September 1, 2024 – September 30, 2024







September 1, 2024 - September 30, 2024

TABLE OF CONTENTS

1. 1	PSAP Operations	5
	9-1-1 Call Volume Maui PSAP – September 2024	5
	Call Volume Maui PSAP Notes:	5
9	9-1-1 Call Volume Maui PSAP – Calendar Year 2024	5
9	9-1-1 Call Volume Molokai PSAP – September 2024	6
	Call Volume Molokai PSAP Notes:	6
(9-1-1 Call Volume Molokai PSAP – Calendar Year 2024	6
(9-1-1 Call Volume (Combined Maui & Molokai PSAPS) – September 2024	7
9	9-1-1 Call Volume (Combined Maui & Molokai PSAPS) – Calendar Year 2024	7
	PSAP Operation Notes:	8
]	For Your Information	8
,	Гехt To 911 – Current Month – September 2024	9
	Note:	9
,	Wireless PSAP Testing – September 2024	9
	Notes:	9
2.]	MSAG (Master Street Address Guide)	10
]	MSAG Transactions Current Month/Year – September 2024	10
	MSAG Current Month Notes:	11
	Telephone Record (ALI) Transactions Current Month Notes:	11
	Open Telephone Record (ALI) Discrepancy Status:	11
,	TNCR (Telephone Number Change Request) Current Status – September 2024	12





September 1, 2024 - September 30, 2024

NOTE:	12
Dispatchable Location – Status As Of – September 2024	13
Narrative:	13
Spectrum (Charter) 9-1-1 VoIP Database Verification Project – September 2024	14
Bandwidth 9-1-1 VoIP Database Verification Project – September 2024	15
3. Geographic Information System (GIS) – September 2024	16
Mapping Layers Updated (Part I)	16
Mapping Layers Updated (Part II)	17
Mapping Layers Updated (Part III)	18
Mapping Layers Updated (Part IV)	19
Mapping Layers Updated (Part V)	20
Mapping Layers Updated (Part VI)	21
Note:	21
Geographic Information System (GIS) Narratives	22
GIS Key Activities/Updates	22
GIS for 911	22
Intergraph CAD Upgrade	23
Motorola Premier One Project	23
MapFlex System	24
MapFlex Issues	24
Maui EMS (AMR)	
4. Service Requests Transactions	25
Open Service Requests – Maui County PSAPS - September 2024	25
Note:	25





September 1, 2024 - September 30, 2024

Maui PSAP Service Requests Year-To-Date (YTD) Summary – 2024	2	25
5. E9-1-1 Database Synchronization	2	26
Two-way (2-way) comparision – September 2024	2	26
Three-way (3-way) comparision – September 2024	2	28
Invalid MSAG Streets and Address Ranges – ESN 359 & ESN 399 MSAG	& ALI Records Project Completed	32





September 1, 2024 - September 30, 2024

1. PSAP OPERATIONS

9-1-1 CALL VOLUME MAUI PSAP - SEPTEMBER 2024

Source: Intrado Viper system

							9-1-	-1 Call V	olume								
MAU	JI PSAP	Wir	eline		Wir	eless		vo	IP	Calls W		Admir	n Calls		doned IIs	Other	Calls
2024	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 Calls with No ALI		No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other Calls	% of Total Calls
SEPT	8,644	517	5.98%	7,243	83.79%	20.36%	79.64%	272	3.15%	6	0.07%	0	0.00%	605	7.00%	1	0.01%

CALL VOLUME MAUI PSAP NOTES:

*Calls with No ALI for September 2024 = 0.07% - Statewide average for 2023 = 0.14%

9-1-1 CALL VOLUME MAUI PSAP – CALENDAR YEAR 2024

							9_1.	-1 Call V	olume								
MAI	UI PSAP	Wir	reline		Wir	eless	<u> </u>	VO		Calls w		Admii	n Calls	Aband Ca	doned	Other	Calls
2024	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		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	8,987	696	7.74%	7,303	81.26%	22.32%	77.68%	317	3.53%	12	0.13%	0	0.00%	658	7.32%	1	0.01%
FEB	7,714	559	7.25%	6,298	81.64%	20.96%	79.04%	308	3.99%	14	0.18%	0	0.00%	535	6.94%	0	0.00%
MAR	8,500	585	6.88%	6,768	79.62%	25.58%	74.42%	326	3.84%	78	0.92%	0	0.00%	742	8.73%	1	0.01%
APR	8,496	581	6.84%	6,962	81.94%	21.10%	78.90%	355	4.18%	13	0.15%	0	0.00%	584	6.87%	1	0.01%
MAY	8,594	581	6.76%	7,054	82.08%	21.19%	78.81%	328	3.82%	15	0.17%	0	0.00%	615	7.16%	1	0.01%
JUNE	8,075	495	6.13%	6,686	82.80%	20.01%	79.99%	329	4.07%	15	0.19%	0	0.00%	549	6.80%	1	0.01%
JULY	8,916	524	5.88%	7,403	83.03%	20.22%	79.78%	375	4.21%	23	0.26%	0	0.00%	586	6.57%	5	0.06%
AUG	8,950	614	6.86%	7,324	81.83%	19.01%	80.99%	387	4.32%	25	0.28%	0	0.00%	600	6.70%	0	0.00%
SEPT	8,644	517	5.98%	7,243	83.79%	20.36%	79.64%	272	3.15%	6	0.07%	0	0.00%	605	7.00%	1	0.01%
ост																	
NOV																	
DEC																	
YTD	76,876	5,152		63,041				2,997		201		0		5,474		11	
MON AVG	8,542	572	6.70%	7,005	82.00%	21.19%	78.81%	333	3.90%	22	0.26%	0	0.00%	608	7.12%	1.22	0.01%





September 1, 2024 - September 30, 2024

9-1-1 CALL VOLUME MOLOKAI PSAP – SEPTEMBER 2024

Source: Intrado Viper system

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

							9-1-	-1 Call V	olume								
_	LOKAI PSAP	Wir	eline		Wir	eless		vo	IP	Calls V		Admir	n Calls	Aband Ca	doned Ills	Other	Calls
2024	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		No. of Calls with No ALI		No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other Calls	% of Total Calls
SEPT	830	140	16.87%	533	64.22%	39.21%	60.79%	8	0.96%	1	0.12%	0	0.00%	148	17.83%	0	0.00%

CALL VOLUME MOLOKAI PSAP NOTES:

Calls with No ALI for September 2024 = 0.12% - Statewide average for 2023 = 0.14%

9-1-1 CALL VOLUME MOLOKAI PSAP – CALENDAR YEAR 2024

							9-1-	1 Call V	olume								
_	LOKAI PSAP	Wir	eline		Wir	eless		vo	IP	Calls w	LI	Admir	n Calls		doned IIs	Other	Calls
2024	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		No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other Calls	% of Total Calls
JAN	748	207	27.67%	390	52.14%	40.77%	59.23%	6	0.80%	0	0.00%	0	0.00%	145	19.39%	0	0.00%
FEB	635	261	41.10%	283	44.57%	43.11%	56.89%	6	0.94%	0	0.00%	0	0.00%	85	13.39%	0	0.00%
MAR	696	209	30.03%	372	53.45%	40.59%	59.41%	10	1.44%	0	0.00%	0	0.00%	105	15.09%	0	0.00%
APR	786	236	30.03%	423	53.82%	38.77%	61.23%	5	0.64%	0	0.00%	0	0.00%	122	15.52%	0	0.00%
MAY	665	184	27.67%	348	52.33%	33.62%	66.38%	8	1.20%	0	0.00%	0	0.00%	125	18.80%	0	0.00%
JUNE	782	143	18.29%	453	57.93%	46.36%	53.64%	2	0.26%	0	0.00%	0	0.00%	184	23.53%	0	0.00%
JULY	576	83	14.41%	407	70.66%	42.75%	57.25%	5	0.87%	0	0.00%	0	0.00%	81	14.06%	0	0.00%
AUG	664	136	20.48%	395	59.49%	38.23%	61.77%	6	0.90%	2	0.30%	0	0.00%	125	18.83%	0	0.00%
SEPT	830	140	16.87%	533	64.22%	39.21%	60.79%	8	0.96%	1	0.12%	0	0.00%	148	17.83%	0	0.00%
ОСТ																	
NOV																	
DEC																	
YTD	6,382	1,599		3,604				56		3		0		1120		0	
MON AVG	709	178	25.17%	400	56.51%	40.38%	59.62%	6.22	0.89%	0	0.05%	0	0.00%	124.44	17.38%	0	0.00%





September 1, 2024 - September 30, 2024

9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – SEPTEMBER 2024

							9-1-	-1 Call V	olume								
_	COUNTY SAPs	Wir	eline		Wir	eless		VOIP	Calls	Calls W		Admir	n Calls	Aband Ca	doned IIs	Other	Calls
2024	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls		% of Wireless WPH2 Calls	No. of VoIP Calls		No. of Calls with No ALI		No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other Calls	% of Total Calls
SEPT	9,474	657	6.93%	7,776	82.08%	21.66%	78.34%	280	2.96%	7	0.07%	0	0.00%	753	7.95%	1	0.01%

9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) - CALENDAR YEAR 2024

							9-1	-1 Call V	olume/								
	COUNTY SAPs	Wir	eline		Wir	eless		VO		Calls w	LI	Admir	n Calls	Aband Ca	doned Ills	Other	Calls
2024	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		No. of Calls with No ALI		No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other Calls	% of Total Calls
JAN	9,735	903	9.28%	7,693	79.02%	23.25%	76.75%	323	3.32%	12	0.12%	0	0.00%	803	8.25%	1	0.01%
FEB	8,349	820	9.82%	6,581	78.82%	21.91%	78.09%	314	3.76%	14	0.17%	0	0.00%	620	7.43%	0	0.00%
MAR	9,196	794	8.63%	7,140	77.64%	26.36%	73.64%	336	3.65%	78	0.85%	0	0.00%	847	9.21%	1	0.01%
APR	9,282	817	8.80%	7,385	79.56%	22.11%	77.89%	360	3.88%	13	0.14%	0	0.00%	706	7.61%	1	0.01%
MAY	9,259	765	8.26%	7,402	79.94%	21.78%	78.22%	336	3.63%	15	0.16%	0	0.00%	740	7.99%	1	0.01%
JUNE	8,857	638	7.20%	7,139	80.60%	21.68%	78.32%	331	3.74%	15	0.17%	0	0.00%	733	8.28%	1	0.01%
JULY	9,492	607	6.39%	7,810	82.28%	21.40%	78.60%	380	4.00%	23	0.24%	0	0.00%	667	7.03%	5	0.05%
AUG	9,614	750	7.80%	7,719	80.29%	19.99%	80.01%	393	4.09%	27	0.28%	0	0.00%	725	7.54%	0	0.00%
SEPT	9,474	657	6.93%	7,776	82.08%	21.66%	78.34%	280	2.96%	7	0.07%	0	0.00%	753	7.95%	1	0.01%
ОСТ																	
NOV																	
DEC																	
YTD	83,258	6,751		66,645				3,053		204		0		6,594		11	
MON AVG	9,251	750	8.13%	7,405	80.03%	22.24%	77.76%	339	3.67%	23	0.25%	0.00	0.00%	733	7.92%	1	0.01%

"Other Calls" (911) call received with the class of service "TSP". HwnTel/Intrado informed for clarification. Received confirmation from Intrado that the class of service for "TSP" is a Telematics call.





September 1, 2024 - September 30, 2024

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 You	r Informat	ion					
				ı	PSAP Opera	itions						
	Statewide 911 Call Volumes											
PSAP	20	23	20	2022 2021 2020 2019 2018								18
Oahu Civilian	988,670	68.33%	971,113	69.45%	1,052,026	68.91%	991,016	71.11%	1,075,726	69.67%	1,034,190	70.62%
RDC Pearl Harbor	36,916	2.55%	31,827	2.28%	39,253	2.58%	37,014	2.66%	37,905	2.45%	37,068	2.53%
Hawaii County	207,715	14.35%	199,811	14.29%	214,220	14.00%	188,329	13.51%	211,611	13.70%	206,648	14.11%
Maui County	152,397	10.54%	140,524	10.05%	160,241	10.51%	125,626	9.01%	157,127	10.18%	133,869	9.14%
Kauai County	61,197	4.23%	54,923	3.93%	60,986	4.00%	51,653	3.71%	61,754	4.00%	52,623	3.60%
Total	1,446,895	100.00%	1,398,198	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%							100.00%	

911 Call Volume % ir	ncrease from 2022 to 2023
Oahu	1.80%
RDC	15.99%
Hawaii	3.95%
Maui	8.44%
Kauai	11.42%
State of Hawaii	8.32%

911 Calls with No ALI 9	% average for 2023
Oahu	0.47%
RDC	0.03%
Hawaii	0.04%
Maui	0.13%
Kauai	0.03%
State of Hawaii average	0.14%

State of Hawaii 2023				
TEXT TO 911				
Oahu Civilian	2,724			
RDC Pearl Harbor	66			
Hawaii County	689			
Maui County	581			
Kauai County	211			
*Total	4,271			

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





September 1, 2024 - September 30, 2024

TEXT TO 911 - CURRENT MONTH - SEPTEMBER 2024

TEXT TO 911 Maui County PSAPs 2024				
Month	Received	Received		
IVIOTICIT	at Maui	at Molokai		
January	38	2		
February	21	1		
March	16	3		
April	32	0		
May	27	1		
June	25	4		
July	32	2		
August	35	0		
September	36	1		
October				
November				
December				
YTD	262	14		
Monthly Avg.	29	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 - SEPTEMBER 2024

	MAUI COUNTY - SEPTEMBER 2024							
Date WSP Sites Sectors Tested By: Test Cor				Comments:				

NOTES:

• There were no (0) scheduled Wireless 911 tests conducted in September 2024 for the Maui and Molokai PSAPs.





September 1, 2024 - September 30, 2024

2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR - SEPTEMBER 2024

	9-1-1 TRANSACTIONS								
MAUI COUNTY	Dispatchable Location Transactions Total Submitted		MSAG ALI Submitted		Open ALI Discrepancy Records			Customer Addresses	
2024		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	Affected
JANUARY	234	229	5	0	0	751	0	0	0
FEBRUARY	79	67	12	0	0	707	0	0	41
MARCH	72	71	1	0	0	872	0	0	6
APRIL	137	132	4	1	0	859	0	0	1
MAY	123	116	7	0	1	934	0	0	0
JUNE	79	68	10	1	0	944	0	0	0
JULY	69	68	1	0	0	820	0	0	0
AUGUST	47	36	11	0	0	767	0	0	43
SEPTEMBER	53	48	4	0*	1	853	0	0	143
OCTOBER									
NOVEMBER									
DECEMBER									
TOTAL YTD	893	835	55	2	2	7,507	0	0	234
AVG PER MONTH	99	93	6	0	0	834	0	0	26

* TNCR Note

V2X submitted 438 transactions that Intrado has not processed in the month of September due to personnel issues

Definitions

- (A) **D**ispatchable **L**ocation 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.
- (B) **M**aster **S**treet **A**ddress **G**uide Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (C) **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 399 attached to them which indicates the need for validation.
- (D) **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 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.





September 1, 2024 - September 30, 2024

MSAG CURRENT MONTH NOTES:

A total of **53** MSAG transactions were processed in 9-1-1 Net during the current month. Four **(4)** 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 143 customer ANI/ALI (telephone number/address) record updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

One (1) ALI DR was submitted as the result of a 9-1-1 call. One (1) call was made from a residential phone in Makawao, Maui.

V2X (formerly Akimeka) submitted forty-eight (48) TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- There are currently 853 Open TN CR Transactions.
- Refer to chart in the next section "TNCR Current Status."

853 Open TN CR transactions are a direct result of the Dispatchable Location Project and are awaiting approval from Hawaiian Telcom, Inc. V2X (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 September 30, 2024
- There are no open ALI DRs as of September 30, 2024





September 1, 2024 - September 30, 2024

TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS - SEPTEMBER 2024

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 V2X FORMERLYAKIMEKA OPENED TNCRS PENDING FURTHER ACTION BY INTRADO BY INTRADO TOTAL TOTA					
MAUI	847	0	409	438		
MOLOKAI	6	0	6	0		
TOTAL	853	0	415	438		

STATUS

TOTAL TNCRs SUBMITTED - The total number of TNCR requests for modification that have been submitted in 9-1-1 NET.

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.

REFERRED STATUS - 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 V2X formerly Akimeka on behalf the PSAP; however, processing by the 9-1-1 Database Service Provider Data Analyst has not begun.





September 1, 2024 - September 30, 2024

DISPATCHABLE LOCATION - STATUS AS OF - SEPTEMBER 2024

NARRATIVE:

During the August 2015 State of Hawaii 911 Board meeting, V2X (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, V2X (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), V2X (formerly Akimeka) standardized an additional information data format to proceed with this project. During the month of August 2015, V2X (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. V2X (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, V2X (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 67 Dispatchable Locations submitted in September 2024 and 4 were processed by Intrado.

Dispatchable Location								
2024	Common Name Place	TNCR*	Transactions					
Quarter 3	MSAG Address	Transactions Submitted	Processed**					
Quarter 2 Carryover		20,862	20,095					
	Mental Health Kokua, 503 Ua Pl, Wailuku	4	0					
	Maui Flavors Catering, 2102 Vineyard St, Wailuku	3	0					
	Multi Bus, 2138 Vineyard St, Wailuku	3	0					
	Cain & Herren Attn, 2141 Vineyard St, Wailuku	4	0					
	Multi Bus, 2171 Vineyard St, Wailuku	8	0					
September	Multi Bus, 2180 Vineyard St, Wailuku	12	0					
	Multi Bus, 2233 Vineyard St, Wailuku	7	1					
	Multi Bus, 105 Waiale Rd, Wailuku	12	0					
	Credit Associates, 1817 Wells St, Wailuku	1	0					
	North Shore Orthopedics, 1827 Wells St, Wailuku	13	0					
	Kamaina Loan, 96 N Market St, Wailuku	0	3					
Q3		171	155					
Total		21,033	20,250					





September 1, 2024 - September 30, 2024

SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT – SEPTEMBER 2024

V2X (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 V2X (formerly Akimeka) has access to these ALI Records, V2X (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 V2X 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 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%	

^{*} Spectrum VoIP Database received on June 21st, 2017

^{**} V2X (formerly Akimeka) provided VoIP Records with Latitude/Longitude coordinates

(A)	VoIP Database records submitted by Spectrum to V2X (formerly Akimeka) for research and MSAG address validation.
	V2X formerly Akimeka has researched and verified the VoIP record against an MSAG valid address and GIS data. V2X formerly Akimeka
(B)	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.





September 1, 2024 - September 30, 2024

BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT - SEPTEMBER 2024

V2X (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 V2X (formerly Akimeka) has access to these ALI Records, V2X (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.

V2X (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 V2X (FORMERLY AKIMEKA)	BANDWIDTH FALLOUT RECORDS (B)	NON MATCHING RECORDS CORRECTED BY V2X (FORMERLY 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%	

^{*}Bandwidth VoIP Database received on April 5th, 2018

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

(A)	VoIP Database records submitted by Bandwidth to V2X formerly Akimeka for research and MSAG address validation.
(R)	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.



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



September 1, 2024 - September 30, 2024

3. GEOGRAPHIC INFORMATION SYSTEM (GIS) - SEPTEMBER 2024

MAPPING LAYERS UPDATED (PART I)

MAUI COUNTY				
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks		
CRITICAI	9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
		Next Delivery 10/2/2024		
		Added address for six (6) records in Lahaina		
		Added address for two (2) records in Kula		
	0/40/0004	Added address for five (5) records in Haiku		
	9/18/2024 To	Added address for one (1) record in Kaunakakai		
	9/30/2024	Added address for one (1) record in Hana		
		Spatially corrected nine (9) records in Lahaina		
		Added address for two (2) records in Hoolehua		
		Added address for one (1) record in Kapalua		
		Spatially corrected one (1) record in Haiku		
		Delivered 9/18/2024		
Address Points		Corrected civic street for two hundred and thirteen (213) records in Waikapu		
		Spatially corrected twenty (20) records in Waikapu		
		Corrected civic street for thirty-four (34) records in Paia		
	0/4/0004	Corrected civic street for twenty-three (23) records in Makawao		
	9/4/2024 To	Added address for three (3) records in Kula		
	9/17/2024	Added address for two (2) records in Haiku		
	6 /11/ 202 1	Corrected civic street for twelve (12) records in Napili		
		Corrected civic street for two (2) records in Kualapuu		
		Added address for five (5) records in Kahului		
		Added address for three (3) records in Kaunakakai		
		Corrected civic street for one hundred and twenty-one (121) records in		
		Lanai		





September 1, 2024 - September 30, 2024

MAPPING LAYERS UPDATED (PART II)

MAUI COUNTY				
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks		
CRITICAI	9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
Address Points	9/4/2024 To 9/17/2024	Corrected civic street for one hundred and sixty-six (166) records in Haiku Corrected civic street for ninety-four (94) records in Kaanapali Added address for ten (10) records in Lahaina Corrected civic street for one hundred and nineteen (119) records in Lahaina Spatially corrected three (3) records in Lahaina Corrected civic street for twenty-one (21) records in Kaunakakai Corrected civic street for one hundred and forty-seven (147) records in Wailea Corrected civic street for six (6) records in Maalaea Corrected civic street for two (2) records in Maunaloa Spatially corrected one (1) record in Kaunakakai Corrected civic street for nineteen (19) records in Pukalani Spatially corrected two (2) records in Kahului Corrected civic street for seventy-nine (79) records in Waiehu Corrected civic street for five thousand, nine hundred and ninety-four (5994) records in Kihei Corrected civic street for one thousand and seventy-four (1074) records in Kahului Corrected civic street for four hundred and forty-three (443) records in Wailuku		
Airports				
Bridges				





September 1, 2024 - September 30, 2024

MAPPING LAYERS UPDATED (PART III)

	MAUI COUNTY					
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks				
CRITICAI	L 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE				
		(Listed Alphabetically)				
		Next Delivery 10/2/2024				
		Spatially corrected three (3) records in Kaunakakai				
	9/18/2024	Added building footprint for twelve (12) records in Kaunakakai				
	То	Added building footprint for twenty-one (21) records in Haiku				
Building Footprints	9/30/2024	Added building footprint for fifty-three (53) records in				
		Added building footprint for sixteen (16) records in Kapalua				
		Spatially corrected four (4) records in Haiku				
	9/4/2024 To	Delivered 9/18/2024				
	9/17/2024	Added building footprint for thirty-one (31) records in Waikapu				
Bus Stops						
Churches						
Coastal Names						
Coastline						
Common Places						
Correctional Facilities						
Emergency Callboxes						
Emergency Operation						
Centers						
Emergency Shelters						
ESZ/ESN						
Fire Beats						
Fire Districts						
Fire Response Areas						
Fire Stations						
Food & Beverage						





September 1, 2024 - September 30, 2024

MAPPING LAYERS UPDATED (PART IV)

		MAUI COUNTY
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks
CRITICAL	L 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
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		
Ocean Rescue Boundaries		
Ocean Safety		
Parcels		
Parks		
Parks Polygon		





September 1, 2024 - September 30, 2024

MAPPING LAYERS UPDATED (PART V)

MAUI COUNTY						
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks				
CRITICAI	2 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE				
		(Listed Alphabetically)				
Points of Interest	9/4/2024 To 9/17/2024	Delivered 9/18/2024 Added POI for one (1) record in Lahaina				
Police Beats		Added to the fall one (2) record in Editalia				
Police Districts						
Police Response Areas						
Police Stations						
Post Offices						
Schools						
	9/18/2024	Next Delivery 10/2/2024				
	To	Modified range for one (1) record in Kapalua				
	9/30/2024	Corrected civic street for one (1) record in Waikapu				
		Delivered 9/18/2024				
		Corrected civic street for twenty-four (24) records in Waikapu				
		Corrected civic street for two (2) records in Paia				
		Corrected civic street for two (2) records in Makawao				
		Modified range for one (1) record in Kahului				
Street Centerlines	9/4/2024	Corrected civic street for two (2) records in Napili				
	To	Corrected civic street for three (3) records in Kualapuu				
	9/17/2024	Added centerline segment for one (1) record in Kaunakakai				
		Corrected civic street for five (5) records in Lanai				
		Corrected civic street for nineteen (19) records in Haiku				
		Corrected civic street for eleven (11) records in Kaanapali				
		Corrected civic street for eighty-five (85) records in Kihei				
		Corrected civic street for twelve (12) records in Lahaina				
		Spatially corrected two (2) records in Lahaina				





September 1, 2024 - September 30, 2024

MAPPING LAYERS UPDATED (PART VI)

The 9-1-1 GIS layers provided by V2X (formerly Akimeka) to the PSAP are designed for use on E9-1-1 and NG9-1-1 systems.

MAUI COUNTY					
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks			
CRITICAI	L 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Street Centerlines	9/4/2024 To 9/17/2024	Spatially corrected, modified range for one (1) record in Lahaina Corrected civic street for four (4) records in Kaunakakai Corrected civic street for fifteen (15) records in Wailea Corrected civic street for five (5) records in Maalaea Corrected civic street for six (6) records in Maunaloa Corrected civic street for two (2) records in Pukalani Corrected civic street for seven (7) records in Waiehu Modified range for one (1) record in Lahaina Corrected civic street for one hundred and twenty-three (123) records in Kahului Corrected civic street for forty-three (43) records in Wailuku			
Subdivisions	9/4/2024 To 9/17/2024	Delivered 9/18/2024 Added subdivision for one (1) record in Lahaina			
Tow Jurisdictions					
Tsunami Evacuation Zones					
Tsunami Heights					
Waste Water Plants					
WSP Cell Sectors					
WSP Cell Towers					

NOTE:

The Parcels layer is provided by Maui County. V2X (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.





September 1, 2024 - September 30, 2024

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
9/4/2024	Delivered AddressPoints, BuildingFootprints, PointsOfInterest, StreetCenterlines, WSP Sectors, WSP Towers for the Intrado MapFlex system.
9/4/2024	StreetCenterlines, WSP Sectors, WSP Towers for the Hexagon CAD system
9/18/2024	Delivered AddressPoints, BuildingFootprints, PointsOfInterest, StreetCenterlines, Subdivisions, WSP Sectors, WSP Towers for the Intrado MapFlex system.
9/18/2024	Delivered AddressPoints, BuildingFootprints, PointsOfInterest, StreetCenterlines, Subdivisions, WSP Sectors, WSP Towers for the Hexagon CAD system

GIS FOR 911

As part of ensuring GIS data compatibility with 911 CAD systems, V2X (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.





September 1, 2024 - September 30, 2024

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. September 4th, 2024 V2X 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. V2X delivered an updated Intergraph CAD map September 18th, 2024, which included:
 - a. .map, .ply, .rte, and .str
 - b. Address Points, Building Footprints, Common Name Lookup Table, Points Of Interest, Street Centerlines, Subdivisions, and WSP Cell Towers
 - c. RMS files

During October 2024, 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, V2X (formerly Akimeka) participated in the GIS workshop with Motorola GIS staff. V2X 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 20^{th} , 2023~V2X (formerly Akimeka) delivered GIS data updates for Motorola for the Premiere One CAD implementation.

On Wednesday, May 24, 2023, V2X (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 my V2X (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. V2X (formerly Akimeka) will adjust the maps according as determined by the Maui Fire Department





September 1, 2024 - September 30, 2024

MAPFLEX SYSTEM

September 2024

V2X (formerly Akimeka) delivered GIS data to the MapFlex system on the following dates in September 2024

Hawaii County – September 3, 2024, and September 17, 2024 Maui County – September 4, 2024, and September 18, 2024 Kauai County – September 5, 2024, and September 19, 2024 Honolulu – September 6, 2024, and September 20, 2024

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 V2X (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.





September 1, 2024 - September 30, 2024

4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS - MAUI COUNTY PSAPS - SEPTEMBER 2024

#	Date	Description	Category	Comments

NOTE:

There are no (0) Open Service Request for the Maui County PSAPs for September 2024.

MAUI PSAP SERVICE REQUESTS YEAR-TO-DATE (YTD) SUMMARY - 2024

MAUI COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2024	ТОТ	ΓAL	0	WIRELINE		WIRELESS		VoIP	
2024	Created	Closed	Open	Created	Closed	Created	Closed	Received	Returned
2023 Carryover*			0						
January	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0
Мау	1	1	0	1	1	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	0	0	0	0	0	0	0	0	0
September	5	5	0	1	1	0	0	4	4
October									
November									
December									
TOTAL	6	6	0	2	2	0	0	4	4
Note:	*The 2023 Carry Over row indicates the number of Service Requests that were opened in 2023; however, were brought forward into 2024 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	Received 911 (ALI) Discrepancies from VoIP providers and returned with a valid MSAG address for 911.





September 1, 2024 - September 30, 2024

5. E9-1-1 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 MPD 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. 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 Emergency Service Zones (ESZs) by the Telephone Company for their 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 V2X (Formally Akimeka LLC's) value added services, V2X conducts four quarterly, in-depth 9-1-1 Database Synchronization audits per year for the Maui Police Department. They are conducted in March, June, September, and December of each Calendar Year while under contract with V2X (Formally Akimeka LLC).

The results of the **September 11, 2024**, database synchronization audits are presented below.

TWO-WAY (2-WAY) COMPARISION – SEPTEMBER 2024

V2X's (Formally Akimeka LLC) two-way database comparison service provides for comparing the Local Exchange Carriers (LECs) MSAG Database to the Maui 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 MPD 9-1-1 GIS layers.



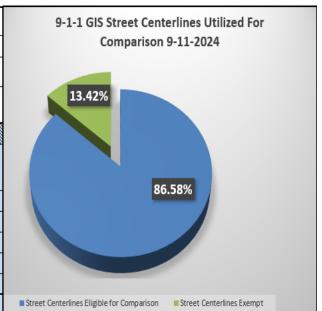


September 1, 2024 - September 30, 2024

9-1-1 GIS Street Centerlines Utilized For Comparison

A total number of **3,747** GIS Street Centerline Records are maintained for the Maui Police Department's 9-1-1 GIS database by V2X (Formally Akimeka LLC). For this comparison, **503** GIS street records were excluded as database exemptions. V2X (Formally Akimeka LLC) 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 **3,244** 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 Sept	ember 7, 2024	9-1-1 GIS Street Co
A 4 4 MANG TO GIR STREET SENTER! WE	GIS Upda	ate 8-30-2024	Comparis
9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	9-1-1 MSAG		
	# of Records	Exact Match Rate %	13.42%
Total 9-1-1 GIS Records Reviewed	3,747		
9-1-1 GIS Records Exempt for Comparison (Subtract 9-1-1 MSAG Exempt and GIS Number 1 Exempt Records)	503	13.42%	
Subtotal 9-1-1 GIS Records Eligible for Comparison	3,244	86.58%	
Subtotal 9-1-1 GIS Records Utilized for Comparison	3,244	100%	
Total 9-1-1 GIS Records That Have Descrepancies	0	0%	
9-1-1 GIS Records with No Matching MSAG Record	0	0%	
Total 9-1-1 GIS Records Requiring Minor Correction	0	0%	
Total 9-1-1 GIS Street Centerline Match Rate Percentage	3,244	100%	Street Centerlines Eligible for Comparis



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

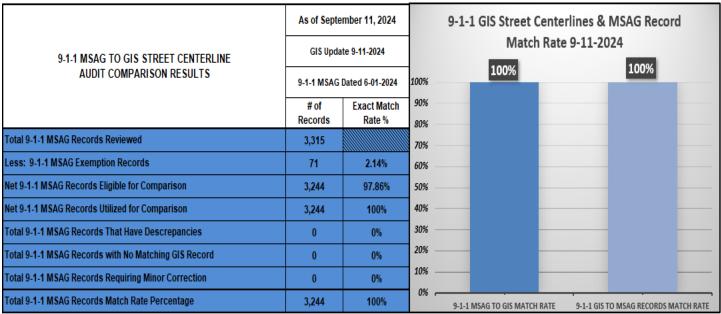
A total of **3,315 9-1-1 MSAG Records** are maintained for the Maui Police Department's 9-1-1 GIS database by V2X (Formally Akimeka LLC). V2X (Formally Akimeka LLC) removed **71** MSAG street records from this comparison as exemptions These exemptions are the MSAG Records utilized for wireless 9-1-1 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". 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 9-1-1 Service Provider for Public Safety Agencies 9-1-1 use. The total number of MSAG records utilized for this comparison audit was **3,244 MSAG Records**.





September 1, 2024 - September 30, 2024

The street name and MSAG Community translation process ensures that the full data characters within the delivered ALI Data Stream 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 - SEPTEMBER 2024

(<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 MPD's 9-1-1 GIS Site Structure Points layer and the 9-1-1 Road Network or 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 match rate is 98%.





September 1, 2024 - September 30, 2024

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 September 11, 2024		9-1-1 GIS Street Centerline To ALI Record				
9-1-1 Street Centerline to ALI Records	9-1-1 ALI Records pulled Dated 9-01-2024						
AUDIT COMPARISON RESULTS	# of Records with Discrepancies	Match %	Match Rate 9-11-2024 100% 100% 100% 100% 100% 100%				
GIS Street Centerlines to AL	l Records Comparison		99%				
Community Name Matched	0	100%	98% — — — — — — — — — — — — — — — — — — —				
ESN Matched	0	100%	96% —				
Street Name Matched	0	100%	94%				
Street Suffix Matched	0	100%	93% — 92% — 9				
Prefix Direction Matched	0	100%	91%				
Post Direction Matched	0	100%	COMMUNITY ESN MATCHED STREET NAME STREET SUFFIX PREFIX POST HOUSE NAME MATCHED MATCHED DIRECTION DIRECTION NUMBER				
House Number Matched	0	100%	- MATCHED MATCHED MATCHED MATCHED				

NENA Recommended Match Rate = 98%





September 1, 2024 - September 30, 2024

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 how many of those Site/Structure Points (Address Points) have been matched against a matching ALI record. The Maui Jurisdiction has approximately **74,394 total Site Structure Points** with approximately **16,713** Site Structure Points that have an exact matching ALI telephone record. The are approximately **57,681** Site Structure Points without an exact matching ALI Record. These locations with a matching ALI record indicate a potential location from which a wireline 9-1-1 call may originate as provided by the Communication Service Provider (CSP).

See chart below:

9-1-1 ALI RECORDS TO GIS RECORDS	As of Septemb 9-1-1 ALI Records pull	-	GIS Site / Structure (Address Points) To
AUDIT COMPARISON RESULTS	# of Records	%	ALI TN Records 9-11-2024
GIS Address Points to ALI I	Records Comparison		
Total Site / Structure (Address) Points Reviewed	74,394		22.47%
Site / Structure (Address) Points With a Matching ALI Record	16,713	22.47%	77.53%
Site / Structure (Address) Points Without a Matching ALI Record	57,681	77.53%	■ Address Points with TNs ■ Address Points with No TNs

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.





September 1, 2024 - September 30, 2024

There are **58,042 total Automatic Location Identification (ALI) Records** with the Wireline Provider. There are **58,017 Valid ALI records** that have an exact match with a GIS Site Structure Point. There are a total of **25 Valid ALI Records** that require reviewed and/or correction to achieve an exact match. This does not mean the Valid ALI Records and Site Structure Point do not possess sufficient information that will impact a 9-1-1 call or its location information. It indicates that these records require additional research and update to exactly match the two different database records. There are zero **0 ESN 359 & ESN 399 Invalid ALI Records** remaining that are in the process of determining a verified valid address. ESN 359 & ESN 399 ALI records are records that the 9-1-1 Database Maintenance Service Provider (DBMSP) could not determine an actual address for the Telephone Company.

Attributes from the two Databases that were compared during this audit include:

- 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:

	As of Septemb	per 11, 2024	9-1-1 ALI Record to GIS Address Point		
9-1-1 ALI RECORDS TO GIS RECORDS AUDIT COMPARISON RESULTS	9-1-1 ALI Records pull	ed Dated 9-01-2024	Match Rate 9-11-2024		
AODII OOMI ANOON NEOCETO	# of Records	Exact Match Rate %	99.96%		
ALI Records Co	mparison		100.00%		
9-1-1 Total ALI Records Reviewed	58,042		90.00% 80.00% 70.00%		
9-1-1 Valid Matching ALI Records	58,017	99.96%	50.00% 50.00% 40.00%		
9-1-1 Valid ALI Records Requiring Correction	25	0.04%	30.00% 20.00% 10.00% 0.00%		
9-1-1 Invalid ESN 359 & 399 ALI Records	0	0.00%	■ 9-1-1 Valid Matching ALI Records ■ 9-1-1 ALI Records Requiring Correction ■ 9-1-1 Invalid ESN 359 & 399 ALI Records		

NENA Recommended Match Rate = 98%





September 1, 2024 - September 30, 2024

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

At the request of the Maui Chief of Police, Hawaiian Telcom, Inc. (HTI) provided V2X (formerly Akimeka) LLC, with access to the Maui County ESN 359 and ESN 399 MSAG and ALI records. The ESN 359 and ESN 399 MSAG Street Records represented the and identified all the "known" invalid streets in the MSAG Database.

The ESN 359 and ESN 399 ALI Records represented the and identified all the "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 ensure no 9-1-1 emergencies were dispatched to erroneous address/locations.

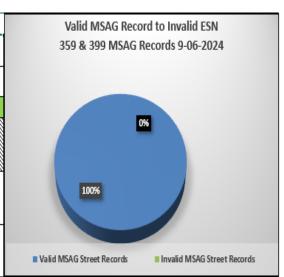
V2X (formerly Akimeka) LLC has completed the necessary investigation and required correction of the **378** MSAG Street Records identified at the start of the project. This service was provided without interruption of 9-1-1 service to the owners of the telephone devices while simultaneously producing temporary locations until the records were investigated and corrected accurately.

Valid MSAG Records to Invalid ESN 359 & ESN 399 MSAG Records

The ESN 359 and ESN 399 MSAG Street Records represented the number of invalid MSAG Streets Records in Maui County that were on file with Hawaiian Telcom and their Database Maintenance Service Provider. The ESN 359 (on Molokai), and ESN 399 MSAG Records represented invalid MSAG Street Records that still had a valid telephone number that needs to be reassigned to a valid address.

V2X (Formally Akimeka LLC) 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 359 and ESN 399 MSAG Street Records that require attention in Maui County. Please see the chart below:

9-1-1 MSAG RECORDS TO GIS RECORDS AUDIT COMPARISON RESULTS	As of September 11, 2024	
	9-1-1 MSAG Records as of 9-03-2024	
	# of Records	Exact Match %
MSAG Street Records Comparison		
9-1-1 Total MSAG Records Reviewed	3,315	
9-1-1 Total Valid MSAG Records Reviewed	3,315	100%
9-1-1 Total Invalid MSAG Records (ESN 359 & 399) Reviewed	0	0%





Page 32 of 32