate and correct. This information is utilized to route the 9-1-1 call to the PSAP, and the associated location information delivered ALI Datastream is used to dispatch appropriate emergency responders. This also ensures the necessary data elements for 9-1-1 caller location based on street name, MSAG Community, and Emergency Service Numbers (ESNs) are delivered to the PSAP, in the exact format that matches the HPD 9-1-1 GIS layers.

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#### 9-1-1 GIS Street Centerlines Utilized For Comparison

A total number of **10,614** GIS Street Centerline Records are maintained for the Honolulu Police Department's 9-1-1 GIS database by Akimeka. For this comparison, **2,052** GIS street records were excluded as database exemptions. Akimeka excludes GIS Street Centerlines records from the comparison that do not have the possibility of generating a telephone company 9-1-1 wireline call. Those would include roadways that do not have an MSAG address such as, Freeways, Ramps, and alleys. The remaining **8,562** GIS street records called "Valid 9-1-1 GIS Street Centerline records" and are compared against the Valid MSAG Records. The results of the GIS to MSAG Records comparison analysis are provided below:

	As of Janu	As of January 31, 2023		
9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	GIS Update 1-10-2023			
	9-1-1 MSAG Dated 1-01-23			
	# of Records	Exact Match Rate %		
Total 9-1-1 GIS Records Reviewed	10,614			
9-1-1 GIS Records Exempt for Comparison (Subtract 9-1-1 MSAG Exempt and GIS Number 1 Exempt Records)	2,052	19.33%		
Subtotal 9-1-1 GIS Records Eligible for Comparison	8,562	80.67%		
Subtotal 9–1–1 GIS Records Utilized for Comparison	8,562	100.00%		
Total 9-1-1 GIS Records That Do Not Match MSAG Records	11	0.13%		
9-1-1 GIS Records with No Matching MSAG Record	0	0.00%		
Total 9-1-1 GIS Records Requiring Minor Correction	11	100.00%		
Total 9-1-1 GIS Street Centerline Match Rate Percentage	8,551	99.87%		

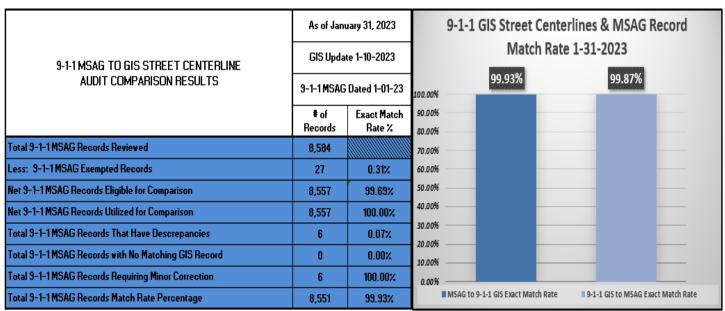


#### 9-1-1 GIS Street Centerline to MSAG Record Comparison

A total of **8,584 9-1-1 MSAG records** are maintained for the Honolulu Police Department's 9-1-1 GIS database by Akimeka. Akimeka removed **27 MSAG records** from the comparison as exemptions. These exemptions are the MSAG Records utilized for wireless 9-1-1 Call routing, 9-1-1 VoIP Call Routing, and 9-1-1 GIS Street Centerline record that are known and approved exemptions such as Freeways or Roadways with no chance of generating a 9-1-1 call. These MSAG Records are known as "Valid MSAG records". The remaining valid MSAG Records are Street Names that have undergone a 9-1-1 Street translation process to ensure they can be utilized in the 9-1-1 system. These translated street names, MSAG Communities, and their assigned Emergency Service Numbers (ESNs) are provided to the telephone company and other 9-1-1 Service Provider for Public Safety Agencies 9-1-1 addressing use. The total number of MSAG records utilized for this comparison audit was **8,557 MSAG records**.

### January 1, 2023 - January 31, 2023

The street name and MSAG Community translation process ensures that the full data characters within the delivered ALI datastream can transverse between the different systems in the 9-1-1 network without loss of data characters. The results of the MSAG comparison analysis are provided below:



NENA Recommended Match Rate = 98%

#### THREE-WAY (3-WAY) COMPARISION - JANUARY 2023

# (<u>Reference:</u> NENA 71-501, Version 1.1 – NENA Information Document for Synchronizing Geographic Information System databases with MSAG & ALI)

The three-way database comparison services compare the Local Exchange Carriers (LECs) Automatic Location Identification (ALI) Database to the HPD's 9-1-1 GIS Site Structure Points layer and the 9-1-1 Road Network (or 9-1-1 Street Centerline) layers.

This process ensures PSAP's internal 9-1-1 equipment (i.e... the Computer Aided Dispatch systems (CADs), Records Management Systems (RMS), Automatic Vehicle Location (AVL) systems, and the Voice Recording Systems) will be able to display an accurate location on their GIS enabled systems. The internal PSAP 9-1-1 equipment will also log-in the delivered location data information as either a civic address or in a Geodetic (Lat/Long) format for 9-1-1 Dispatch and Response. It can be expected that the match rate percentage will fluctuate by a small degree. As such, NENA's recommended minimum exact match rate is 98%.

# January 1, 2023 - January 31, 2023

#### 9-1-1 GIS Street Centerline To ALI Record Attribute Match Rate

The 9-1-1 GIS Street Centerline to ALI records attribute comparison is used to identify the "course location", or main MSAG valid address that will geocode to the street centerline data. Geocoding is the process of assigning a geographic coordinate for a location and converting it to a valid address utilizing the tabular address information to geographic reference information. This is a proactive way to identify any inconsistencies and enhance the accuracy of all associated 9-1-1 databases, and to ensure the proper operation of the PSAP 9-1-1 systems such as Automatic Vehicle Location (AVL). There are seven (7) GIS and ALI Record attributes that are compared for an exact match.

Items from the Databases that will be compared and audited will include these attributes:

- MSAG Community Name
- ESNs
- Street Names
- Street Name Suffix
- Prefix Direction
- Post Direction
- House Number

See chart below:

	As of January	y 31, 2023	9-1-1 GIS Street Centerline To ALI		
9-1-1 Street Centerline to ALI Records AUDIT COMPARISON RESULTS	9-1-1 ALI Records pulle	d Dated 1-10-2023	Record Match Rate 1-31-2023		
ADDIT GOIM ALLOGK RESSETS	# of Records Decrepancies	GIS to ALI Exact Match Rate %	100% 100% 100% 100% 100% 100% 100%		
GIS Street Centerlines to ALI Records Comparison			100%		
Community Name Did Not Match	0	100%	100% - 99.98%		
ESN Did Not Match	0	100%	100%		
Street Name Did Not Match	0	100%	100%		
Street Suffix Did Not Match	0	100%			
Prefix Direction Did Not Match	0	100%	Something results that the state of the stat		
Post Direction Did Not Match	0	100%	aller rate. Stelle rate. Stelle rate. A take to d. take to d. Stella rate.		
House Number Did Not Match	101	99.98%	Onthe 3 2, West, My My		

NENA Recommended Match Rate = 98%

### January 1, 2023 - January 31, 2023

### Total GIS Site/Structure (Address) Points and those with Matching ALI Records

The 9-1-1 Site/Structure Points (Address Points) GIS records with Matching ALI Records comparison identifies the total number of Site/Structure Points (Address Points) that reside within the jurisdiction against the Wireline or VoIP Telephone Company's ALI records. The Honolulu City & County Jurisdiction has approximately 277,794 total Site Structure Points with approximately 87,531 Site Structure Points that have exact matching attributes with the ALI telephone records.

#### See chart below:

	As of January 31, 2023		9-1-1 GIS Site / Structure (Address
9-1-1 ALI RECORDS TO GIS RECORDS AUDIT COMPARISON RESULTS	9-1-1 GIS Records pulled Dated 1-10-2023		Points) to ALI TNs Records 1-31-2023
	# of Records	Exact Match Rate %	
GIS Address Points to ALI Records Comparison			31.51%
9-1-1 GIS Structure Points Reviewed	277,794		
9-1-1 GIS Structure Points With Matching ALI Record	87,531	31.51%	68.49%
9-1-1 GIS Structure Points Without Matching ALI Record	190,263	68.49%	■ Address Points with Matching AU ■ Address Points without Matching ALI

#### 9-1-1 Site/Structure (Address) Points with Exact Matching ALI Records

The **9-1-1 Site/Structure** (Address Points) GIS records with ALI Records comparison represents the total number of Site/Structure (Address Points) GIS records that have exact matching ALI records at that location. The matching 9-1-1 GIS Site Structure (Address) Points with Exact Matching ALI Database comparison is used to identify the "dispatchable Location" that can be utilized to send 9-1-1 responders to locate a 9-1-1 caller's exact location, or at least to the front of the property until a Dispatchable Location can be determined. The objective is to ensure that attributes between the ALI Records and the 9-1-1 Site /Structure Points ae exactly matched and accurate.

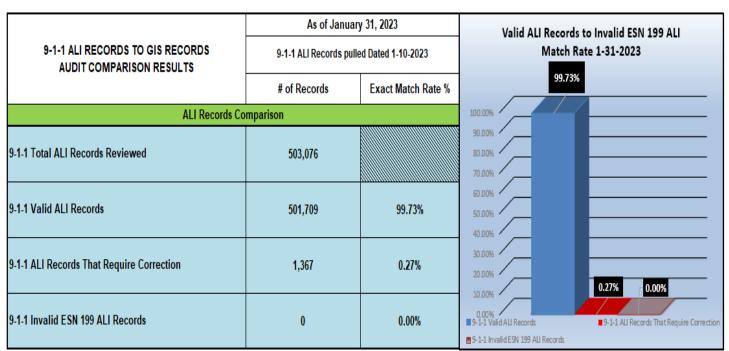
# January 1, 2023 - January 31, 2023

There are a total of **503,076** Automatic Location Identification (ALI) Records with the Wireline Provider. There are **501,709** ALI records that have an exact match with a GIS Site Structure Point. There are a total of **1,367** ALI Records that require reviewed to determine why there is not an exact match. This does not mean the ALI Records and Site Structure Point do not possess sufficient information to affect a 9-1-1 call. It indicates that these records require additional research and update to exactly match the two different database records.

Items from the Databases that will be compared ed during this audit will include these attributes:

- House Number
- House Number Suffix
- Prefix Direction
- Street Name
- Street Name Suffix
- Post Direction
- MSAG Community Name
- Postal Community Name
- ESNs
- Zip Codes

#### See chart below:



NENA Recommended Match Rate = 98%

### January 1, 2023 - January 31, 2023

# INVALID MSAG STREETS AND ADDRESS RANGES – ESN 199 MSAG & ALI RECORDS PROJECT COMPLETED

At the request of the Honolulu Police Department Chief of Police, Hawaiian Telcom, Inc. (HTI) provided Akimeka LLC, with access to the Honolulu City & County ESN 199 MSAG and ALI records. The ESN 199 MSAG Street Records represented and identified all the "known" invalid streets in the MSAG Database and their corresponding ALI Records.

The ESN 199 ALI Records represent all "known" invalid streets telephone device/home or office addresses in the ALI Database that were associated with the known invalid MSAG Street Records. These ALI records were required to be corrected to avoid dispatching 9-1-1 resources to erroneous address/locations.

Akimeka LLC has completed the necessary investigation and required correction of the **339** MSAG Street Records identified at the start of the project. This service was provided without interruption of 9-1-1 service to the owners of the telephone devices while simultaneously producing temporary locations until the records were investigated and corrected accurately.

#### Valid MSAG Records to Invalid ESN 199 MSAG Records

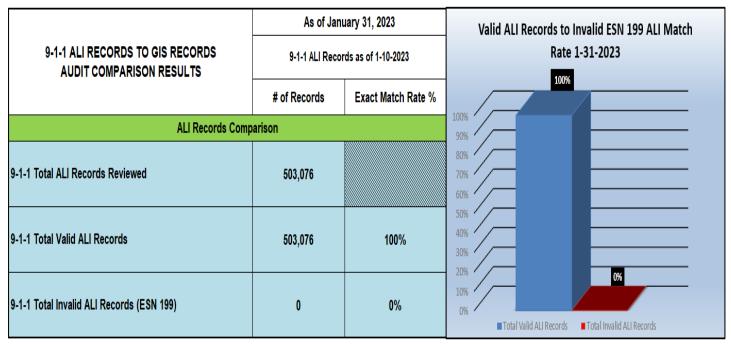
The ESN 199 MSAG Street Records represented the number of invalid MSAG Streets Records in Honolulu City & County that were on file with Hawaiian Telcom and their Database Maintenance Service Provider. The ESN 199 MSAG Records represented invalid MSAG Street Records that still had a valid telephone number that needs to be reassigned to a valid address. Akimeka conducted the research and corrected the MSAG Street Records to a valid location. This may have included moving any or all associated Automatic Location Identification (ALI) Records to an MSAG valid location. There are 0 ESN 199 MSAG Street Records that require attention in Honolulu City & County. Please see the chart below:

9-1-1 MSAG RECORDS TO GIS RECORDS AUDIT COMPARISON RESULTS	As of January 31, 2023 9-1-1 MSAG Records as of 1-1-2023		Valid MSAG Record to Invalid ESN 199 MSAG Records 1-31-2023
	# of Records	Exact Match Rate %	
MSAG Street Records Comparison			100%
9-1-1 Total MSAG Street Records Reviewed	8,584		
9-1-1 Total Valid MSAG Street Records Reviewed	8,584	100%	0%
9-1-1 Total Invalid MSAG Street Records (ESN 199) Reviewed	0	0%	■ Valid MSAG Street Records ■ Invalid MSAG Street Records

# January 1, 2023 - January 31, 2023

#### Valid ALI Records to Invalid ESN 199 ALI Records

The ESN 199 Automatic Location Identification (ALI) Records represent the number of invalid TNs associated with the invalid ESN 199 MSAG Records. There are 0 ESN 199 ALI Records which represent 0.00% of the Total ALI records in Honolulu City & County.



NENA Recommended Match Rate = 98%