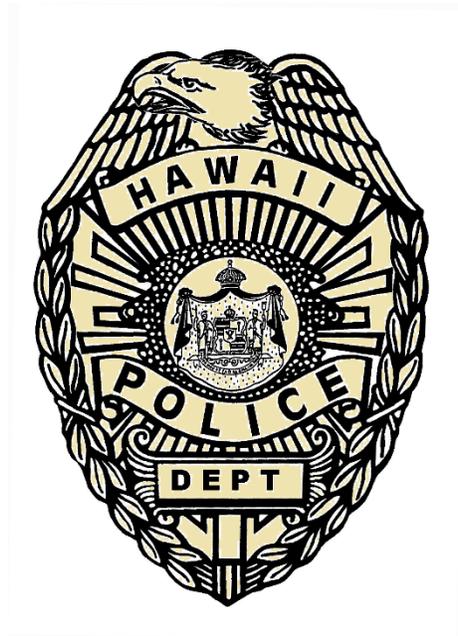


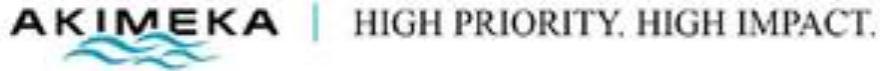
# Hawaii County E9-1-1 Status Report

*March 1, 2018 – March 31, 2018*



# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018



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# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

## 1. PSAP OPERATIONS

### 9-1-1 CALL VOLUME HAWAII COUNTY PSAPS – MARCH 2018

(Source: West Safety Services 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	
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	No. of Other Calls	% of Total Calls
MAR	17,309	3,256	18.81%	11,957	69.08%	44.69%	55.31%	846	4.89%	21	0.12%	0	0.00%	1,229	7.10%	0	0.00%

### CALL VOLUME HAWAII COUNTY PSAP NOTES:

\*The percentage of Wireless Phase 2 calls (55.31%) has surpassed the number of Wireless Phase 1 calls (44.69%) in March 2018.

\*911 Calls with No Ali in March 2018 = 0.12% - Statewide average for 2017 = 0.08%

### 9-1-1 CALL VOLUME – CALENDAR YEAR 2018

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		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	No. of Other Calls	% of Total Calls
JAN	18,334	3,344	18.24%	12,601	68.73%	46.04%	53.96%	874	4.77%	39	0.21%	0	0.00%	1,476	8.05%	0	0.00%
FEB	16,434	2,927	17.81%	11,395	69.34%	44.55%	55.45%	785	4.78%	17	0.10%	0	0.00%	1,310	7.97%	0	0.00%
MAR	17,309	3,256	18.81%	11,957	69.08%	44.69%	55.31%	846	4.89%	21	0.12%	0	0.00%	1,229	7.10%	0	0.00%
APR																	
MAY																	
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	52,077	9,527		35,953				2,505		77		0		4,015		0	
MON AVG	17,359	3,176	18.29%	11,984	69.05%	45.09%	54.91%	835	4.81%	26	0.15%	0	0.00%	1,338	7.71%	0	0.00%

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

### 9-1-1 CALL VOLUME BY AGENCY – MARCH 2018

2018	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
March	14,890	86.02%	0	1,202	0	2,419	13.98%	0	27	0

### 9-1-1 CALL VOLUME BY AGENCY – CALENDAR YEAR 2018

2018	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	14,408	78.59%	0	1,451	0	2,450	13.36%	0	25	0
February	12,884	78.40%	0	1,286	0	2,240	13.63%	0	24	0
March	14,890	86.02%	0	1,202	0	2,419	13.98%	0	27	0
April										
May										
June										
July										
August										
September										
October										
November										
December										
YTD	42,182		0	3,939	0	7,109		0	76	0
MON AVG	14,061	81.00%	0	1,313	0	2,370	13.66%	0	25	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.

# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

FOR YOUR INFORMATION

FYI ..... For Your Information						
PSAP Operations						
Statewide 911 Call Volumes						
PSAP	2017		2016		2015	
Oahu Civilian	1,022,818	72.16%	1,009,059	71.93%	1,019,402	70.94%
RDC Pearl Harbor	27,916	1.97%	N/A	N/A	N/A	N/A
Hawaii County	193,166	13.63%	205,412	14.64%	217,768	15.15%
Maui County	123,685	8.73%	137,333	9.80%	142,952	9.95%
Kauai County	49,902	3.52%	50,955	3.63%	56,874	3.96%
Total	1,417,487	100.00%	1,402,759	100.00%	1,436,997	100.00%

**2016 & 2015 Statewide average does not include Military 911 calls.**

TEXT TO 911 – CURRENT MONTH – MARCH 2018

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 2018		
Month	Received at Police	Received at Fire
January	27	4
February	14	2
March	19	1
April		
May		
June		
July		
August		
September		
October		
November		
December		
YTD	60	7
Monthly Avg.	20.00	2.33

## Hawaii County E9-1-1 Status Report

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### WIRELESS PSAP TESTING – MARCH 2018

HAWAII COUNTY - MARCH 2018						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:

#### NOTES:

- There were no (0) scheduled Wireless 911 Tests for the month of March 2018.
- Verizon Wireless is currently migrating their Wireless network database from West to ComTech.

# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

## 2. MSAG (MASTER STREET ADDRESS GUIDE)

### MSAG TRANSACTIONS CURRENT MONTH/YEAR – MARCH 2018

HAWAII 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	
<b>2018</b>									
JANUARY	243	201	12	25	5	185	0	0	214
FEBRUARY	175	104	15	53	3	161	0	0	190
MARCH	236	133	39	60	4	181	0	0	209
APRIL									
MAY									
JUNE									
JULY									
AUGUST									
SEPTEMBER									
OCTOBER									
NOVEMBER									
DECEMBER									
<b>TOTAL YTD</b>	<b>654</b>	<b>438</b>	<b>66</b>	<b>138</b>	<b>12</b>				<b>613</b>
AVG PER MONTH	218	146	22	46	4				204

### 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.

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

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### MSAG CURRENT MONTH NOTES:

A total of **236** MSAG transactions were processed in 9-1-1 Net during the current month. Thirty-Nine (**39**) 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 **209** customer ANI/ALI (telephone number/address) records updated as a direct result.

### TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

**197** 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. Four (**4**) ALI DRs were submitted as the result of 9-1-1 calls. Three (**3**) calls were made from wireline residential phones in Hilo, Pahoa and Mountain View. One (**1**) call was made from a VoIP business phone in Kailua Kona. Hawaii County Fire Department submitted these change requests to Akimeka to update the customer information and the discrepancy was corrected in 9-1-1 Net.

### OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 181 Open TN CR Transactions.**
- **Refer to chart in the next section “TNCR Current Status”**

**160** 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 160 Referred records.

- **There are currently no Open ALI-DRs.**
- **There are currently no Open VoIP DRs**

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – MARCH 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)				
County	TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY WEST SAFETY SERVICES (INTRADO)	OPENED TNCRS REFERRED TO TELCO BY WEST SAFETY SERVICES (INTRADO)	TOTAL UNOPENED TNCR RECORDS
HAWAII	181	157	23	1

STATUS
<b>TOTAL TNCRs SUBMITTED</b> - The total number of TNCR requests for modification that have been submitted in 9-1-1
<b>PENDING STATUS</b> - 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.
<b>REFERRED STATUS</b> - 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.
<b>TOTAL UNOPENED TNCR RECORDS STATUS</b> - 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.

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

### DISPATCHABLE LOCATION – STATUS AS OF – MARCH 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 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 **3,557** Dispatchable Locations processed to date. There were **133** Dispatchable locations submitted and **112** were processed in March 2018.

Dispatchable Location			
2018	Common Name Place	TNCR*	Transactions
Quarter 1	MSAG Address	Submitted	Processed**
2017 Carryover		3,161	3,131
January	Fairmont Orchid, 681200 N Kaniku Dr, Kamuela	23	12
	Mauna Lani Resort, 681400 Mauna Lani Dr, Kamuela	171	168
	White Sands Village, 776469 Alii Dr, Kailua Kona	7	7
February	Country Club Hilo, 121 Banyan Dr, Hilo	15	15
	Fairmont Orchid, 681200 N Kaniku Dr, Kamuela	0	11
	Hilo Hawaiian Hotel, 71 Banyan Dr, Hilo	53	53
	Hilo Seaside Hotel, 126 Banyan Way, Hilo	5	5
	Mauna Lani Resort, 681400 Mauna Lani Dr, Kamuela	0	12
	Nanihoa Volcanoes Resort, 93 Banyan Dr, Hilo	13	13
	Reeds Bay Hotel, 175 Banyan Dr, Hilo	7	7
Uncle Billys, 87 Banyan Dr, Hilo	11	11	
March	Honaunau Elementary, 835360 Mamalahoa Hwy, Captain Cook	11	11
	Hookena Elementary, 864355 Mamalahoa Hwy, Captain Cook	13	13
	Kahakai Elementary, 760147 Royal Poinciana Dr, Kailua Kona	21	0
	Konawaena Elementary, 810901 Onouli Rd, Kealahkekua	16	16
	Konawaena High, 811043 Konawaena School Rd, Kealahkekua	24	24
	Konawaena Middle, 811045 Konawaena School Rd, Kealahkekua	26	26
	Prince Kuhio Plaza, 111 Puainako St, Hilo	22	22
<b>Total</b>		<b>3,599</b>	<b>3,557</b>
<b>YTD Total</b>		<b>438</b>	<b>426</b>

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

### SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - MARCH 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.

<b>*Spectrum (Charter) 9-1-1 VoIP Database Verification Project</b>					
<b>PSAP</b>	<b>TOTAL RECORDS SUBMITTED BY SPECTRUM (A)</b>	<b>TOTAL RECORDS MATCHING &amp; VERIFIED WITH 911 DATABASES (B)</b>	<b>TOTAL RECORDS NOT MATCHING</b>	<b>NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)</b>	<b>PERCENT COMPLETED</b>
<b>HAWAII County</b>	<b>22,044</b>	<b>21,638 (98%)</b>	<b>406</b>	<b>406</b>	<b>100.00%</b>
<b>KAUAI County</b>	<b>8,936</b>	<b>8,695 (97%)</b>	<b>241</b>	<b>241</b>	<b>100.00%</b>
<b>MAUI County</b>	<b>18,256</b>	<b>17,517 (96%)</b>	<b>739</b>	<b>739</b>	<b>100.00%</b>
<b>OAHU Civilian</b>	<b>87,414</b>	<b>85,329 (98%)</b>	<b>2,085</b>	<b>561</b>	<b>26.91%</b>
<b>OAHU Military</b>	<b>3,663</b>	<b>710 (19%)</b>	<b>2,953</b>	<b>2,848</b>	<b>96.44%</b>
<b>TOTAL</b>	<b>140,313</b>	<b>**133,889</b>	<b>6,424</b>	<b>4,795</b>	<b>84.7%</b>

\* 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.

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

### 3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MARCH 2018

#### 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 GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>				
Address Points	3/30/2018		Added one hundred and thirty three (133) Address Points for Hilo High School Campus.	
	3/30/2018		Spatially Corrected six hundred and twenty six (626) Address Points in Hilo.	
	3/30/2018		Spatially Corrected three hundred and thirty one (331) Address Points in Keaau.	
	3/30/2018		Spatially Corrected fifty six (56) Address Points in Kurtistown.	
	3/29/2018		Spatially Corrected one thousand two hundred and twenty three (1223) Address Points in Hilo.	
	3/29/2018		Added ninety four (94) Address Points for Hilo High School.	
	3/28/2018		Spatially Corrected one thousand three hundred and nine (1309) Address Points in Hilo.	
		<b>03/27/18</b>		
	3/27/2018		Spatially Corrected five hundred and thirty three (533) Address Points in Hilo.	
	3/27/2018		Added one (1) Address Point in Honomu.	
	3/27/2018		Added one (1) Address Point in Captain Cook.	
	3/26/2018		Spatially Corrected seven hundred and seventy (770) Address Points in Hilo.	
	3/23/2018		Spatially Corrected five hundred and eighty (580) Address Points in Hilo.	
	3/22/2018		Updated forty six (46) Lot Numbers for Hawaiian Homelands in Hilo.	
	3/22/2018		Spatially Corrected three hundred and fifty three (353) Address Points in Hilo.	
	3/21/2018		Updated ninety (90) Lot Numbers for Hawaiian Homelands in Hilo.	
	3/20/2018		Updated sixty one (61) Lot Numbers for Hawaiian Homelands in Hilo.	
	3/19/2018		Updated fifty five (55) Lot Numbers for Hawaiian Homelands in Hilo.	
	3/16/2018		Updated thirty five (35) Lot Numbers for Hawaiian Homelands in Hilo.	
	3/16/2018		Updated eight (8) Lot Numbers for Hawaiian Homelands in Honokaa.	
	3/16/2018		Updated thirty eight (38) Lot Numbers for Hawaiian Homelands in Kamuela	
	3/15/2018		Spatially Corrected one hundred and seventy three (173) Address Points in Hilo.	
	3/15/2018		Updated one hundred and ten (110) Lot Numbers for Hawaiian Homelands in Kamuela.	
3/15/2018		Updated two (2) Address Street Names in Kailua Kona.		
3/14/2018		Spatially Corrected four hundred and eighty (480) Address Points in Hilo.		

# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

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 GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Address Points		<b>03/13/18</b>	
	3/13/2018		Updated one (1) Address in Hilo.
	3/12/2018		Spatially Corrected four hundred and ninety two (492) Address Points in Hilo.
	3/12/2018		Updated one (1) Street Name in Paauilo.
	3/9/2018		Added one (1) Address in Honaunau.
	3/9/2018		Added eight (8) Addresses in Pahoa.
	3/9/2018		Added one (1) Address in Kapaa.
	3/9/2018		Added one (1) Address in Kealakekua.
	3/9/2018		Added three (3) Addresses in Kailua Kona.
	3/9/2018		Added eight (8) Addresses in Volcano.
	3/9/2018		Added one (1) Address in Holualoa.
	3/9/2018		Added nine (9) Addresses in Ocean View.
	3/9/2018		Added one (1) Address in Keaau.
	3/9/2018		Added eight (8) Addresses in Hilo.
	3/9/2018		Added three (3) Addresses in Mountain View.
	3/9/2018		Added two (2) Addresses in Kamuela.
	3/9/2018		Added one (1) Address in Honokaa.
	3/9/2018		Added one (1) Address in Pepeekeo.
	3/9/2018		Added seven (7) Addresses in Kurtistown.
	3/9/2018		Added one (1) Address in Paauilo.
	3/9/2018		Added two (2) Addresses in Naalehu.
	3/9/2018		Added one (1) Address in Laupahoehoe.
	3/8/2018		Added fourteen (14) Addresses in Keaau.
	3/8/2018		Added one (1) Address in Honomu.
	3/8/2018		Added ten (10) Addresses in Volcano.
	3/8/2018		Added five (5) Addresses in Kurtistown.
	3/8/2018		Added three (3) Addresses in Naalehu.
	3/8/2018		Added one (1) Address in Kamuela.
	3/8/2018		Added eight (8) Addresses in Hilo.
	3/8/2018		Added two (2) Addresses in Kapaa.
3/8/2018		Added seven (7) Addresses in Pahoa.	
3/8/2018		Added one (1) Address in Paauilo.	

# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

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 GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Address Points	3/8/2018		Added one (1) Address in Mountain View.
	3/8/2018		Added one (1) Address in Hawi.
	3/8/2018		Added six (6) Addresses in Ocean View.
	3/8/2018		Added one (1) Address in Captain Cook.
	3/8/2018		Added forty two (42) Addresses in Waikoloa.
	3/8/2018		Added one (1) Address in Papaikou.
	3/8/2018		Added two (2) Addresses in Kailua Kona.
	3/8/2018		Added one (1) Address in Kealakekua.
	3/8/2018		Added one (1) Address in Pepeekeo.
	3/8/2018		Added one (1) Address in Kamuela.
	3/7/2018		Spatially Corrected three hundred and eighty four (384) Address Points in Hilo.
	3/7/2018		Added one (1) Address in Kamuela.
	3/6/2018		Spatially Corrected four hundred and eighty eight (488) Address Points in Hilo.
	3/5/2018		Updated House Number for one (1) Address in Kailua Kona.
	3/5/2018		Spatially Corrected seven hundred and forty eight (748) Address Points in Hilo.
	3/2/2018		Spatially Corrected two hundred and ninety five (295) Address Points in Hilo.
	3/1/2018		Spatially Corrected two hundred and twenty nine (229) Address Points in Hilo.
3/1/2018		Spatially Corrected three hundred and twenty (320) Address Points in Papaikou.	
Airports			
Bridges			
Building Footprints			
Bus Stops			
Churches			
Coastal Names			
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			

# Hawaii County E9-1-1 Status Report

March 1, 2018 – March 31, 2018

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	Date GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Emergency Shelters			
ESZ/ESN			
Fire Beats	3/1/2018	03/13/18	Added fire beat 21
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			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			
Medical Facilities			
Milepost Markers			
MSAG Communities			
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			

# Hawaii County E9-1-1 Status Report

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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 GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Parks Polygon			
Points of Interest			
Police Beats			
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools			
Street Centerlines		<b>03/27/18</b>	
	3/15/2018		Added one (1) new street in Kailua kona.
	3/15/2018		Split one (1) Segment and updated ranges in Kailua Kona.
		<b>03/13/18</b>	
	3/12/2018		Updated one (1) Range in Pepeekeo.
	3/12/2018		Updated one (1) Range in Holualoa.
	3/12/2018		Updated one (1) Street Name in Paauilo.
	3/12/2018		Added four (4) Streets in Pepeekeo.
	3/12/2018		Added one (1) Street in Holualoa.
	3/12/2018		Split one (1) Segment and updated range in Pepeekeo.
3/12/2018		Split one (1) Segement and updated range in Holualoa.	
3/9/2018		Updated Ranges for two (2) Streets in Kailua Kona.	
Subdivisions			
Tow Jurisdictions			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		<b>03/13/18</b>	
	3/12/2018		Per TMOB CRS
	3/5/2018		Per VZW CRS
WSP Cell Towers		<b>03/13/18</b>	
	3/12/2018		Per TMOB CRS
	3/5/2018		Per VZW CRS

## Hawaii County E9-1-1 Status Report

March 1, 2018 – March 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
3/27/2018	Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, and Common Places for Hawaii Mapflex.
3/27/2018	Address Points, Common Names Alt Table, Display Streets, Fire EMS Zones, First In, Points of Interest, POI Alt Names, Police Zones, Street Centerlines, Street Alt Names, and Street Routes for Hawaii Spillman.
3/13/2018	Completed and updated County Compare documentation for month of March for Hawaii County.
3/13/2018	Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, and Common Places were completed as part of Mapflex Deliverable.
3/13/2018	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, were all updated and delivered for Hawaii County as part of the Spillman Deliverable.

#### 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 Address Points and Street Centerlines layer comparative analysis was completed on the updates received from the Hawai'i County Planning Department on **March 13, 2018**. Results are as follows:

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	166	
Addresses Removed	0	
Address Street Name Changes	3	
Address Street Number Changes	3	
New Street Segments Added		7
Street Segments Removed		0
Street Segment Range Changes		2
Street Segment Name Changes		1

# Hawaii County E9-1-1 Status Report

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## 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.

## POLICE BEAT REVIEW

Each year as part of a data review process, Akimeka conducts a Police Beats review process. During this time, the Police Beats are reviewed with the written descriptions of the Hawaii Police Beat Boundaries, whereby corrections are made to the Police Beat GIS layer where applicable in an effort to synchronize the GIS layer with the written descriptions and provide the 911 centers in Hawaii with a more accurately defined boundary layer which align with operational jurisdictions.

1. Subsequent to the GIS updates that were provided into the CAD/Mapping Systems in September, there have been no requested updates to the Police Beats.
2. During the 2018 year, the annual review process will continue and any identified updates will subsequently be made.

## CAD SYSTEM DEPLOYMENT

The system has not gone live yet but has received regular GIS updates, as scheduled.

1. On September 28, 2017, Akimeka and Spillman held a conference call to discuss some of the items in the training sessions, noted above. There were two key topics discussed; the Street Name searches and an additional item not previously discussed – the ability to search street names with first 5 characters.
  - a. Spillman discussed a workflow they saw being used to make these changes in the GIS. Akimeka reserved a slight hesitation with the workflows because there is room for potential discrepancies for the PSAP. The proposed solution for the Street Names, for instance, requires the creation of a midpoint location on a particular street within a given community. One of the issues with this, is that for several streets in Hawaii County the midpoint will be entirely unrelated to the potential caller’s location, and may add time to the call process.
  - b. Akimeka identified the proposed solution as a potential fix to a system limitation but may only be a partial solution, leaving a potential gap where during a 9-1-1 call the “solution” may not be of help. Akimeka thought it was best to discuss the items in more detail and include HPD for their approval and awareness of the potential risk involved.
2. On October 5, 2017, HPD had asked Akimeka to hold on the requested updates until the system has gone live and they could test it at that point.
3. On October 11, 2017, after Akimeka had provided the GIS data for delivery, Spillman followed up to query if the changes to include the proposed solution were included.
  - a. Akimeka had replied that HPD had asked us not to proceed until further discussed.
  - b. Spillman had questioned the rationale of the decision
4. On October 31, 2017, HPD, HFD, Akimeka, and Spillman held a conference call to further discuss the item.
  - a. Overview of the request and the issue

# Hawaii County E9-1-1 Status Report

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- i. These are almost entirely for non-emergency calls or wireless phase I calls
  - ii. According to Spillman, hardware or software issues may be involved in the transferring of calls from HPD if calls are dropped
  - iii. During traffic stops, officers are often times only giving street names. Issue is that Spillman requires a validated address.
  - iv. Discussion of standards were highlighted. Akimeka is obligated to follow industry standards regarding data accuracy. Similarly Spillman briefed that they are required to follow standards. This proposed solution negates both objectives so neither cannot make the change without HPD approving the request.
  - v. Akimeka briefed that the solution is likely not all encompassing and will likely open other issues not being recognized before put into a live environment. Their focus is on the GIS data accuracy so if the proposed solution accommodates a portion of scenarios but not all of them, there is a concern with it and what those impacts may be.
- b. Address Locator and GIS changes were discussed
- i. The concern with creating a point in the GIS which represents the center of a given street within a particular community was discussed. For streets which are short in length, this proposed solution may suffice. The issue, discussed by Akimeka, is with regards to longer streets which span across an entire community like Mamalahoa Hwy. The extent to which the map will pan, may require the dispatcher to spend a significant time locating within the map, features which can be used for the validated address. Using the street as the validated address will likely cause issues.
  - ii. An additional concern brought forward was that this solution will likely degrade the quality of data being cataloged in RMS. Incidents recorded for just a street name will likely lose some pertinent information on specific addresses.
  - iii. Spillman briefed why their system could not do this natively without modifying the data
    1. Akimeka asked why Spillman is the only CAD or Mapping System in the State that has difficulty with this feature.
- c. Timeline and Next Steps
- i. HPD mentioned that their go-live date is in one (1) month so if any changes are needed, there is a compressed timeline.
    1. Akimeka briefed that if this is desired and approved by HPD, we would make sure it is finished beforehand.
  - ii. Spillman was asked for references of other PSAPs which have implemented this solution so that they can be asked of its use case and any potential issues.
  - iii. During the call there was a verbal approval from HPD for Akimeka to move forward with the proposed solution, which could later be tested by HPD and HFD.
  - iv. Agreement was made to hold off on the 5 character street name aliases until the first item could be looked at.
5. On November 7, 2017 Akimeka and Spillman held a quick conference call to verify the requirements of the proposed modification. All information was captured and Akimeka prepared the data shortly after the meeting.
  6. During November, there were no PSAP references provided to ensure this fix works properly so the modification was asked not to be provided until that occurs.
  7. On January 23, 2018, a request was made from Hilo Fire to Akimeka for Water Response Areas to be added for the Spillman CAD.
    - a. Akimeka provided HFD with the correspondence with Spillman from October 21, 2016 where the requested layers were provided during the installation/configuration period. Akimeka was unsure why the data was never configured for HFD but prepared a newer dataset to be delivered to Spillman.
      - i. The Water Response Areas were sent to Spillman on January 31, 2018.

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- ii. One item which Akimeka had recommended was that a revision to the Zone Codes will likely need to be made so that the boundaries are distinct in CAD and the proper equipment can be configured for recommendations. HFD and Akimeka will likely be coordinating during February 2018 on this.
- 8. On February 13, 2018 the HPD leadership and Akimeka met to further discuss the proposed street search modification.
  - a. It was agreed that testing the system to accept various classes of service into CAD would be a good initial test to see if the search were needed. Akimeka agreed to be on site to help in the testing. The meeting is tentatively scheduled in March 2018.
- 9. On February 14, 2018 Akimeka ran a computer simulation of several streets to represent how the Spillman will pull recommendations using the proposed street search modification. As they had briefed, the results indicated a potentially large discrepancy with how recommendations may be provided.
- 10. On March 29, 2018, representatives from HPD, HFD, Akimeka, and Spillman met to discuss the potential for modifying the GIS by adding a point to the center of the street segment. Akimeka expressed their concerns with modifying the GIS data outside of the 9-1-1 GIS data model, and the NG911 Data model as NENA Standards directs. At the end of the meeting, Akimeka recommended against the requested change by Spillman, and the decision was accepted by those in attendance at the meeting. The end-to-end testing of the Spillman CAD unit recommendations feature was also postponed. During the meeting, these items were discussed and will require further investigation:
  - a. It was introduced that the Spillman CAD mapping system can now display a Phase I wireless 9-1-1 call. Although the Spillman CAD plots the location of the Tower site, the Spillman CAD does not display the theoretical coverage area of the potential 9-1-1 wireless caller. Because of this, Mr. Ramirez of Akimeka explained that the West MapFlex 911 mapping system is utilized to “locate” wireless 9-1-1 callers, and the Spillman CAD GIS function is to “validate” the location.
  - b. A discussion took place regarding enhanced GIS Training. Mr. Ramirez offered to establish a GIS webinar training session to focus on utilizing advanced GIS search functions to assist in locating wireless 9-1-1 callers.
  - c. A discussion took place regarding the Dispatch Supervisors from Hawaii Police and Hawaii Fire to visit the Kauai PSAP to observe the Spillman CAD in a live environment and to talk to dispatchers from Kauai on the operation of the system.

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### MAPFLEX SYSTEM

During the month of March 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 March 2018
  - a. **Hawaii County** – March 13<sup>th</sup>, 2018 and March 27<sup>th</sup>, 2018
  - b. **Maui County** – March 14<sup>th</sup>, 2018 and March 28<sup>th</sup>, 2018
  - c. **Kauai County** – March 1<sup>st</sup>, 2018, March 15<sup>th</sup>, 2018, and March 29<sup>th</sup>, 2018
  - d. **Honolulu** – March 2<sup>nd</sup>, 2018, March 16<sup>th</sup>, 2018, and March 30<sup>th</sup>, 2018

## Hawaii County E9-1-1 Status Report

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### 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.
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 West FMCC.	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)

## Hawaii County E9-1-1 Status Report

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### 4. SERVICE REQUESTS TRANSACTIONS

#### OPEN SERVICE REQUESTS – MARCH 2018

#	Date	Ticket #	Description	PSAP	Urgency	Comments
			None			

Note\* There are no (0) opened service request pending for March 2018.

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

HAWAII COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2018	TOTAL		Open	WIRELINE		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2017 Carryover*			0						
January	5	5	0	3	3	0	0	2	2
February	3	3	0	2	2	0	0	1	1
March	4	4	0	3	3	0	0	1	1
April									
May									
June									
July									
August									
September									
October									
November									
December									
<b>TOTAL</b>	<b>12</b>	<b>12</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>

<b>Note:</b>	* The 2017 Carryover row indicated the number of Service Requests that were opened in 2017 and brought forward into 2018 in an effort to track the service request until completion. Detailed information on service tickets are available upon request.
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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.

## Hawaii County E9-1-1 Status Report

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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 – May 2018

AUDIT SUMMARY RESULTS – MAY 2018 -- TBA

AUDIT SUMMARY RESULTS COMPARISON – MAY 1, 2018 VS FEBRUARY 1, 2017 -- TBA

AUDIT SUMMARY RESULTS – TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT -- TBA