

Maui County E9-1-1 Status Report

December 1, 2017 – December 31, 2017



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Maui County E9-1-1 Status Report

December 1, 2017 - December 31, 2017

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME MAUI PSAP – DECEMBER 2017

(Source: West Safety Services Viper system)

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

9-1-1 Call Volume																	
MAUI PSAP		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
DEC	11,335	1,863	16.44%	7,816	68.95%	55.00%	45.00%	316	2.79%	2	0.02%	0	0.00%	1,338	11.80%	0	0.00%

CALL VOLUME MAUI PSAP NOTES:

*Calls with No ALI for December 2017 = 0.02% - Statewide average for 2016 = 0.15%

9-1-1 CALL VOLUME MAUI PSAP – CALENDAR YEAR 2017

9-1-1 Call Volume																	
MAUI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
JAN	10,192	1,991	19.53%	6,822	66.93%	58.44%	41.56%	286	2.81%	14	0.14%	0	0.00%	1,079	10.59%	0	0.00%
FEB	9,578	1,888	19.71%	6,354	66.34%	58.59%	41.41%	306	3.19%	9	0.09%	0	0.00%	1,021	10.66%	0	0.00%
MAR	11,067	2,168	19.59%	7,283	65.81%	53.99%	46.01%	344	3.11%	8	0.07%	0	0.00%	1,264	11.42%	0	0.00%
APR	10,206	1,915	18.76%	6,822	66.84%	52.33%	47.67%	319	3.13%	3	0.03%	0	0.00%	1,147	11.24%	0	0.00%
MAY	10,262	1,887	18.39%	6,944	67.67%	51.21%	48.79%	332	3.24%	4	0.04%	0	0.00%	1,095	10.67%	0	0.00%
JUNE	9,893	1,665	16.83%	6,809	68.83%	52.15%	47.85%	299	3.02%	8	0.08%	0	0.00%	1,112	11.24%	0	0.00%
JULY	10,732	1,928	17.96%	7,373	68.70%	53.63%	46.37%	339	3.16%	6	0.06%	0	0.00%	1,086	10.12%	0	0.00%
AUG	10,232	1,849	18.07%	7,023	68.64%	52.47%	47.53%	285	2.79%	11	0.11%	0	0.00%	1,064	10.40%	0	0.00%
SEPT	9,661	1,629	16.86%	6,732	69.68%	52.32%	47.68%	336	3.48%	10	0.10%	0	0.00%	954	9.87%	0	0.00%
OCT	10,266	1,738	16.93%	7,119	69.35%	53.28%	46.72%	343	3.34%	10	0.10%	0	0.00%	1,056	10.29%	0	0.00%
NOV	10,261	1,733	16.89%	7,039	68.60%	54.92%	45.08%	322	3.14%	7	0.07%	0	0.00%	1,160	11.30%	0	0.00%
DEC	11,335	1,863	16.44%	7,816	68.95%	55.00%	45.00%	316	2.79%	2	0.02%	0	0.00%	1,338	11.80%	0	0.00%
YTD	123,685	22,254		84,136				3,827		92		0		13,376		0	
MON AVG	10,307	1,855	18.00%	7,011	68.03%	54.03%	45.97%	319	3.10%	8	0.08%	0	0.00%	1,115	10.80%	0.00	0.00%

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9-1-1 CALL VOLUME MOLOKAI PSAP – DECEMBER 2017

9-1-1 Call Volume																	
MOLOKAI PSAP		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
DEC	757	196	25.89%	451	59.58%	67.18%	32.82%	7	0.92%	2	0.26%	0	0.00%	101	13.34%	0	0.00%

CALL VOLUME MOLOKAI PSAP NOTES:

* Calls with No ALI for December 2017 = 0.26% - Statewide average for 2016 = 0.15%

9-1-1 CALL VOLUME MOLOKAI PSAP – CALENDAR YEAR 2017

9-1-1 Call Volume																	
MOLOKAI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
JAN	347	127	36.60%	182	52.45%	58.79%	41.21%	0	0.00%	1	0.29%	0	0.00%	37	10.66%	0	0.00%
FEB	264	90	34.09%	140	53.03%	67.86%	32.14%	3	1.14%	0	0.00%	0	0.00%	31	11.74%	0	0.00%
MAR	369	129	34.96%	196	53.12%	65.82%	34.18%	2	0.54%	3	0.81%	0	0.00%	39	10.57%	0	0.00%
APR	367	106	28.88%	212	57.77%	62.26%	37.74%	3	0.82%	2	0.54%	0	0.00%	44	11.99%	0	0.00%
MAY	376	107	28.46%	232	61.70%	58.62%	41.38%	0	0.00%	0	0.00%	0	0.00%	37	9.84%	0	0.00%
JUNE	362	113	31.22%	215	59.39%	64.65%	35.35%	0	0.00%	0	0.00%	0	0.00%	34	9.39%	0	0.00%
JULY	474	108	22.78%	299	63.08%	59.20%	40.80%	2	0.42%	1	0.21%	0	0.00%	64	13.50%	0	0.00%
AUG	639	146	22.85%	398	62.28%	66.08%	33.92%	5	0.78%	1	0.16%	0	0.00%	89	13.93%	0	0.00%
SEPT	588	127	21.60%	376	63.95%	59.04%	40.96%	1	0.17%	2	0.34%	0	0.00%	82	13.95%	0	0.00%
OCT	711	188	26.44%	422	59.35%	53.79%	46.21%	3	0.42%	1	0.14%	0	0.00%	97	13.64%	0	0.00%
NOV	675	162	24.00%	427	63.26%	67.21%	32.79%	0	0.00%	1	0.15%	0	0.00%	85	12.59%	0	0.00%
DEC	757	196	25.89%	451	59.58%	67.18%	32.82%	7	0.92%	2	0.26%	0	0.00%	101	13.34%	0	0.00%
YTD	5,929	1,599		3,550				26		14		0		740		0	
MON AVG	494	133	28.15%	296	59.08%	62.54%	37.46%	2.17	0.43%	1	0.24%	0	0.00%	61.667	12.10%	0	0.00%

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9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – DECEMBER 2017

9-1-1 Call Volume																	
MAUI COUNTY PSAPs		Wireline		Wireless				VOIP Calls		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
DEC	12,092	2,059	17.03%	8,267	68.37%	55.67%	44.33%	323	2.67%	4	0.03%	0	0.00%	1,439	11.90%	0	0.00%

9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – CALENDAR YEAR 2017

9-1-1 Call Volume																	
MAUI COUNTY PSAPs		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2017	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 Calls	% of Total Calls
JAN	10,539	2,118	20.10%	7,004	66.46%	58.45%	41.55%	286	2.71%	15	0.14%	0	0.00%	1,116	10.59%	0	0.00%
FEB	9,842	1,978	20.10%	6,494	65.98%	58.79%	41.21%	309	3.14%	9	0.09%	0	0.00%	1,052	10.69%	0	0.00%
MAR	11,436	2,297	20.09%	7,479	65.40%	54.30%	45.70%	346	3.03%	11	0.10%	0	0.00%	1,303	11.39%	0	0.00%
APR	10,573	2,021	19.11%	7,034	66.53%	52.63%	47.37%	322	3.05%	5	0.05%	0	0.00%	1,191	11.26%	0	0.00%
MAY	10,638	1,994	18.74%	7,176	67.46%	51.45%	48.55%	332	3.12%	4	0.04%	0	0.00%	1,132	10.64%	0	0.00%
JUNE	10,255	1,778	17.34%	7,024	68.49%	52.53%	47.47%	299	2.92%	8	0.08%	0	0.00%	1,146	11.18%	0	0.00%
JULY	11,206	2,036	18.17%	7,672	68.46%	53.85%	46.15%	341	3.04%	7	0.06%	0	0.00%	1,150	10.26%	0	0.00%
AUG	10,871	1,995	18.35%	7,421	68.26%	53.20%	46.80%	290	2.67%	12	0.11%	0	0.00%	1,153	10.61%	0	0.00%
SEPT	10,249	1,756	17.13%	7,108	69.35%	52.67%	47.33%	337	3.29%	12	0.12%	0	0.00%	1,036	10.11%	0	0.00%
OCT	10,977	1,926	17.55%	7,541	68.70%	53.31%	46.69%	346	3.15%	11	0.10%	0	0.00%	1,153	10.50%	0	0.00%
NOV	10,936	1,895	17.33%	7,466	68.27%	55.63%	44.37%	322	2.94%	8	0.07%	0	0.00%	1,245	11.38%	0	0.00%
DEC	12,092	2,059	17.03%	8,267	68.37%	55.67%	44.33%	323	2.67%	4	0.03%	0	0.00%	1,439	11.90%	0	0.00%
YTD	129,614	23,853		87,686				3,853		106		0		14,116		0	
MON AVG	10,801	1,988	18.42%	7,307	67.64%	54.37%	45.63%	321	2.98%	9	0.08%	0.00	0.00%	1,176	10.88%	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 Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) 911 calls are combined in the Call Volume statistic.
- Outgoing 911 calls are included in the totals. These are ringback or callback 911 calls made from the Viper System.

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FOR YOUR INFORMATION

FYI For Your Information				
PSAP Operations				
Statewide 911 Call Volumes for 2016 & 2015 compare				
PSAP	2016		2015	
Oahu Civilian	1,009,059	71.93%	1,019,402	70.94%
Hawaii County	205,412	14.64%	217,768	15.15%
Maui County	137,333	9.80%	142,952	9.95%
Kauai County	50,955	3.63%	56,874	3.96%
Total	1,402,759	100.00%	1,436,997	100.00%
*Statewide average does not include Military 911 calls.				

TEXT TO 911 – CURRENT MONTH – DECEMBER 2017

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.

TEXT TO 911 Maui County PSAPs 2017		
Month	Received at Maui	Received at Molokai
January	12	1
February	15	0
March	17	2
April	16	0
May	34	6
June	18	3
July	13	2
August	19	0
September	17	1
October	21	0
November	21	1
December	14	1
YTD	217	17
Monthly Avg.	18.08	1.42

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WIRELESS PSAP TESTING – DECEMBER 2017

MAUI COUNTY - DECEMBER 2017						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:
12/15/2017	Verizon	2	6	Maui PSAP	Pass	2 sites

NOTES:

- There were two (2) scheduled Wireless 911 tests conducted in December, 2017 for the Maui and Molokai PSAP.
- All 911 calls for service from Lanai are routed to the Molokai PSAP.

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – DECEMBER 2017

MAUI COUNTY	9-1-1 TRANSACTIONS								Customer Addresses Affected
	Total	Dispatchable Location Transactions Submitted	MSAG	ALI Submitted		Open ALI Discrepancy Records			
		DL (A)	MSAG (B)	TN CR (C)	ALI DR (D)	TNCR	ALI DR	VoIP DR	
2017									
JANUARY	146	134	7	3	2	264	0	0	21
FEBRUARY	231	207	11	7	6	259	0	0	203
MARCH	130	80	16	33	1	228	0	0	68
APRIL	173	107	8	58	0	238	0	0	72
MAY	153	118	10	24	1	218	0	0	179
JUNE	137	127	8	1	1	218	0	0	145
JULY	128	117	10	1	0	172	0	0	197
AUGUST	200	160	27	6	7	169	0	0	236
SEPTEMBER	151	139	10	1	1	144	0	0	181
OCTOBER	176	163	10	0	3	138	0	0	188
NOVEMBER	160	139	6	13	2	152	0	0	154
DECEMBER	176	155	14	7	0	173	0	0	342
TOTAL YTD	1,961	1,646	137	154	24				1,986
AVG PER MONTH	163	137	11	13	2				166

Definitions

- (A) **Dispatchable Location** - is defined in the FCC 15-9 Docket as the verified or corroborated street address of the calling party plus additional information such as floor, suite, apartment or similar information that may be needed to adequately identify the location of the calling party. Please see Dispatchable Location Section for more information.
- (B) **Master Street Address Guide** - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (C) **Telephone Number Change Request** - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 299 attached to them which indicates the need for validation.
- (D) **Automatic Location Information Discrepancy Record** - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline OR a VoIP phone. These record corrections are treated with a higher priority and should be processed within 48 hours if wireline, and 72 hours if a VoIP phone, as a general guideline.

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MSAG CURRENT MONTH NOTES:

A total of **176** MSAG transactions were processed in 9-1-1 Net during the current month. Fourteen (**14**) 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. **342** customer ANI/ALI (telephone number/address) records updated as a direct result.

155 Dispatchable Location transactions were submitted during the current month.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

155 Telephone Number Change Request (TN CR) transactions were processed and **122** were corrected in 9-1-1 Net during the current month, relating to the Dispatchable Location project.

OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are currently 173 Open TN CR Transactions.**
- **Refer to chart in the next section “TNCR Current Status”**

140 Open TN CR transactions are a direct result of the ESN 399/359 clean-up and are awaiting approval from Hawaiian Telcom, Inc. **33** Open TN CR transactions are a result of the Dispatchable Location project. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to West for correction, it must be verified against HT records and/or approved by the customer. West's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

There are no open ALI DRs

- **There are no open VoIP DRs**

NARRATIVE:

Akimeka has prepared a total of **2,666** Dispatchable Location transactions for submission. **155** transactions were submitted and **122** transactions were processed by West in December 2017.

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – DECEMBER, 2017

NOTE:

- 9-1-1 NET is a secure web-based application that provides access to request changes to the MSAG, ALI, TN, and ESN/ELT data supported and maintained by West Safety Services for the Telephone Company (TelCo).
- TNCRs are not requests to change Telephone Numbers (TNs); however, it is a corrective process within 9-1-1 NET to modify location information associated with an Automatic Location Identification (ALI) record to a valid MSAG address for 9-1-1 purposes.

PSAP 9-1-1 Telephone Number Location Change Request (Telephone Number Change Request (TNCR) Status)				
County	TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY WEST SAFETY SERVICES (INTRADO)	OPENED TNCRS REFERRED TO TELCO BY WEST SAFETY SERVICES (INTRADO)	TOTAL UNOPENED TNCR RECORDS
MAUI	142	54	46	42
MOLOKAI	31	10	11	10
TOTAL	173	64	57	52

STATUS
<u>TOTAL TNCRS SUBMITTED</u> - The total number of TNCR requests for modification that have been submitted in 9-1-1
<u>PENDING STATUS</u> - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and are pending investigation whether the request is valid or invalid, and/or whether the request requires additional information to validate.
<u>REFERRED STATUS</u> - TNCRs assigned this status are requests which have been reviewed by the 9-1-1 Database Service Provider Data Analyst, and the request requires additional information to validate. The West Safety Services Data Analysts assigns this status to a TNCR and the request is referred to the telephone service providers for further research.
<u>TOTAL UNOPENED TNCR RECORDS STATUS</u> - The request is submitted by Akimeka on behalf the PSAP; however, processing by the 9-1-1 Database Service Provider Data Analyst has not begun.

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DISPATCHABLE LOCATION – STATUS AS OF – DECEMBER 2017 - PENDING

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 Queen Kaahumanu Shopping Center at 275 Kaahumanu Ave. 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. Screen shots of the “Before” ALI screen, and the “After” ALI screen with the updated “Dispatchable Location” information visible, were presented to the Dispatch Supervisors. Akimeka received positive feedback from the 911 Dispatch Personnel because the information that the 911 Call Takers will receive, will certainly cut down on the process of determining the exact location of the 911 caller. In addition to this, Akimeka was informed that the Mobile Dispatch Terminals (MDTs) in the Police Vehicles, also are able to view this “Dispatchable Location” information which will reduce the response times for Public Safety.

Dispatchable Location				
2017	Common Name Place MSAG Address	TNCR*	TNCR*	Transactions Processed**
Quarter 4		Transactions Prepared	Transactions Submitted	
Quarter 3 Carryover		2,372	1,075	1,071
October	Lahaina Outlets, 900 Front St, Lahaina	0	55	55
	Maui Mall, 70 E Kaahumanu Ave, Kahului	0	18	18
	Shops at Wailea, 3750 Wailea Alanui Dr, Wailea	0	90	90
November	Leinaala Condos, 998 S Kihei Rd, Kihei	18	18	18
	Maui Vista, 2191 S Kihei Rd, Kihei	121	121	121
December	Kamaole Beach Royale, 2385 S Kihei Rd, Kihei	47	47	47
	Kihei Alii Kai, 2387 S Kihei Rd, Kihei	60	60	60
	Maui Coast Hotel, 2259 S Kihei Rd, Kihei	17	17	0
	Maui Sunset, 1032 S Kihei Rd, Kihei	16	16	0
	Maui Vista, 2191 S Kihei Rd, Kihei	15	15	15
Total		294	457	424
YTD Total		2,666	1,532	1,495

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT – DECEMBER 2017

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

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

*Spectrum (Charter) 9-1-1 VoIP Database Verification Project					
PSAP	TOTAL RECORDS SUBMITTED BY SPECTRUM (A)	TOTAL RECORDS MATCHING & VERIFIED WITH 911 DATABASES (B)	TOTAL RECORDS NOT MATCHING	NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)	PERCENT COMPLETED
HAWAII County	22,044	21,638 (98%)	406	406	100.00%
KAUAI County	8,936	8,695 (97%)	241	241	100.00%
MAUI County	18,256	17,517 (96%)	739	739	100.00%
OAHU Civilian	87,414	85,329 (98%)	2,085	452	21.68%
OAHU Military	3,663	710 (19%)	2,953	2,658	90.01%
TOTAL	140,313	**133,889	6,424	4,496	82.3%

* Spectrum VoIP Database received on June 21st, 2017

** Akimeka provided VoIP Records with Latitude/Longitude coordinates

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

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – DECEMBER 2017

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.

MAUI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Address Points	12/27/2017		Added one (1) address in Haliimaile	
	12/27/2017		Spatially corrected two (2) address points in Kula	
	12/27/2017		Added one (1) address in Kula	
	12/27/2017		Added one (1) address in Waikapu	
	12/26/2017		Added one (1) address in Hana	
	12/26/2017		Added one (1) address in Kula	
	12/26/2017		Added two (2) addresses in Lahaina	
		12/20/17		
	12/18/2017		Spatially corrected one (1) address in Kapalua	
	12/18/2017		Added Location Name to one (1) address in Kapalua	
	12/18/2017		Added one (1) address in Wailuku	
	12/14/2017		Added seven (7) address points in Haiku	
	12/14/2017		Updated street name for ten (1) addresses in Kahului	
	12/14/2017		Added five (5) address points in Kahului	
	12/14/2017		Added one (1) address in Kaunakakai	
	12/14/2017		Added one (1) address in Kihei	
	12/14/2017		Updated seven (7) addresses in Kihei	
	12/14/2017		Added one (1) address in Kula	
	12/14/2017		Spatially corrected one (1) address point in Pukalani	
	12/14/2017		Added six (6) address points in Wailea	
	12/14/2017		Added two (2) addresses in Wailuku	
	12/13/2017		Added one (1) address in Wailea	
		12/06/17		
	12/6/2017		Updated Location Name for one (1) address in Wailuku	
	12/6/2017		Spatially corrected twenty-two (22) address points in Kahului	
	12/6/2017		Added nine (9) addresses in Kahului	
	12/4/2017		Added one (1) address in Kihei	
	12/4/2017		Updated building info for sixty (60) addresses in Kihei	
12/1/2017		Updated street name for three (3) addresses in Wailea		
Airports				
Bridges				

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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.

MAUI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Building Footprints	12/27/2017		Deleted three hundred ninety-three (393) duplicate building footprints	
	12/27/2017		Spatially corrected four (4) building footprints in Kahului	
	12/27/2017		Added forty-seven (47) building footprints in Kahului	
	12/27/2017		Spatially corrected two (2) building footprints in Kaunakakai	
	12/27/2017		Spatially corrected one (1) building footprint in Lanai	
	12/27/2017		Added eight (8) building footprints in Makawao	
	12/27/2017		Spatially corrected thirteen (13) building footprints in Waihee	
	12/27/2017		Spatially corrected twenty-two (22) building footprints in Wailuku	
		12/20/17		
	12/19/2017		Deleted thirty-nine (39) duplicate building footprints	
	12/19/2017		Added six (6) building footprints in Lahaina	
	12/19/2017		Added eleven (11) building footprints in Makawao	
	12/19/2017		Added one (1) building footprint in Wailuku	
	12/19/2017		Spatially corrected twenty-two (22) building footprints in Wailuku	
	12/18/2017		Deleted seventy-nine (79) duplicate building footprints	
	12/18/2017		Spatially corrected twenty-six (26) building footprints in Hoolehua	
	12/18/2017		Spatially corrected five (5) building footprints in Kahului	
	12/18/2017		Added one (1) building footprint in Kapalua	
	12/18/2017		Spatially corrected eleven (11) building footprints in Lahaina	
	12/18/2017		Spatially corrected six (6) building footprints in Maunaloa	
	12/18/2017		Added four (4) building footprints in Maunaloa	
	12/18/2017		Spatially corrected seven (7) building footprints in Paia	
	12/18/2017		Added one (1) building footprint in Paia	
	12/18/2017		Added fifteen (15) building footprints in Pukalani	
	12/14/2017		Deleted ten (10) duplicate building footprints	
	12/14/2017		Spatially corrected two (2) building footprints in Kahului	
	12/14/2017		Added two (2) building footprints in Kahului	
	12/14/2017		Added one (1) building footprint in Lahaina	
	12/14/2017		Added twenty (20) building footprints in Makawao	
	12/13/2017		Deleted ninety (90) duplicate building footprints	
	12/13/2017		Added seven (7) building footprints in Napili	
	12/13/2017		Spatially corrected six (6) building footprints in Kaunakakai	

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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.

MAUI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Building Footprints	12/13/2017		Spatially corrected eight (8) building footprints in Kihei	
	12/13/2017		Spatially corrected sixteen (16) building footprints in Kualapuu	
	12/12/2017		Deleted forty-six (46) duplicate building footprints	
	12/12/2017		Spatially corrected thirty (30) building footprints in Lanai	
	12/12/2017		Added two (2) building footprints in Lanai	
	12/12/2017		Added two (2) building footprints in Hana	
	12/12/2017		Spatially corrected one (1) building footprint in Kahului	
	12/12/2017		Spatially corrected eight (8) building footprints in Kaunakakai	
	12/12/2017		Added three (3) building footprints in Kaunakakai	
	12/12/2017		Spatially corrected fourteen (14) building footprints in Kihei	
	12/12/2017		Added one (1) building footprint in Kihei	
	12/12/2017		Added one (1) building footprint in Kualapuu	
	12/12/2017		Added one (1) building footprint in Kula	
	12/12/2017		Added two (2) building footprints in Lanai	
	12/12/2017		Spatially corrected one (1) building footprint in Wailuku	
	12/11/2017		Added eighteen (18) building footprints in Lahaina	
		12/07/17		
	12/5/2017		Added twenty-nine (29) building footprints in Hana	
	12/5/2017		Added one (1) building footprint in Kihei	
	12/5/2017		Added nine (9) building footprints in Kula	
	12/4/2017		Deleted two hundred forty-four (244) duplicate building footprints	
	12/4/2017		Spatially corrected one (1) building footprint in Haiku	
	12/4/2017		Added thirteen (13) building footprints in Haiku	
	12/4/2017		Added nine (9) building footprints in Kula	
	12/4/2017		Spatially corrected ten (10) building footprints in Makawao	
	12/4/2017		Added one (1) building footprint in Paia	
	12/4/2017		Spatially corrected seven (7) building footprints in Paia	
	12/1/2017		Deleted four (4) duplicate building footprints	
	12/1/2017		Added six (6) building footprints in Kihei	
	12/1/2017		Added seventeen (17) building footprints in Kula	
Bus Stops				
Churches				

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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.

MAUI COUNTY			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Coastal Names			
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes		12/20/17	
	12/14/2017		Updated one (1) emergency callbox address in Kihei
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations			
Food & Beverage			
Gas Stations			
Gate Codes		12/20/17	
	12/12/2017		Updated one (1) gate code in Napili
		12/06/17	
	12/1/2017		Added one (1) gate code in Wailea
Government Buildings			
Harbors			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hydrology Layers			
Incident Response Areas			
Lodging			
Major Roads		12/20/17	
	12/14/2017		Updated street name for nine (9) street centerline segments in Kahului
	12/14/2017		Updated street name for three (3) street centerline segments in Kihei

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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.

MAUI COUNTY			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
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			
Points of Interest		12/20/17	
	12/18/2017		Spatially corrected one (1) POI in Kapalua
	12/14/2017		Updated street name for ten (10) POI in Kahului
	12/14/2017		Updated five (5) POI street name in Kihei
	12/14/2017		Added one (1) POI in Wailea
		12/06/17	
12/6/2017		Updated one (1) POI name in Wailuku	
Police Beats			
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools		12/20/17	
	12/19/2017		Corrected one (1) school name in Lahaina
	12/18/2017		Spatially corrected one (1) school in Kapalua
	12/18/2017		Updated one (1) school address in Wailuku
	12/12/2017		Updated one (1) school name in Hana
Street Centerlines		12/20/17	
	12/14/2017		Extended range for one (1) street centerline in Wailea
	12/14/2017		Updated street name for ten (10) street centerline segments in Kahului

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MAPPING LAYERS UPDATED (PART VI)

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.

MAUI COUNTY				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)				
Street Centerlines	12/14/2017		Updated street name for three (3) street centerline segments in Kihei	
	12/13/2017		Extended range for one (1) street centerline in Kaunakakai	
	12/13/2017		Extended range for one (1) street centerline in Kaunakakai	
	12/13/2017		Spatially corrected four (4) street centerline segments in Lahaina	
		12/06/17		
Subdivisions				
Tow Jurisdictions				
Tsunami Evacuation Zones				
Tsunami Heights				
Waste Water Plants				
		12/20/17		
WSP Cell Sectors	12/15/2017		Per Verizon CRS	
	12/15/2017		Per AT&T CRS	
	12/12/2017		Per Sprint CRS	
	12/12/2017		Per Verizon CRS	
			12/06/17	
	12/4/2017		Per AT&T CRS	
		12/20/17		
WSP Cell Towers	12/15/2017		Per Verizon CRS	
	12/15/2017		Per AT&T CRS	
	12/12/2017		Per Sprint CRS	
	12/12/2017		Per Verizon CRS	
			12/06/17	
		12/4/2017		Per AT&T CRS

NOTE:

The Parcels layer is provided by Maui 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.

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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
12/20/2017	Delivered .map, .str, .rte., and Maui Cell Coverage.csv which included updated Address Points, Building Footprints, Common Places Lookup Table, Gate Codes, Points Of Interest, Street Centerlines, and WSP Cell Towers for Intergraph
12/20/2017	Delivered updated data for MapFlex which included Address Points, Building Footprints, Points Of Interest, Schools, Street Centerlines, WSP Cell Sectors and WSP Cell Towers
12/20/2017	Added street centerline labels in the Intergraph CAD Map
12/6/2017	Delivered updated data for MapFlex which included Address Points, Building Footprints, Points Of Interest, Schools, Street Centerlines, WSP Cell Sectors and WSP Cell Towers
12/6/2017	Delivered .map, .str, .rte., and Maui Cell Coverage.csv which included updated Address Points, Building Footprints, Common Places Lookup Table, Gate Codes, Points Of Interest, Street Centerlines, and WSP Cell Towers for Intergraph

INTERGRAPH CAD UPGRADE

From April through June 2014, the Maui Police Department worked to upgrade their Intergraph CAD system to the more recent 2014 version. Through this upgrade process, new improvements were identified and the overall functionality of the system from the Map Build process to the Production workstation made significant enhancements in order to streamline the deliverables and continue providing accurate data to the PSAP.

1. On December 6th, 2017 – Akimeka delivered an updated Intergraph CAD map which included:
 - a. Address Points, Building Footprints, Common Places Lookup Table, Gate Codes, Points of Interest, Street Centerlines and WSP Cell Towers
 - b. .map, .str, .rte, CAD Map Build database and Cell Coverage.csv
2. Akimeka delivered an updated Intergraph CAD map December 20th, 2017 which included:
 - a. Address Points, Building Footprints, Common Places Lookup Table, Gate Codes, Points Of Interest, Street Centerlines, and WSP Cell Towers for Intergraph
 - b. .map, .str, .rte, CAD Map Build database and Cell Coverage.csv
 - c. Added street centerline labels

During January 2018, the Intergraph CAD map will continue to be delivered every other week, which has been coordinated with all mapping system updates and synchronizations with other 911 databases.

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MAPFLEX SYSTEM

During the month of December 2017, the MapFlex system received updates manually as a result of MapFlex having several issues pertaining to the automated upload processes.

Considering that the MapFlex initiative being provided by Hawaiian Telecom and sub-contractor, West, was implemented across the State of Hawaii, in the below narrative there is some information pertaining to all of the Hawaiian Islands. For a record of historical information regarding the MapFlex system, please see MSRs during the 2015 and 2016 years.

1. Akimeka delivered GIS data to the MapFlex system on the following dates in December 2017
 - a. **Hawaii County** – December 5th, 2017 and December 19th, 2017
 - b. **Maui County** – December 6th, 2017 and December 20th, 2017
 - c. **Kauai County** – December 7th, 2017 and December 21st, 2017
 - d. **Honolulu** – December 8th, 2017 and December 22nd, 2017

MAPFLEX ISSUES

Below is a detailed list of issues regarding the MapFlex systems throughout the State of Hawaii.

DATE	ISSUE	DESCRIPTION	STATUS
7/24/2016	Automatic Uploads Malfunctioning	It was identified that the Automatic uploads were creating issues within the MapFlex systems, where locators were not being published, etc. as a result of a scripting error at West. Manual uploads have been taking place of the GIS as necessary and agreed by all PSAPs.	Resolved, as of April 2017, West/HT has decided to implement a process to upload data the following week after GIS uploads (manually)
7/24/2016	Blank MapFlex Screen	The MapFlex screen went blank and there was no mapping capability, similar to what had occurred with Maui PD. Resulted from West's automatic update script. All of the PSAPs agreed to hold off on all GIS updates in MapFlex until West has resolved the issue.	Resolved (Nov 2016) There have been no reported blank screens
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
8/2016	Text-to-911 Icons	Icons for text calls have stopped displaying. Previously when calls came in as a text call, there would be an icon displaying "TEXT" where the call was plotted.	Resolved (Nov 2016)
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.	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

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1/18/2017	RDC MapFlex	<p>During a meeting between Akimeka and RDC, it was identified that HPD GIS data was contained within the RDC MapFlex and was missing RDC's data. Due to the proprietary nature of the GIS data provided by Akimeka for the civilian PSAP's mapping systems and the confidential information contained to support HPD operations, it was concerning. Actions were taken to request West to stop this and to pull RDC's archive data. West has since replied that they never knew RDC was military and functioned separately from the civilian PSAPs.</p> <p>HPD, RDC, and Akimeka have taken corrective actions to construct GIS data that will be used as a baseline for the RDC and to remove sensitive information supplied for the RDC MapFlex.</p>	Resolved (August 2017)
3/22/2017	ArcGIS Address Locator	<p>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.</p>	A new SP 5.4 update by West is aimed to correct this issue.
5/17/2017	VoIP Calls Plotting Incorrectly	<p>Recognized in late April and early May 2017, the PSAPs have been receiving several VoIP calls which are plotting in the incorrect locations. After further research it was determined that it is because MapFlex is configured to plot the received Lat/Long. The problem is that these are not always maintained properly and that ideally the system should first choose to match with the GIS data based on the provided address.</p> <p>During the September 20, 2017 PSAP conference call, HT relayed there was confirmation that the Time Warner records were in fact passing through the West FMCC.</p>	<p>West is currently researching their configurations (May - June 2017). Aside from the MapFlex, Akimeka is working with Spectrum (previously Time Warner) to correct their Lat/Longs on a mass scale</p> <p>Discussion has taken place on a temporary solution by suppressing XY in ALI.</p> <p>West had announced later October 2017 that engineering was working on an interim release that allows the PSAP to suppress Lat/Long at the MapFlex server.</p>
5/17/2017	Landline Calls Producing X/Y on calls	<p>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.</p>	West is looking into this (May - June 2017)

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MAUI COUNTY PSAPS - DECEMBER 2017

MAUI COUNTY						
#	Date	Ticket #	Description	PSAP	Urgency	Comments
			None			

NOTE:

There are no Open Service Requests for the Maui County PSAPs for December, 2017.

MAUI PSAP SERVICE REQUESTS YEAR-TO-DATE (YTD) SUMMARY – 2017

MAUI COUNTY				MSAG SERVICE REQUEST CATEGORIES					
2017	TOTAL		Open	WIRESLINE		WIRELESS		VoIP	
	Created	Closed		Created	Closed	Created	Closed	Created	Closed
2016 Carryover*			0						
January	2	2	0	2	2	0	0	0	0
February	6	6	0	6	6	0	0	0	0
March	1	1	0	1	1	0	0	0	0
April	0	0	0	0	0	0	0	0	0
May	1	1	0	0	0	0	0	1	1
June	1	1	0	1	1	0	0	0	0
July	0	0	0	0	0	0	0	0	0
August	7	7	0	7	7	0	0	0	0
September	1	1	0	1	1	0	0	0	0
October	3	3	0	3	3	0	0	0	0
November	2	2	0	2	2	0	0	0	0
December	0	0	0	0	0	0	0	0	0
TOTAL	24	24	0	23	23	0	0	1	1

Note: *The 2016 Carry Over row indicates the number of Service Requests that were opened in 2016; however, were brought forward into 2017 in an effort to track the service request until completion.

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) 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 the next quarterly database synchronization audit for Maui County in December 2017.

The database synchronization effort included comparing Maui County's 9-1-1 MSAG against its GIS Street Centerline data. A total number of **2,716** 9-1-1 MSAG (ESN 300 – 357) records were reviewed in the audit and analyzed. Results of the database synchronization audit completed on December 1, 2017 for Maui 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 yield a 100 percent match rate. As such, NENA's recommended minimum match rate is 98%.

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AUDIT SUMMARY RESULTS –2017

9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	Notes	As of March 1, 2017		As of June 1, 2017		As of September 1, 2017		As of December 1, 2017	
		9-1-1 MSAG Dated 3-01-17		9-1-1 MSAG Dated 6-01-17		9-1-1 MSAG Dated 9-01-17		9-1-1 MSAG Dated 12-01-17	
		# of Records	%	# of Records	%	# of Records	%	# of Records	%
Total 9-1-1 MSAG Records Reviewed		2,703		2,703		2,717		2,717	
Less: 9-1-1 MSAG Exception Records	(1)	75	2.7%	75	2.7%	75	2.7%	75	2.7%
Net 9-1-1 MSAG Records Eligible for Comparison		2,632		2,632		2,642		2,642	
Total 9-1-1 MSAG Records Match (9-1-1 MSAG -- GIS Match -- No Corrections Required)		2,629	100.00%	2,628	100.00%	2,633	100.00%	2,640	100.00%
9-1-1 MSAG -- GIS No Match - Minor Correction Required	(2)	3	0.0%	3	0.0%	8	0.0%	2	0.0%
9-1-1 MSAG Record With No GIS Record	(3)	0	0.0%	1	0.0%	1	0.0%	0	0.0%
Total 9-1-1 MSAG Records No Match		3	0.0%	4	0.0%	9	0.0%	2	0.0%

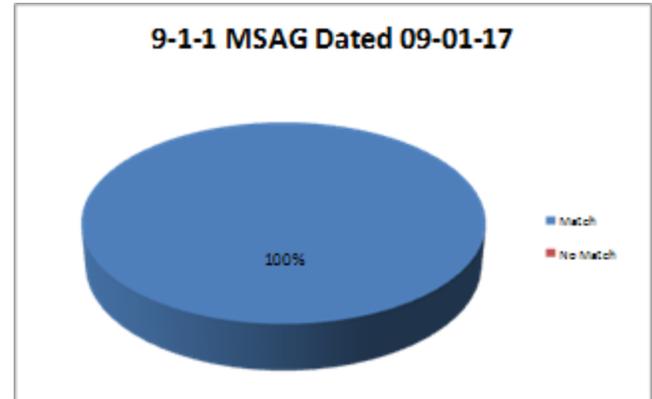
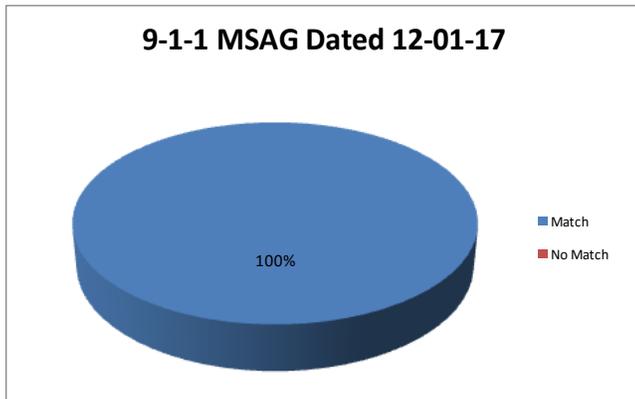
AUDIT SUMMARY NOTES:

- (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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MSAG AUDIT SUMMARY RESULTS – DECEMBER 1, 2017 VS SEPTEMBER 1, 2017



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

at 100% as of December 1, 2017 to 100% on September 1, 2017

NENA Recommended Match Rate = 98%

MSAG AUDIT SUMMARY RESULTS NOTES:

- “MSAG - GIS Minor Corrections” decreased (8 to 2) from September 2017 to December 2017. Minor corrections were primarily the result of edits made to the GIS Street Centerlines layer in order to meet new NG9-1-1 requirements. Low and high address ranges were then adjusted in the MSAG to correspond with the GIS record. Although this is a minor correction, customer telephone numbers (TNs) need to be validated by the service providers prior to adjusting an address range.
- “MSAG Record with No GIS Record” decreased (1 to 0) from September 2017 to December 2017. The total of zero MSAG Record with No GIS Record was due primarily to the verification of the MSAG records against multiple GIS databases to determine if the roads are existing within Maui County records.
- “GIS Record with Minor Corrections” decreased (6 to 3) from September 2017 to December 2017. Low and high address ranges, street suffix, and MSAG Community were adjusted in the GIS to correspond with the MSAG record.
- “MSAG records that don't match GIS” decreased (6 to 3) from September 2017 to December 2017. This is a result in which MSAG records submitted in 9-1-1 Net were not completed prior to the end of the month.
- Ongoing maintenance is critical to ensure the database synchronized level of address accuracy is maintained each time an MSAG or GIS record is “last modified”.

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INVALID MSAG STREETS AND ADDRESS RANGES – ESN X99 RECORDS

Hawaiian Telcom, Inc. (HTI) provides Maui County and Akimeka, as the PSAP’s agent, with access and visibility to the ESN 359/399 MSAG records which are “known” invalid streets and address ranges. Results of the data provided are as follows:

PSAP	ESN	Invalid MSAG Records							
		9-1-1 MSAG Dated 03-01-17		9-1-1 MSAG Dated 06-01-17		9-1-1 MSAG Dated 09-01-17		9-1-1 MSAG Dated 12-01-17	
		# of Records	% of Total MSAG Records (Valid and Invalid)	# of Records	% of Total MSAG Records (Valid and Invalid)	# of Records	% of Total MSAG Records (Valid and Invalid)	# of Records	% of Total MSAG Records (Valid and Invalid)
MAUI	399	38	1.5%	37	1.5%	37	1.3%	29	1.1%
MOLOKAI	359	12	5.2%	5	2.2%	7	3.1%	7	3.0%
TOTAL MAUI		50	1.8%	42	1.5%	41	1.5%	36	1.3%

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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 Maui County. As of December 28, 2017, **131** ESN 399 (Maui/Lanai) and ESN 359 (Molokai) records, representing **.2%** of Maui County’s total ALI records, require research and corrective action, if needed.

