July 1, 2019 - July 31, 2019



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1. PSAP OPERATIONS

9-1-1 CALL VOLUME - JULY 2019

(Source:) West Safety Services Viper system

	9-1-1 Call Volume																
KAUA	I PSAP	Wire	eline		Wire	less		VC)IP	Calls No		Admir	n Calls		doned Ills	Other	Calls
2019	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
JULY	5,804	616	10.61%	4,116	70.92%	45.94%	54.06%	235	4.05%	3	0.05%	0	0.00%	834	14.37%	0	0.00%

9-1-1 CALL VOLUME - CALENDAR YEAR 2019

							9-1	I-1 Call	Volum	e							
KAUA	NI PSAP	Wireline			Wireless		VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls		
2019	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
JAN	4,314	496	11.50%	3,252	75.38%	40.10%	59.90%	145	3.36%	2	0.05%	0	0.00%	419	9.71%	0	0.00%
FEB	4,718	466	9.88%	3,414	72.36%	42.24%	57.76%	176	3.73%	3	0.06%	0	0.00%	659	13.97%	0	0.00%
MAR	4,931	521	10.57%	3,539	71.77%	43.15%	56.85%	158	3.20%	1	0.02%	0	0.00%	712	14.44%	0	0.00%
APR	4,867	550	11.30%	3,466	71.21%	46.05%	53.95%	189	3.88%	0	0.00%	0	0.00%	662	13.60%	0	0.00%
MAY	4,986	514	10.31%	3,600	72.20%	44.86%	55.14%	184	3.69%	0	0.00%	0	0.00%	688	13.80%	0	0.00%
JUNE	5,317	524	9.86%	3,902	73.39%	44.26%	55.74%	150	2.82%	2	0.04%	0	0.00%	739	13.90%	0	0.00%
JULY	5,804	616	10.61%	4,116	70.92%	45.94%	54.06%	235	4.05%	3	0.05%	0	0.00%	834	14.37%	0	0.00%
AUG																	
SEPT																	
ост																	
NOV																	
DEC																	
YTD	34,937	3,687		25,289				1237		11		0		4,713		0	
MON AVG	4,991	527	10.57%	3,613	72.46%	43.80%	56.20%	177	3.53%	2	0.03%	0	0.00%	673	13.40%	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.
- 11 Calls with No Ali for July 2019 = 0.05% Statewide average for 2018 = 0.09%

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FOR YOUR INFORMATION

	FYIFor Your Information								
	PSAP Operations								
	Statewide 911 Call Volumes								
PSAP	20	18	20	17	20	16	20	15	
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	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	age does not inclu	de Military 911 cal	lls						

TEXT TO 911 - CURRENT MONTH - JULY 2019

TEXT TO 911 Ka	uai County 2019
Month	Total received
January	11
February	18
March	4
April	10
May	3
June	12
July	9
August	
September	
October	
November	
December	
YTD	67
Monthly Avg.	9.6

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.



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WIRELESS PSAP TESTING - JULY 2019

	KAUAI COUNTY - JULY 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 July 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.

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR - JULY 2019

	9-1-1 TRANSACTIONS									
KAUAI COUNTY	Total	Dispatchable Location Transactions Submitted		ALI Submitted		Disc	Customer Addresses			
2019		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	Affected	
JANUARY	103	96	6	0	1	19	0	0	87	
FEBRUARY	3	1	2	0	0	18	0	0	0	
MARCH	52	52	0	0	0	59	0	0	0	
APRIL	248	245	2	0	1	259	0	0	17	
MAY	94	90	4	0	0	121	0	0	93	
JUNE	134	121	9	4	0	157	0	0	6	
JULY	129	119	10	0	0	99	0	0	128	
AUGUST										
SEPTEMBER										
OCTOBER			·							
NOVEMBER			·							
DECEMBER			·							
TOTAL YTD	763	724	33	4	2				331	
AVG PER MONTH	109	103	5	1	0				47	

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 499 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.



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MSAG CURRENT MONTH NOTES:

A total of one hundred twenty nine (129) MSAG transactions were processed in 9-1-1 Net during the current month. Ten (10) 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 inserting new MSAG records.

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

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

Akimeka submitted one hundred nineteen (119) TN CRs related to the Dispatchable Location Project during the current month.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

• There are currently 99 Open TN CRs.

99 Open TN CR transactions are a result of the Dispatchable Location project. 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 July 31, 2019
- There are currently no Open VoIP DRs as of July 31, 2019

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS - JULY, 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 Tele	phone Number Lo	cation Change Re	equest				
(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	99	0	35	64				

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.

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DISPATCHABLE LOCATION - STATUS AS OF - JULY 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 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. 49 transactions were submitted and 119 transaction were processed by West in July 2019.

	Dispatchable Location							
2019	Common Name Place	TNCR Transactions	Transactions					
Quarter 3	MSAG Address	Submitted	Processed					
Quarter 2 Carryover		3,924	3,458					
	Kauai Community College, 301901 Kaumualii Hwy, Puhi	0	14					
	Hokulei Village Shopping Center, 4454 Nuhou St, Puhi	0	62					
	Multiple Business, Rice St, Lihue	0	1					
July	Regency Huleia, 2110 Kaneka St, Puhi	0	11					
	Regency at Puakea,2130 Kaneka St, Puhi	0	31					
	Kinipopo Shopping Village, 40356 Kuhio Hwy, Wailua	13	0					
	Anchor Cove Shopping Center, 3416 Rice St, Nawiliwili	36	0					
August								
September								
Quarter 3 Total		49	119					
Total		3,973	3,577					

July 2019

Kauai County E9-1-1 Status Report

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT - JULY 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	PSAP TOTAL RECORDS MATCHING & SUBMITTED BY SPECTRUM (A) (B) TOTAL RECORDS MATCHING & RECORDS MATCHING RECORDS CORRECTED BY AKIMEKA (C)								
HAWAII County	22,044	21,638 (98%)	406	406	100.00%				
KAUAI County	8,936	8,695 (97%)	241	241	100.00%				
MAUI County	18,256	17,517 (96%)	739	739	100.00%				
OAHU Cilivian	87,414	85,329 (98%)	2,085	2,085	100.00%				
OAHU Military	3,663	710 (19%)	2,953	2,953	100.00%				
TOTAL	140,313	**133,889	6,424	6,424	100.00%				

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

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

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

Kauai County

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

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

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

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

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

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

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

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



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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – JULY 2019

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 Created/ Edits Performed	GIS Delivery Dates/Remarks
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE
		(Listed Alphabetically)
		Next Delivery 8/1/2019
		Added Alias1 for one (1) record in Wailua
	7/18/19	Spatially corrected one hundred and seventy-six (176) records in Wailua
	То	Added address for one (1) record in Wailua
	7/31/19	Added location subtype for one (1) record in Puhi
		Added street name for one (1) record in Wailua
		Verified address for twenty-nine (29) records in Wailua
		Delivered 7/18/2019
		Updated location name for one (1) record in Poipu
Address Points		Spatially corrected thirty-three (33) records in Wailua
Address I onlis	7/3/19 To 7/17/17	Verified address for one (1) record in Nawiliwili
		Corrected location subtype for one (1) record in Princeville
		Spatially corrected one (1) record in Kokee
		Updated location name for five (5) records in Princeville
		Added address for one (1) record in Nawiliwili
		Corrected ESN for three (3) records in Kapaa
		Updated location name for one (1) record in Wailua
		Spatially corrected three (3) records in Poipu
		Updated location name for two (2) records in Waipouli
		Verified address for three (3) records in Wailua
Airports		
Bridges		
Building Footprints		
Bus Stops		
Churches		
Coastal Names		
Coastline		
Common Places		
Correctional Facilities		
Emergency Callboxes		
Emergency Operation		
Centers		
Emergency Shelters		

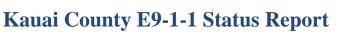
Kauai County

July 1, 2019 - July 31, 2019

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 Created/ Edits Performed	GIS Delivery Dates/Remarks				
	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)					
DOG (DOX	7/3/19 To	Delivered 7/18/2019				
ESZ/ESN	7/17/17	Modified boundary for two (2) records				
Fire Beats	7/3/19 To 7/17/17	Delivered 7/18/2019 Modified boundary for two (2) records				
Fire Districts						
Fire Response Areas	7/3/19 To 7/17/17	Delivered 7/18/2019 Modified boundary for two (2) records				
Fire Stations		, , , ,				
Food & Beverage	7/18/19 To 7/31/19	Next Delivery 8/1/2019 Updated name for four (4) records in Princeville				
Gas Stations		Specific name to roam (1) records minimize				
Gate Codes						
Government Buildings						
Harbors						
Helipads						
Hiking Trails						
Hospitals						
Hydrants						
Hyrdology Layers						
Incident Response Areas						
		Delivered 7/18/2019				
		Verified address for one (1) record in Poipu				
		Updated name for one (1) record in Haena				
		Added two (2) records in Kukuiula				
	7/0/40	Updated name for one (1) record in Kukuiula				
Lodging	7/3/19 To	Added two (2) records in Puhi				
	7/17/17	Updated name for one (1) record in Waipouli				
		Added one (1) record in Waimea				
		Updated name for two (2) records in Wailua				
		Updated name for one (1) record in Lihue				
		Added two (2) records in Poipu				
		Spatially corrected one (1) record in Poipu				



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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.

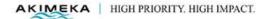
		KAUAI COUNTY				
Type of Layer	Akimeka GIS Server Date Created/ Edits Performed	GIS Delivery Dates/Remarks				
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE				
		(Listed Alphabetically)				
		Added fourteen (14) records in Kokee				
		Added one (1) record in Hanalei				
	7/0/40	Updated name & address for one (1) record in Wailua				
Lodging	7/3/19 To	Updated name for four (4) records in Poipu				
Louging	7/17/17	Added two (2) records in Princeville				
	.,,	Added three (3) records in Wailua				
		Added five (5) records in Nawiliwili				
		Updated name for three (3) records in Princeville				
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						
Parks Polygon						
	7/18/19 To	Next Delivery 8/1/2019				
	7/31/19	Updated POI name for one (1) record in Princeville				
		Delivered 7/18/2019				
		Corrected class and subclass for one (1) record in Nawiliwili				
D. take a Classical		Added POI for one (1) record in Kokee				
Points of Interest	7/3/19 To	Corrected subclass for one (1) record in Wailua				
	7/17/17	Spatially corrected two (2) records in Waipouli				
		Updated POI name for five (5) records in Princeville				
		Spatially corrected one (1) record in Lihue				
		Spatially corrected one (1) record in Nawiliwili				

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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 Created/ Edits Performed	GIS Delivery Dates/Remarks				
	CRITICAL 9-1	-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE				
		(Listed Alphabetically)				
		Updated POI name for two (2) records in Waipouli				
		Updated POI name for one (1) record in Wailua				
	7/3/19	Corrected POI name for one (1) record in Poipu				
Points of Interest	То	Updated POI name for two (2) records in Poipu				
	7/17/17	Spatially corrected one (1) record in Princeville				
		Updated POI name for one (1) record in Kokee				
		Corrected class and subclass for one (1) record in Princeville				
Police Beats						
Police Districts						
Police Response Areas						
Police Stations						
Post Offices						
Schools						
		Next Delivery 8/1/2019				
	7/18/19	Spatially corrected seven (7) records in Wailua				
	To 7/31/19 7/3/19 To	Spatially corrected forty-nine (49) records in Wailua				
Street Centerlines		Partial spatial correction for four (4) records in Wailua				
		Partial spatial correction for ten (10) records in Wailua				
		Delivered 7/18/2019				
	7/17/17	Spatially corrected four (4) records in Wailua				
Subdivisions						
Tow Jurisdictions						
Tsunami Evacuation Zones						
Tsunami Heights						
Waste Water Plants						
	7/18/19	Next Delivery 8/1/2019				
	7/18/19 To	Updated eleven (11) sectors per AT&T CRS				
	7/31/19	Added two (2) sectors per AT&T CRS				
WSP Cell Sectors		Added one (1) sector per Sprint CRS				
	7/3/19	Delivered 7/18/2019				
	То	Updated four (4) sectors per Sprint CRS				
	7/17/17	Added two (2) sectors per Sprint CRS				



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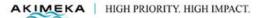
MAPPING LAYERS UPDATED (PART V)

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					
Toma of Lance	Akimeka GIS Server	CIC Dell'erry Detec/Demode			
Type of Layer	Date Created/ Edits Performed	GIS Delivery Dates/Remarks			
	CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
	7/18/19	Next Delivery 8/1/2019			
	=10.1110	Added one (1) tower per Sprint CRS			
WSP Cell Towers		Updated two (2) towers per AT&T CRS			
wsp Cell Towers	7/3/19	Delivered 7/18/2019			
		Added two (2) towers per Sprint CRS			
	7/17/17	Updated two (2) towers per Sprint CRS			

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.



July 1, 2019 - July 31, 2019

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
7/3/2019	Delivered updated data for Spillman which included Address Points, Points of
	Interest, MSAG Communities, and Street Centerlines.
7/3/2019	Delivered updated data for MapFlex which included Address Points, Points of
	Interest, ESN boundaries, MSAG Communities, Street Centerlines, WSP Cell
	Sectors and WSP Cell Towers.
7/18/2019	Delivered updated data for MapFlex which included Address Points, ESN, Fire
	Response Areas, Lodging, Points of Interest, Street Centerlines, WSP Cell
	Sectors and WSP Cell Towers.
7/18/2019	Delivered updated data for Spillman which included Address Points, Fire Beats,
	Lodging, Points of Interest, MSAG Communities, and Street Centerlines.

SPILLMAN PROJECT

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

MAPFLEX SYSTEM

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

Hawaii County – July 2nd, 2019, July 16th, and July 30th, 2019 **Maui County** – July 3rd, 2019, July 17th, 2019, and July 31st, 2019 **Kauai County** – July 3rd, 2019, and July 18th, 2019 **Honolulu** – July 3rd, 2019, and July 19th, 2019

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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)
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



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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.	

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OPEN SERVICE REQUESTS – JULY 2019

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

There are no (0) open service request for July 2019.

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

KAUAI COUNTY				MSAG SERVICE REQUEST CATEGORIES						
2040	TOTAL		•	WIRE	WIRELINE		WIRELESS		VoIP	
2019	Created	Closed	Open	Created	Closed	Created	Closed	Created	Closed	
2018 Carryover*			0							
January	1	0	1	0	0	0	0	1	0	
February	0	0	1	0	0	0	0	0	0	
March	0	0	1	0	0	0	0	0	0	
April	0	1	0	0	0	0	0	0	1	
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										
September										
October										
November										
December										
TOTAL	1	1	0	0	0	0	0	1	1	

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

	Category	Description				
<u>Definitions:</u>	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 Time Warner Cable (TWCBL) or other VoIP providers for correction				



July 2019

Kauai County E9-1-1 Status Report

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5. E9-1-1 DATABASE SYNCHRONIZATION

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

As part of Akimeka's value added services, Akimeka conducted a database synchronization audit for Kauai County in July 2019.

The database synchronization effort included comparing Kauai County's 9-1-1 MSAG received from the 911 Database provider, West on July 1, 2019, against its 9-1-1 GIS Street Centerline data. A total number of **1,363** 9-1-1 MSAG records were reviewed in the audit and analyzed. Results of the database synchronization audit completed on July 1, 2019 for Kauai County are reported below.

Database synchronization should be part of an ongoing and continuous process to ensure that the databases remain current and synchronized. Since neither database is static in nature, the synchronization process will never remain at a 100 percent match rate. It can be expected that the percentage will fluctuate by a small degree. As such, NENA's recommended minimum match rate is 98%.



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AUDIT SUMMARY RESULTS - 2018 - 2019

		As of October 1 , 2018		As of January 1 , 2019		As of April 1 , 2019		As of July 1 , 2019	
9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	Notes	9-1-1 MSAG Dated 10-01-18		9-1-1 MSAG Dated 1-01-19		9-1-1 MSAG Dated 4-01-19		9-1-1 MSAG Dated 7-01-19	
		# of Records	%	# of Records	%	# of Records	%	# of Records	%
Total 9-1-1 MSAG Records Reviewed		1,357		1,357		1,353		1,363	
Less: 9-1-1 MSAG Exception Records	(1)	84	6.2%	84	6.2%	57	4.2%	58	4.3%
Net 9-1-1 MSAG Records Eligible for Comparison		1,273		1,273		1,296		1,305	
Total 9-1-1 MSAG Records Match (9-1-1 MSAG GIS Match No Corrections Required)		1,273	100.0%	1,273	100.0%	1,291	99.6%	1,296	99.3%
9-1-1 MSAG GIS No Match - Minor Correction Required	(2)	0	0.0%	0	0.0%	1	0.1%	1	0.1%
9-1-1 MSAG Record With No GIS Record	(3)	0	0.0%	0	0.0%	4	0.3%	8	0.6%
Total 9-1-1 MSAG Records No Match		0	0.0%	0	0.0%	5	0.4%	9	0.7%

Objective: NENA Recommended Match Rate = 98%

The two-way (MSAG – GIS) database synchronization audit for the Kauai County was completed as scheduled. The match rate remained consistent from July 2019 with a 99.3% Match Rate to a 99.6% Match Rate as of April 2019.

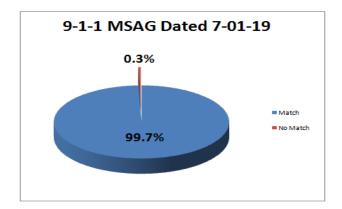
NOTES:

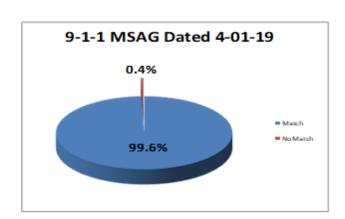
- An MSAG Record that will not have a corresponding GIS Street Centerline Record but is required for the routing of E9-1-1 calls (i.e., Emergency Call Box, Foreign Exchange Records, Wireless Shell Records, etc.). No further action is required.
- An MSAG Record that requires minor MSAG attention in 9-1-1Net to correct MSAG Records (i.e., Reassignment of an MSAG Community, modification of the Site Address Range, assignment of an ESN, performing a combine or insert of an existing MSAG Record, etc.).
- An MSAG Record that does not have a corresponding GIS Record and will require additional research and validation. The GIS Section will assist with this effort.



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AUDIT SUMMARY RESULTS - JULY 1, 2019 MSAG VS. APRIL 1, 2019 MSAG





Kauai County level of accuracy for 9-1-1 Match percentage remained consistent to

99.7% match as of July 1, 2019 as it was a 99.6% on April 1, 2019

- Akimeka continues to work with Kauai County GIS and Planning departments to validate streets and communities.
- In achieving and exceeding the NENA minimum match rate of 98% for data accuracy, Kauai County is ready for Next Generation 9-1-1 (NG9-1-1) from a database perspective.
- A constant effort to keep the databases synchronized and maintained are required to ensure the level of accuracy of the E9-1-1 databases each time an MSAG or GIS record is "last modified".
- * "MSAG record that doesn't match the GIS" increased (5 to 9) from April 2019 to July 2019. The non-match condition is also a result in which MSAG transactions were not completed prior to the running of the end of month report.
- * "MSAG record with no GIS record" increased (4 to 8) from April 2019 to July 2019. MSAG records with no matching record were due primarily to the verification of the MSAG records against multiple GIS databases to determine if the roads are existing within Kauai County.
- * "MSAG Records Corrections Required" remained the same (1 to 1) from April 2019 to July 2019. MSAG records have been combined, split, and high/low ranges have been changed, to match the Street Centerlines.
- Accurate location and GIS information will ensure proper dispatching and response in a timely manner for all Public Safety agencies.
- All the hard work to maintain and synchronize the E9-1-1 databases is validated when a life and/or property is saved.
- Coordinating the clean-up of the ALI discrepancy records associated with an assigned ESN of 499 with the respective Service Providers is needed to ensure all records are MSAG valid.

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INVALID MSAG STREETS AND ADDRESS RANGES – ESN X99 RECORDS

At the request of the Kauai County Chief of Police, Hawaiian Telcom, Inc. (HTI) provided Kauai County and Akimeka, as the PSAP's agent, with access and visibility to the ESN x99 MSAG records which are "known" invalid streets and address ranges. Akimeka will be investigating and reporting on these ESN x99 MSAG records as a separate project and add-on to the Database Synchronization quarterly report.

Results of the data provided are as follows:

KAUAI	Invalid MSAG Records								
	9-1-1 MSAG Dated 1-01-19		9-1-1 MSAG [ated 04-01-19	9-1-1 MSAG Dated 07-01-19				
	Number of Records	% of Total Invalid MSAG Records	Number of Records	% of Total Invalid MSAG Records	Number of Records	% of Total Invalid MSAG Records			
ESN 499	0	0.0%	0	0.0%	0	0.0%			

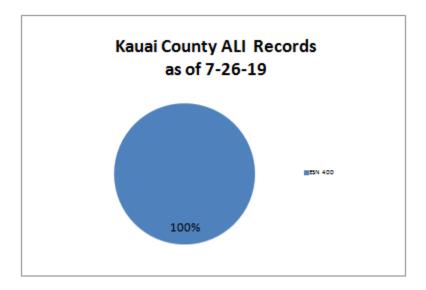
These invalid MSAG records represent 0% of the Total MSAG records for Kauai County as of the July 1, 2019.

The cleanup of invalid MSAG records is a result of Akimeka's research and validation of telephone numbers (TNs) assigned an invalid MSAG address. In order for a TN to be corrected, Akimeka submitted the update to the Service Provider via West for approval.

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AUTOMATIC LOCATION IDENTIFICATION (ALI) DATABASE DISCREPANCIES

As part of Akimeka's ongoing database synchronization efforts, Akimeka reviewed and summarized the ALI discrepancies by community in 9-1-1Net for Kauai County. As of July 26, 2019, there are **zero** (0) ESN 499 ALI records. The number of ESN 499 ALI records remained at **100%** (0 to 0) from **July 26, 2019 to October 26, 2018.**



Although the ESN 499 is a "valid" MSAG utilized for overflow addressing, the voice portion of the 9-1-1 call will still be routed to the PSAP. However, the address information will present an invalid address/location to the dispatcher or a "No Record Found" condition which may affect the processing of the 9-1-1 response and/or cause confusion or delay during the dispatch of 9-1-1 resources to the caller's location.

The goal, which requires the cooperation among all service providers, is to clean-up all ESN 499 MSAG records to a valid Kauai County ESN 400 – 448 to ensure that all ALI records assigned to the County of Kauai have an "MSAG valid address".