March 1, 2024 - March 31, 2024







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1. PSAP OPERATIONS

9-1-1 CALL VOLUME - MARCH 2024

(Source :) Intrado Viper system

	9-1-1 Call Volume																
KAUAI PSAP		Wire	eline	Wirele		less	VOIP)IP	Calls With No ALI		Admin Calls		Abandoned Calls		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	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
MAR	3,864	225	5.82%	3,099	80.20%	16.07%	83.93%	150	3.88%	0	0.00%	0	0.00%	390	10.09%	0	0.00%

*911 Calls with No Ali for March 2024 = 0.00% - Statewide average for 2023 = 0.14%

9-1-1 CALL VOLUME - CALENDAR YEAR 2024

	9-1-1 Call Volume																
KAUAI PSAP		Wireline			Wireless		VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		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	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
JAN	3,652	269	7.37%	2,799	76.64%	13.11%	86.89%	205	5.61%	3	0.08%	0	0.00%	376	10.30%	0	0.00%
FEB	3,500	225	6.43%	2,743	78.37%	15.68%	84.32%	153	4.37%	0	0.00%	0	0.00%	378	10.80%	1	0.00%
MAR	3,864	225	5.82%	3,099	80.20%	16.07%	83.93%	150	3.88%	0	0.00%	0	0.00%	390	10.09%	0	0.00%
APR																	
MAY																	
JUNE																	
JULY																	
AUG																	
SEPT																	
ост																	
NOV																	
DEC																	
YTD	11,016	719		8,641				508		3		0		1,144		1	
MON AVG	3,672	240	6.54%	2,880	78.41%	14.95%	85.05%	169	4.62%	1	0.03%	0	0.00%	381	10.40%	0	0.00%

*1 (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.





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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 calltaker answered.
- Abandoned Calls are included in the total Wireline and Wireless counts respectively.
- All VoIP (Voice over Internet Protocol) types of 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.
- x (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).
- 1 (911) call with the COS of WDL1, or WDL2 were added to the Wireless Phase I or Phase II percentage total.

FOR YOUR INFORMATION

	FYIFor Your Information												
PSAP Operations													
	Statewide 911 Call Volumes												
PSAP	PSAP 2023			22	202	2021		2020		2019		2018	
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,									52,623	3.60%			
Total	1,446,895	100.00%	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%	

911 Call Volume % increase 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 91:	1							
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								





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TEXT TO 911 - CURRENT MONTH - MARCH 2024

TEXT TO 911 Kar	uai County 2024
Month	Total received
January	31
February	27
March	20
April	
May	
June	
July	
August	
September	
October	
November	
December	
YTD	78
Monthly Avg.	26.0

NOTE:

• Although there is a "Text to 911" plot on the MapFlex, the location of the plot is not dependable. Text to 911 Dispatchers should use their skills to ascertain the exact location of the emergency response.

WIRELESS PSAP TESTING - MARCH 2024

	KAUAI COUNTY - MARCH 2024											
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:						
3/7/2024	T-Moble			T-Mobile	Pass	LBR (Location Based Routing)						

NOTES:

• There was one (1) scheduled Wireless 911 tests for the month of March 2024.





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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – MARCH 2024

	9-1-1 TRANSACTIONS										
KAUAI COUNTY	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Suk	omitted	Disc	Customer Addresses				
2024		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	Affected		
JANUARY	61	59	2	0	0	488	0	0	12		
FEBRUARY	220	218	1	1	0	571	0	0	0		
MARCH	138	138	0	0*	0	653	0	0	0		
APRIL											
MAY											
JUNE											
JULY											
AUGUST											
SEPTEMBER											
OCTOBER											
NOVEMBER											
DECEMBER											
TOTAL YTD	419	415	3	1	0				12		
AVG PER MONTH	140	138	1	1	0	571	0	0	4		

* TNCR Note

V2X submitted 399 transactions that Intrado has not processed in the month of March 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 499 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.





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MSAG CURRENT MONTH NOTES:

A total of **138** MSAG transactions were processed in 9-1-1 Net during the current month. No requests were processed relating to the MSAG database. Changes can 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 no customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

V2X (formerly Akimeka) processed 138 TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

• There are currently 551 Open TN CRs.

Five hundred and fifty-one (551) Open TN CR transactions are a result of the Dispatchable Location project. 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 currently no Open ALI-DRs as of March 31, 2024
- There are currently no Open VoIP DRs as of March 31, 2024





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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS - MARCH 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)											
PSAP	TOTAL TNCR RECORDS SUBMITTED BY V2X FORMERLY AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS							
KAUAI	653	0	254	399							

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.





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DISPATCHABLE LOCATION - STATUS AS OF - MARCH 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 **Kukui Grove Center at 302600 Kaumualii Hwy, Lihue**. 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. 138 transactions were submitted, and 130 transactions were processed by Intrado in March 2024.

Dispatchable Location								
2024	Common Name Place	TNCR Transactions	Transactions					
Quarter 1	MSAG Address	Submitted	Processed					
2023 Carryover		15,697	14,517					
	Multi Bus, 2829 Ala Kalanikauma, Kakukuiula	26	0					
	Kukui'Ula Development, 2700 Ke Alaula St, Kukuiula	24	0					
	Multi Bus, 4425 Lawai Rd, Kukuiula	12	0					
	Multi Bus, 5017 Lawai Rd, Kukuiula	6	0					
	The Beach House, 5022 Lawai Rd, Kukuiula	11	0					
	Kuhio Shores Condos, 5050 Lawai Rdkukuiula	4	0					
	Prince Kuhio Resort Apts, 5061 Lawai Rd, Kukuiula	2	0					
	Multi Residence, 5160 Lawai Rd, Kukuiula	8	0					
March	Kukui Ula Development, 5166 Lawai Rd, Kukuiula	33	0					
	Whalers Cove Condos, 2640 Puuholo Rd, Kukuiula	11	0					
	Coastline Cottages, 2660 Puuholo Rd, Kukuiula	1	0					
	Oceanic Cable, 3022 Peleke St, Lihue	0	1					
	Multi Bus, 3071 Peleke St, Lihue	0	38					
	Multi Bus, 3759 Ahukini Rd, Lihue	0	18					
	USDA, 3901 Mokulele Loop, Lihue	0	20					
	USDA CTS, 4334 Rice St, Lihue	0	32					
	US Postal Svc, 4489 Papalina Rd, Kalaheo	0	21					
Q1		415	310					
Total		16,112	14,827					





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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - MARCH 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 (A) (A) TOTAL RECORDS MATCHING & RECORDS VERIFIED WITH (B) MATCHING NOT RECORDS CORRECTED BY V2X FORMERLY AKIMEKA (C)									
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.
(B)	V2X formerly Akimeka has researched and verified the VoIP record against an MSAG valid address and GIS data. V2X 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)	Verifcation Process Completed.





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BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT - MARCH 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					
WAII County	2,126	97	16	106	93.81%					
AUAI County	555	75	3	73	93.59%					
AUI County	1,794	60	14	69	93.24%					
AHU Cilivian	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 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



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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MARCH 2024

MAPPING LAYERS UPDATED (PART I)

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.

		KAUAI 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)			
	3/21/2024	Next Delivery 4/4/2024			
	То	Updated location name per KPD for one (1) record in Lihue			
	3/31/2024	Added location name for one (1) record in Waipouli			
		Delivered 3/21/2024			
		Added address for eight (8) records in Kalaheo			
	3/7/2024 To	Spatially corrected one (1) record in Kekaha			
		Updated address for one (1) record in Kekaha			
Address Points		Spatially corrected, added location name for one (1) record in Puhi			
		Added address for one (1) record in Kilauea			
	3/20/2024	Spatially corrected one (1) record in Wailua			
	0,_0,_0_	Added location name for one (1) record in Puhi			
		Added address for one (1) record in Lihue			
		Updated location name per KPD for one (1) record in Wailua			
		Added location name for one (1) record in Waipouli			
		Added address for five (5) records in Wailua			
Airports					
Bridges					
	3/21/2024	Next Delivery 4/4/2024			
Building Footprints	To	Spatially corrected six (6) records in Waipouli			
	3/31/2024	Spatially corrected one (1) record in Kapaa			
Bus Stops					
Churches	3/21/2024 To	Next Delivery 4/4/2024			
	3/31/2024	Added church for one (1) record in Lihue			
Coastal Names					





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MAPPING LAYERS UPDATED (PART II)

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.

	KAUAI 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)					
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	3/7/2024 To 3/20/2024	Delivered 3/21/2024 Added cafe for one (1) record in Lihue Added restaurant for six (6) records in Wailua					
Gas Stations							
Gate Codes							
Government Buildings							
Harbors							
Helipads							
Hiking Trails							
Hospitals							
Hydrants							
Hyrdology Layers							
Incident Response Areas							





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MAPPING LAYERS UPDATED (PART III)

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.

	KAUAI COUNTY						
Type of Layer	V2X formerly Akimeka GIS Server Date Created/ Edits Performed	Other/Remarks					
CRITICAL	2 9-1-1 PUBLIC	SAFETY LAYERS FOR DISPATCH & RESPONSE					
		(Listed Alphabetically)					
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	3/7/2024 To	Delivered 3/21/2024					
Tarks	3/20/2024	Added park for one (1) record in Kalaheo					
Parks Polygon	3/7/2024 To	Delivered 3/21/2024					
Tarks Folygon	3/20/2024	Added park for one (1) record in Kalaheo					
	3/21/2024	Next Delivery 4/4/2024					
	То	Updated POI name for one (1) record in Lihue					
	3/31/2024	Added POI for one (1) record in Waipouli					
Points of Interest	2/7/2224	Delivered 3/21/2024					
	3/7/2024 To	Added address for one (1) record in Kalaheo					
	3/20/2024	Added neighborhood info for twenty-three (23) records in Wailua					
	J, 20, 202 T	Added POI for one (1) record in Waipouli					





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MAPPING LAYERS UPDATED (PART IV)

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.

	KAUAI 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)						
Points of Interest	3/7/2024 To 3/20/2024	Updated POI name for one (1) record in Wailua Added POI for two (2) records in Puhi Added POI for one (1) record in Lihue Added POI for one (1) record in Wailua						
Police Beats		· ·						
Police Districts								
Police Response Areas								
Police Stations								
Post Offices								
Schools								
Street Centerlines								
Subdivisions								
Tow Jurisdictions								
Tsunami Evacuation Zones								
Tsunami Heights								
Waste Water Plants								
WSP Cell Sectors								
WSP Cell Towers								

NOTE:

• The Parcels layer is provided by Kauai 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.





March 1, 2024 - March 31, 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
3/7/2024	Delivered updated data for Spillman which included Address Points, Food and Beverage, Points Of Interest, and Street Centerlines.
3/7/2024	Delivered updated data for MapFlex which included Address Points, Food and Beverage, Points Of Interest, Street Centerlines, WSP Cell Sectors, and WSP Cell Towers.
3/19/2024	Delivered a supplementary data containg civic address fields (CivicNumber, CivicStreet, and PostalCommunity) to Intrado for the upcoming go-live with the SCC application.
3/21/2024	Delivered updated data for Spillman which included Address Points, Food and Beverage, Points Of Interest, and Street Centerlines.
3/21/2024	Delivered updated data for MapFlex which included Address Points, Food and Beverage, Points Of Interest, Street Centerlines, WSP Cell Sectors, and WSP Cell Towers.

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.





March 1, 2024 - March 31, 2024

MEDIC 25

The Kauai PSAP activated a new Medic Station in Lihue. The new medic beat was created in the GIS Medic Beat Boundaries layer and all associated layers that includes the new ESNs (Emergency Service Numbers) were updated accordingly. The new medic beat was also programed into the CAD (Spillman) system to update the unit recommendation function. The 2 new ESNs 454 and 455 were also updated in 911Net for MSAG updates. ESN 454 required 89 MSAG transactions which affected 4,015 customers and, ESN 455 required 12 transactions which affected 209 customers.

SPILLMAN PROJECT

The Kauai County Spillman project is considered consistent and has not had any significant issues reported.

MAPFLEX SYSTEM

March 2024

VSE (formerly Akimeka) delivered GIS data to the MapFlex system on the following dates in March 2024.

Hawaii County – March 5, 2024, and March 19, 2024 Maui County – March 6, 2024, and March 20, 2024 Kauai County – March 7, 2024, and March 21, 2024 Honolulu – March 8, 2024, and March 22, 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.





March 1, 2024 - March 31, 2024

4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MARCH 2024

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

There are no (0) open service requests for March 2024.

SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2024

KAUAI COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2024	TOTAL	TAL		WIRELINE		WIRELESS		VoIP	
2024	Created	Closed	Open	Created Close	Closed	Created	Closed	Created	Closed
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									
Мау									
June									
July									
August									
September									
October		_							
November									
December									
TOTAL	0	0	0	0	0	0	0	0	0

* The 2023 Carryover 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	Telephone Number (ALI) Discrepancies from VoIP phones that have been submitted to Time Warner Cable (TWCBL) or other VoIP providers for correction





March 1, 2024 - March 31, 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 Kauai Police Department (KPD) 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 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 (Formerly Akimeka)'s value added services, V2X (Formerly Akimeka) conducts four quarterly, in-depth 9-1-1 Database Synchronization audits per year for the Kauai Police Department. They are conducted in March, June, September, and December of each Calendar Year while under contract with V2X (Formerly Akimeka).

The results of the March 30, 2024, database synchronization audits are presented below.

TWO-WAY (2-WAY) COMPARISION- MARCH 2024

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





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9-1-1 GIS Street Centerlines Utilized For Comparison

A total number of **1,699** GIS Street Centerline Records are maintained for the Kauai Police Department's 9-1-1 GIS database by V2X (formerly Akimeka). For this comparison, **330** GIS street records were excluded as database exemptions. V2X (formerly Akimeka) excludes GIS Street Centerlines records from the comparison that do not have the possibility of generating a telephone company 9-1-1 wireline call. Those would include roadways that do not have an MSAG address such as, Freeways, Ramps, and alleys. The remaining **1,369** 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 Ma	rch 30, 2024	9-1-1 GIS Street Centerlines Utilized For Comparison 3-30-2024			
9-1-1 MSAG TO GIS STREET CENTERLINE	GIS Upda	te 2-29-2024				
AUDIT COMPARISON RESULTS	9-1-1 MSA(6 Dated 3-01-24				
	# of Records	Match %	19.42%			
Total 9-1-1 GIS Records Reviewed	1,699					
9-1-1 GIS Records Exempt for Comparison (Subtract 9-1-1 MSAG Exempt and GIS number 1 Exempt)	330	19.42%				
Subtotal 9-1-1 GIS Records Eligible for Comparison	1,369	80.58%	80.58%			
Subtotal 9-1-1 GIS Records Utilized for Comparison	1,369	100%				
Total 9-1-1 GIS Records That Do Not Match MSAG Records	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	1,369	100.00%	■ Street Centerlines Eligible for Comparison ■ Street Centerlines Exempt			



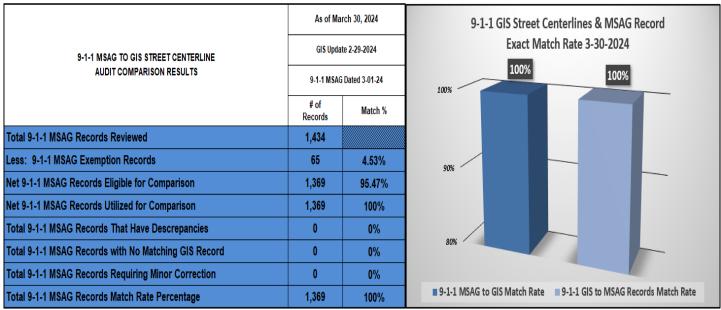
A total of **1,434 9-1-1 MSAG records** are maintained for the Kauai Police Department's 9-1-1 GIS database by V2X (formerly Akimeka). V2X (formerly Akimeka) removed **65 MSAG records** from the comparison as exemptions. These exemptions are the MSAG Records utilized for wireless 9-1-1 Call routing, 9-1-1 VoIP Call Routing, and 9-1-1 GIS Street Centerline record that are known and approved exemptions such as Freeways or Roadways with no chance of generating a 9-1-1 call. These MSAG Records are known as "Valid MSAG records". The remaining valid MSAG Records are Street Names that have undergone a 9-1-1 Street translation process to ensure they can be utilized in the 9-1-1 system. These translated street names, MSAG Communities, and their assigned Emergency Service Numbers (ESNs) are provided to the telephone company and other 9-1-1 Service Provider for Public Safety Agencies 9-1-1 addressing use. The total number of MSAG records utilized for this comparison audit was **1,369 MSAG records**.





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



NENA Recommended Match Rate = 98%

THREE-WAY (3-WAY) COMPARISION - MARCH 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 KPD's 9-1-1 GIS Site Structure Points layer and the 9-1-1 Road Network (or 9-1-1 Street Centerline) layers.

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





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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:



NENA Recommended Match Rate = 98%



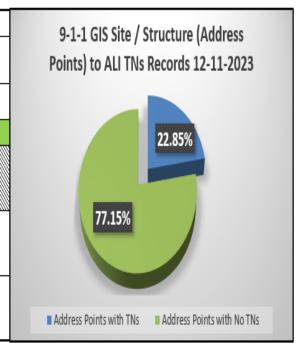


March 1, 2024 - March 31, 2024

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 the Wireline or VoIP Telephone Company's ALI records. The Kauai County Jurisdiction has approximately 32,651 total Site Structure Points with approximately **7,461 Site Structure Points** that have exact matching ALI telephone records. See chart below:

	As of March	30, 2024	9-1-1 GIS Site / Structure (Points) to ALI TNs Records 1	
9-1-1 ALI RECORDS TO GIS RECORDS AUDIT COMPARISON RESULTS	9-1-1 GIS Structure Point Re	ecords pulled 3-01-2024		
	# of Records	Match Rate %		
GIS Structure Points to ALI	22.85%			
9-1-1 GIS Address Points Reviewed	32,651			
9-1-1 GIS Address Points With a Matching ALI Record	7,461	22.85%	77.15%	
9-1-1 GIS Address Points Without a Matching ALI Record	25,190	77.15%	■ Address Points with TNs ■ Address Po	



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.





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There are 18,838 total Automatic Location Identification (ALI) Records with the Wireline Provider. There are 18,834 Valid ALI records that have an exact match with a GIS Site Structure Point. There are a total of 4 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. It indicates that these records require additional research and update to exactly match the two different database records. The are 0 ESN 499 Invalid ALI Records remaining that are in the process of determining a verified valid address. ESN 499 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 March	n 30, 202 4	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 3-01-2024	Match Rate 3-30-2024	
	# of Records	Exact Match Rate %	99.98%	
ALI Records Co	100.00%			
9-1-1 Total ALI Records Reviewed	18,838		80.00% 70.00% 60.00%	
9-1-1 Valid Matching ALI Records	18,834	99.98%	50.00% 40.00% 30.00%	
9-1-1 Valid ALI Records Requiring Correction	4	0.02%	0.02% 0% 0.00%	
9-1-1 Invalid ESN 499 ALI Records	0	0.00%	■9-1-1 Valid Matching ALI Records ■9-1-1 ALI Records Requiring Correction ■9-1-1 Invalid ESN 499 ALI Records	

NENA Recommended Match Rate = 98%





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INVALID MSAG STREETS AND ADDRESS RANGES – ESN 499 MSAG & ALI RECORDS PROJECT COMPLETED

At the request of the Kauai County Chief of Police, Hawaiian Telcom, Inc. (HTI) provided V2X (formerly Akimeka), with access to the Kauai County ESN 499 MSAG and ALI records. The ESN 499 MSAG Street Records represented and identified all the "known" invalid streets in the MSAG Database.

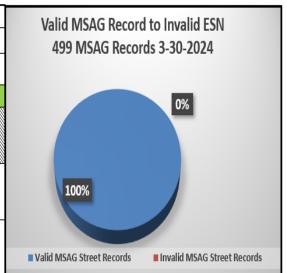
The ESN 499 ALI Records represent all "known" invalid streets telephone device/home or office addresses in the ALI Database that were associated with the known invalid MSAG Street Records. These ALI records were required to be corrected to avoid dispatching 9-1-1 resources to erroneous address/locations.

V2X (formerly Akimeka) has completed the necessary investigation and required correction of the 147 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 499 MSAG Records

The ESN 499 MSAG Street Records represented the number of invalid MSAG Streets Records in Kauai County that were on file with Hawaiian Telcom and their Database Maintenance Service Provider. The ESN 499 MSAG Records represented invalid MSAG Street Records that still had a valid telephone number that needs to be reassigned to a valid address. V2X (formerly Akimeka) conducted the research and corrected the MSAG Street Records to a valid location. This may have included moving any or all associated Automatic Location Identification (ALI) Records to an MSAG valid location. There are 0 ESN 499 MSAG Street Records that require attention in Kauai County. Please see the chart below:

	As of March 30, 2024			
9-1-1 MSAG RECORDS TO GIS RECORDS	9-1-1 MSAG Records as of 3-01-2024			
AUDIT COMPARISON RESULTS	# of Records	%		
MSAG Street Records Comparison				
9-1-1 Total MSAG Records Reviewed	1,434			
9-1-1 Total Valid MSAG Records Reviewed	1,434	100%		
9-1-1 Total Invalid MSAG Records (ESN 499) Reviewed	0	0%		



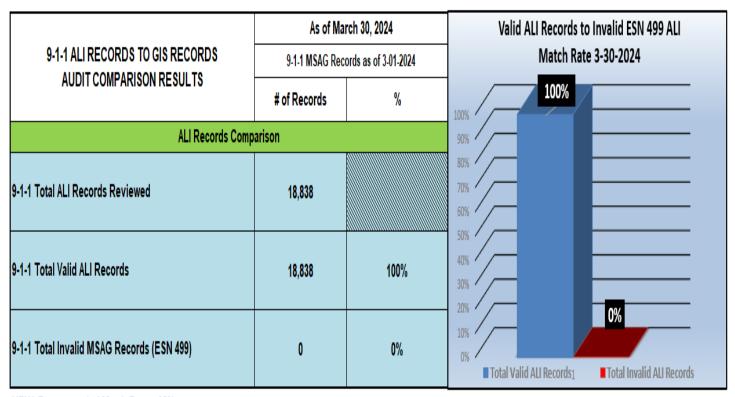




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Valid ALI Records to Invalid ESN 499 ALI Records

The ESN 499 Automatic Location Identification (ALI) Records represent the number of invalid TNs associated with the invalid ESN 499 MSAG Records. There are Zero (0) ESN 499 ALI Records which represent 0.00% of the Total ALI records in Kauai County. V2X (formerly Akimeka) has completed this project.



NENA Recommended Match Rate = 98%

