

Hawaii County E9-1-1 Status Report

December 1, 2019 – December 31, 2019



AKIMEKA
YOUR MISSION IS OUR MISSION

Hawaii County E9-1-1 Status Report

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME HAWAII COUNTY PSAPS – DECEMBER 2019

Source: Intrado Viper system

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

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		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
DEC	18,537	2,519	13.59%	13,955	75.28%	39.05%	60.95%	758	4.09%	17	0.09%	0	0.00%	1,288	6.95%	0	0.00%

CALL VOLUME HAWAII COUNTY PSAP NOTES:

*The percentage of Wireless Phase 2 calls (60.95%) has surpassed the number of Wireless Phase 1 calls (39.05%) in December 2019.

*911 Calls with No ALI in December 2019 = 0.09% - Statewide average for 2018 = 0.09%

9-1-1 CALL VOLUME – CALENDAR YEAR 2019

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		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%
OCT	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	17,106	2,514	14.70%	12,699	74.24%	40.25%	59.75%	778	4.55%	4	0.02%	0	0.00%	1,111	6.49%	0	0.00%
DEC	18,537	2,519	13.59%	13,955	75.28%	39.05%	60.95%	758	4.09%	17	0.09%	0	0.00%	1,288	6.95%	0	0.00%
YTD	211,611	33,173		154,360				9,319		207		0		14,552		0	
MON AVG	17,634	2,764	15.71%	12,863	72.92%	42.13%	57.87%	777	4.41%	17	0.10%	0	0.00%	1,213	6.87%	0	0.00%

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9-1-1 CALL VOLUME BY AGENCY – DECEMBER 2019

2019	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	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
December	14,658	79.07%	0	1,253	0	2,591	13.98%	0	35	0

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

2019	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	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
May	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	13,506	78.95%	0	1,092	0	2,489	14.55%	0	19	0
December	14,658	79.07%	0	1,253	0	2,591	13.98%	0	35	0
YTD	168,121		0	14,228	0	30,260		0	324	0
MON AVG	14,010	79.44%	0	1,186	0	2,522	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

FYI.....For Your Information										
PSAP Operations										
Statewide 911 Call Volumes										
PSAP	2019		2018		2017		2016		2015	
Oahu Civilian	1,075,726	69.67%	1,034,190	70.62%	1,022,818	72.16%	1,009,059	71.93%	1,019,402	70.94%
RDC Pearl Harbor	37,905	2.45%	37,068	2.53%	27,916	1.97%	N/A	N/A	N/A	N/A
Hawaii County	211,611	13.70%	206,648	14.11%	193,166	13.62%	205,412	14.64%	217,768	15.15%
Maui County	157,127	10.18%	133,869	9.14%	123,685	8.73%	137,333	9.80%	142,952	9.95%
Kauai County	61,754	4.00%	52,623	3.60%	49,902	3.52%	50,955	3.63%	56,874	3.96%
Total	1,544,123	100.00%	1,464,398	100.00%	1,417,487	100.00%	1,402,759	100.00%	1,436,996	100.00%
*2016 & 2015 Statewide average does not include Military 911 calls										

911 Call Volume % increase from 2018 to 2019	
Oahu	4.02%
RDC	2.25%
Hawaii	2.40%
Maui	17.37%
Kauai	17.35%
State of Hawaii average	8.68%

911 Calls with No AII % average for 2019	
Oahu	0.03%
RDC	0.01%
Hawaii	0.10%
Maui	0.05%
Kauai	0.03%
State of Hawaii average	0.04%

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TEXT TO 911 – CURRENT MONTH – DECEMBER 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 at Police	Received at 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	15	0
December	35	3
YTD	275	29
Monthly Avg.	22.92	2.42

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WIRELESS PSAP TESTING – DECEMBER 2019

HAWAII COUNTY - DECEMBER 2019						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:
12/11/19	Sprint	1	2	Hawaii PSAP	Pass	
12/11/19	Verizon	1	4	Hawaii PSAP	Pass	
12/11/19	Sprint	1	1	Hawaii PSAP	Pass	

NOTES:

- There were three (3) scheduled Wireless 911 Test for the month of December 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.

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – DECEMBER 2019

HAWAII COUNTY	9-1-1 TRANSACTIONS								Customer Addresses Affected
	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Submitted		Open ALI Discrepancy Records			
				TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	
2019		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	
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	209	179	23	2	5	416	0	0	204
DECEMBER	223	213	4	5	1	340	0	0	7
TOTAL YTD	2,042	1,611	215	175	41	3,598	0	0	1,358
AVG PER MONTH	170	134	18	15	3	300	0	0	113

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. These "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 **223** MSAG transactions were processed in 9-1-1 Net during the current month. Four (**4**) requests were processed relating to the MSAG database. Changes include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS and Military response areas, and inserting new MSAG records.

There were **7** customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

Five (**5**) 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.

One (**1**) VoIP Dr was submitted as a result of a 9-1-1 call from a business in Kailua Kona.

Akimeka submitted two hundred and thirteen (**213**) TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 340 Open TN CR Transactions.**
- **Refer to chart in the next section “TNCR Current Status”**

340 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 West for correction, it is verified against HT records and/or by the customer. West'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 340 Referred records.

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

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – DECEMBER 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	340	51	265	24

STATUS
<u>TOTAL TNCRs SUBMITTED</u> - The total number of TNCR requests for modification that have been submitted in 9-1-1 NET.
<u>PENDING STATUS</u> - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.
<u>REFERRED STATUS</u> - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and the request requires additional information to validate. The Intrado Data Analysts assigns this status to a TNCR and the request is referred to the telephone service providers for further research.
<u>TOTAL UNOPENED TNCR RECORDS STATUS</u> - The request is submitted by 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 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 **5,598** Dispatchable Locations processed to date. There were **213** Dispatchable locations submitted and **175** were processed in December 2019.

Dispatchable Location			
2019	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**
Quarter 4			
Quarter 3 Carryover		5,665	5,171
October	Four Seasons Hualalai, 720100 Kaupulehu Dr, Kailua Kona	0	35
	Hilton Waikoloa, 690425 Waikoloa Beach Dr, Waikoloa	110	110
	Kings' Shops, 690250 Waikoloa Beach Dr, Waikoloa	23	20
	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	Queen Market Place, 690201 Waikoloa Beach Dr, Waikoloa	0	21
	Waimea Center, 651158 Mamalahoa Hwy, Kamuela	0	62
	Kings' Shops, 690250 Waikoloa Beach Dr, Waikoloa	0	1
	Matsuyama Food Market, 734353 Hawaii Belt Rd, Kailua Kona	8	0
	Crossroads of Kona, Henry St (multi business), Kailua Kona	171	1
December	Matsuyama Food Market, 734353 Hawaii Belt Rd, Kailua Kona	0	8
	Crossroads of Kona, Henry St (multi business), Kailua Kona	141	162
	Kailua Kona Public Library, 750138 Hualalai Rd, Kailua Kona	6	0
	Waterfront Row Shopping Center, 755770 Alii Dr., Kailua Kona	16	0
	Kona Alii, 755782 Kuakini Hwy, Kailua Kona	32	4
	Alii Sunset Plaza, 755799 Alii Dr, Kailua Kona	18	1
Q4 Total		614	427
Total		6,279	5,598

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - DECEMBER 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					
PSAP	TOTAL RECORDS SUBMITTED BY SPECTRUM (A)	TOTAL RECORDS MATCHING & VERIFIED WITH 911 DATABASES (B)	TOTAL RECORDS NOT MATCHING	NON MATCHING RECORDS CORRECTED BY 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

** 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)	Verification Process Completed.

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BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – DECEMBER 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 VoIP Database Verification Project **(Updated)					
PSAP	TOTAL RECORDS SUBMITTED BY BANDWIDTH (A)	TOTAL NEW RECORDS VERIFIED WITH 911 DATABASES (B)	TOTAL RECORDS NOT MATCHING	NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)	PERCENT COMPLETED
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 Civilian	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**

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

(A)	VoIP Database records submitted by Bandwidth 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 Bandwidth. 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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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – DECEMBER 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	GIS Delivery Dates/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/17/19 To 12/30/19	Delivered 12/31/2019
		Corrected spatial for nine (9) records in Kamuela
		Corrected TMK for two (2) records in Waikoloa
		Corrected TMK for eleven (11) records in Mountain View
		Corrected spatial and corrected TMK for one (1) record in Mountain View
		Corrected spatial for five (5) records in Kailua Kona
		Corrected TMK for three (3) records in Hilo
		Corrected spatial for one hundred (100) records in Mountain View
		Corrected spatial and updated routingID for one (1) record in Mountain View
		Corrected spatial for two (2) records in Kurtistown
		Corrected spatial for one (1) record in Volcano
		Corrected spatial for one (1) record in Waikoloa
		Corrected spatial for eight (8) records in Hilo
	12/3/19 To 12/16/19	Delivered 12/17/2019
		Added address for three (3) records in Honokaa
		Added address for five (5) records in Naalehu
		Added address for eleven (11) records in Pahoa
		Added pseudo address for one (1) record in Kurtistown
		Added address for two (2) records in Pepeekeo
		Corrected TMK, added alias for one (1) record in Laupahoehoe
		Corrected spatial and updated routingID for one (1) record in Laupahoehoe
		Added address for ten (10) records in Mountain View
		Added address for three (3) records in Captain Cook
		Corrected spatial for eleven (11) records in Kurtistown
		Added alias for one (1) record in Laupahoehoe
		Corrected TMK for one (1) record in Ocean View
		Added address for one (1) record in Papaikou
		Added address for eight (8) records in Volcano
		Corrected spatial for two (2) records in Papaaloa
		Updated location name and updated routingID, updated website, updated phone, corrected spatial for one (1) record in Naalehu
		Corrected spatial for eight (8) records in Ookala
		Corrected spatial for ten (10) records in Kailua Kona
		Added new address for one (1) record in Ocean View

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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	GIS Delivery Dates/Remarks	
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	12/3/19 To 12/16/19	Updated address for one (1) record in Ninole	
		Updated routingID for two (2) records in Mountain View	
		Updated routingID for two (2) records in Naalehu	
		Corrected zipcode, for one (1) record in Ocean View	
		Corrected spatial and updated routingID for thirty-two (32) records in Naalehu	
		Updated address for thirty-six (36) records in Kamuela	
		Verified address for one (1) record in Kurtistown	
		Corrected zipcode for three (3) records in Ocean View	
		Corrected spatial for three (3) records in Pepeekeo	
		Added address for ten (10) records in Hilo	
		Added address for one (1) record in Ookala	
		Corrected spatial for twenty-one (21) records in Kealakekua	
		Corrected spatial for five (5) records in Honokaa	
		Corrected spatial for two (2) records in Captain Cook	
		Added address for ten (10) records in Kailua Kona	
		Corrected spatial for eight (8) records in Ocean View	
		Added address for one (1) record in Waikoloa	
		Corrected spatial and updated routingID for one (1) record in Pepeekeo	
		Corrected TMK for one (1) record in Kurtistown	
		Corrected spatial for one (1) record in Hilo	
		Added address for thirteen (13) records in Keaau	
		Corrected spatial for two (2) records in Naalehu	
		Added address for two (2) records in Kapaau	
		Corrected spatial for five (5) records in Laupahoehoe	
		Corrected zipcode, added address point for three (3) records in Ocean View	
		Added address for one (1) record in Kamuela	
		Added address for one (1) record in Paauilo	
		Added address for eight (8) records in Ocean View	
	Added address for six (6) records in Kurtistown		
	Updated routingID and added address for one (1) record in Pahoa		
	Updated island, county, added address point for one (1) record in Ocean View		
	12/1/19 To 12/2/19	Delivered 12/3/2019	
		Corrected spatial for one (1) record in Pahala	
		Corrected spatial for six (6) records in Mountain View	

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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	GIS Delivery Dates/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	12/1/19 To 12/2/19	Corrected spatial and corrected TMK for one (1) record in Kurtistown
		Corrected TMK for one (1) record in Mountain View
		Corrected spatial for three (3) records in Kurtistown
Airports		
Bridges		
Building Footprints		
Bus Stops		
Churches		
Coastal Names		
Coastline		
Common Places		
Correctional Facilities		
Emergency Callboxes		
Emergency Operation Centers		
Emergency Shelters		
ESZ/ESN		
Fire Beats		
Fire Districts		
Fire Response Areas		
Fire Stations		
Food & Beverage		
Gas Stations		
Gate Codes		
Government Buildings		
Harbors		
Helipads		
Hiking Trails		
Hospitals		
Hydrants		
Hyrdology Layers		
Incident Response Areas		
Lodging		
Major Roads		

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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		
Type of Layer	Akimeka GIS Server	GIS Delivery Dates/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Medic Beats		
Medic Districts		
Medic Response Areas		
Medic Stations		
Medical Facilities		
Milepost Markers		
MSAG Communities		
Net Junctions		
Ocean Rescue Boundaries		
Ocean Safety		
Parcels		
Parks		
Parks Polygon		
Points of Interest		
Police Beats		
Police Districts		
Police Response Areas		
Police Stations		
Post Offices		
Schools		
Street Centerlines	12/17/19 To 12/30/19	Delivered 12/31/2019
		Added segment for two (2) records in Holualoa
		Added extension segment for one (1) record in Honokaa
		Split segment for and updated range for four (4) records in Holualoa
		Updated street name for one (1) record in Holualoa
	12/3/19 To 12/16/19	Corrected spatial for one (1) record in Honokaa
		Delivered 12/17/2019
		Updated police, corrected spatial, corrected police, corrected MSAG community for two (2) records in Kealakekua
		Updated range for one (1) record in Kapaau
		Updated range for one (1) record in Holualoa
		Corrected spatial, valid overlap for one (1) record in Kamuela
		Corrected spatial for one (1) record in Kealakekua

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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	GIS Delivery Dates/Remarks
	Date Created/ Edits Performed	
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Street Centerlines	12/3/19 To 12/16/19	Updated range for one (1) record in Papaikou
		Removed street name and updated range for one (1) record in Keauhou
		Extended segment one (1) record in Volcano
		Added segment for one (1) record in Captain Cook
		Removed street name for one (1) record in Keauhou
		Updated range for three (3) records in Ninole
		Split segment for and updated range for one (1) record in Kamuela
		Updated range for five (5) records in Hilo
		Updated range for three (3) records in Kamuela
		Corrected MSAGcommunity right and left for one (1) record in Holualoa
		Updated range for two (2) records in Keauhou
		Updated range for one (1) record in Kealahou
Merged segments and updated range for one (1) record in Keaau		
Subdivisions		
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		
WSP Cell Sectors	12/17/19 To 12/30/19	Delivered 12/31/2019
		Added six (6) sectors per AT&T CRS
	12/3/19 To 12/16/19	Delivered 12/17/2019
		Added twenty-two (22) sectors per AT&T CRS
WSP Cell Towers	12/17/19 To 12/30/19	Delivered 12/31/2019
		Added one (1) tower per AT&T CRS
		Updated one (1) tower per AT&T CRS
	12/3/19 To 12/16/19	Delivered 12/17/2019
Updated seven (7) towers per AT&T CRS		
12/1/19 To 12/2/19	Delivered 12/3/2019	
	Updated one (1) tower per Sprint CRS	

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GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

GIS KEY ACTIVITIES/UPDATES

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

Date	Key Activities/Updates
12/31/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, ESN, and MSAG Communities, MedicResponseAreas, FireResponseAreas for Hawaii County Mapflex
12/31/2019	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) for Hawaii County Spillman.
12/17/2019	Delivered Address Points, 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.
12/17/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, Fire Hydrants for Hawaii County MapFlex.
12/3/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, ESN, and MSAG Communities, Fire Hydrants, MedicResponseAreas, FireResponseAreas for Hawaii County Mapflex
12/3/2019	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.

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.

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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 **December 12, 2019**. A new compare process was developed by Akimeka to perform this analysis.

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	94	
Addresses Removed	6	
Address Street Name Changes	1	
Address Street Number Changes	0	
New Street Segments Added		1
Street Segments Removed		0
Street Segment Range Changes		8
Street Segment Name Changes		2

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.

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.

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MAPFLEX SYSTEM

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

Hawaii County – December 3rd, 2019, December 17th, 2019, and December 31st, 2019

Maui County – December 4th, December 18th, 2019, and December 31st, 2019

Kauai County – December 5th, 2019, and December 29th, 2019

Honolulu – December 6th, 2019, and December 20th, 2019

MAPFLEX ISSUES

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.
5/17/2017	VoIP Calls Plotting Incorrectly	Recognized in late April and early May 2017, the PSAPs have been receiving several VoIP calls which are plotting in the incorrect locations. After further research it was determined that it is because MapFlex is configured to plot 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.	Partially Resolved – the Lat/Longs are no longer being plotted in MapFlex due to a software release.

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5/17/2017	Landline Calls Producing X/Y on calls	It was determined that for normal landline calls, the X/Y coordinates are being sent. The PSAPs have asked where these are being generated and why would they be sent for landline calls.	Intrado is looking into this (May - June 2017)
5/23/2018	Phase I & Phase II coverage area	Phase I calls received at the Kihei Maui PSAP are displaying a circular circumference area rather than a cone shaped directional coverage. Phase II calls are not plotting the COF meters correctly.	Pending
5/24/2018	Incorrect Addresses	MapFlex system began displaying incorrect addresses in the bubble display when an Address Point is right mouse clicked to see information by the PSAPs. However, the address in the data is still correct as shown on the left hand side.	Pending
6/27/2018	Moving Labels	It was brought up during the PSAP teleconference with 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.	Pending

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – DECEMBER 2019

#	Date	Ticket #	Description	PSAP	Urgency	Comments
1	9/30/2019	1014	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from DL-911All@centurylink.com 12/31/2019 JBC
2	10/3/2019	1015	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from DL-911All@centurylink.com 12/31/2019 JBC
3	11/6/2019	1019	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 12/31/2019 JBC
4	11/8/2019	1020	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 12/31/2019 JBC
5	11/8/2019	1021	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Time Warner Cable 12/31/2019 JBC
6	12/19/2019	1023	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Inteliquent.com 12/31/2019 JBC

Note* There are six (6) opened service request pending for December 2019.

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

HAWAII COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2019	TOTAL		Open	WIREDLINE		WIRELESS		VoIP	
	Created	Closed		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	5	8	9	1	1	0	0	4	7
December	1	4	6	0	0	0	0	1	4
TOTAL	41	35	6	17	17	0	0	23	17

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.

Definitions:

Category

Description

Wireline

Telephone Number (ALI) Discrepancies from land line phones that have been submitted to Intrado via 9-1-1 Net for correction.

Wireless

Telephone Number (ALI) Discrepancies from phones that were land lines at one time, and were ported out to a wireless carrier. However, the phone number was never removed from the MSAG database.

VoIP

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

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5. E9-1-1 DATABASE SYNCHRONIZATION

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

Next Scheduled Database Synchronization – February 2020

AUDIT SUMMARY RESULTS – FEBRUARY 2020 - TBA

AUDIT SUMMARY RESULTS COMPARISION – FEBRUARY 1, 2020 VS NOVEMBER 1, 2019 - TBA

AUDIT SUMMARY RESULTS – TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT - TBA