

Maui County E9-1-1 Status Report

July 1, 2023 – July 31, 2023



Maui County E9-1-1 Status Report

July 1, 2023 - July 31, 2023

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME MAUI PSAP – JULY 2023

Source: Intrado Viper system

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

9-1-1 Call Volume																	
MAUI PSAP		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	% 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	Other Calls	% of Total Calls
JULY	10,928	809	7.40%	8,919	81.62%	22.40%	77.60%	335	3.07%	11	0.10%	0	0.00%	854	7.81%	0	0.00%

CALL VOLUME MAUI PSAP NOTES:

☒ Calls with No ALI for July 2023 = 0.10% - Statewide average for 2022 = 0.05%

9-1-1 CALL VOLUME MAUI PSAP – CALENDAR YEAR 2023

9-1-1 Call Volume																	
MAUI PSAP		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	% 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	Other Calls	% of Total Calls
JAN	14,122	973	6.89%	11,521	81.58%	21.90%	78.10%	364	2.58%	0	0.00%	0	0.00%	1,264	8.95%	0	0.00%
FEB	12,516	881	7.04%	10,158	81.16%	25.75%	74.25%	344	2.75%	5	0.04%	0	0.00%	1,128	9.01%	0	0.00%
MAR	15,621	971	6.22%	12,929	82.77%	24.19%	75.81%	400	2.56%	0	0.00%	0	0.00%	1,321	8.46%	0	0.00%
APR	14,202	919	6.47%	11,821	83.23%	24.72%	75.28%	289	2.03%	2	0.01%	0	0.00%	1,171	8.25%	0	0.00%
MAY	14,820	894	6.03%	12,392	83.62%	24.40%	75.60%	337	2.27%	7	0.05%	0	0.00%	1,190	8.03%	0	0.00%
JUNE	13,969	795	5.69%	11,705	83.79%	23.55%	76.45%	320	2.29%	18	0.13%	0	0.00%	1,131	8.10%	0	0.00%
JULY	10,928	809	7.40%	8,919	81.62%	22.40%	77.60%	335	3.07%	11	0.10%	0	0.00%	854	7.81%	0	0.00%
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	96,178	6,242		79,445				2,389		43		0		8,059		0	
MON AVG	13,740	892	6.53%	11,349	82.54%	23.85%	76.15%	341	2.51%	6	0.05%	0	0.00%	1,151	8.37%	0.00	0.00%

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9-1-1 CALL VOLUME MOLOKAI PSAP – JULY 2023

Source: Intrado Viper system

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

9-1-1 Call Volume																	
MOLOKAI PSAP		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	% 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	Other Calls	% of Total Calls
JULY	601	135	22.46%	356	59.23%	27.25%	72.75%	8	1.33%	0	0.00%	0	0.00%	102	16.97%	0	0.00%

CALL VOLUME MOLOKAI PSAP NOTES:

✳️ Calls with No ALI for July 2023 = 0.00% - Statewide average for 2022 = 0.05%

9-1-1 CALL VOLUME MOLOKAI PSAP – CALENDAR YEAR 2023

9-1-1 Call Volume																	
MOLOKAI PSAP		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	% 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	Other Calls	% of Total Calls
JAN	923	194	21.02%	468	50.70%	31.41%	68.59%	22	2.38%	1	0.11%	0	0.00%	238	25.79%	0	0.00%
FEB	1017	281	27.63%	443	43.56%	33.63%	66.37%	2	0.20%	0	0.00%	0	0.00%	291	28.61%	0	0.00%
MAR	1091	271	24.84%	489	44.82%	32.92%	67.08%	16	1.47%	0	0.00%	0	0.00%	315	28.87%	0	0.00%
APR	911	218	23.93%	451	49.51%	36.14%	63.86%	3	0.33%	0	0.00%	0	0.00%	239	26.23%	0	0.00%
MAY	1212	234	19.31%	577	47.61%	33.10%	66.90%	7	0.58%	0	0.00%	0	0.00%	394	32.51%	0	0.00%
JUNE	697	117	16.79%	479	68.72%	33.82%	66.18%	3	0.43%	0	0.00%	0	0.00%	98	14.06%	0	0.00%
JULY	601	135	22.46%	356	59.23%	27.25%	72.75%	8	1.33%	0	0.00%	0	0.00%	102	16.97%	0	0.00%
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	6,452	1,450		3,263				61		1		0		1677		0	
MON AVG	922	207	22.28%	466	52.02%	32.61%	67.39%	8.71	0.96%	0	0.02%	0	0.00%	239.57	24.72%	0	0.00%

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9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – JULY 2023

9-1-1 Call Volume																	
MAUI 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	Other Calls	% of Total Calls
JULY	11,529	944	8.19%	9,275	80.45%	22.59%	77.41%	343	2.98%	11	0.10%	0	0.00%	956	8.29%	0	0.00%

9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – CALENDAR YEAR 2023

9-1-1 Call Volume																	
MAUI 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	% 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	Other Calls	% of Total Calls
JAN	15,045	1,167	7.76%	11,989	79.69%	22.27%	77.73%	386	2.57%	1	0.01%	0	0.00%	1,502	9.98%	0	0.00%
FEB	13,533	1,162	8.59%	10,601	78.33%	26.08%	73.92%	346	2.56%	5	0.04%	0	0.00%	1,419	10.49%	0	0.00%
MAR	16,712	1,242	7.43%	13,418	80.29%	24.51%	75.49%	416	2.49%	0	0.00%	0	0.00%	1,636	9.79%	0	0.00%
APR	15,113	1,137	7.52%	12,272	81.20%	25.14%	74.86%	292	1.93%	2	0.01%	0	0.00%	1,410	9.33%	0	0.00%
MAY	16,032	1,128	7.04%	12,969	80.89%	24.79%	75.21%	344	2.15%	7	0.04%	0	0.00%	1,584	9.88%	0	0.00%
JUNE	14,666	912	6.22%	12,184	83.08%	23.96%	76.04%	323	2.20%	18	0.12%	0	0.00%	1,229	8.38%	0	0.00%
JULY	11,529	944	8.19%	9,275	80.45%	22.59%	77.41%	343	2.98%	11	0.10%	0	0.00%	956	8.29%	0	0.00%
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	102,630	7,692		82,708				2,450		44		0		9,736		0	
MON AVG	14,661	1,099	7.53%	11,815	80.56%	24.19%	75.81%	350	2.41%	6	0.05%	0.00	0.00%	1,391	9.45%	0	0.00%

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PSAP OPERATION NOTES:

- 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 included in the Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) 911 calls are combined in the Call Volume statistic.
- A New Class of Service (COS): FIXD** = Wireless 911 calls to the PSAP via fixed indoor antennas.
- 0 (911) call 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).
- 0 (911) call with the COS of WDL1, or WDL2 were added to the Wireless Phase I or Phase II percentage total.

FOR YOUR INFORMATION

FYI.....For Your Information												
PSAP Operations												
Statewide 911 Call Volumes												
PSAP	2022		2021		2020		2019		2018		2017	
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%
RDC Pearl Harbor	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 % 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 – CURRENT MONTH – JULY 2023

TEXT TO 911 Maui County PSAPs 2023		
Month	Received at Maui	Received at Molokai
January	21	6
February	30	0
March	39	2
April	25	1
May	32	1
June	48	6
July	46	0
August		
September		
October		
November		
December		
YTD	241	16
Monthly Avg.	34	2

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.

WIRELESS PSAP TESTING – JULY 2023

MAUI COUNTY - JULY 2023						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:

NOTES:

- There were no (0) scheduled Wireless 911 tests conducted in July 2023 for the Maui and Molokai PSAPs.

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – JULY 2023

MAUI COUNTY	9-1-1 TRANSACTIONS								
	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Submitted		Open ALI Discrepancy Records			Customer Addresses Affected
		2023	DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	
JANUARY	335	330	5	0	0	1,006	0	1	10
FEBRUARY	364	354	9	0	1	1,111	0	0	42
MARCH	253	244	9	0	0	1,181	0	0	28
APRIL	328	323	2	1	2	977	0	0	0
MAY	146	129	11	4	2	899	0	0	28
JUNE	110	108	1	1	0	849	0	0	356
JULY	90	81	9	0	0	796	0	0	450
AUGUST									
SEPTEMBER									
OCTOBER									
NOVEMBER									
DECEMBER									
TOTAL YTD	1,626	1,569	46	6	5	6,819	0	1	914
AVG PER MONTH	232	224	7	1	1	974	0	0	131

Definitions
<p>(A) Dispatchable Location - is defined in the FCC 15-9 Docket as the verified or corroborated street address of the calling party plus additional information such as floor, suite, apartment or similar information that may be needed to adequately identify the location of the calling party. Please see Dispatchable Location Section for more information.</p> <p>(B) Master Street Address Guide - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.</p> <p>(C) Telephone Number Change Request - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 399 attached to them which indicates the need for validation.</p> <p>(D) Automatic Location Information Discrepancy Record - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline OR a VoIP phone. These record corrections are treated with a higher priority and should be processed within 48 hours if wireline, and 72 hours if a VoIP phone, as a general guideline.</p>

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MSAG CURRENT MONTH NOTES:

A total of **90** MSAG transactions were processed in 9-1-1 Net during the current month. Nine (**9**) requests were processed relating to the MSAG database. Changes include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS, and inserting new MSAG records.

There were **450** customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

VSE (formerly Akimeka) submitted eighty-one (**81**) TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 796 Open TN CR Transactions.**
- **Refer to chart in the next section “TNCR Current Status”**

796 Open TN CR transactions are a direct result of the Dispatchable Location Project and are awaiting approval from Hawaiian Telcom, Inc. VSE (formerly 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 VoIP DRs as of July 31, 2023**
- **There are no open ALI DRs as of July 31, 2023**

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – JULY 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)				
County	TOTAL TNCR RECORDS SUBMITTED BY VSE (formerly AKIMEKA)	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS
MAUI	792	0	568	224
MOLOKAI	4	0	4	0
TOTAL	796	0	572	224

STATUS
<u>TOTAL TNCRS SUBMITTED</u> - The total number of TNCR requests for modification that have been submitted in 9-1-1 NET.
<u>PENDING STATUS</u> - 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.
<u>TOTAL UNOPENED TNCR RECORDS STATUS</u> - The request is submitted by VSE (formerly 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 – JULY 2023

NARRATIVE:

During the August 2015 State of Hawaii 911 Board meeting, VSE (formerly 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, VSE (formerly 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), VSE (formerly Akimeka) standardized an additional information data format to proceed with this project. During the month of August 2015, VSE (formerly Akimeka) started a pilot project, entering additional location information to a verified MSAG address with multiple telephone numbers. Specifically, the Queen Kaahumanu Shopping Center at 275 Kaahumanu Ave. 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. Screen shots of the “Before” ALI screen, and the “After” ALI screen with the updated “Dispatchable Location” information visible, were presented to the Dispatch Supervisors. VSE (formerly Akimeka) received positive feedback from the 911 Dispatch Personnel because the information that the 911 Call Takers will receive, will certainly cut down on the process of determining the exact location of the 911 caller. In addition to this, VSE (formerly Akimeka) was informed that the Mobile Dispatch Terminals (MDTs) in the Police Vehicles, also are able to view this “Dispatchable Location” information which will reduce the response times for Public Safety. There were **81** Dispatchable Locations submitted in July 2023 and **50** were processed by Intrado. (see next pages)

Dispatchable Location			
2023	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**
Quarter 3			
Quarter 2 Carryover		19,364	18,668
July	Multi Bus, 1508 Mill St, Wailuku	8	1
	Multi Bus, 1598 Mill St, Wailuku	5	1
	St Anthony Pre School/Catholic Ch, 1627 Mill St, Wailuku	2	0
	Maui Gas Service, 1644 Mill St, Wailuku	2	0
	Wailuku Automotive, 1726 Mill St, Wailuku	1	0
	Ace Printing Co, 1748 Mill St, Wailuku	3	3
	Yoshizawa's Collision, 1760 Mill St, Wailuku	3	3
	Tasty Crust Restaurant, 1770 Mill St, Wailuku	2	0
	Central Automotive/Fileminders, 1790 Mill St, Wailuku	3	2
	Multi Bus, 1816 Mill St, Wailuku	11	5
	Seki's Machine Works, 1844 Mill St, Wailuku	3	0
	Gloss N Glam, 1870 Mill St, Wailuku	1	1
	Ivey Fosbinder/Maui Urology, 1883 Mill St, Wailuku	12	5

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DISPATCHABLE LOCATION – STATUS AS OF – JULY 2023 – CONTINUED

Dispatchable Location			
2023	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**
Quarter 3			
Quarter 2 Carryover		19,364	18,668
July	Clinical Laboratories, 65 Mission St, Wailuku	2	1
	Nitz International Travel, 312 Mohalu St, Wailuku	1	1
	Multi Bus, 2015 Mokuhau Rd, Wailuku	2	2
	Konko Mission of Wailuku, 2267 Mokuhau Rd, Wailuku	1	0
	Hawaii Commercial Foods, 243 Nakila Pl, Wailuku	1	1
	Tropical Innovations, 232 Nakoa Dr, Wailuku	1	1
	Maui Lawn and Landscape, 267 Nakoa Dr, Wailuku	1	0
	Community Clinic of Maui, 1881 Nani St, Wailuku	2	0
	Multi Bus, 189 Naniloa Dr, Wailuku	4	3
	Island Design Center, 386 Naniloa Dr, Wailuku	2	2
	Multi Bus, 251 Napua St, Wailuku	2	1
	Hifusion Media, 352 Nenea St, Wailuku	1	1
	J&D Roofing & Waterproofing, 409 Nihoa St, Wailuku	2	0
	William A Sloper, Attorn at Law, 49 Niolopua Ln, Wailuku	1	0
	Silkwood Properties, 27 Nohoana Pl, Wailuku	1	0
	Towne Realty of Hawaii Inc, 28 Nohoana Pl, Wailuku	1	1
	Fresenius Medical Care, 95 Maui Lani Pkwy, Wailuku	0	10
Maui Master Builders, 633 Luakalae Pl, Wailuku	0	5	
August			
September			
Q3		81	50
Total		19,445	18,718

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

VSE (formerly 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 VSE (formerly Akimeka) has access to these ALI Records, VSE (formerly 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 VSE (formerly 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 Civilian	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%

* Spectrum VoIP Database received on June 21st, 2017

** VSE (formerly Akimeka) provided VoIP Records with Latitude/Longitude coordinates

(A)	VoIP Database records submitted by Spectrum to VSE (formerly Akimeka) for research and MSAG address validation.
(B)	VSE (formally Akimeka) has researched and verified the VoIP record against an MSAG valid address and GIS data. VSE (formerly 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)	Verification Process Completed.

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BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – JULY 2023

VSE (formerly 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 VSE (formerly Akimeka) has access to these ALI Records, VSE (formerly 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.

VSE (formerly Akimeka) will update the chart below as we receive updated ALI records from Bandwidth.

*Bandwidth					
9-1-1 VoIP Database Verification Project *** (Updated)					
PSAP	TOTAL RECORDS SUBMITTED BY BANDWIDTH (A)	TOTAL NO MATCHING RECORDS IDENTIFIED BY VSE (formerly AKIMEKA)	BANDWIDTH FALLOUT RECORDS (B)	NON MATCHING RECORDS CORRECTED BY VSE (formerly AKIMEKA) (C)	PERCENT COMPLETED
WAII County	2,126	97	16	106	93.81%
UAUI County	555	75	3	73	93.59%
AUI County	1,794	60	14	69	93.24%
AHU Civilian	12,898	1,556	44	1,590	99.38%
AHU Military	173	156	11	163	97.60%
TOTAL	17,546	1,944	88	2,001	95.52%

***Bandwidth VoIP Database received on April 5th, 2018**

****Updated Bandwidth VoIP Database received on September 6th, 2018**

***** Updated Bandwidth VoIP Database received on October 1st, 2021**

(A)	VoIP Database records submitted by Bandwidth to VSE (formerly Akimeka) for research and MSAG address validation.
(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)	Verification Process Completed.

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – JULY 2023

MAPPING LAYERS UPDATED (PART I)

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

MAUI COUNTY		
Type of Layer	VSE (formerly Akimeka) GIS Server Date Created/ Edits Performed	Other/Remarks
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	7/26/2023 To 7/31/2023	Next Delivery 8/9/2023
		Added address for three (3) records in Kihei
		Added neighborhood info for two (2) records in Haiku
		Added address for three (3) records in Kahului
		Added address for four (4) records in Haiku
		Spatially corrected eleven (11) records in Kahului
		Corrected routing ID for twenty-one (21) records in Haiku
		Spatially corrected one (1) record in Haiku
	7/12/2023 To 7/25/2023	Delivered 7/26/2023
		Spatially corrected one (1) record in Waikapu
		Added address for four (4) records in Lahaina
		Added address for one (1) record in Waikapu
		Spatially corrected one hundred and eighty-two (182) records in Waikapu
		Added location name for one (1) record in Wailuku
		Added address for one (1) record in Kula
		Added address for one (1) record in Kaunakakai
		Spatially corrected one hundred and eighteen (118) records in Kahului
		Added address for three (3) records in Haiku
		Spatially corrected two (2) records in Lahaina
		Added address for two (2) records in Pukalani
	Spatially corrected ninety-two (92) records in Wailuku	
	7/1/2023 To 7/11/2023	Delivered 7/12/2023
		Updated ESN for one (1) record in Kihei
		Added address for one (1) record in Kihei
		Added address for one (1) record in Kahului
Added location type for one (1) record in Lanai		

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MAPPING LAYERS UPDATED (PART II)

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

MAUI COUNTY		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Airports		
Bridges		
Building Footprints	7/12/2023 To 7/25/2023	Delivered 7/26/2023 Spatially corrected eleven (11) records in Lanai Added building footprint for thirteen (13) records in Lanai
	7/1/2023 To 7/11/2023	Delivered 7/12/2023 Added address for one (1) record in Kahului
		Spatially corrected two (2) records in Paia
		Spatially corrected eighteen (18) records in Kahului
		Spatially corrected fifty-eight (58) records in Lanai
		Added building footprint for twelve (12) records in Paia
		Added building footprint for twenty (20) records in Lanai
		Added building footprint for four (4) records in Kahului
	Bus Stops	
Churches		
Coastal Names		
Coastline		
Common Places		
Correctional Facilities		
Emergency Callboxes		
Emergency Operation Centers		
Emergency Shelters		
ESZ/ESN	7/12/2023 To 7/25/2023	Delivered 7/26/2023
		Corrected police beat for two (2) records

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MAPPING LAYERS UPDATED (PART III)

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

MAUI COUNTY		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
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		
Milepost Markers		
MSAG Communities		
Net Junctions		

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MAPPING LAYERS UPDATED (PART IV)

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

MAUI COUNTY			
Type of Layer	VSE (formerly Akimeka) GIS Server Date Created/ Edits Performed	Other/Remarks	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			
Parks Polygon			
Points of Interest	7/12/2023 To 7/25/2023	<p style="text-align: center;">Delivered 7/26/2023</p> Added POI for two (2) records in Wailuku Spatially corrected one (1) record in Waikapu	
Police Beats	7/12/2023 To 7/25/2023	<p style="text-align: center;">Delivered 7/26/2023</p> Corrected beat name for two (2) records	
Police Districts			
Police Response Areas	7/12/2023 To 7/25/2023	<p style="text-align: center;">Delivered 7/26/2023</p> Corrected beat name for three (3) records	
Police Stations			
Post Offices			
Schools			
Street Centerlines	7/26/2023 To 7/31/2023	<p style="text-align: center;">Next Delivery 8/9/2023</p> Partial spatial correction for four (4) records in Waikapu	
	7/12/2023 To 7/25/2023	<p style="text-align: center;">Delivered 7/26/2023</p> Corrected beat for three hundred and forty-four (344) records in Lanai Corrected police beat for fourteen (14) records in Lanai Partial spatial correction for two (2) records in Waikapu Corrected boundary name for nineteen (19) records in Lanai	
	7/1/2023 To 7/11/2023	<p style="text-align: center;">Delivered 7/12/2023</p> Updated ESN for one (1) record in Kahului	

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MAPPING LAYERS UPDATED (PART V)

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

MAUI COUNTY		
Type of Layer	VSE (formerly Akimeka) GIS Server Date Created/ Edits Performed	Other/Remarks
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Subdivisions	7/12/2023 To 7/25/2023	<p style="text-align: center; margin: 0;">Delivered 7/26/2023</p> <p style="margin: 0;">Added subdivision for one (1) record in Waikapu</p> <p style="margin: 0;">Spatially corrected one (1) record in Waikapu</p>
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		
WSP Cell Sectors	7/12/2023 To 7/25/2023	<p style="text-align: center; margin: 0;">Delivered 7/26/2023</p> <p style="margin: 0;">Added four (4) sectors per Verizon Wireless CRS</p> <p style="margin: 0;">Updated eight (8) sectors per Verizon Wireless CRS</p> <p style="margin: 0;">Added four (4) sectors per AT&T CRS</p>
		<p style="text-align: center; margin: 0;">Delivered 7/12/2023</p> <p style="margin: 0;">Added seventy-eight (78) sectors per Dish Wireless CRS</p> <p style="margin: 0;">Updated six (6) sectors per Dish Wireless CRS</p>
		<p style="text-align: center; margin: 0;">Delivered 7/26/2023</p> <p style="margin: 0;">Added one (1) tower per AT&T CRS</p> <p style="margin: 0;">Updated one (1) tower per Verizon Wireless CRS</p>
	7/1/2023 To 7/11/2023	<p style="text-align: center; margin: 0;">Delivered 7/12/2023</p> <p style="margin: 0;">Updated one (1) tower per Dish Wireless CRS</p>

NOTE:

The Parcels layer is provided by Maui County. VSE (formerly Akimeka) performs edits on the spatial information of the layer for 9-1-1 purposes. Changes to the attribute table are made when needed. The Parcels layer uploaded to the PSAP GIS server is intended for 9-1-1 purposes only and should not be disseminated to other county agencies.

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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
7/26/2023	Delivered .map, .ply, .rte, and .str files for Intergraph CAD 9.4 with updated data which included Address Points, Building Footprints, Cell Towers, Common Places Lookup table, Points Of Interest, Police Beats, Police Response Areas, Street Centerlines, and RMS files.
7/26/2023	Delivered updated data for MapFlex which included Address Points, Building Footprints, ESN, Points of Interest, Police Response Areas, Street Centerlines, Subdivisions, WSP Cell Sectors, and WSP Cell Towers.
7/12/2023	Delivered .map, .ply, .rte, and .str files for Intergraph CAD 9.4 with updated data which included Address Points, Building Footprints, Cell Towers, Common Places Lookup table, Street Centerlines, and RMS files.
7/12/2023	Delivered updated data for MapFlex which included Address Points, Building Footprints, Street Centerlines, WSP Cell Sectors, and WSP Cell Towers.
7/7/2023	Delivered a supplementary data containing civic address fields (CivicNumber, CivicStreet, and PostalCommunity) to Intrado for testing with the SCC application.

GIS FOR 911

As part of ensuring GIS data compatibility with 911 CAD systems, VSE (formerly 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.

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INTERGRAPH CAD UPGRADE

From April through June 2014, the Maui Police Department worked to upgrade their Intergraph CAD system to the more recent 2014 version. Through this upgrade process, new improvements were identified and the overall functionality of the system from the Map Build process to the Production workstation made significant enhancements in order to streamline the deliverables and continue providing accurate data to the PSAP.

1. July 12th, 2023 – Akimeka delivered an updated Intergraph CAD map which included:
 - a. .map, .ply, .rte, and .str
 - b. Address Points, Building Footprints, Common Name Lookup Table, Points Of Interest, Street Centerlines, and WSP Cell Towers.
 - c. RMS files

2. Akimeka delivered an updated Intergraph CAD map July 26th, 2023, which included:
 - a. .map, .ply, .rte, and .str
 - b. Address Points, Building Footprints, Common Name Lookup Table, Points Of Interest, Police Beats, Police Response Areas, Street Centerlines, and WSP Cell Towers
 - c. RMS files

During August 2023, the Intergraph CAD map will continue to be delivered every other week, which has been coordinated with all mapping system updates and synchronizations with other 911 databases.

MOTOROLA PREMIER ONE PROJECT

On Wednesday, February 15, 2023, and Thursday, February 16th, 2023, VSE (formerly Akimeka) participated in the GIS workshop with Motorola GIS staff. VSE will provide the first Motorola CAD GIS deliverable in mid-March, and work with Motorola to make any necessary updates to the schema and data, to ensure a successful implementation.

On Thursday, April 20th, 2023 VSE (formerly Akimeka) delivered GIS data updates for Motorola for the Premiere One CAD implementation.

On Wednesday, May 24, 2023, VSE (formerly Akimeka) met with the Maui Fire Department’s executive staff along with the Maui Police Department Dispatch Director and Supervisor to discuss future growth of new Fire Stations in Maui County. New projected Fire Boundaries maps were provided by VSE (formerly Akimeka) to both agencies for review. Delivered to the Fire Department were also street intersection maps that poses a discrepancy with the Motorola CAD. The Fire Department will determine which jurisdiction they prefer to cover each intersection. VSE (formerly Akimeka) will adjust the maps according as determined by the Maui Fire Department.

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MAPFLEX SYSTEM

VSE (formerly Akimeka) delivered GIS data to the MapFlex system on the following dates in July 2023

Hawaii County – July 11, 2023, and July 25, 2023

Maui County – July 12, 2023, July 26, 2023

Kauai County – July 13, and July 27, 2023

Honolulu – July 14, 2023, and July 28, 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.

MAUI EMS (AMR)

On May 23, 2023, The Maui EMS Director contacted VSE (formerly Akimeka) to discuss new Medic boundaries for Molokai. AMR is planning to add a new Medic Station in Hoolehua in the near future. A projected new boundary map was provided to the AMR director for review.

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MAUI COUNTY PSAPS - JULY 2023

MAUI COUNTY						
#	Date	Ticket #	Description	PSAP	Urgency	Comments
			None			

NOTE:

There are no (0) Open Service Request for the Maui County PSAPs for July 2023.

MAUI PSAP SERVICE REQUESTS YEAR-TO-DATE (YTD) SUMMARY – 2023

2023	MAUI COUNTY			MSAG SERVICE REQUEST CATEGORIES					
	TOTAL		Open	WIRELINE		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2022 Carryover*			0						
January	1	0	1	0	0	0	0	1	0
February	0	1	0	0	0	0	0	0	1
March	0	0	0	0	0	0	0	0	0
April	2	2	0	2	2	0	0	0	0
May	2	2	0	2	2	0	0	0	0
June	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0
August									
September									
October									
November									
December									
TOTAL	5	5	0	4	4	0	0	1	1

Note:

*The 2022 Carry Over 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
Definitions:	Wireline	Telephone Number (ALI) Discrepancies from land line phones that have been submitted to Intrado via 9-1-1 Net for correction.
	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 DATABASE SYNCHRONIZATION

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

Next Scheduled Database Synchronization Report – September 2023

TWO-WAY (2-WAY) COMPARISION – SEPTEMBER 2023 - TBA

THREE-WAY (3-WAY) COMPARISION – SEPTEMBER 2023 - TBA

INVALID MSAG STREETS AND ADDRESS RANGES – ESN 359 & ESN 399 MSAG & ALI RECORDS
PROJECT COMPLETED