April 1, 2019 - April 30, 2019



April 1, 2019 – April 30, 2019

AKIMEKA | HIGH PRIORITY, HIGH IMPACT.

TABLE OF CONTENTS

1.	PSAP Operations	5
	9-1-1 Call Volume Hawaii County PSAPS – April 2019	5
	Call Volume Hawaii County PSAP Notes:	5
	9-1-1 Call Volume – Calendar Year 2019	5
	9-1-1 Call Volume by Agency – April 2019	6
	9-1-1 Call Volume by Agency – Calendar Year 2019	6
	PSAP Operation Notes:	6
	For your Information	7
	Text to 911 – Current Month – April 2019	7
	Note:	7
,	Wireless PSAP Testing – April 2019	8
	Notes:	8
2.	MSAG (Master Street Address Guide)	9
	MSAG Transactions Current Month/Year – April 2019	9
	MSAG Current Month Notes:	10
	Telephone Record (ALI) Transactions current month notes:	10
	Open Telephone Record (ALI) discrepancy Status:	10
,	TNCR (Telephone Number Change Request) Current Status – April 2019	10
	Note:	11
	Dispatchable Location – Status as of – April 2019	11



April 1, 2019 – April 30, 2019

	Narrative:	12
	Spectrum (Charter) 9-1-1 VoIP Database Verification Project - April 2019	12
	Bandwidth 9-1-1 VoIP Database Verification Project – April 2019	13
3.	Geographic Information System (GIS) – April 2019	14
	Mapping Layers Updated (Part I)	15
	Mapping Layers Updated (Part II)	15
	Mapping Layers Updated (Part III)	16
	Mapping Layers Updated (Part IV)	17
	Mapping Layers Updated (Part V)	18
	Mapping Layers Updated (Part VI)	19
	Mapping Layers Updated (Part VII)	20
	Mapping Layers Updated (Part VIII)	21
	Geographic Information System (GIS) Narratives	22
	GIS Key Activities/Updates	23
	Lava Flow and Alternate Routes	23
	Fire Department IMT (Incident Management Team) Map	23
	Address Points and Street Centerlines Update Comparison	23
	Note:	24
	CAD System Deployment	24
	MapFlex System	24
	MapFlex Issues	24
	DATE	25
	ISSUE	25
	DESCRIPTION	25
	STATUS	25
4.	Service Requests Transactions	26



April 1, 2019 – April 30, 2019

Open Service Requests – April 2019	27
Note* There is one (1) opened service request pending for April 2019.	27
Service Request Year-to-Date (YTD) Summary – 2019	27
5. E9-1-1 Database Synchronization	28
Audit Summary Results – May 2019 TBA	28
Audit Summary Results Comparision – May 1, 2019 vs February 1, 2019 TBA	28
Audit Summary Results TBA	28
Invalid MSAG Streets and Address Ranges – ESN x99 Records TBA	28
Automatic Location Identification (ALI) Discrepancy Report TBA	28

April 1, 2019 – April 30, 2019

1. PSAP OPERATIONS

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

Source: West Safety Services Viper system

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

	9-1-1 Call Volume																
HAWAII COUNTY PSAPs		Wir	eline		Wire	less		VC	OIP	Calls No		Admir	Calls	Aband Ca		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
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%

CALL VOLUME HAWAII COUNTY PSAP NOTES:

The percentage of Wireless Phase 2 calls (56.72%) has surpassed the number of Wireless Phase 1 calls (43.28%) in April 2019.

911 Calls with No ALI in April 2019 = 0.08% - Statewide average for 2018 = 0.09%

9-1-1 CALL VOLUME – CALENDAR YEAR 2019

	AII COUNTY PSAPs	Wire	eline		Wire	less		VC)IP	Calls v		Admir	n Calls		doned	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																	
JUNE																	
JULY																	
AUG																	
SEPT																	
ОСТ																	
NOV																	
DEC																	
YTD	68,983	11,972		49,170				3,159		50		0		4,632		0	
MON AVG	17,246	2,993	17.37%	12,293	71.28%	42.26%	57.74%	790	4.58%	13	0.07%	0	0.00%	1,158	6.70%	0	0.00%

April 1, 2019 – April 30, 2019

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

				9-1-1	Call Volui	me by Ag	ency				
2019		Hawaii	Police Dep	artment	Hawaii Fire Department						
2019	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	
April	13,670	79.21%	0	1,219	0	2,345	13.59%	0	23	0	

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

				9-1-1	Call Volui	me by Agency						
2040		Hawaii	Police Dep	artment		Hawaii Fire Department						
2019	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls		
January	13,504	79.84%	0	825	0	2,559	15.13%	0	25	0		
February	12,962	77.51%	0	1,178	0	2,544	15.21%	0	40	0		
March	15,426	85.28%	0	1,291	0	2,663	14.72%	0	31	0		
April	13,670	79.21%	0	1,219	0	2,345	13.59%	0	23	0		
Мау												
June												
July												
August												
September												
October												
November												
December												
YTD	55,562		0	4,513	0	10,111		0	119	0		
MON AVG	13,891	80.46%	0	1,128	0	2,528	14.66%	0	30	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.



April 1, 2019 – April 30, 2019

FOR YOUR INFORMATION

	FYIFor Your Information											
	PSAP Operations											
		Ç	Statewide 9	11 Call Volս	umes							
PSAP	PSAP 2018 2017 2016 2015											
Oahu Civilian	Oahu Civilian 1,034,190 70.62% 1,022,818 72.16% 1,009,059 71.93% 1,019,402 70.94%											
RDC Pearl Harbor	37,068	2.53%	27,916	1.97%	N/A	N/A	N/A	N/A				
Hawaii County	206,648	14.11%	193,166	13.62%	205,412	14.64%	217,768	15.15%				
Maui County	133,869	9.14%	123,685	8.73%	137,333	9.80%	142,952	9.95%				
Kauai County	Kauai County 52,623 3.60% 49,902 3.52% 50,955 3.63% 56,874 3.96%											
Total	Total 1,464,398 100.00% 1,417,487 100.00% 1,402,759 100.00% 1,436,996 100.00%											
*2016 & 2015 Statewide avera	016 & 2015 Statewide average does not include Military 911 calls											

TEXT TO 911 - CURRENT MONTH - APRIL 2019

NOTE:

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

TEXT TO 911 Hawaii County PSAPs 2019										
Month	Received	Received at								
IVIOTITI	at Police	Fire								
January	29	2								
February	29	3								
March	27	2								
April	20	7								
May										
June										
July										
August										
September										
October										
November										
December										
YTD	105	14								
Monthly Avg.	26.25	3.50								

Page 7 of 28



April 1, 2019 – April 30, 2019

WIRELESS PSAP TESTING - APRIL 2019

	HAWAII COUNTY - APRIL 2019										
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 April 2019.
- Verizon Wireless has completed migrating their Wireless network database from West 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, West completed the position source mapping for ComTech which appears to have resolved this issue.

Page 8 of 28

April 1, 2019 – April 30, 2019

2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – APRIL 2019

	9-1-1 TRANSACTIONS											
HAWAII COUNTY	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Suk	omitted	Disc	Open ALI Discrepancy Records Custom Address					
2019		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	Affected			
JANUARY	184	157	12	9	6	322	0	0	82			
FEBRUARY	61	12	26	17	6	193	0	0	12			
MARCH	145	92	22	30	1	359	0	0	370			
APRIL	314	25	21	13	1	254	0	0	24			
MAY												
JUNE												
JULY												
AUGUST												
SEPTEMBER												
OCTOBER												
NOVEMBER												
DECEMBER												
TOTAL YTD	704	286	81	69	14	1,128	0	0	488			
AVG PER MONTH	176	72	20	17	4		0	0	122			

Definitions

- (A) **D**ispatchable **L**ocation 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) **M**aster **S**treet **A**ddress **G**uide Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (C) **T**elephone **N**umber **C**hange **R**equest 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) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord 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.



April 1, 2019 – April 30, 2019

MSAG CURRENT MONTH NOTES:

A total of **314** MSAG transactions were processed in 9-1-1 Net during the current month. Twenty one (**21**) 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 24 customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

13 Telephone Number Change Requests (TN CR) transactions were processed in 9-1-1 Net with valid MSAG addresses, as a result of the ESN 299 clean-up effort. 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) ALI DRs were submitted as the result of 9-1-1 call from a resident Kamuela.

Akimeka processed ninety one hundred twenty-nine (129) TN CRs related to the Dispatchable Location Project during the current month

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- There are currently 254 Open TN CR Transactions.
- Refer to chart in the next section "TNCR Current Status"

254 Open TN CR transactions are a direct result of the dispatchable location project 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.

• There are currently no Open ALI-DRs as April 30, 2019

There are currently no Open VoIP DRs as April 30, 2019

TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – APRIL 2019

April 1, 2019 - April 30, 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 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	OPENED TNCRS REFERRED TO TELCO BY WEST SAFETY SERVICES	TOTAL UNOPENED TNCR RECORDS							
HAWAII	254	120	85	49							

STATUS

TOTAL TNCRs SUBMITTED - The total number of TNCR requests for modification that have been submitted in 9-1-1 **PENDING STATUS** - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.

REFERRED STATUS - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and the request requires additional information to validate. The 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.

DISPATCHABLE LOCATION - STATUS AS OF - APRIL 2019

April 1, 2019 – April 30, 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 4,566 Dispatchable Locations processed to date. There were 25 Dispatchable locations submitted and 129 were processed in April 2019.

Dispatchable Location						
2019	Common Name Place	TNCR*	Transactions			
Quarter 2	MSAG Address	Transactions Submitted	Processed**			
Quarter 1 Carryover		5,005	4,437			
	Waiakea Kai Plaza, 88 Kanoelehua Ave, Hilo	0	72			
	Longs, 555 Kilauea Ave, Hilo	0	11			
	Hilo Shopping Center, 1221 Kilauea Ave, Hilo	0	45			
April	St Joseph School, 1000 Ululain St, Hilo	0	1			
	Mango Hotel, 826151 Mamalahoa Hwy, Captain Cook	6	0			
	Four Seasons, 720100 Kaupalehu Dr, Kailua Kona	6	0			
	Wyndam Kona Hawaiian Resort, 755961 Alii Dr, Kailua Kona	13	0			
May						
June						
Q2 Total		25	129			
Total		5,030	4,566			

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

April 1, 2019 – April 30, 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)	RECORDS MATCHING & RECORDS MATCHING COMPLETED SUBMITTED BY VERIFIED WITH SPECTRUM 911 DATABASES MATCHING CORRECTED 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 Cilivian	87,414	85,329 (98%)	2,085	2,085	100.00%			
OAHU Military	3,663	710 (19%)	2,953	2,953	100.00%			
TOTAL	140,313	**133,889	6,424	6,424	100.00%			

^{*} Spectrum VoIP Database received on June 21st, 2017

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

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

BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – APRIL 2019

April 1, 2019 – April 30, 2019

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

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

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

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

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

(A)	VoIP Database records submitted by Bandwidth to Akimeka for research and MSAG address validation.
(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)	Verifcation Process Completed.

3. GEOGRAPHIC INFORMATION SYSTEM (GIS) - APRIL 2019

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

April 1, 2019 – April 30, 2019

MAPPING LAYERS UPDATED (PART I)

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

		HAWAII COUNTY
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9-1	1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
		Next Delivery 5/7/2019
		Added address for one (1) record in Honokaa
		Corrected spatial for two (2) records in Hawi
		Added address for two (2) records in Naalehu
		Added address for thirteen (13) records in Pahoa
		Added address for two (2) records in Pepeekeo
		Updated address and routingID for one (1) record in Hakalau
		Updated TMK for one (1) record in Hilo
		Added address for two (2) records in Waikoloa
		Added address for three (3) records in Captain Cook
	4/23/19 To	Updated address and corrected TMK for one (1) record in Pahoa
		Added address for one (1) record in Keauhou
		Corrected spatial for one (1) record in Waikoloa
		Corrected TMK for three (3) records in Pahoa
		Added new address point for one (1) record in Kailua Kona
Address Points		Added address for eight (8) records in Volcano
Address Folits	4/30/19	Updated address and routingID for one (1) record in Volcano
		Verified address for three (3) records in Naalehu
		Added address point for one (1) record in Kurtistown
		Added address for two (2) records in Holualoa
		Corrected TMK for one (1) record in Keaau
		Corrected spatial for two (2) records in Ninole
		Corrected location code, corrected location name for one (1) record in Kailua Kona
		Updated routingID and updated TMK for one (1) record in Hilo
		Corrected spatial for five (5) records in Kailua Kona
		Added address for one (1) record in Paauhau
		Corrected zipcode, for three (3) records in Ocean View
		Updated routingID for two (2) records in Hilo
		Verified address for eleven (11) records in Kailua Kona
		Added address for seventeen (17) records in Ocean View
		Corrected spatial for eleven (11) records in Pepeekeo
		Added address for seven (7) records in Hilo

MAPPING LAYERS UPDATED (PART II)

April 1, 2019 – April 30, 2019

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

	HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE			
		(Listed Alphabetically)			
		Updated address for two (2) records in Kailua Kona			
		Corrected spatial for one (1) record in Kealakekua			
		Added address for two (2) records in Kealakekua			
		Added address point for one (1) record in Keaau			
		Added address for four (4) records in Kailua Kona			
		Corrected spatial for one (1) record in Pahoa			
		Updated lot description for one (1) record in Hilo			
		Corrected spatial for two (2) records in Volcano			
		Corrected TMK for one (1) record in Hilo			
		Corrected zipcode, added new address point for one (1) record in Ocean View			
	4/23/19	Corrected spatial for four (4) records in Holualoa			
	То	Added address point for one (1) record in Naalehu			
	4/30/19	Added address for ten (10) records in Keaau			
		Corrected spatial for one (1) record in Naalehu			
		Added address for eleven (11) records in Mountain View			
Address Points		Corrected TMK, updated lot description for one (1) record in Hilo			
Address Points		Added address for four (4) records in Kamuela			
		Added address for two (2) records in Paauilo			
		Corrected spatial and corrected TMK for one (1) record in Volcano			
		Corrected spatial for thirteen (13) records in Hilo			
		Added address for eleven (11) records in Kurtistown			
		Corrected spatial for seven (7) records in Captain Cook			
		Corrected spatial for five (5) records in Kurtistown			
		Delivered 4/23/2019			
		Corrected spatial for ten (10) records in Volcano			
		Corrected spatial for fifteen (15) records in Pahoa			
	4/9/19	Corrected spatial for fourteen (14) records in Paauilo			
	То	Corrected spatial for eighteen (18) records in Kurtistown			
	4/22/19	Corrected TMK for one (1) record in Volcano			
		Updated address for one (1) record in Pahoa			
		Verified address for one (1) record in Naalehu			
		Verified address for one (1) record in Kealakekua			

MAPPING LAYERS UPDATED (PART III)

April 1, 2019 – April 30, 2019

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

		HAWAII COUNTY
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9-1	1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
		Added alias for two (2) records in Hilo
		Corrected spatial for ten (10) records in Kailua Kona
		Added address point for two (2) records in Volcano
		Updated routingID for one (1) record in Hilo
		Updated routingID for one (1) record in Kailua Kona
		Corrected TMK for seven (7) records in Mountain View
		Corrected spatial for one (1) record in Captain Cook
	4/9/19	Updated island, county, added address point for one (1) record in Mountain View
	То	Corrected TMK for one (1) record in Hilo
	4/22/19	Corrected spatial for seventy-five (75) records in Mountain View
		Added address point for one (1) record in Mountain View
		Corrected spatial for two (2) records in Kamuela
		Verified address for two (2) records in Hilo
		Corrected spatial for three (3) records in Naalehu
		Corrected TMK and corrected spatial for one (1) record in Mountain View
Address Points		Corrected spatial for twelve (12) records in Hilo
Address Foliits		Updated island, county, added address point for one (1) record in Volcano
		Delivered 4/9/2019
		Verified address for one (1) record in Captain Cook
		Updated alias address for one (1) record in Captain Cook
		Corrected spatial for nine (9) records in Volcano
		Added new address point for one (1) record in Kurtistown
		Added new address for three (3) records in Kamuela
	4/1/19	Added address point for three (3) records in Keaau
	То	Corrected zipcode, added address point for one (1) record in Kamuela
	4/8/19	Corrected zipcode, for two (2) records in Mountain View
		Corrected ESN, added new address point for thirty-three (33) records in Kailua Kona
		Corrected MSAGcode, corrected zipcode, added new address point for one (1) record in Paauilo
		Added new address for eight (8) records in Volcano
		Added address point for three (3) records in Holualoa
		Updated address for one (1) record in Volcano
		Verified address for one (1) record in Waikoloa

MAPPING LAYERS UPDATED (PART IV)

April 1, 2019 – April 30, 2019

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

HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
		Corrected TMK for two (2) records in Keauhou		
		Added new address for six (6) records in Kailua Kona		
		Added address for one (1) record in Volcano		
		Added address point for one (1) record in Ninole		
		Added new address point for one (1) record in Honokaa		
		Corrected zipcode for one (1) record in Kurtistown		
		Added new address point for one (1) record in Hilo		
		Corrected zipcode, added address point for eleven (11) records in Ocean View		
		Added new address for two (2) records in Naalehu		
		Added address point for three (3) records in Captain Cook		
		Added address point for eight (8) records in Kamuela		
		Corrected zipcode, added new address point for seven (7) records in Kurtistown		
		Added new address point for two (2) records in Kapaau		
		Added new address point for one (1) record in Ocean View		
	4/1/19	Added new address point for two (2) records in Kailua Kona		
Address Points	To	Added new address for five (5) records in Pahoa		
11441000 1 011110	4/8/19	Added new address for two (2) records in Ocean View		
		Corrected spatial for eleven (11) records in Kailua Kona		
		Added address point for five (5) records in Volcano		
		Added address point for eleven (11) records in Kailua Kona		
		Added address point for five (5) records in Waikoloa		
		Added new address point for two (2) records in Pepeekeo		
		Corrected zipcode, added new address point for six (6) records in Volcano		
		Verified address for twenty-six (26) records in Kailua Kona		
		Updated location name for one (1) record in Kailua Kona		
		Added address point for eleven (11) records in Kurtistown		
		Corrected routingID for three (3) records in Mountain View		
		Added address point for one (1) record in Paauilo		
		Corrected TMK for two (2) records in Kailua Kona		
		Added address point for four (4) records in Hilo		
		Corrected spatial for two (2) records in Captain Cook		
		Corrected TMK, added address point for one (1) record in Pepeekeo		

MAPPING LAYERS UPDATED (PART V)

April 1, 2019 – April 30, 2019

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

HAWAII COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks		
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
		Corrected spatial for eleven (11) records in Kamuela		
		Added new address point for one (1) record in Kailua Kona		
		Added address point for thirty-seven (37) records in Pahoa		
		Added address point for one (1) record in Naalehu		
		Corrected spatial for six (6) records in Mountain View		
		Updated TMK for one (1) record in Ocean View		
		Updated TMK for one (1) record in Holualoa		
		Added address point for one (1) record in Ookala		
		Corrected prefix for four (4) records in Hilo		
		Added address point for four (4) records in Mountain View		
		Corrected TMK for two (2) records in Kurtistown		
		Added new address for four (4) records in Kurtistown		
Address Points	4/1/19 To	Corrected routingID for one (1) record in Captain Cook		
Address I onits	4/8/19	Added address point for two (2) records in Hawi		
		Added new address for five (5) records in Hilo		
		Added new address for nine (9) records in Keaau		
		Added new address for one (1) record in Mountain View		
		Added address point for two (2) records in Kealakekua		
		Added new address point for one (1) record in Volcano		
		Added new address point for one (1) record in Kamuela		
		Corrected TMK, added address point for one (1) record in Kailua Kona		
		Added address point for three (3) records in Honokaa		
		Corrected spatial for six (6) records in Hilo		
		Added address point for two (2) records in Pepeekeo		
		Verified address for ten (10) records in Mountain View		
		Added address point for one (1) record in Kapaau		
Airports				
Bridges				
Building Footprints				
Bus Stops				
Churches				
Coastal Names				

MAPPING LAYERS UPDATED (PART VI)

April 1, 2019 – April 30, 2019

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

HAWAII COUNTY				
	Akimeka GIS			
Type of Layer	Server	GIS Delivery Dates/Remarks		
Type of Layer	Date Created/	GIS Denvely Dates/Remains		
	Edits Performed			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
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				
Medic Beats				
Medic Districts				
Medic Response Areas				
Medic Stations				
Medical Facilities				
Milepost Markers				
MSAG Communities				
Net Junctions				

MAPPING LAYERS UPDATED (PART VII)

April 1, 2019 – April 30, 2019

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 Lavian	Akimeka GIS			
	Server	CIC Delivery Detec/Demonts		
Type of Layer	Date Created/	GIS Delivery Dates/Remarks		
	Edits Performed			
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE		
		(Listed Alphabetically)		
Ocean Rescue Boundaries				
Ocean Safety				
Parcels				
Parks				
Parks Polygon				
Points of Interest				
Points of Interest				
Police Beats				
Police Districts				
Police Response Areas				
Police Stations				
Post Offices				
Schools				
		Next Delivery 5/7/2019		
	4/23/19	Updated range for one (1) record in Keauhou		
	To 4/30/19	Updated alias 5 for ten (10) records in Kailua Kona		
		Updated range for two (2) records in Naalehu		
		Updated alias 5 for one (1) record in Pahala		
		Delivered 4/23/2019		
		Updated range and spatial for one (1) record in Kailua Kona		
		Split segment two (2) records in Pahala		
		Corrected spatial for one (1) record in Captain Cook		
0 0		Added new segment for for one (1) record in Kailua Kona		
Street Centerlines	4/9/19	Added segment for one (1) record in Pahoa		
	To 4/22/19	Updated range for two (2) records in Hilo		
	4/22/19	Updated range for one (1) record in Kailua Kona		
		Updated range for two (2) records in Keauhou		
		Updated range for two (2) records in Pahoa		
		Added new segment for for one (1) record in Captain Cook		
		Updated range for one (1) record in Pahala		
	4/1/19	Delivered 4/9/2019		
	То	Updated range for one (1) record in Mountain View		
	4/8/19	Updated oneway for eight (8) records in Hilo		

MAPPING LAYERS UPDATED (PART VIII)

April 1, 2019 – April 30, 2019

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

HAWAII COUNTY							
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks					
	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE						
		(Listed Alphabetically)					
		Updated range for one (1) record in Hilo					
		Split segment and updated range for two (2) records in Captain Cook					
		Updated range for one (1) record in Papaaloa					
		Split segment and corrected range for two (2) records in Mountain View					
	4/1/19	Updated speed limit for eight (8) records in Laupahoehoe					
Street Centerlines	To	Updated oneway for two (2) records in Kailua Kona					
	4/8/19	Updated speed limit for five (5) records in Paauilo					
		Updated speed limit for one (1) record in Hilo					
		Split segment, updated range, and updated oneway for one (1) record in Kailua Kona					
		Corrected spatial for one (1) record in Pahoa					
		Corrected range for two (2) records in Kailua Kona					
		Split segment and updated range for one (1) record in Kailua Kona					
Subdivisions							
Tow Jurisdictions							
Tsunami Evacuation Zones							
Tsunami Heights							
Waste Water Plants							
	4/9/19	Delivered 4/23/2019					
	To 4/22/19	Added six (6) sectors per AT&T CRS					
		Added twelve (12) sectors per Sprint CRS					
WSP Cell Sectors	4/1/19	Delivered 4/9/2019					
	4/1/19 To	Added one (1) sector per T-Mobile CRS					
	4/8/19	Updated one (1) sector per T-Mobile CRS					
	40/10	Updated three (3) sectors per Verizon Wireless CRS					
	4/0/40	Delivered 4/23/2019					
	4/9/19 To 4/22/19	Added two (2) towers per Sprint CRS					
		Updated one (1) tower per Sprint CRS					
WSP Cell Towers		Updated one (1) tower per AT&T CRS					
	4/1/19	Delivered 4/9/2019					
	To 4/8/19	Updated one (1) tower per Verizon Wireless CRS					
		Updated one (1) tower per T-Mobile CRS					

GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

April 1, 2019 – April 30, 2019

GIS KEY ACTIVITIES/UPDATES

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

Date	Key Activities/Updates			
4/9/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street			
	Centerlines, Fire Response areas and Common Places for Hawaii County			
	Mapflex.			
4/9/2019	Delivered Address Points, City, Common Names Alt Table, Display Streets, Fire			
	EMS Zone, First In, Points of Interest, POI Alt Names, Police Zones, Street			
	Centerlines, Street Alt Names, Street Routes for Hawaii County Spillman.			
4/23/2019	Provided test deliverable for 1/10th of a mile milepost markers to Spillman.			
4/23/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street			
	Centerlines, ESN, and MSAG Communities, and Common Places for Hawaii			
	County Mapflex.			
4/23/2019	Delivered Address Points, City, Common Names Alt Table, Display Streets, Fire			
	EMS Zone, First In, Points of Interest, POI Alt Names, Police Zones, Street			
	Centerlines, Street Alt Names, Street Routes for 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.

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

April 1, 2019 – April 30, 2019

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 April 23, 2019. A new compare process was developed by Akimeka to perform this analysis.

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	100	
Addresses Removed	0	
Address Street Name Changes	4	
Address Street Number Changes	0	
New Street Segments Added		4
Street Segments Removed		0
Street Segment Range Changes		4
Street Segment Name Changes		0

NOTE:

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

CAD SYSTEM DEPLOYMENT

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

MAPFLEX SYSTEM

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

Hawaii County – April 9th, 2019 and April 23rd, 2019 **Maui County** – April 10th, 2019 and April 24th, 2019 **Kauai County** – April 11th, 2019, and April 25th, 2019 **Honolulu** – April 12th, 2019, and April 26th, 2019

MAPFLEX ISSUES



April 1, 2019 – April 30, 2019

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)
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	Pending



April 1, 2019 – April 30, 2019

		to see information by the PSAPs. However, the address in	
		the data is still correct as shown on the left hand side.	
6/27/2018	Moving Labels	It was brought up during the PSAP teleconference with	Pending
		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.	

4. SERVICE REQUESTS TRANSACTIONS

April 1, 2019 – April 30, 2019

OPEN SERVICE REQUESTS – APRIL 2019

#	Date	Ticket#	Description	PSAP	Urgency	Comments
1	01/23/19	1007	Incorrect Address	Hawaii Fire	Normal	Confirmation pending from Ineiquent.com 4/30/2019 RS

Note* There is one (1) opened service request pending for April 2019.

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

HAWAII COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2040	TOTAL		0	WIRELINE		WIRELESS		VoIP	
2019	Created	Closed	Open	Created	Closed	Created	Closed	Created	Closed
2018 Carryover*			0						
January	6	5	1	2	2	0	0	3	2
February	6	4	3	3	3	0	0	3	1
March	1	1	3	1	1	0	0	0	0
April	1	3	1	1	1	0	0	0	2
May									
June									
July									
August									
September									
October									
November									
December									
TOTAL	14	13	1	7	7	0	0	6	5

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.
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	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.
<u>Definitions:</u>	<mark>ions:</mark> 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



April 1, 2019 – April 30, 2019

5. E9-1-1 DATABASE SYNCHRONIZATION

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

Next Scheduled Database Synchronization Report – May 2019

AUDIT SUMMARY RESULTS - MAY 2019 -- TBA

AUDIT SUMMARY RESULTS COMPARISION - MAY 1, 2019 VS FEBRUARY 1, 2019 -- TBA

AUDIT SUMMARY RESULTS -- TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT -- TBA

Page 28 of 28