

Oahu Civilian E9-1-1

Status Report

December 1, 2023 – December 31, 2023



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1. PSAP OPERATIONS

9-1-1 CALL VOLUME CIVILIAN PSAPS – DECEMBER 2023

Source: Intrado Viper system

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

9-1-1 Primary PSAP Call Volume																	
Honolulu City & County PSAPs		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2023	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Other Calls	% of Total Calls
December	83,501	10,596	12.69%	68,371	81.88%	14.94%	66.94%	3,081	3.69%	1,453	1.74%	1,807	2.16%	12,128	14.52%	1,021	1.22%

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

9-1-1 Primary PSAP Call Volume																	
Honolulu City & County PSAPs		Wireline		Wireless				VOIP Calls		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2023	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Total Call Received	% of Total Calls
JAN	84,014	11,930	14.20%	69,345	82.54%	16.53%	66.01%	2,688	3.20%	50	0.06%	1,601	1.91%	12,888	15.34%	987	1.17%
FEB	77,214	11,242	14.56%	63,323	82.01%	16.91%	65.10%	2,641	3.42%	8	0.01%	1,484	1.92%	12,058	15.62%	970	1.26%
MAR	87,551	13,387	15.29%	71,407	81.56%	16.98%	64.58%	2,749	3.14%	9	0.01%	1,586	1.81%	13,201	15.08%	1,015	1.16%
APR	85,169	11,327	13.30%	71,227	83.63%	17.51%	66.12%	2,606	3.06%	9	0.01%	1,573	1.85%	13,362	15.69%	992	1.16%
MAY	87,967	11,612	13.20%	73,470	83.52%	17.04%	66.48%	2,868	3.26%	18	0.02%	1,539	1.75%	13,852	15.75%	984	1.12%
JUNE	83,712	10,790	12.89%	70,000	83.62%	16.88%	66.74%	2,913	3.48%	8	0.01%	1,495	1.79%	12,889	15.40%	944	1.13%
JULY	80,974	11,361	14.03%	66,731	82.41%	15.58%	66.83%	2,883	3.56%	0	0.00%	1,634	2.02%	11,998	14.82%	967	1.19%
AUG	81,108	11,607	14.31%	66,541	82.04%	14.93%	67.11%	2,952	3.64%	8	0.01%	1,742	2.15%	9,750	12.02%	963	1.19%
SEPT	77,302	10,683	13.82%	63,233	81.80%	15.27%	66.53%	2,721	3.52%	665	0.86%	1,731	2.24%	9,659	12.50%	992	1.19%
OCT	81,147	10,444	12.87%	66,468	81.91%	14.84%	67.07%	2,856	3.52%	1,379	1.70%	1,925	2.37%	11,357	14.00%	952	1.17%
NOV	79,011	48,489	61.37%	28,341	35.87%	6.53%	29.34%	1,256	1.59%	917	1.16%	1,513	1.91%	10,938	13.84%	1,058	1.34%
DEC	83,501	10,596	12.69%	68,371	81.88%	14.94%	66.94%	3,081	3.69%	1,453	1.74%	1,807	2.16%	12,128	14.52%	1,021	1.22%
YTD	988,670	173,468		778,457				32,214		4,524		19,630		144,080		11,845	
MON AVG	82,389	14,456	17.71%	64,871	78.57%	15.33%	63.24%	2,685	3.26%	377	0.47%	1,636	1.99%	12,007	14.55%	987	1.19%

NOTE:

- **911 Calls with No ALI for December 2023 = 1.74% - Statewide average for 2023 = 0.14%**
- **Total call volumes do not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.**
- **Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.**
- **Abandoned Calls are **not** included in the Wireline and Wireless total counts respectively.**
- **All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.**

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9-1-1 CALL VOLUME BY AGENCY – DECEMBER 2023

2023	9-1-1 Call Volume by Agency									
	Honolulu Police Department						Honolulu Fire Department			
	No. of Total Calls Received	% of Total Calls	Number of Emergency Calls	Number of Non Emergency Calls	Number of Admin Calls	Number of Dropped Calls	No. of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls
December	69,988	83.82%	15,601	40,694	1,565	12,128	2,988	3.58%	96	51

2023	9-1-1 Call Volume by Agency							
	Emergency Medical Services				Ocean Safety			
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls
December	9,454	11.32%	98	215	50	0.06%	48	0

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

2023	9-1-1 Call Volume by Agency																	
	Honolulu Police Department						Honolulu Fire Department				Emergency Medical Services				Ocean Safety			
	Number of Total Calls Received	% of Total Calls	No. of Emergency Calls	No. of Non Emergency Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls
JAN	70,996	84.50%	19,189	37,552	1,367	12,888	2,997	3.57%	112	36	8,970	10.68%	67	123	64	0.08%	55	0
FEB	65,766	85.17%	18,339	34,085	1,284	12,058	2,527	3.27%	122	28	7,910	10.24%	43	102	41	0.05%	35	0
MAR	74,289	84.85%	21,545	38,167	1,376	13,201	2,853	3.26%	106	46	9,341	10.67%	60	108	53	0.06%	44	0
APR	72,368	84.97%	21,154	36,503	1,349	13,362	2,757	3.24%	135	71	9,020	10.59%	62	116	32	0.04%	27	0
MAY	75,704	86.06%	21,841	38,670	1,341	13,852	2,520	2.86%	103	37	8,714	9.91%	53	120	45	0.05%	42	0
JUNE	71,632	85.57%	21,298	36,184	1,261	12,889	2,798	3.34%	125	38	8,294	9.91%	67	70	44	0.05%	42	0
JULY	68,576	84.69%	17,734	37,426	1,418	11,998	2,577	3.18%	121	31	8,828	10.90%	72	94	26	0.03%	23	0
AUG	66,290	81.73%	16,595	38,477	1,468	9,750	4,946	6.10%	155	70	8,858	10.92%	71	111	51	0.06%	48	0
SEPT	64,060	82.87%	16,032	36,804	1,565	9,659	3,439	4.45%	124	50	8,849	11.45%	11	138	32	0.04%	31	0
OCT	67,241	82.86%	15,646	38,729	1,509	11,357	3,853	4.75%	122	42	9,050	11.15%	246	245	51	0.06%	48	0
NOV	65,375	82.74%	15,221	37,934	1,282	10,938	3,675	4.65%	112	45	8,862	11.22%	80	167	41	0.05%	39	0
DEC	69,988	83.82%	15,601	40,694	1,565	12,128	2,988	3.58%	96	51	9,454	11.32%	98	215	50	0.06%	48	0
YTD	832,285		220,195	451,225	16,785	144,080	37,930		1,433	545	106,150		930	1,609	530		482	0
MON AVG	69,357	84.15%	18,350	37,602	1,399	12,007	3,161	3.85%	119	45	8,846	10.75%	78	134	44	0.05%	40	0

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PSAP OPERATION NOTES:

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

FOR YOUR INFORMATION

FYI.....For Your Information												
PSAP Operations												
Statewide 911 Call Volumes												
PSAP	2023		2022		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%	52,623	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 % 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	

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TEXT TO 911 OAHU CIVILIAN PSAPS – CURRENT MONTH – DECEMBER 2023

TEXT TO 911 Oahu Civilian PSAPs 2023						
Month	Total	HPD	HFD	EMS	OS	911 (handled)
January	274	204	1	4	0	65
February	239	167	2	0	0	70
March	238	193	1	7	0	37
April	322	238	2	0	0	82
May	161	136	1	2	0	22
June	138	98	2	2	0	36
July	223	153	5	2	0	63
August	314	198	5	6	0	105
September	223	172	1	3	0	47
October	213	134	1	3	0	75
November	172	124	0	5	0	43
December	207	175	3	4	0	25
YTD	2,724	1,992	24	38	0	670
Monthly Avg.	227.0	166.0	2.0	3.2	0.0	55.8

NOTE:

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

911 WIRELESS OAHU CIVILIAN PSAP TESTING – DECEMBER 2023

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

NOTES:

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

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2. MSAG (MASTER STREET ADDRESS GUIDE)

OAHU CIVILIAN MSAG TRANSACTIONS CURRENT MONTH/YEAR – DECEMBER 2023

OAHU CIVILIAN	9-1-1 TRANSACTIONS								
	Total	MSAG	ALI Submitted			Open ALI Discrepancy Records			Customer Addresses Affected
2023		MSAG (A)	TN CR (B)	ALI DR (C)	VoIP (D)	TNCR	ALI DR	VoIP DR	
JANUARY	580	9	571	0	0	4,112	0	0	422
FEBRUARY	443	22	421	0	0	3,900	0	0	1,713
MARCH	201	7	194	0	0	3,825	0	0	1,337
APRIL	435	3	432	0	0	3,849	0	0	0
MAY	352	28	324	0	0	3,784	0	0	3,548
JUNE	408	9	399	0	0	3,749	0	0	767
JULY	426	36	389	1	0	3,692	0	0	2,194
AUGUST	344	20	324	0	0	3,719	0	0	1,325
SEPTEMBER	323	7	316	0	0	3,861	0	0	988
OCTOBER	513	3	510	0	0	3,759	0	0	208
NOVEMBER	344	4	340	0	0	3,720	0	0	418
DECEMBER	265	0	265	0	0	3,565	0	0	0
TOTAL YTD	4,634	148	4,485	1	0				12,920
AVG PER MONTH	386	12	374	0	0				1,077

Definitions

- (A) **Master Street Address Guide** - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (B) **Telephone Number Change Request** - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 199 attached to them which indicates the need for validation.
- (C) **Automatic Location Information Discrepancy Record** - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
- (D) **Voice over Internet Protocol Discrepancy Record** - Represents an address discrepancy discovered during a live 9-1-1 call, from a VoIP phone. These record corrections are treated with a higher priority and should be processed within 72 hours as a general guideline per Time Warner Operations Center. MSR tracking effective April 2014.

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OAHU CIVILIAN MSAG CURRENT MONTH NOTES:

A total of **265** MSAG transactions were processed in 9-1-1 Net during the current reporting month. No requests were processed relating to the MSAG database which include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS, and Military response areas, and inserting new MSAG records.

There were **no** customer ANI/ALI (telephone/address) records updated as a direct result.

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

VSE (formerly Akimeka) processed two hundred and sixty-five (**265**) TN CRs related to the Dispatchable Location Project during the current month.

OAHU CIVILIAN OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 3,565 Open TN CRs.**

3,565 Open TN CR transactions are a result of the Dispatchable Location project. VSE (formerly Akimeka) continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to Intrado for correction, it must be verified against HT records and/or approved by the customer. Intrado's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

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

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – DECEMBER 2023

NOTE:

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

PSAP 9-1-1 Telephone Number Location Change Request (Telephone Number Change Request (TNCR) Status)				
PSAP	TOTAL TNCR RECORDS SUBMITTED BY VSE (formerly AKIMEKA)	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS
OAHU CIVILIAN	3,565	0	3,393	172

STATUS
TOTAL TNCRs SUBMITTED - The total number of TNCR requests for modification that have been submitted in 9-1-1
PENDING STATUS - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.
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 VSE (formerly Akimeka) on behalf the PSAP; however, processing by the 9-1-1 Database Service Provider Data Analyst has not begun.

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DISPATCHABLE LOCATION – STATUS AS OF – DECEMBER 2023

NARRATIVE:

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

The “Dispatchable Location” data is entered into the “Driving Directions” field in the 9-1-1 Net system and will display on the Viper Power 911 ALI Screen in the “Exact” field should a 911 call be received from that telephone number. The Windward Mall will be the pilot location starting in May 2018. There were 172 transactions submitted and 263 processed in December 2023. (see next pages)

Dispatchable Location			
2023	Common Name Place MSAG Address	TNCR*	Transactions
Quarter 4		Transactions Submitted	Processed**
Quarter 3 Carryover		35,547	21,086
December	Heritage House Condos, 6710 Hawaii Kai Dr, Hawaii Kai	0	86
	Naniwa Gardens, 6750 Hawaii Kai Dr, Hawaii Kai	0	26
	Plaza Hawaii Kai, 6770 Hawaii Kai Dr, Hawaii Kai	0	34
	Post Office, 7040 Hawaii Kai Dr, Hawaii Kai	0	31
	Hawaii Kai Shopping Center, 377 Keahole St, Hawaii Kai	0	70
	Hawaii Army National Guard, 3949 Diamond Head Rd, Kahala	0	7
	American Red Cross, 4155 Diamond Head Rd, Kahala	0	6
	Hawaiian Sunshine Nursery, 410436 Hihimanu St, Waimanalo	0	1
	Kaimuki High School, 2705 Kaimuki Ave, Kapahulu	0	1
	Leahi Hospital, 3675 Kilauea Ave, Kahala	0	1
	Kalama Village Shopping Center, 501 Kealahou St, Hawaii Kai	7	0
	Hawaii Kai Golf Course, 8902 Kalaniana'ole Hwy, Hawaii Kai	6	0
	Hawaii American Water, 8480 Kalaniana'ole Hwy, Hawaii Kai	9	0
	Kilohana United Methodist Church, 5829 Mahimahi St, Aina Haina	6	0
Niu Valley Center, 549 Halemaumau St, Aina Haina	14	0	

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DISPATCHABLE LOCATION – STATUS AS OF – DECEMBER 2023 – CONTINUED

Dispatchable Location			
2023	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**
Quarter 4			
Quarter 3 Carryover		35,547	21,086
December	7 Eleven, 565 Halemaumau St, Aina Haina	3	0
	Honolulu Waldorf School, 350 Ulua St, Aina Haina	10	0
	Niu Valley Intermediate School, 310 Halemaumau St, Aina Haina	17	0
	Calvary Lutheran Church, 5339 Kalaniana'ole Hwy, Aina Haina	4	0
	Aina Haina Elementary School, 801 W Hind Dr, Aina Haina	96	0
Q4		792	1024
Total		36,339	22,110

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

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

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

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

* Spectrum VoIP Database received on June 21st, 2017

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

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

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

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

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

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

*Bandwidth 9-1-1 VoIP Database Verification Project ***(Updated)					
PSAP	TOTAL RECORDS SUBMITTED BY BANDWIDTH (A)	TOTAL NO MATCHING RECORDS IDENTIFIED BY VSE (formerly AKIMEKA)	BANDWIDTH FALLOUT RECORDS (B)	NON MATCHING RECORDS CORRECTED BY VSE (formerly AKIMEKA) (C)	PERCENT COMPLETED
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 Civilian	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 September 6th, 2018

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

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

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – DECEMBER 2023

MAPPING LAYERS UPDATED (PART I)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/15/2023 To 12/28/2023	Delivered 12/29/2023
		Added new address point for three (3) records in Waianae
		Corrected spatial for two (2) records in Kalihi
		Added new address point for one (1) record in Aiea
		Added new address point for fifty-five (55) records in Kalihi
		Added new address point for one (1) record in Aina Haina
		Added new address point for two (2) records in Kaimuki
		Added new address point for two hundred and twenty-five (225) records in Hawaii Kai
		Corrected location name, corrected routing ID for one (1) record in Hawaii Kai
		Added new address point for two (2) records in Kapahulu
		Added new address point for one (1) record in Waipahu
		Added location name for one (1) record in Kapahulu
		Added new address point for two (2) records in Kaneohe
		Corrected routing ID, corrected spatial for one (1) record in Hawaii Kai
		Added location name for two (2) records in Kahala
		Added new address point for two (2) records in Ewa Beach
		Removed location name for one (1) record in Ewa Beach
		Added new address point for one (1) record in Punaluu
Corrected routing ID, corrected location name, corrected spatial for one (1) record in Hawaii Kai		
Added new address point for one (1) record in Pearl City		

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MAPPING LAYERS UPDATED (PART II)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/15/2023 To 12/28/2023	Added new address point for one (1) record in Kalaeloa Corrected routing ID, corrected location name for one (1) record in Hawaii Kai
	12/1/2023 To 12/14/2023	Delivered 12/15/2023
		Corrected name for one (1) record in Downtown
		Corrected location name for six (6) records in Kaneohe
		Corrected name for two (2) records in Kapolei
		Added new address point for one (1) record in Kapolei
		Corrected location name, spatial for two (2) records in Kaneohe
		Corrected location name, added building for four hundred and thirty (430) records in Waikiki
		Added new address point for two (2) records in Sunset
		Added new address point for two (2) records in Kalihi
		Corrected spatial for two (2) records in Waialua
		Added new address point for one (1) record in Aina Haina
		Added new address point for one (1) record in Makaha
		Added new address point for one (1) record in Kaimuki
		Corrected name for one (1) record in Kailua
		Corrected location type for one (1) record in Nanakuli
		Added new address point for two (2) records in Wahiawa
		Removed location name for two (2) records in Kalihi
		Corrected spatial for one (1) record in Kalihi
		Added new address point for one (1) record in Pearl City
Added new address point for one (1) record in Laie		

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MAPPING LAYERS UPDATED (PART III)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/1/2023 To 12/14/2023	Added new address point for one hundred and forty-four (144) records in McCully
		Added location name, added location type for one (1) record in Haleiwa
		Added new address point for one thousand and thirty-five (1035) records in Waikiki
		Added Tritech name for eight (8) records in Waikiki
		Corrected apartment for one (1) record in Kailua
		Corrected name for one (1) record in Kalihi
		Corrected name for one (1) record in Hauula
		Added new address point for six (6) records in Kaneohe
		Added new address point for two (2) records in Haleiwa
		Added location name for one (1) record in Waikiki
		Added new address point for one (1) record in Mokuleia
		Added location name for four (4) records in Kapolei
		Corrected routing ID for one (1) record in Waiialua
		Added new address point for one (1) record in Ewa Beach
		Added building, spatially corrected one (1) record in Kaneohe
		Corrected location name for one (1) record in Kalihi
		Added building for one (1) record in Kaneohe
		Added location name, added location type for one (1) record in Kalihi
		Corrected spatial for one (1) record in Waikiki
		Added location name for one (1) record in Kalihi
Corrected spatial, added location name for one (1) record in Waikiki		
Added new address point for twenty-six (26) records in Kailua		

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MAPPING LAYERS UPDATED (PART IV)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/1/2023 To 12/14/2023	Corrected location name for one (1) record in Hawaii Kai
		Corrected routing ID for one (1) record in Kalihi
		Corrected location name, corrected spatial for one (1) record in Waikiki
		Removed location name for one (1) record in Waikiki
		Corrected spatial, corrected location name for one (1) record in Waikiki
		Added location name for one (1) record in Ewa Beach
		Corrected spatial for two (2) records in Wahiawa
		Added new address point for one (1) record in Waipio
		Removed location name for one (1) record in Honolulu
		Added location name, added location type for one (1) record in Wahiawa
		Added new address point for one (1) record in Downtown
		Corrected spatial for one (1) record in Kailua
		Added new address point for five (5) records in Waialua
		Added location name for two (2) records in Salt Lake
		Corrected name for one (1) record in Ewa Beach
		Corrected name for one (1) record in Kaneohe
Corrected spatial for one (1) record in McCully		
Corrected spatial for one (1) record in Kaimuki		
Airports		
AMR Response Areas		
Bridges		
Building Footprints		
Bus Stops		
Churches		

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MAPPING LAYERS UPDATED (PART V)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
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		
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 VI)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Lodging		
Major Roads		
Medic Beats		
Medic Districts		
Medic Response Areas		
Medic Stations		
Medical Facilities		
Milepost Markers		
Military Response Areas		
MSAG Communities		
Net Junctions		
Ocean Rescue Boundaries		
Ocean Safety		
Parcels		
Parks		
Parks Polygon		
Points of Interest	12/15/2023 To 12/28/2023	Delivered 12/29/2023
		Corrected routing ID for five (5) records in Kapolei
	12/1/2023 To 12/14/2023	Delivered 12/15/2023
		Added new common place point for one (1) record in Waipahu
		Added new common place point for one (1) record in Salt Lake
		Corrected name, spatial for one (1) record in Waianae
Corrected name for one (1) record in Downtown		
Corrected spatial for one (1) record in Kalihi		

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MAPPING LAYERS UPDATED (PART VII)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Points of Interest	12/1/2023 To 12/14/2023	Corrected spatial, corrected house number for one (1) record in Kalihi
		Added apartment for one (1) record in Kaneohe
		Added new common place point for one (1) record in Kaimuki
		Added new common place point for one (1) record in Kailua
		Added new common place point for one (1) record in Kapolei
		Added new common place point for two (2) records in Haleiwa
		Added new common place point for one (1) record in Waimanalo
		Added new common place point for four (4) records in Downtown
		Corrected spatial for two (2) records in Kaneohe
		Corrected name for two (2) records in Waikiki
		Added new common place point for one (1) record in Pearl City
		Corrected routing ID for one (1) record in Kailua
		Added new common place point for one (1) record in Waialua
		Corrected spatial for one (1) record in Kaimuki
		Corrected name for one (1) record in Hawaii Kai
		Added new common place point for one (1) record in Ewa Beach
		Corrected spatial, corrected house number, corrected street, corrected routing ID for one (1) record in McCully
		Added new common place point for one (1) record in Laie
		Added new common place point for one (1) record in Hauula
		Added new common place point for three (3) records in Kalihi
Added new common place point for one (1) record in Honolulu		
Added new common place point for one (1) record in Wahiawa		
Added new common place point for three (3) records in Waikiki		

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MAPPING LAYERS UPDATED (PART VIII)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server Date Created/ Edits Performed	Other/Remarks
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Police Beats		
Police Districts		
Police Response Areas		
Police Stations		
Post Offices		
Schools		
Street Centerlines	12/15/2023 To 12/28/2023	Delivered 12/29/2023 Added ingress for twelve (12) records in Hawaii Kai
	12/1/2023 To 12/14/2023	Delivered 12/15/2023 Corrected range for one (1) record in Kalihi
		Corrected parity for one (1) record in Pearl City
		Corrected range, split segment for two (2) records in Waialua
		Added new segment for two (2) records in Waialua
		Corrected street name for five (5) records in Kailua
	Corrected spatial for one (1) record in Waialua	
Subdivisions		
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		
WSP Cell Sectors	12/1/2023 To 12/14/2023	Delivered 12/15/2023 Updated two (2) sectors per AT&T CRS
		Added four (4) sectors per AT&T CRS
		Added three (3) sectors per Verizon Wireless CRS

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MAPPING LAYERS UPDATED (PART IX)

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

OAHU CIVILIAN PSAPS		
Type of Layer	VSE (formerly Akimeka) GIS Server	Other/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
WSP Cell Towers	12/1/2023 To 12/14/2023	Delivered 12/15/2023
		Added one (1) tower per AT&T CRS
		Updated one (1) tower per Verizon Wireless CRS
		Updated one (1) tower per AT&T CRS

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GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVE

GIS KEY ACTIVITIES/UPDATES

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

Date	Key Activities/Updates
12/29/2023	Delivered data update for Central Square including Streets, Police Beats, and Address Points (with and without the apartment records).
12/29/2023	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
12/29/2023	Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.
12/15/2023	HPD Deliverable: Delivered data update for Central Square including Streets, Police Beats, and Address Points (with and without the apartment records).
12/15/2023	TriTech Deliverable: Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
12/15/2023	MapFlex Civilian Deliverable: Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.
12/1/2023	HPD TriTech Deliverable: Delivered data update for Central Square including Streets, Police Beats, and Address Points (with and without the apartment records).
12/1/2023	TriTech Deliverable: Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
12/1/2023	MapFlex Civilian Deliverable: Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG

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GIS FOR 911

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

HONOLULU POLICE DEPARTMENT TRITECH CAD PROJECT

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

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

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

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

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

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MAPFLEX SYSTEM

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

Hawaii County – December 12, 2023, and December 26, 2023

Maui County – December 13, 2023, and December 27, 2023

Kauai County – December 14, 2023, and December 28, 2023

Honolulu – December 1, 2023, December 15, 2023, and December 29, 2023

MAPFLEX ISSUES

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

SPEED LIMIT UPDATES

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

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

1. No updates received in **December 2023**.

ROUTING ID UPDATES

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

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

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

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HONOLULU EMS RESPONSE AREA

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

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

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

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

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

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

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

During the month of May 2023, there was a quarterly update to the Honolulu Medic Response Area.

During the month of August 2023, there was a quarterly update to the Honolulu Medic Response Area.

Oahu Civilian E9-1-1 Status Report

December 1, 2023 - December 31, 2023

4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS - DECEMBER 2023

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

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

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

Oahu PSAPs				MSAG SERVICE REQUEST CATEGORIES					
2023	TOTAL		Open	WIRESLINE		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2022 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
May	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0

<u>Note:</u>	* The 2022 Carryover row indicates the number of Service Requests that were opened in 2022; however, were brought forward into 2023 in an effort to track the service request until completion.
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	Category	Description
Definitions:	Wireline	Telephone Number (ALI) Discrepancies from land line phones that have been submitted to Intrado via 9-1-1 Net for correction.
	Wireless	Telephone Number (ALI) Discrepancies from phones that were land lines at one time, and were ported out to a wireless carrier. However, the phone number was never removed from the MSAG database.
	VoIP	Telephone Number (ALI) Discrepancies from VoIP phones that have been submitted to Time Warner Cable (TWCBL) or other VoIP providers for correction

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5. E9-1-1 OAHU CIVILIAN DATABASE SYNCHRONIZATION

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

Next Scheduled Database Synchronization Report – January 2024

TWO-WAY (2-WAY) COMPARISON – JANUARY 2024 - TBA

THREE-WAY (3-WAY) COMPARISON – JANUARY – TBA

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