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1. PSAP OPERATIONS

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

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	
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
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%

CALL VOLUME HAWAII COUNTY PSAP NOTES:

***The percentage of Wireless Phase 2 calls (58.69%) has surpassed the number of Wireless Phase 1 calls (41.31%) in February 2019.**

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

9-1-1 CALL VOLUME – CALENDAR YEAR 2019

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2019	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Other Calls	% of Total Calls
JAN	16,913	3,148	18.61%	12,155	71.87%	42.34%	57.66%	746	4.41%	14	0.08%	0	0.00%	850	5.03%	0	0.00%
FEB	16,724	2,829	16.92%	11,899	71.15%	41.31%	58.69%	765	4.57%	13	0.08%	0	0.00%	1,218	7.28%	0	0.00%
MAR																	
APR																	
MAY																	
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	33,637	5,977		24,054				1,511		27		0		2,068		0	
MON AVG	16,819	2,989	17.76%	12,027	71.51%	41.83%	58.17%	756	4.49%	14	0.08%	0	0.00%	1,034	6.15%	0	0.00%

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

2019	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls
February	12,962	77.51%	0	1,178	0	2,544	15.21%	0	40	0

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

2019	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls
January	13,504	79.84%	0	825	0	2,559	15.13%	0	25	0
February	12,962	77.51%	0	1,178	0	2,544	15.21%	0	40	0
March										
April										
May										
June										
July										
August										
September										
October										
November										
December										
YTD	26,466		0	2,003	0	5,103		0	65	0
MON AVG	13,233	78.67%	0	1,002	0	2,552	15.17%	0	33	0

PSAP OPERATION NOTES:

- **Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Abandoned Calls are not included in the % of Total Calls.**
- **All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.**

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FOR YOUR INFORMATION

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

TEXT TO 911 – CURRENT MONTH – FEBRUARY 2019

NOTE:

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

TEXT TO 911 Hawaii County PSAPs 2019		
Month	Received at Police	Received at Fire
January	29	2
February	29	3
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
YTD	58	5
Monthly Avg.	29.00	2.50

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WIRELESS PSAP TESTING – FEBRUARY 2019

HAWAII COUNTY - FEBRUARY 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 February 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 – FEBRUARY 2019

HAWAII COUNTY	9-1-1 TRANSACTIONS								
	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Submitted		Open ALI Discrepancy Records			Customer Addresses Affected
2019		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	
JANUARY	184	157	12	9	6	322	0	0	82
FEBRUARY	61	12	26	17	6	193	0	0	12
MARCH									
APRIL									
MAY									
JUNE									
JULY									
AUGUST									
SEPTEMBER									
OCTOBER									
NOVEMBER									
DECEMBER									
TOTAL YTD	245	169	38	26	12	515	0	0	94
AVG PER MONTH	123	85	19	13	6		0	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 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.

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MSAG CURRENT MONTH NOTES:

A total of **61** MSAG transactions were processed in 9-1-1 Net during the current month. Twenty six (**26**) 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 **12** customer ANI/ALI (telephone number/address) records updated as a direct result.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

17 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. Six (**6**) ALI DRs were submitted as the result of 9-1-1 calls. Three (**3**) calls were made from wireline residential phones in Kapaau, Mountain View, and Pahoa. Three (**3**) calls were made from VoIP phones 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 193 Open TN CR Transactions.**
- **Refer to chart in the next section "TNCR Current Status"**

193 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 193 Referred records.

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

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – FEBRUARY 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	193	121	48	24

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.
TOTAL UNOPENED TNCR RECORDS STATUS - 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 – FEBRUARY 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 4,379 Dispatchable Locations processed to date. There were 0 Dispatchable locations submitted and 12 were processed in February 2019.

Dispatchable Location			
2019 Quarter 1	Common Name Place MSAG Address	TNCR* Transactions Submitted	Transactions Processed**
2018 Carryover		4,891	4,210
January	Hilo Union School, 506 Waianuenue Ave, Hilo	0	12
	Hilo Intermediate, 587 Waianuenue Ave, Hilo	0	8
	Haili Christian School, 190 Ululani St, Hilo	0	4
	Waiakea Middle, 200 W Puainako St, Hilo	0	15
	Kaumana Elementary School, 1710 Kaumana Dr, Hilo	0	10
	Waiakea High School, 155 W Kawili St, Hilo	0	23
	Keaau Elementary, 160680 Keaau Pahoa Rd, Keaau	0	12
	Keaau High, 160725 Keaau Pahoa Rd, Keaau	0	22
	Keaau Middle, 160565 Keaau Pahoa Rd, Keaau	0	28
	Laupahoehoe High, 352065 Old Mamalahoa Hwy, Laupahoehoe	0	19
	Hale Aloha Nazarene School, 595 Kupulau Rd, Hilo	0	4
	Big Island Vistors Bureau, 681330 Mauna Lani Dr, Kamuela	15	0
	Kealakehe High School 745000 Puohulihuli St, Kailua Kona	7	0
February	Prince Kuhio Plaza, 111 E Puainako St, Hilo	0	3
	Malamalama Waldorf School, 151834 Makuu Dr, Keaau	0	1
	Keaau Middle, 160565 Keaau Pahoa Rd, Keaau	0	3
	Keaau Elementary, 160680 Keaau Pahoa Rd, Keaau	0	2
	Keaau High, 160725 Keaau Pahoa Rd, Keaau	0	2
	Waiakea High School, 155 W Kawili St, Hilo	0	1
March			
Total		4,913	4,379
YTD Total		22	169

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

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

The analysis of the database records indicates that there are invalid MSAG addresses utilized by the VoIP Provider. These records are being identified, and will be sent back to Spectrum for corrective action.

*Spectrum (Charter) 9-1-1 VoIP Database Verification Project					
PSAP	**TOTAL RECORDS SUBMITTED BY SPECTRUM (A)**	**TOTAL RECORDS MATCHING & VERIFIED WITH 911 DATABASES (B)**	**TOTAL RECORDS NOT MATCHING**	**NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)**	**PERCENT COMPLETED**
HAWAII County	22,044	21,638 (98%)	406	406	100.00%
KAUAI County	8,936	8,695 (97%)	241	241	100.00%
MAUI County	18,256	17,517 (96%)	739	739	100.00%
OAHU 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.

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

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

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

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

***Bandwidth**
9-1-1 VoIP Database Verification Project **(Updated)

PSAP	TOTAL RECORDS SUBMITTED BY BANDWIDTH (A)	TOTAL NEW RECORDS VERIFIED WITH 911 DATABASES (B)	TOTAL RECORDS NOT MATCHING	NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)	PERCENT COMPLETED
HAWAII County	545	85	0	0	100.00%
KAUAI County	306	41	0	0	100.00%
MAUI County	914	222	1	1	100.00%
OAHU 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**
****Updated Bandwidth VoIP Database received on September 6th, 2018**

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

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – FEBRUARY 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 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	**2/26/19 To 2/28/19**	**Next Delivery on 3/12/2019**
		Corrected address for one (1) record in Kaulua Kona
		Added new address for two (2) records in Hawi
		Added new address for eight (8) records in Kamuela
		Corrected spatial for two (2) records in Holualoa
		Added new address for four (4) records in Kealakekua
		Added new address for five (5) records in Captain Cook
		Added new address for twenty-eight (28) records in Volcano
		Added new address for two (2) records in Keauhou
		Added new address for one (1) record in Kapaau
		Added new address for thirty-seven (37) records in Ocean View
		Added new address for two (2) records in Hakalau
		Added new address for sixteen (16) records in Kaulua Kona
		Added new address for twenty-seven (27) records in Pahoa
		Added new address for seven (7) records in Naalehu
		Corrected address for one (1) record in Ocean View
		Added new address for three (3) records in Holualoa
		Corrected address for one (1) record in Hilo
		Added new address for three (3) records in Papaikou
		Added new address for five (5) records in Pepeekeo
		Added address point for one (1) record in Pahoa
		Corrected address for two (2) records in Pepeekeo
		Corrected address for one (1) record in Volcano
		Added new address for three (3) records in Waikoloa
		Added new address for seven (7) records in Honokaa
		Added new address for two (2) records in Honomu
		Corrected spatial for twenty (20) records in Keaau
		Added new address for four (4) records in Paauilo
		Added new address for twelve (12) records in Kurtistown
		Added new address for ten (10) records in Hilo
		Added new address for twenty-eight (28) records in Keaau
		Added new address for thirty (30) records in Mountain View

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MAPPING LAYERS UPDATED (PART II)

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

HAWAII COUNTY		
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**GIS Delivery Dates/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	**2/16/19To 2/28/19**	Added new address for two (2) records in Laupahoehoe
		Corrected address for two (2) records in Honokaa
	2/12/19 To 2/25/19	**Delivered on 2/26/2019**
		Added new address for two (2) records in Hawi
		Added new address for five (5) records in Kamuela
		Added new address for twenty-six (26) records in Volcano
		Corrected spatial for one (1) record in Paauilo
		Corrected spatial for nine (9) records in Holualoa
		Added new address for one (1) record in Kealakekua
		Added new address for four (4) records in Captain Cook
		Corrected routingID for one (1) record in Keaau
		Added new address for two (2) records in Keauhou
		Corrected TMK for twenty-one (21) records in Pahoa
		Added new address for one (1) record in Kapaau
		Added new address for three (3) records in Papaikou
		Added new address for six (6) records in Naalehu
		Corrected TMK for one (1) record in Keaau
		Corrected routingID for six (6) records in Kamuela
		Added new address for fourteen (14) records in Kaulua Kona
		Added new address for twenty-one (21) records in Pahoa
		Added new address for thirty-four (34) records in Ocean View
		Corrected zipcode, for one (1) record in Ocean View
		Added new address for one (1) record in Holualoa
		Corrected TMK for three (3) records in Kamuela
		Corrected routingID for three (3) records in Volcano
		Corrected spatial, added alias for one (1) record in Keaau
		Corrected TMK for one (1) record in Mountain View
		Added new address for two (2) records in Honomu
		Added new address for four (4) records in Pepeekeo
		Corrected TMK for one (1) record in Holualoa
		Added new address for twelve (12) records in Kurtistown
		Corrected address for one (1) record in Volcano

Hawaii County E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART III)

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

HAWAII COUNTY		
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**GIS Delivery Dates/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	**2/12/19 To 2/25/19**	Added new address for three (3) records in Waikoloa
		Added new address for four (4) records in Honokaa
		Added new address for two (2) records in Hakalau
		Corrected spatial for five (5) records in Keaau
		Added new address for four (4) records in Paauilo
		Corrected TMK and routingID for one (1) record in Hilo
		Added new address for nine (9) records in Hilo
		Added new address for twenty-five (25) records in Keaau
		Added new address for thirty (30) records in Mountain View
		Corrected zipcode, corrected spatial, added address point for one (1) record in Ocean View
		Added new address for two (2) records in Laupahoehoe
		Corrected routingID for five (5) records in Hilo
	2/1/19 To 2/11/19	**Delivered on 2/12/2019**
		Verified address for one (1) record in Volcano
		Corrected routingID and corrected TMK for one (1) record in Hilo
		Corrected address for one (1) record in Kaulua Kona
		Added address point for one (1) record in Kaulua Kona
		Corrected address for two (2) records in Papaikou
		Corrected routingID for three (3) records in Volcano
		Corrected TMK for eighteen (18) records in Pahoa
		Verified address for one (1) record in Kamuela
		Corrected TMK, added alias, approximate location for one (1) record in Ocean View
		Corrected TMK for six (6) records in Volcano
		Corrected spatial for two (2) records in Waikoloa
		Corrected zipcode, added address point for one (1) record in Ocean View
		Corrected TMK for four (4) records in Keaau
		Corrected routingID for one (1) record in Kamuela
		Corrected zipcode, added alias for one (1) record in Ocean View
		Corrected location name for one (1) record in Kapaau
		Corrected zipcode, for five (5) records in Ocean View
		Verified address for one (1) record in Waikoloa
		Corrected TMK for two (2) records in Honokaa

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MAPPING LAYERS UPDATED (PART IV)

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

HAWAII COUNTY		
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**GIS Delivery Dates/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
Address Points	2/1/19 To 2/11/19	Verified address for one (1) record in Kaulua Kona
		Corrected TMK for four (4) records in Waikoloa
		Corrected routingID for four (4) records in Mountain View
		Corrected TMK for one (1) record in Kaulua Kona
		Verified address for one (1) record in Hilo
		Corrected TMK for two (2) records in Hilo
		Corrected TMK for three (3) records in Papaikou
		Corrected spatial, added new address point for one (1) record in Pahoa
		Corrected TMK for four (4) records in Kurtistown
		Corrected routingID for four (4) records in Captain Cook
		Corrected routingID for one (1) record in Kaulua Kona
		Corrected routingID for two (2) records in HVNP
		Corrected TMK for one (1) record in Captain Cook
		Corrected routingID for three (3) records in Kurtistown
		Corrected spatial, added address point for one (1) record in Pahoa
		Correted TMK one (1) record in Kaulua Kona
		Corrected routingID for four (4) records in Ocean View
		Corrected TMK for one (1) record in Ocean View
		Corrected TMK and corrected spatial for one (1) record in Hilo
		Corrected routingID for one (1) record in Waikoloa
		Corrected routingID for eight (8) records in Hilo
		Corrected spatial for one (1) record in Hilo
		Corrected routingID for five (5) records in Pahoa
Airports		
Bridges		
Building Footprints		
Bus Stops		
Churches		
Coastal Names		
Coastline		
Common Places		
Correctional Facilities		

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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 Created/ Edits Performed**	**GIS Delivery Dates/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)		
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		
Ocean Rescue Boundaries		
Ocean Safety		
Parcels		

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MAPPING LAYERS UPDATED (PART VI)

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)		
Parks		
Parks Polygon		
Points of Interest		
Police Beats		
Police Districts		
Police Response Areas		
Police Stations		
Post Offices		
Schools		
Street Centerlines	**2/26/19 To 2/28/19**	**Next Delivery on 3/12/2019**
		Corrected range and corrected MSAG exception for one (1) record in Paauilo
		Added new segment for for one (1) record in Kamuela
		Added new segment for for one (1) record in Naalehu
		Corrected range for seven (7) records in Kapaau
		Corrected range for two (2) records in Papaikou
		Corrected range for one (1) record in Holualoa
		Added new segment for for three (3) records in Keauhou
		Added new segment for for one (1) record in Honokaa
		Added new segment for for three (3) records in Waikoloa
		Added new segment for and corrected range for two (2) records in Holualoa
		Split segment and corrected range for four (4) records in Naalehu
		Corrected MSAG exception for four (4) records in Kamuela
		Corrected range for three (3) records in Naalehu
		Corrected range for five (5) records in Paauilo
		Added new segment for for one (1) record in Ocean View
		Corrected range for six (6) records in Kamuela
		Corrected range for one (1) record in Pahoa
		Corrected range for one (1) record in Honokaa
	2/12/19 To 2/25/19	**Delivered on 2/26/2019**
		Corrected range and corrected parity for one (1) record in Holualoa
		Corrected range for two (2) records in Kapaau
		Corrected range for two (2) records in Papaikou

Hawaii County E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART VII)

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)		
Street Centerlines	**2/12/19 To 2/25/19**	Corrected MSAG exception for twenty-seven (27) records in Kamuela
		Updated MSAG exception for one (1) record in Mountain View
		Corrected range for one (1) record in Naalehu
		Corrected range for one (1) record in Paauilo
		Corrected range for six (6) records in Kamuela
		Corrected range for one (1) record in Honokaa
		Updated MSAG exception for two (2) records in Kurtistown
Subdivisions		
Tow Jurisdictions		
Tsunami Evacuation Zones		
Tsunami Heights		
Waste Water Plants		
WSP Cell Sectors	**2/12/19 To 2/25/19**	**Delivered on 2/26/2019**
		Added one (1) sector per Verizon Wireless CRS
		Updated three (3) sectors per Verizon Wireless CRS
WSP Cell Towers	**2/12/19 To 2/25/19**	**Delivered on 2/26/2019**
		Updated two (2) towers per Verizon Wireless CRS

Hawaii County E9-1-1 Status Report

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GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVES

GIS KEY ACTIVITIES/UPDATES

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

Date	Key Activities/Updates
2/12/2019	Delivered Address Points, Cell Sectors, Cell Towers, Points of Interest, Street Centerlines, and Common Places for Mapflex for Hawaii County.
2/12/2019	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 Spillman for Hawaii County
2/26/2019	Delivered Address Points, Cell Sectors, Cell Towers, Street Centerlines, and Common Places for Hawaii County Mapflex.
2/26/2019	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.

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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 **February 26, 2019**. Results are as follows:

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	248	
Addresses Removed	0	
Address Street Name Changes	3	
Address Street Number Changes	5	
New Street Segments Added		8
Street Segments Removed		0
Street Segment Range Changes		15
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 February 2019.

Hawaii County – February 12th, 2019 and February 26th, 2019
Maui County – February 13th, 2019 and February 27th, 2019
Kauai County – February 14st, 2019, and February 28th, 2019
Honolulu – February 1st, 2019, and February 15th, 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

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5/24/2018	Incorrect Addresses	MapFlex system began displaying incorrect addresses in the bubble display when an Address Point is right mouse clicked to see information by the PSAPs. However, the address in the data is still correct as shown on the left hand side.	Pending
6/27/2018	Moving Labels	It was brought up during the PSAP teleconference with Hawaiian Tel and West that the Hawaii Fire Department submitted a trouble ticket regarding the parcel labels. When the base map is checked on for viewing the owner's names on the parcel layer, the names of some of the parcels will follow and leave their parcel as the map is panned following streets. This problem was also recreated at the Hawaii Police Department.	Pending

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – FEBRUARY 2019

#	Date	Ticket #	Description	PSAP	Urgency	Comments
1	01/23/19	1/23/2019	Incorrect Address	Hawaii Fire	Normal	TN has been referred to 911 team at inteliquent.com for further research. 1/28/2019 ABH
2	2/20/2019	1018	Updated Lat\Long	Hawaii Fire	Normal	Confirmation pending from Spectrum Charter. 2/28/2019 RS
3	2/20/2019	1019	Updated address	Hawaii Fire	Normal	Confirmation pending from Spectrum Charter. 2/28/2019 RS

Note* There are three (3) opened service request pending for February 2019.

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

HAWAII COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2019	TOTAL		Open	WIRELINE		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2018 Carryover*			1						
January	5	5	1	2	3	0	0	3	2
February	6	4	3	3	3	0	0	3	1
March									
April									
May									
June									
July									
August									
September									
October									
November									
December									
TOTAL	**11**	**9**	**3**	**5**	**6**	**0**	**0**	**6**	**3**

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

Definitions:	Category	Description
	Wireline	Telephone Number (ALI) Discrepancies from land line phones that have been submitted to 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

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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)

As part of Akimeka's value added services, Akimeka conducted a quarterly database synchronization audit for Hawaii County in **February 2019**.

The database synchronization effort included comparing Hawaii County's 9-1-1 MSAG against its GIS Street Centerline data. A total number of **4,578** 9-1-1 MSAG records were reviewed in the audit and analyzed. Results of the database synchronization audit completed on February 1, 2019 for Hawaii 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%.

The database synchronization process is essential to monitor and ensure the level of accuracy of the E9-1-1 databases and prepare for Next Generation 9-1-1 (NG9-1-1). As such, Akimeka will perform database synchronization audits on a quarterly basis as part of it ongoing maintenance process. Results of the database synchronization audit will be included and reported in the Monthly Status Report (MSR) accordingly.

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AUDIT SUMMARY RESULTS – FEBRUARY 2019

9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	Notes	As of May 1, 2018		As of August 1, 2018		As of November 1, 2018		As of February 1, 2019	
		9-1-1 MSAG Dated 5-01-18		9-1-1 MSAG Dated 8-01-18		9-1-1 MSAG Dated 11-01-18		9-1-1 MSAG Dated 2-01-19	
		# of Records	%	# of Records	%	# of Records	%	# of Records	%
Total 9-1-1 MSAG Records Reviewed		**4,557**		**4,569**		**4,580**		**4,578**	
Less: 9-1-1 MSAG Exception Records	(1)	54	1.2%	51	1.1%	51	1.1%	45	1.0%
Net 9-1-1 MSAG Records Eligible for Comparison		**4,503**		**4,518**		**4,529**		**4,533**	
Total 9-1-1 MSAG Records Match (9-1-1 MSAG -- GIS Match -- No Corrections Required)		**4,495**	**99.8%**	**4,511**	**99.8%**	**4,520**	**99.8%**	**4,515**	**99.6%**
9-1-1 MSAG -- GIS No Match Minor Correction Required	(2)	7	0.2%	4	0.1%	5	0.1%	11	0.2%
9-1-1 MSAG Record With No GIS Record	(3)	1	0.0%	3	0.1%	4	0.1%	7	0.2%
Total 9-1-1 MSAG Records No Match		**8**	**0.2%**	**7**	**0.2%**	**9**	**0.2%**	**18**	**0.4%**

Notes:

(1) 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.

(2) 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.).

(3) 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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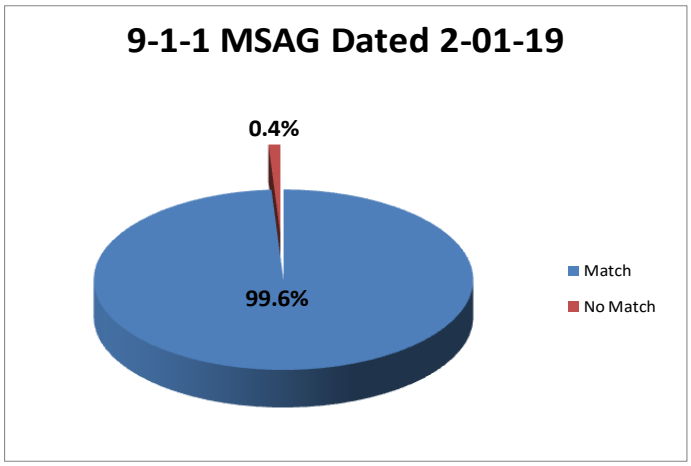
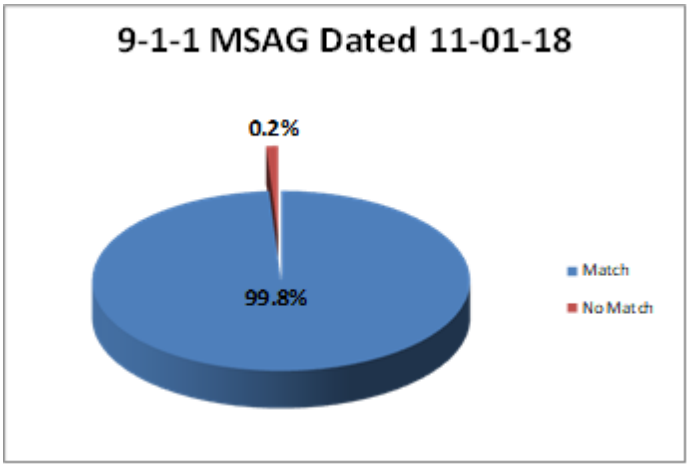
AUDIT SUMMARY RESULTS COMPARISION – FEBRUARY 1, 2019 VS NOVEMBER 1, 2018





NOTE:

Hawaii County's level of accuracy or 9-1-1 Match percentage remained constant

from 99.6% as of February 1, 2019 to 99.8% as of November 1, 2018

NENA Recommended Match Rate = 98%

AUDIT SUMMARY RESULTS

COMPARISON NOTES:

- There continues to be a tremendous work effort to synchronize the MSAG and GIS data. Akimeka continues to work closely with County Planning to address problem areas. Hawai`i County has worked very hard to assign addresses and name and range street centerlines which have helped facilitate Akimeka's synchronization efforts.
- "MSAG - MSAG with Missing GIS Records" increased from four (4) to seven (7) records from November 2018 to February 2019. MSAG records with missing record were due primarily to the verification of the MSAG records against multiple GIS databases to determine if the roads are existing within Hawaii County.
- "MSAG - GIS Minor Corrections" increased from five (5) to eleven (11) records from November 2018 to February 2019. The non-match condition of the eleven records are a result in which MSAG records submitted in 9-1-1 Net were not completed prior to the end of month. The MSAG section will monitor these records to ensure they are processed in 9-1-1Net prior to the May 2019 re-analysis
- "GIS Record with No Matching MSAG Record" increased from five (5) to sixteen (16) records from November 2018 to February 2019. This includes GIS records that have no MSAG records, and/or GIS records that do not match the MSAG record exactly.
- "GIS Record with No MSAG Record" increased from one (1) to four (4) record from November 2018 to February 2019. This was primarily the result of edits made to the GIS Street Centerlines layer in order to meet new NG9-1-1 requirements.
- Ongoing maintenance is critical to ensure the database synchronized level of address accuracy is maintained each time an MSAG or GIS record is "touched".

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INVALID MSAG STREETS AND ADDRESS RANGES – ESN X99 RECORDS

At the request of the County of Hawai'i Chief of Police, Hawaiian Telcom, Inc. (HTI) provided Hawai'i 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. Results of the data provided are as follows:

HAWAII	Invalid MSAG Records	
	9-1-1 MSAG Dated 02-01-19	
	Number of Records	% of Total Inlavid MSAG Records
ESN 299	199	4.2%

These invalid MSAG records represent **4.2%** of the Total MSAG records for Hawai'i County. The individual ALI records associated with these records are provided below.

TN CRs are submitted by Akimeka when valid MSAG addresses are identified and validated against the GIS data. Akimeka will continue to investigate and report on these ESN 299 MSAG records as a separate project and add-on to the Database Synchronization quarterly report.

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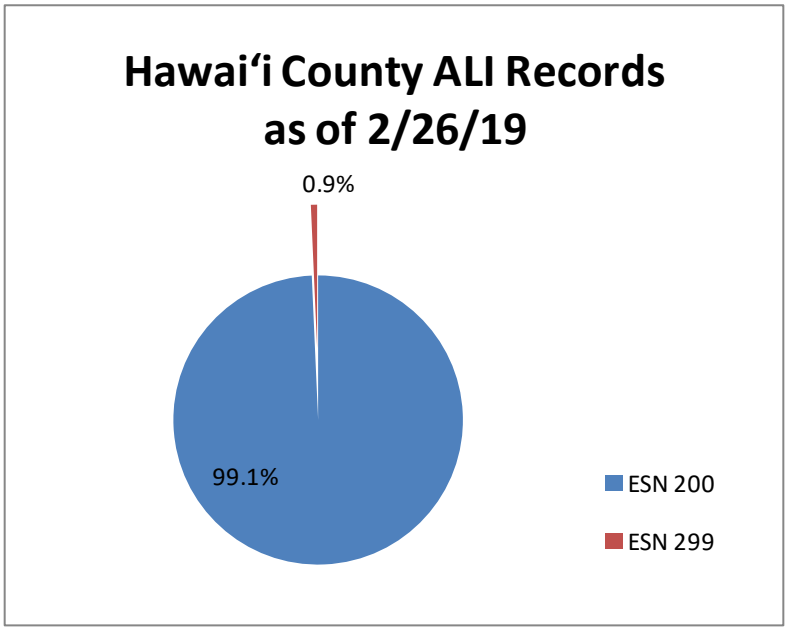
AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT

As part of Akimeka's ongoing database synchronization efforts, Akimeka reviewed and summarized the ALI discrepancy reports by community for Hawai'i County. As of February 26, 2019, **620** ESN 299 records, representing **.9%** of Hawai'i County's total ALI records, require research and corrective action, if needed. These ALI discrepancy reports may result in a No Record Found (NRF) condition during a 9-1-1 call.