October 1, 2019 - October 31, 2019



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AKIMEKA | HIGH PRIORITY, HIGH IMPACT.

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME HAWAII COUNTY PSAPS - OCTOBER 2019

Source: Intrado Viper system

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

	9-1-1 Call Volume																
HAWAII COUNTY PSAPs		Wir	eline		Wire	less		VC)IP	Calls No		Admir	Calls	Aband Ca	doned Ils	Other	Calls
2019	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
ОСТ	17,510	2,444	13.96%	13,008	74.29%	42.24%	57.76%	798	4.56%	18	0.10%	0	0.00%	1,242	7.09%	0	0.00%

CALL VOLUME HAWAII COUNTY PSAP NOTES:

The percentage of Wireless Phase 2 calls (57.76%) has surpassed the number of Wireless Phase 1 calls (42.24%) in October 2019.

3911 Calls with No ALI in October 2019 = 0.10% - Statewide average for 2018 = 0.09%

9-1-1 CALL VOLUME - CALENDAR YEAR 2019

						9-1-1	Call Vo	lume									
	HAWAII COUNTY PSAPs		Wireline		Wireless			VC)IP	Calls v		Admir	n Calls	Aband Ca	doned Ills	Other	Calls
2019	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
JAN	16,913	3,148	18.61%	12,155	71.87%	42.34%	57.66%	746	4.41%	14	0.08%	0	0.00%	850	5.03%	0	0.00%
FEB	16,724	2,829	16.92%	11,899	71.15%	41.31%	58.69%	765	4.57%	13	0.08%	0	0.00%	1,218	7.28%	0	0.00%
MAR	18,089	2,946	16.29%	12,950	71.59%	42.12%	57.88%	861	4.76%	10	0.06%	0	0.00%	1,322	7.31%	0	0.00%
APR	17,257	3,049	17.67%	12,166	70.50%	43.28%	56.72%	787	4.56%	13	0.08%	0	0.00%	1,242	7.20%	0	0.00%
MAY	17,912	2,768	15.45%	12,996	72.55%	43.80%	56.20%	816	4.56%	17	0.09%	0	0.00%	1,315	7.34%	0	0.00%
JUNE	17,668	2,638	14.93%	12,986	73.50%	43.21%	56.79%	774	4.38%	18	0.10%	0	0.00%	1,252	7.09%	0	0.00%
JULY	18,817	2,901	15.42%	13,724	72.93%	44.58%	55.42%	761	4.04%	58	0.31%	0	0.00%	1,373	7.30%	0	0.00%
AUG	18,258	2,714	14.86%	13,522	74.06%	41.94%	58.06%	775	4.24%	12	0.07%	0	0.00%	1,235	6.76%	0	0.00%
SEPT	16,820	2,703	16.07%	12,300	73.13%	41.43%	58.57%	700	4.16%	13	0.08%	0	0.00%	1,104	6.56%	0	0.00%
ОСТ	17,510	2,444	13.96%	13,008	74.29%	42.24%	57.76%	798	4.56%	18	0.10%	0	0.00%	1,242	7.09%	0	0.00%
NOV																	
DEC																	
YTD	175,968	28,140		127,706				7,783		186		0		12,153		0	
MON AVG	17,597	2,814	16.02%	12,771	72.56%	42.62%	57.38%	778	4.42%	19	0.10%	0	0.00%	1,215	6.90%	0	0.00%

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9-1-1 CALL VOLUME BY AGENCY - OCTOBER 2019

				9-1-1	Call Volui	me by Ag	ency					
2019		Hawaii	Police Dep	artment		Hawaii Fire Department						
2019	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls		
October	13,732	78.42%	0	1,215	0	2,536	14.48%	0	27	0		

9-1-1 CALL VOLUME BY AGENCY - CALENDAR YEAR 2019

				9-1-1	Call Volui	me by Ag	ency				
2040		Hawaii	Police Dep	partment		Hawaii Fire Department					
2019	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	
January	13,504	79.84%	0	825	0	2,559	15.13%	0	25	0	
February	12,962	77.51%	0	1,178	0	2,544	15.21%	0	40	0	
March	15,426	85.28%	0	1,291	0	2,663	14.72%	0	31	0	
April	13,670	79.21%	0	1,219	0	2,345	13.59%	0	23	0	
Мау	14,041	78.39%	0	1,284	0	2,556	14.27%	0	31	0	
June	13,908	78.72%	0	1,226	0	2,508	14.20%	0	26	0	
July	14,731	78.29%	0	1,340	0	2,713	14.42%	0	33	0	
August	14,573	79.82%	0	1,216	0	2,450	13.42%	0	19	0	
September	13,410	79.73%	0	1,089	0	2,306	13.71%	0	15	0	
October	13,732	78.42%	0	1,215	0	2,536	14.48%	0	27	0	
November											
December											
YTD	139,957		0	11,883	0	25,180		0	270	0	
MON AVG	13,996	79.52%	0	1,188	0	2,518	14.31%	0	27	0	

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. Abandoned Calls are not included in the % of Total Calls.
- All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.

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FOR YOUR INFORMATION

	FYIFor Your Information										
	PSAP Operations										
		Ç	Statewide 9	11 Call Volս	umes						
PSAP	PSAP 2018 2017 2016 2015										
Oahu Civilian	Oahu Civilian 1,034,190 70.62% 1,022,818 72.16% 1,009,059 71.93% 1,019,402 70.94%										
RDC Pearl Harbor	37,068	2.53%	27,916	1.97%	N/A	N/A	N/A	N/A			
Hawaii County	206,648	14.11%	193,166	13.62%	205,412	14.64%	217,768	15.15%			
Maui County	133,869	9.14%	123,685	8.73%	137,333	9.80%	142,952	9.95%			
Kauai County	Kauai County 52,623 3.60% 49,902 3.52% 50,955 3.63% 56,874 3.96%										
Total	Total 1,464,398 100.00% 1,417,487 100.00% 1,402,759 100.00% 1,436,996 100.00%										
*2016 & 2015 Statewide avera	2016 & 2015 Statewide average does not include Military 911 calls										

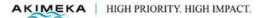
TEXT TO 911 - CURRENT MONTH - OCTOBER 2019

NOTE:

- 911 Text messages received at the Fire Department are transfers from the Police Department.
- Although there is a "Text to 911" plot on the MapFlex, the location of the plot is not reliable. Text to 911 Dispatchers should use their skills to ascertain the exact location of the emergency response.

TEXT TO 911 Hawaii County PSAPs 2019										
Month	Received	Received at								
IVIOTITI	at Police	Fire								
January	29	2								
February	29	3								
March	27	2								
April	20	7								
May	20	2								
June	18	0								
July	21	0								
August	26	4								
September	18	3								
October	17	3								
November										
December										
YTD	225	26								
Monthly Avg.	22.50	2.60								

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WIRELESS PSAP TESTING - OCTOBER 2019

	HAWAII COUNTY - OCTOBER 2019										
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:					
10/18/19	Sprint	1	1	Hawaii PSAP	Fail	wrong tower info					
10/25/19	Sprint	1	1	Hawaii PSAP	Pass	re-test from previous					
10/28/19	Sprint	1	1	Hawaii PSAP	Pass						

NOTES:

- There were three (3) scheduled Wireless 911 Test for the month of October 2019.
- Verizon Wireless has completed migrating their Wireless network database from Intrado to ComTech.
- During the 4th quarter of 2018, there was an increasing amount of "MOBL" class of service type of 911 calls delivered to the State of Hawaii PSAPs. On January 15th, 2019, Intrado completed the position source mapping for ComTech which appears to have resolved this issue.

Hawaii County E9-1-1 Status Report

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – OCTOBER 2019

			9)-1-1 TR	ANSACT	IONS			
HAWAII COUNTY	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Sub	omitted	Discrepancy Records			Customer Addresses
2019		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	Affected
JANUARY	184	157	12	9	6	322	0	0	82
FEBRUARY	61	12	26	17	6	193	0	0	12
MARCH	145	92	22	30	1	359	0	0	370
APRIL	60	25	21	13	1	254	0	0	24
MAY	305	278	17	7	3	473	0	0	37
JUNE	129	113	13	2	1	318	0	0	87
JULY	140	112	17	10	1	232	0	0	17
AUGUST	92	70	11	7	4	213	0	0	181
SEPTEMBER	229	138	27	60	4	165	0	0	2
OCTOBER	265	222	22	13	8	313	0	0	335
NOVEMBER									·
DECEMBER									
TOTAL YTD	1,610	1,219	188	168	35	2,842	0	0	1,147
AVG PER MONTH	161	122	19	17	4	284	0	0	115

Definitions

- (A) Dispatchable Location is defined in the FCC 15-9 Docket as the verified or corroborated street address of the calling party plus additional information such as floor, suite, apartment or similar information that may be needed to adequately identify the location of the calling party. Please see Dispatchable Location Section for more information.
- (B) Master Street Address Guide Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (C) Telephone Number Change Request Represents address corrections on a specific TN or group of TNs. "invalid" TNs usually have an associated ESN 299 attached to them which indicates the need for validation.
- (D) Automatic Location Information Discrepancy Record Represents an address discrepancy discovered during a live 9-1-1 call, from a landline OR a VoIP phone. These record corrections are treated with a higher priority and should be processed within 48 hours if wireline, and 72 hours if a VoIP phone, as a general guideline.

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MSAG CURRENT MONTH NOTES:

A total of **265** MSAG transactions were processed in 9-1-1 Net during the current month. Twenty-two (**22**) 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 Military response areas, and inserting new MSAG records.

There were 335 customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

13 Telephone Number Change Requests (TN CR) transactions were processed in 9-1-1 Net with valid MSAG addresses, as a result of the ESN 299 clean-up effort and the Dispatchable Location Project. ESN 299 TN CRs must be validated against HT records and approved by the end user Hawaiian Telcom customer before updating the ALI record.

Two (2) ALI DRs were submitted as the result of a 9-1-1 calls from residences in Kealakekua and Waikoloa. Six (6) VoIP Dr were submitted as a result of 9-1-1 calls, four (4) from residents in Kamuela, Honokaa and Kurtistown and two (2) from businesses in Hilo.

Akimeka submitted two hundred and twenty-two (222) TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- There are currently 313 Open TN CR Transactions.
- Refer to chart in the next section "TNCR Current Status"

313 Open TN CR transactions are a direct result of the ESN 299 clean-up and are awaiting approval from Hawaiian Telcom, Inc. Once a telephone number is submitted to Intrado for correction, it is verified against HT records and/or by the customer. Intrado's internal process requires calling each telephone customer individually for verification to update an address in the 9-1-1 database. Akimeka continues to monitor and track the progress of the remaining 165 Referred records.

- There are currently no Open ALI-DRs as of October 31, 2019.
- There is currently no Open VoIP DRs as of October 31, 2019.

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS - OCTOBER 2019

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 AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS							
HAWAII	313	121	48	144							

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 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 - OCTOBER 2019

NARRATIVE:

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

During the month of September 2015, Akimeka started a pilot project, entering additional location information to a verified MSAG address with multiple telephone numbers. Specifically the **Kings Shops at 690250 Waikoloa Beach Dr., Waikoloa**. 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. There are a total of 5,887 Dispatchable Locations processed to date. There were 222 Dispatchable locations submitted and 167 were processed in October 2019.

Dispatchable Location					
2019	Common Name Place	TNCR*	Transactions		
Quarter 4	MSAG Address	Transactions Submitted	Processed**		
Quarter 3 Carryover		5,665	5,171		
	Four Seasons Hualalai, 720100 Kaupulehu Dr, Kailua Kona	0	35		
	Hilton Wiakoloa, 690425 Waikoloa Beach Dr, Waikoloa	110	110		
October	Kings' Shops, 690250 Waikoloa Beach Dr, Waikoloa	23	20		
October	Queen Market Place, 690201 Waikoloa Beach Dr, Waikoloa	21	0		
	Pottery Terrace, 755995 Kuakini Hwy, Kailua Kona	0	2		
	Waimea Center, 651158 Mamalahoa Hwy, Kamuela	68	0		
November					
December					
Q4 Total		222	167		
Total		5,887	5,338		

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - OCTOBER 2019

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

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

*Spectrum (Charter)							
	9-1-1 VoIP Database Verification Project						
	TOTAL	TOTAL RECORDS	TOTAL	NON	PERCENT		
	RECORDS	MATCHING &	RECORDS	MATCHING	COMPLETED		
PSAP	SUBMITTED BY	VERIFIED WITH	NOT	RECORDS			
ISAI	SPECTRUM	911 DATABASES	MATCHING	CORRECTED			
	(A)	(B)		BY 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

^{**} Akimeka provided VoIP Records with Latitude/Longitude coordinates

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

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BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT - OCTOBER 2019

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

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

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

*Bandwidth								
9-1-1	9-1-1 VoIP Database Verification Project **(Updated)							
TOTAL TOTAL NEW TOTAL NON PERCEN								
	RECORDS	RECORDS	RECORDS	MATCHING	COMPLETED			
PSAP	SUBMITTED BY	VERIFIED WITH	NOT	RECORDS				
FSAF	BANDWIDTH	911 DATABASES	MATCHING	CORRECTED				
	(A)	(B)		BY AKIMEKA				
				(C)				
HAWAII County	545	85	0	0	100.00%			
KAUAI County	306	41	0	0	100.00%			
MAUI County	914	222	1	1	100.00%			
OAHU Cilivian	4,065	888	1	1	100.00%			
OAHU Military	56	7	0	0	100.00%			
TOTAL	5,886	1,243	2	2	100.00%			

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

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

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



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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – OCTOBER 2019

MAPPING LAYERS UPDATED (PART I)

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

		HAWAII COUNTY
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
		Next Delivery 11/5/2019
		Corrected spatial for thirty-six (36) records in Hawi
		Corrected spatial for eight (8) records in Volcano
		Corrected spatial and corrected TMK for three (3) records in Hawi
		Added address point for one (1) record in Kailua Kona
		Verified address for one (1) record in Hawi
		Corrected spatial for one (1) record in Waikoloa
		Corrected TMK for three (3) records in Volcano
		Added address for one (1) record in Volcano
		Corrected TMK for two (2) records in Kailua Kona
	10/22/19	Added new address for one (1) record in Kailua Kona
	То	Corrected spatial for eighty (80) records in Kailua Kona
	10/31/19	Added address point for one (1) record in Volcano
		Corrected TMK for one (1) record in Hawi
		Corrected TMK for one (1) record in Honokaa
		Corrected spatial for one (1) record in Kealakekua
Address Points		Corrected spatial for three (3) records in Honokaa
		Corrected spatial and updated location name for one (1) record in Kealakekua
		Corrected spatial and corrected TMK for three (3) records in Kailua Kona
		Corrected spatial for sixteen (16) records in Kamuela
		Updated routingid and corrected spatial for one (1) record in Kamuela
		Added address for three (3) records in Kamuela
		Corrected spatial and corrected TMK for one (1) record in Volcano
		Delivered 10/22/2019
		Added address for one (1) record in Honokaa
		Added address for one (1) record in Naalehu
	10/8/19	Added address for sixteen (16) records in Pahoa
	To	Added address for three (3) records in Pepeekeo
	10/21/19	Added address for one (1) record in Honomu
		Updated address for one (1) record in Pahala
		Added address for twenty-two (22) records in Mountain View
		Added address for six (6) records in Captain Cook
		Added address for one (1) record in Keauhou

Hawaii County

Hawaii County E9-1-1 Status Report

October 1, 2019 - October 31, 2019

MAPPING LAYERS UPDATED (PART II)

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

		HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks				
	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE					
		(Listed Alphabetically)				
		Updated address for one (1) record in Volcano				
		Corrected TMK for two (2) records in Pahoa				
		Corrected TMK for one (1) record in Volcano				
		Added address for two (2) records in Papaikou				
		Added address for seventeen (17) records in Volcano				
		Corrected spatial for sixteen (16) records in Kailua Kona				
		Updated ESN for four (4) records in Hilo				
		Added address for one (1) record in Pahala				
		Corrected TMK for one (1) record in Kamuela				
		Added address for fourteen (14) records in Ocean View				
		Added address for five (5) records in Hilo				
		Corrected spatial for one (1) record in Kealakekua				
	10/8/19	Added address for five (5) records in Kealakekua				
	To	Added address for one (1) record in Hawi				
	10/21/19	Updated ESN for five (5) records in Volcano				
		Added address for five (5) records in Kailua Kona				
Address Points		Corrected spatial for ten (10) records in Pahala				
		Added address for one (1) record in Laupahoehoe				
		Corrected spatial for six (6) records in Kamuela				
		Added address for eight (8) records in Keaau				
		Added address for one (1) record in Waikoloa				
		Updated ESN for fourteen (14) records in Kurtistown				
		Added address for five (5) records in Kamuela				
		Added address for one (1) record in Paauilo				
		Corrected spatial for three (3) records in Hilo				
		Added address for twenty-two (22) records in Kurtistown				
		Updated ESN for three (3) records in Keaau				
		Corrected spatial for one (1) record in Kurtistown				
		Delivered 10/8/2019				
	10/1/19	Corrected spatial for seven (7) records in Hawi				
	To	Corrected spatial for nine (9) records in Pahoa				
	10/7/19	Corrected spatial for seven (7) records in Holualoa				
		Corrected spatial for twenty-five (25) records in Kurtistown				

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Hawaii County E9-1-1 Status Report

October 1, 2019 - October 31, 2019

MAPPING LAYERS UPDATED (PART III)

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

	HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE			
		(Listed Alphabetically)			
		Corrected spatial for two (2) records in Waikoloa			
		Corrected TMK for one (1) record in Volcano			
		Updated location name and corrected spatial for two (2) records in Hilo			
		Corrected spatial for eight (8) records in Kailua Kona			
		Corrected spatial for twelve (12) records in Kapaau			
		Corrected TMK for one (1) record in Kamuela			
		Corrected spatial for one (1) record in Kealakekua			
		Corrected spatial for nine (9) records in Honokaa			
Address Points	10/1/19	Corrected spatial for one (1) record in Captain Cook			
Address Points	To 10/7/19	Corrected TMK for three (3) records in Holualoa			
	10/7/13	Corrected TMK for one (1) record in Hilo			
		Corrected spatial for eight (8) records in Pahala			
		Updated location name for one (1) record in Hilo			
		Corrected spatial for fifty-three (53) records in Kamuela			
		Updated address for one (1) record in Kurtistown			
		Corrected spatial for eighteen (18) records in Mountain View			
		Corrected spatial for two (2) records in Hakalau			
		Corrected spatial for six (6) records in Hilo			
Airports					
Bridges					
Building Footprints					
Bus Stops					
Churches					
Coastal Names	10/1/19 To	Delivered 10/8/2019			
	10/7/19	Verified address for one (1) record in Kapaau			
Coastline					
Common Places					
Correctional Facilities					
Emergency Callboxes					
Emergency Operation					
Centers					
Emergency Shelters					
ESZ/ESN	10/8/19 To	Delivered 10/22/2019			
102/101 \	10/21/19	Corrected boundary for five (5) records			

Hawaii County

Hawaii County E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART IV)

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

		HAWAII COUNTY
	Akimeka GIS	
Type of Layer	Server	GIS Delivery Dates/Remarks
	Date Created/	Old Delivery Dutes/Reliability
	Edits Performed	
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
Fire Beats		
Fire Districts		
	10/8/19	Delivered 10/22/2019
Fire Response Areas	To	Updated medic order and corrected boundary for four (4) records
The Response Theus	10/21/19	Updated medic order for one (1) record
		Corrected boundary for two (2) records
Fire Stations		
Food & Beverage		
Gas Stations		
Gate Codes		
Government Buildings		
Harbors		
Helipads		
Hiking Trails		
Hospitals		
Hydrants		
Hyrdology Layers		
Incident Response Areas		
Lodging		
Major Roads		
Medic Beats		
Medic Districts		
Medic Response Areas	10/8/19 To	Delivered 10/22/2019
Wedic Response Areas	10/21/19	Corrected boundary for six (6) records
Medic Stations		
Medical Facilities		
Milepost Markers		
MSAG Communities		
Net Junctions		
Ocean Rescue Boundaries		
Ocean Safety		
Parcels		
Parks		

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MAPPING LAYERS UPDATED (PART V)

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

HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
Parks Polygon				
Points of Interest				
Police Beats				
Police Districts				
Police Response Areas				
Police Stations				
Post Offices				
Schools				
Street Centerlines	10/8/19 To 10/21/19	Updated medic, updated fire, updated ESN for two (2) records in Hilo Corrected spatial for three (3) records in Holualoa Added segment and updated range for one (1) record in Kamuela Updated ESN, updated fire and medic for one (1) record in Kurtistown Split segment for and updated range for two (2) records in Hilo Split segment for and updated range, updated ESN, updated medic and fire for three (3) records in Kurtistown Updated range for six (6) records in Kailua Kona Split segment for and updated range, upated ESN, updated medic and fire for two (2) records in Keaau Updated range for one (1) record in Pahoa Split segment for and updated range, upated ESN, updated medic and fire for two (2) records in Volcano Updated range for one (1) record in Kamuela Split segment for, upated ESN, updated medic and fire for two (2) records in Hilo Updated range for one (1) record in Holualoa Updated range for one (1) record in Pahoa Extended segment one (1) record in Holualoa Updated SSN for one (1) record in Holualoa Updated ESN for one (1) record in Hilo Added segment and updated range for one (1) record in Kailua Kona Updated range for one (1) record in Kurtistown Edited segment one (1) record in Hilo		

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MAPPING LAYERS UPDATED (PART VI)

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

		HAWAII COUNTY
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9.1	1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
	CHITCHE	(Listed Alphabetically)
		Split segment for and updated range, upated ESN, updated medic and fire for seven (7) records in Kurtistown Added segment for three (3) records in Pahala Updated medic for seventy-seven (77) records in Kurtistown
		Updated ESN, updated fire and medic for one (1) record in Pahoa
		Updated range for five (5) records in Waikoloa
Street Centerlines	10/8/19 To 10/21/19	Added segment for one (1) record in Hilo Corrected spatial, assigned range & split street segment, corrected ESN for two (2) records in Kurtistown
Street Centernies	10/21/10	Updated medic for three hundred and twenty-five (325) records in Keaau
		Split segment for and updated range, updated ESN, updated fire and medic for three (3) records in Kurtistown
		Updated range for one (1) record in Paauilo
		Updated ESN, updated fire and medic for one (1) record in Keaau
		Updated ESN for one (1) record in Keaau
		Updated range for two (2) records in Pahala
	10/1/19 To	Delivered 10/8/2019
	10/7/19	Added segment for one (1) record in Papaikou
Subdivisions		
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		Nev4 Delivery 44/5/2040
		Next Delivery 11/5/2019
	10/22/19 To	Updated three (3) sectors per Sprint CRS
	10/31/19	Added fourteen (14) sectors per Verizon Wireless CRS
	10/31/19	Updated ten (10) sectors per Verizon Wireless CRS Added two (2) sectors per Sprint CRS
WSP Cell Sectors		Delivered 10/22/2019
	10/8/19	Added twelve (12) sectors per Verizon Wireless CRS
	10/8/19 To	Added three (3) sectors per T-Mobile audit
	10/21/19	Updated eighteen (18) sectors per Verizon Wireless CRS
		Updated nine (9) sectors per T-Mobile audit
		The state of the s

Hawaii County

October 1, 2019 - October 31, 2019

MAPPING LAYERS UPDATED (PART VII)

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

HAWAII COUNTY						
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks				
	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE					
		(Listed Alphabetically)				
WSP Cell Sectors	10/1/19 To	Delivered 10/8/2019				
wsP Cell Sectors	10/7/19	Added nineteen (19) sectors per AT&T CRS				
	10/22/19	Next Delivery 11/5/2019				
	То	Updated three (3) towers per Verizon Wireless CRS				
	10/31/19	Updated two (2) towers per Sprint CRS				
	10/8/19	Delivered 10/22/2019				
WSP Cell Towers	То	Updated four (4) towers per Verizon Wireless CRS				
	10/21/19	Updated nine (9) towers per T-Mobile audit				
	10/1/19	Delivered 10/8/2019				
	То	Added one (1) tower per AT&T CRS				
	10/7/19	Updated two (2) towers per AT&T CRS				

GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

GIS KEY ACTIVITIES/UPDATES

Hawaii County

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

Date	Key Activities/Updates
10/22/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street
	Centerlines, ESN, and MSAG Communities, Fire Hydrants,
	MedicResponseAreas, FireResponseAreas for Hawaii County Mapflex.
10/22/2019	Delivered Address Points, City, Common Names Alt Table, Display Streets, Fire
	EMS Zone, First In, Points of Interest, POI Alt Names, Police Zones, Street
	Centerlines, Street Alt Names, Street Routes, Fire Beats, Medic Beats (Medic
	Response Areas) and FireHydrants for Hawaii County Spillman.
10/8/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street
	Centerlines, ESN, and Common Places for Mapflex in Hawaii County
10/8/2019	Delivered Address Points, City, Common Names Alt Table, Display Streets, Fire
	EMS Zone, First In, Points of Interest, POI Alt Names, Police Zones, Street
	Centerlines, Street Alt Names, Street Routes for Spillman for Hawaii County

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LAVA FLOW AND ALTERNATE ROUTES

Historical events are archived in the 2018 Monthly Status Reports.

Akimeka will resume to deliver updates should the event start up again.

FIRE DEPARTMENT IMT (INCIDENT MANAGEMENT TEAM) MAP

Historical events are archived in the 2018 Monthly Status Reports.

Akimeka will update these GIS layers upon request by the Hilo Fire Department.

ADDRESS POINTS AND STREET CENTERLINES UPDATE COMPARISON

On a routine basis, upon receipt of Hawai'i County Planning Department's Address Points and Street Centerlines layer updates, Akimeka compares and incorporates any of the County's additions, changes, and deletions into the Akimeka Address Points and Street Centerlines layers that appear necessary for the dispatch and response of 911 personnel.

The new Address Points and Street Centerlines geodatabase comparative analysis was received from the Hawai'i County Planning Department on **October 17, 2019**. A new compare process was developed by Akimeka to perform this analysis.

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	143	
Addresses Removed	0	
Address Street Name Changes	2	
Address Street Number Changes	1	
New Street Segments Added		1
Street Segments Removed		0
Street Segment Range Changes		14
Street Segment Name Changes		0

NOTE:

Some Address Points have multiple updates that are required, including Street Name and Street Number. These updates are counted as separate actions since the changes are required in order to make the GIS layers "9-1-1 capable" for CAD system recommendations affecting public safety dispatch and response operations.

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October 1, 2019 - October 31, 2019

CAD SYSTEM DEPLOYMENT

On September 18th, 2018, the Hawaii Police and Fire Department went live on the new Spillman CAD and mapping systems. There have been no major GIS data configuration changes requested. Historical events are archived in the 2018 Monthly Status Reports.

MAPFLEX SYSTEM

Akimeka delivered GIS data to the MapFlex system on the following dates in October 2019

Hawaii County – October 8th, 2019 and October 22nd, 2019 **Maui County** – October 9th, 2019 and October 23rd, 2019 **Kauai County** – October 10th, 2019, and October 24th, 2019 **Honolulu** – October 11th, 2019, and October 25th, 2019

MAPFLEX ISSUES

Hawaii County

Below is a detailed list of issues regarding the MapFlex systems throughout the State of Hawaii.

DATE	ISSUE	DESCRIPTION	STATUS
8/2016	Wireless Addresses	MapFlex system began displaying wireless information incorrectly. MapFlex system is doing a reverse query for additional information in the GIS and this is overriding the ALI information with the closest address in the GIS.	Partially Resolved (Nov 2016) The overriding ALI with updated Lat/Longs from the GIS is still occurring
11/2016	Phase I Display	Wireless Phase I calls plotting at centroid of coverage area and landing in the ocean. After installation of new MapFlex version to correct other issues, the configurations for Wireless Phase I were not set up properly by Intrado, in which the mapping did not point to the correct information in MapFlex.	Partially Resolved (Dec 2016) According to PSAPs, it's not fully resolved. The icon of the tower still doesn't plot for Phase I.
11/2016	Wireless Confidence	Sprint calls coming across with unusually high confidence. Coordination is taking place with Sprint and Intrado. Intrado provides the PDE services for Sprint.	Pending
3/22/2017	ArcGIS Address Locator	The locators in MapFlex have a configurations which does not include ESNs. A reported issue has occurred with the Sheraton in Waikiki. The address locator does not differentiate between the Sheraton hotel and the surf break and plots on the surf break. The bigger issue is that this same issue will occur with complexes that have same primary address.	Pending A new SP 5.4 update by Intrado is aimed to correct this issue.

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5/17/2017	VoIP Calls Plotting	Recognized in late April and early May 2017, the PSAPs	Partially Resolved – the
0,1,,201,	Incorrectly	have been receiving several VoIP calls which are plotting in	Lat/Longs are no longer being
	J	the incorrect locations. After further research it was	plotted in MapFlex due to a
		determined that it is because MapFlex is configured to plot	software release.
		the received Lat/Long. The problem is that these are not	
		always maintained properly and that ideally the system	
		should first choose to match with the GIS data based on the	
		provided address.	
		During the September 20, 2017 PSAP conference call, HT	
		relayed there was confirmation that the Time Warner	
		records were in fact passing through the Intrado FMCC.	
5/17/2017	Landline Calls	It was determined that for normal landline calls, the X/Y	Intrado is looking into this
	Producing X/Y on	coordinates are being sent. The PSAPs have asked where	(May - June 2017)
	calls	these are being generated and why would they be sent for	
		landline calls.	
5/23/2018	Phase I & Phase II	Phase I calls received at the Kihei Maui PSAP are displaying	Pending
	coverage area	a circular circumference area rather than a cone shaped	
		directional coverage. Phase II calls are not plotting the COF	
	<u> </u>	meters correctly.	
5/24/2018	Incorrect Addresses	MapFlex system began displaying incorrect addresses in the	Pending
		bubble display when an Address Point is right mouse clicked	
		to see information by the PSAPs. However, the address in	
- (27 (2010	7	the data is still correct as shown on the left hand side.	D 11
6/27/2018	Moving Labels	It was brought up during the PSAP teleconference with	Pending
		Hawaiian Tel and Intrado that the Hawaii Fire Department	
		submitted a trouble ticket regarding the parcel labels. When	
		the base map is checked on for viewing the owner's names	
		on the parcel layer, the names of some of the parcels will	
		follow and leave their parcel as the map is panned following	
		streets. This problem was also recreated at the Hawaii	
		Police Department.	



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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – OCTOBER 2019

#	Date	Ticket #	Description	PSAP	Urgency	Comments
1	01/23/19	1007	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 8/31/2019 JBC
2	08/12/19	1008	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 8/31/2019 JBC
3	8/12/19	1009	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 8/31/2019 JBC
4	09/18/19	1010	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 9/30/2019 JBC
5	9/27/2019	1011	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 9/30/2019 JBC
6	9/29/2019	1012	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 9/30/2019 JBC
7	9/30/2019	1013	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 10/31/2019 JBC
8	09/30/19	1014	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 10/31/2019 JBC
9	10/3/2019	1015	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 10/31/2019 JBC
10	10/7/2019	1016	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 10/31/2019 JBC
11	10/15/2019	1017	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 10/31/2019 JBC
12	10/21/2019	1018	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 10/31/2019 JBC

Note* There are twelve (12) opened service request pending for October 2019.

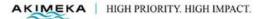
SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2019

H	MSAG SERVICE REQUEST CATEGORIES								
2019	TOTAL		0	WIRELINE		WIRELESS		VoIP	
2019	Created	Closed	Open	Created	Closed	Created	Closed	Created	Closed
2018 Carryover*			0						
January	6	5	1	2	2	0	0	3	2
February	6	4	3	3	3	0	0	3	1
March	1	1	3	1	1	0	0	0	0
April	1	3	1	1	1	0	0	0	2
May	3	3	1	3	3	0	0	0	0
June	1	1	1	1	1	0	0	0	0
July	1	1	1	1	1	0	0	0	0
August	4	2	3	1	1	0	0	3	1
September	4	1	6	1	1	0	0	3	0
October	8	2	12	2	2	0	0	6	0
November									
December									
TOTAL	35	23	12	16	16	0	0	18	6

Note:

* The 2018 Carryover row indicated the number of Service Requests that were opened in 2018 and brought forward into 2019 in an effort to track the service request until completion. Detailed information on service tickets are available upon request.

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



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5. E9-1-1 DATABASE SYNCHRONIZATION

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

Next scheduled Database Synchronization – November 2019

AUDIT SUMMARY RESULTS - NOVEMBER 2019 - TBA

AUDIT SUMMARY RESULTS COMPARISION - NOVEMBER 1, 2019 VS AUGUST 1, 2019 - TBA

AUDIT SUMMARY RESULTS - TBA

INVALID MSAG STREETS AND ADDRESS RANGES – ESN X99 RECORDS - TBA

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT - TBA