

Kauai County E9-1-1 Status Report

December 1, 2018 – December 31, 2018



AKIMEKA | HIGH PRIORITY. HIGH IMPACT.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

TABLE OF CONTENTS

1. PSAP Operations	4
9-1-1 Call Volume – December 2018.....	4
9-1-1 Call Volume – Calendar Year 2018	4
PSAP Operation Notes:.....	4
For Your Information.....	5
Text to 911 – Current Month – December 2018	5
Note:	5
Wireless PSAP Testing – December 2018.....	6
Notes:	6
2. MSAG (Master Street Address Guide)	7
MSAG Transactions Current Month/Year – December 2018.....	7
MSAG Current Month Notes:	8
Telephone Record (ALI) Transactions Current Month Notes:.....	8
Open Telephone Record (ALI) Discrepancy Status:.....	8
TNCR (Telephone Number Change Request) Current Status – December, 2018	9
Note:	9
Dispatchable Location – Status As Of – December 2018.....	10
Narrative:	10
Spectrum (Charter) 9-1-1 VoIP Database Verification Project - December 2018	11
Bandwidth 9-1-1 VoIP Database Verification Project – December 2018.....	12

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

3. Geographic Information System (GIS) – December 2018.....	13
Mapping Layers Updated (Part I)	13
Mapping Layers Updated (Part II)	14
Mapping Layers Updated (Part III).....	15
Mapping Layers Updated (Part IV).....	16
Mapping Layers Updated (Part V).....	17
Note:	17
Geographic Information System (GIS) Narratives	18
GIS Key Activities/Updates.....	18
Spillman Project.....	18
MapFlex System	19
MapFlex Issues	19
DATE.....	19
ISSUE.....	19
DESCRIPTION	19
STATUS.....	19
Open Service Requests – December 2018	21
Note:	21
Service Request Year-to-Date (YTD) Summary – 2018.....	21
5. E9-1-1 Database Synchronization.....	22
Audit Summary Results – 2018 - 2019 -- TBA	22
Audit Summary Results – January 1, 2019 MSAG vs. October 1, 2018 MSAG -- TBA	22
Invalid MSAG Streets and Address Ranges – ESN X99 Records -- TBA.....	22
Automatic Location Identification (ALI) Database Discrepancies -- TBA	22

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

1. PSAP OPERATIONS

9-1-1 CALL VOLUME – DECEMBER 2018

(Source :) West Safety Services Viper system

9-1-1 Call Volume																	
KAUAI PSAP		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2018	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
Dec	4,826	506	10.48%	3,428	71.03%	46.24%	53.76%	154	3.19%	1	0.02%	0	0.00%	737	15.27%	0	0.00%

9-1-1 CALL VOLUME – CALENDAR YEAR 2018

9-1-1 Call Volume																	
KAUAI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2018	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
JAN	4,613	664	14.39%	3,054	66.20%	46.43%	53.57%	157	3.40%	5	0.11%	0	0.00%	733	15.89%	0	0.00%
FEB	1,757	242	13.77%	1,211	68.92%	43.27%	56.73%	54	3.07%	0	0.00%	0	0.00%	250	14.23%	0	0.00%
MAR	4,632	682	14.72%	3,094	66.80%	46.57%	53.43%	146	3.15%	14	0.30%	0	0.00%	696	15.03%	0	0.00%
APR	4,519	600	13.28%	3,086	68.29%	43.03%	56.97%	173	3.83%	5	0.11%	0	0.00%	655	14.49%	0	0.00%
MAY	4,406	560	12.71%	3,010	68.32%	43.16%	56.84%	144	3.27%	8	0.18%	0	0.00%	684	15.52%	0	0.00%
JUNE	4,512	559	12.39%	3,107	68.86%	44.90%	55.10%	169	3.75%	8	0.18%	0	0.00%	669	14.83%	0	0.00%
JULY	4,922	620	12.60%	3,347	68.00%	48.73%	51.27%	173	3.51%	6	0.12%	0	0.00%	776	15.77%	0	0.00%
AUG	4,622	553	11.96%	3,196	69.15%	45.99%	54.01%	170	3.68%	7	0.15%	0	0.00%	696	15.06%	0	0.00%
SEPT	4,458	497	11.15%	3,130	70.21%	50.29%	49.71%	150	3.36%	5	0.11%	0	0.00%	676	15.16%	0	0.00%
OCT	4,514	501	11.10%	3,149	69.76%	43.63%	56.37%	138	3.06%	3	0.07%	0	0.00%	723	16.02%	0	0.00%
NOV	4,842	501	10.35%	3,491	72.10%	46.83%	53.17%	151	3.12%	4	0.08%	0	0.00%	695	14.35%	0	0.00%
DEC	4,826	506	10.48%	3,428	71.03%	46.24%	53.76%	154	3.19%	1	0.02%	0	0.00%	737	15.27%	0	0.00%
YTD	52,623	6,485		36,303				1779		66		0		7,990		0	
MON AVG	4,385	540	12.41%	3,025	68.97%	45.76%	54.24%	148	3.37%	6	0.12%	0	0.00%	666	15.14%	0	0.00%

PSAP OPERATION NOTES:

- Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.
- Abandoned Calls are included in the total Wireline and Wireless counts respectively.
- All VoIP (Voice over Internet Protocol) type of 911 calls is combined in the Call Volume statistic.
- 911 Calls with No Ali for December 2018 = 0.02% - Statewide average for 2018 = 0.09%

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

FOR YOUR INFORMATION

FYI.....For Your Information								
PSAP Operations								
Statewide 911 Call Volumes								
PSAP	2018		2017		2016		2015	
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	52,623	3.60%	49,902	3.52%	50,955	3.63%	56,874	3.96%
Total	1,464,398	100.00%	1,417,487	100.00%	1,402,759	100.00%	1,436,996	100.00%
<small>*2016 & 2015 Statewide average does not include Military 911 calls</small>								

TEXT TO 911 – CURRENT MONTH – DECEMBER 2018

TEXT TO 911 Kauai County 2018	
Month	Total received
January	3
February	0
March	1
April	12
May	7
June	10
July	7
August	8
September	10
October	8
November	6
December	6
YTD	78
Monthly Avg.	6.5

State of Hawaii 2018	
TEXT TO 911	
Oahu Civilian	1,660
RDC Pearl Harbor	77
Hawaii County	289
Maui County	224
Kauai County	78
*Total	2,328
<small>*Totals may include PSAP training, testing, and 911 Texting errors</small>	

NOTE:

- 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.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

WIRELESS PSAP TESTING – DECEMBER 2018

KAUAI COUNTY - DECEMBER 2018						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:
12/13/2018	Verizon	1	1	Kauai PSAP	Pass	CDMA Test

NOTES:

- There was one (1) scheduled Wireless 911 test for the month of December 2018.
- Verizon Wireless has completed migrating their Wireless network database from West to ComTech.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – DECEMBER 2018

KAUAI COUNTY	9-1-1 TRANSACTIONS								
	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Submitted		Open ALI Discrepancy Records			Customer Addresses Affected
		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	
2018									
JANUARY	353	347	6	0	0	22	0	0	355
FEBRUARY	168	166	1	0	1	6	0	0	202
MARCH	270	261	9	0	0	77	0	0	285
APRIL	124	118	6	0	0	65	0	0	105
MAY	115	107	8	0	0	102	0	0	100
JUNE	107	101	6	0	0	170	0	0	57
JULY	107	95	12	0	0	163	0	0	153
AUGUST	128	127	1	0	0	203	0	0	97
SEPTEMBER	156	155	1	0	0	308	0	0	74
OCTOBER	192	191	1	0	0	461	0	0	103
NOVEMBER	327	327	0	0	0	119	0	0	0
DECEMBER	53	52	0	0	1	85	0	0	86
TOTAL YTD	2,100	2,047	51	0	2				1,617
AVG PER MONTH	175	171	4	0	0				135

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 499 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.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MSAG CURRENT MONTH NOTES:

A total of **53** MSAG transactions were processed in 9-1-1 Net during the current month. Changes include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS, and inserting new MSAG records.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

Akimeka processed **52** TN CRs related to the Dispatchable Location Project during the current month. In July, Akimeka began processing Dispatchable Location for commercial and business sites, starting in Lihue, working clockwise around the island and continued working in Lihue throughout the month of December. This progress will be updated in the Dispatchable Location chart each month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 85 Open TN CRs.**

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

- **There are currently no Open ALI-DRs as of December 31, 2018**
- **There are currently no Open VoIP DRs as of December 31, 2018**

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – DECEMBER, 2018

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 West Safety Services 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 AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY WEST SAFETY SERVICES	OPENED TNCRS REFERRED TO TELCO BY WEST SAFETY SERVICES	TOTAL UNOPENED TNCR RECORDS
KAUAI	85	1	31	53

STATUS
<u>TOTAL TNCRS SUBMITTED</u> - The total number of TNCR requests for modification that have been submitted in 9-1-1
<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 West Safety Services 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.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

DISPATCHABLE LOCATION – STATUS AS OF – DECEMBER 2018

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 August 2015, Akimeka started a pilot project, entering additional location information to a verified MSAG address with multiple telephone numbers. Specifically the **Kukui Grove Center at 302600 Kaumualii Hwy, Lihue**. The “Dispatchable Location” data is entered into the “Driving Directions” field in the 9-1-1 Net system, and will display on the Viper Power 911 ALI Screen in the “Exact” field should a 911 call be received from that telephone number. **52** transactions were submitted and **17** transactions were processed by West in December 2018.

Dispatchable Location			
2018	Common Name Place MSAG Address	TNCR Transactions Submitted	Transactions Processed
Quarter 4			
Quarter 3 Carryover		3056	2786
October	Multiple Business, Aukele St, Lihue	138	0
	Multiple Business, Peleke St, Lihue	53	0
November	Multiple Business, Aukele St, Lihue	49	161
	Multiple Business, Hoolako St, Lihue	3	51
	Multiple Business, Peleke St, Lihue	10	40
	Hale Pumehana Bldg, 3083 Akahi St, Lihue	1	2
	Multiple Business, 4442 Hardy St, Lihue	1	2
	Multiple Business, 303100 Kuhio Hwy, Lihue	0	15
	Multiple Business, 303215 Kuhio Hwy, Lihue	0	3
	Multiple Business, 303218, 303222 Kuhio Hwy, Lihue	0	5
	Kmart, 4303 Nawiliwili Rd, Lihue	1	4
	Multiple Business, 303227 Kuhio Hwy, Lihue	2	2
	Kalaheo School 4400 Maka Rd, Kalaheo	12	0
	Walmart, 303300 Kuhio Hwy, Lihue	20	0
	Island School, 301875 Kaumualii Hwy, Puhi	5	0
	Ching Young Village, 505190 Kuhio Hwy, Hanalei	3	0
Multiple Business, Rice St, Lihue	10	42	
December	Multiple Business, Aukele St, Lihue	21	0
	Multiple Business, Hoolako St, Lihue	3	1
	Ching Young Village, 505190 Kuhio Hwy, Hanalei	3	2
	Kalaheo School 4400 Maka Rd, Kalaheo	12	0
	Island School, 301875 Kaumualii Hwy, Puhi	0	9
	Multiple Business, Peleke St, Lihue	8	0
Multiple Business, Rice St, Lihue	5	5	
Quarter 4 Total		360	344
Total		3416	3130

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - DECEMBER 2018

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.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – DECEMBER 2018

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.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – DECEMBER 2018

MAPPING LAYERS UPDATED (PART I)

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

KAUAI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Address Points	12/31/2018		Spatially corrected one (1) address in Wailua	
	12/31/2018		Changed Location Name for one (1) address in Wailua	
	12/31/2018		Added Location Name for one (1) address in Waipouli	
	12/31/2018		Removed Location Name for one (1) address in Anahola	
	12/24/2018		Spatially corrected five (5) address points in Kapaa	
	12/24/2018		Spatially corrected forty-two (42) address points in Puhii	
		12/20/18		
	12/20/2018		Corrected ESN for one (1) address in Kapaa	
	12/20/2018		Spatially corrected two (2) address points in Kapaa	
	12/19/2018		Spatially corrected one (1) address point in Hanamaulu	
	12/19/2018		Spatially corrected two (2) address points in Omaa	
	12/19/2018		Spatially corrected ten (10) address points in Kapaa	
	12/18/2018		Spatially corrected nineteen (19) address points in Kukuiula	
	12/18/2018		Spatially corrected four (4) address points in Kalaheo	
	12/13/2018		Spatially corrected three (3) address points in Lawai	
	12/13/2018		Spatially corrected nineteen (19) address points in Kalaheo	
	12/12/2018		Corrected ESN for eight (8) addresses in Anahola	
	12/12/2018		Corrected ESN for four (4) addresses in Eleele	
	12/12/2018		Corrected ESN for three (3) addresses in Hanamaulu	
	12/12/2018		Corrected ESN for six (6) addresses in Kalaheo	
	12/12/2018		Spatially corrected one (1) address in Kalaheo	
	12/12/2018		Corrected ESN for fifteen (15) addresses in Kapaa	
	12/12/2018		Corrected ESN for two (2) addresses in Kealia	
	12/12/2018		Corrected ESN for one (1) address in Kekaha	
	12/12/2018		Corrected ESN for two (2) addresses in Kilauea	
	12/12/2018		Corrected MSAG Community for one (1) address in Kilauea	
	12/12/2018		Corrected ESN for three (3) addresses in Kipu	
	12/12/2018		Corrected ESN for two (2) addresses in Koloa	
	12/12/2018		Corrected ESN for one (1) address in Kukuiula	
	12/12/2018		Spatially corrected thirteen (13) address points in Kukuiula	
12/12/2018		Corrected ESN for two (2) addresses in Lawai		
12/12/2018		Corrected MSAG Community for two (2) addresses in Lawai		

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MAPPING LAYERS UPDATED (PART II)

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

KAUAI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Address Points	12/12/2018		Corrected ESN for three (3) addresses in Lihue	
	12/12/2018		Corrected MSAG Community for one (1) address in Mana	
	12/12/2018		Corrected MSAG Community for one (1) address in Moloaa	
	12/12/2018		Corrected ESN for one (1) address in Puhi	
	12/12/2018		Corrected MSAG Community for one (1) address in Puhi	
	12/12/2018		Corrected ESN for two (2) addresses in Nawiliwili	
	12/12/2018		Corrected MSAG Community for one (1) address in Nawiliwili	
	12/12/2018		Spatially corrected one (1) address point in Numila	
	12/12/2018		Corrected ESN for two (2) addresses in Omaa	
	12/12/2018		Corrected ESN for two (2) addresses in Pakala	
	12/12/2018		Corrected ESN for fifteen (15) addresses in Wailua	
	12/12/2018		Spatially corrected one (1) address point in Waimea	
	12/12/2018		Corrected ESN for one (1) address in Wainiha	
	12/12/2018		Corrected ESN for twelve (12) addresses in Waipouli	
		12/06/18		
		12/6/2018		Added one (1) POI address in Koloa
		12/6/2018		Added two (2) POI addresses in Eleele
		12/6/2018		Added one (1) POI address in Kalihiwai
		12/6/2018		Added one (1) POI address in Waimea
		12/6/2018		Added two (2) POI addresses in Wailua
	12/6/2018		Added two (2) POI addresses in Hanapepe	
	12/6/2018		Added one (1) address in Hanapepe	
	12/6/2018		Added Location Name for one (1) address in Hanapepe	
	12/6/2018		Added TMK info for one thousand one hundred sixty-eight (1168) addresses	
Airports				
Bridges				
Building Footprints				
Bus Stops				
Churches				
Coastal Names				
Coastline				

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MAPPING LAYERS UPDATED (PART III)

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

KAUAI COUNTY			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Common Places			
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations			
Food & Beverage	12/31/2018		Updated two (2) restaurant names
Gas Stations			
Gate Codes			
Government Buildings			
Harbors			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hyrdology Layers			
Incident Response Areas			
Lodging			
Major Roads			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			
Medical Facilities			
Milepost Markers			
MSAG Communities		12/20/18	
	12/12/2018		Modified boundary between Lihue and Nawiliwili

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MAPPING LAYERS UPDATED (PART IV)

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

KAUAI COUNTY			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			
Parks Polygon			
Points of Interest	12/31/2018		Added one (1) POI in Wailua
	12/31/2018		Added one (1) POI in Waipouli
		12/20/18	
	12/12/2018		Corrected ESN for five (5) POI in Anahola
	12/12/2018		Corrected ESN for five (5) POI in Eleele
	12/12/2018		Corrected MSAG Community for two (2) POI in Eleele
	12/12/2018		Corrected ESN for one (1) POI in Hanapepe
	12/12/2018		Corrected ESN for five (5) POI in Kalaheo
	12/12/2018		Corrected ESN for one (1) POI in Kalaheo
	12/12/2018		Corrected ESN for sixty-seven (67) POI in Kapaa
	12/12/2018		Corrected MSAG Community for one (1) POI in Kapaa
	12/12/2018		Corrected ESN for two (2) POI in Kapaia
	12/12/2018		Corrected ESN for two (2) POI in Kealia
	12/12/2018		Corrected MSAG Community for one (1) POI in Kealia
	12/12/2018		Corrected ESN for two (2) POI in Kilauea
	12/12/2018		Corrected ESN for two (2) POI in Lihue
	12/12/2018		Corrected ESN for two (2) POI in Pakala
	12/12/2018		Corrected ESN for two (2) POI in Poipu
	12/12/2018		Corrected ESN for three (3) POI in Kipu
	12/12/2018		Corrected ESN for three (3) POI in Koloa
	12/12/2018		Corrected ESN for three (3) POI in Puhii
12/12/2018		Corrected ESN for one (1) POI in Kekaha	
12/12/2018		Corrected ESN for one (1) POI in Mana	
12/12/2018		Corrected ESN for one (1) POI in Moloaa	
12/12/2018		Corrected ESN for one (1) POI in Omaa	
12/12/2018		Corrected MSAG Community for one (1) POI in Moloaa	

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MAPPING LAYERS UPDATED (PART V)

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

KAUAI COUNTY			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Points of Interest	12/12/2018		Corrected ESN for one (1) POI in Waimea
	12/12/2018		Spatially corrected one (1) POI in Waimea
	12/12/2018		Corrected ESN for seventy-two (72) POI in Wailua
	12/12/2018		Corrected MSAG Community for one (1) POI in Wailua
	12/12/2018		Corrected ESN for one (1) POI in Wainiha
	12/12/2018		Corrected ESN for thirty-four (34) POI in Waipouli
Police Beats			
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools			
Street Centerlines	12/24/2018		Partial spatial correction of two (2) street centerline segments in Puhi
	12/24/2018		Spatially corrected four (4) street centerline segments in Puhi
		12/20/18	
	12/19/2018		Partial spatial correction of two (2) street centerline segments in Koloa
	12/19/2018		Spatially corrected two (2) street centerline segments in Koloa
Subdivisions			
Tow Jurisdictions			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		12/20/18	
	12/18/2018		Updated two (2) sectors in the Kauai database per T-Mobile Audit.
WSP Cell Towers			

NOTE:

- The Parcels layer is provided by Kauai County. Akimeka performs edits on the spatial information of the layer for 9-1-1 purposes. Changes to the attribute table are made when needed. The Parcels layer uploaded to the PSAP GIS server is intended for 9-1-1 purposes only and should not be disseminated to other county agencies.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

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
12/6/2018	Delivered updated data for Spillman which included Address Points, Bridges, Common Names, Gas Stations and Street Centerlines
12/6/2018	Delivered updated data for MapFlex which included Address Points, Bridges, Gas Stations, Points Of Interest, Street Centerlines, WSP Cell Sectors and WSP Cell Towers
12/20/2018	Delivered updated data for Spillman which included Address Points, Common Names, MSAG Community and Street Centerlines
12/20/2018	Delivered updated data for MapFlex which included Address Points, Points Of Interest, MSAG Communities, Street Centerlines, WSP Cell Sectors and WSP Cell Towers

SPILLMAN PROJECT

The Kauai County Spillman project is considered consistent and has not had any major issues reported during December 2018.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

MAPFLEX SYSTEM

During the month of December 2018, the MapFlex system received updates manually as a result of MapFlex having several issues pertaining to the automated upload processes.

Considering that the MapFlex initiative being provided by Hawaiian Telecom and sub-contractor, West, was implemented across the State of Hawaii, in the below narrative there is some information pertaining to all of the Hawaiian Islands. For a record of historical information regarding the MapFlex system, please see MSRs during the 2015 through 2017 years.

1. Akimeka delivered GIS data to the MapFlex system on the following dates in December 2018
 - a. **Hawaii County** – December 4th, 2018 and December 18th, 2018
 - b. **Maui County** – December 5th, 2018 and December 19th, 2018
 - c. **Kauai County** – December 6th, 2018, and December 20th, 2018
 - d. **Honolulu** – December 7th, 2018, and December 21st, 2018

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 West, 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 West. West 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 West is aimed to correct this issue.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

5/17/2017	VoIP Calls Plotting Incorrectly	<p>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.</p> <p>During the September 20, 2017 PSAP conference call, HT relayed there was confirmation that the Time Warner records were in fact passing through the West FMCC.</p>	Partially Resolved – the Lat/Longs are no longer being plotted in MapFlex due to a software release.
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.	West 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 West 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

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

OPEN SERVICE REQUESTS – DECEMBER 2018

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

There are no open service requests for December 2018.

SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2018

KAUAI COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2018	TOTAL		Open	WIRELIN		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2017 Carryover*			0						
January	0	0	0	0	0	0	0	0	0
February	1	1	0	0	0	0	0	1	1
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	1	1	0	1	1	0	0	0	0
TOTAL	2	2	0	1	1	0	0	1	1

<u>Note:</u>	* The 2017 Carryover row indicates the number of Service Requests that were opened in 2017; however, were brought forward into 2018 in an effort to track the service request until completion.
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Definitions:	Category	Description
	Wireline	Telephone Number (ALI) Discrepancies from land line phones that have been submitted to West Safety Services 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 Spectrum - Time Warner Cable (TWCBL) for correction.

Kauai County E9-1-1 Status Report

December 1, 2018 - December 31, 2018

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 Database Synchronization Report – January 2019

AUDIT SUMMARY RESULTS – 2018 - 2019 -- TBA

AUDIT SUMMARY RESULTS – JANUARY 1, 2019 MSAG VS. OCTOBER 1, 2018 MSAG -- TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DATABASE DISCREPANCIES -- TBA