

Maui County E9-1-1 Status Report

October 1, 2017 – October 31, 2017



Maui County E9-1-1 Status Report

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME MAUI PSAP – OCTOBER 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
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%

CALL VOLUME MAUI PSAP NOTES:

*Calls with No ALI for October 2017 = 0.10% - 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																	
DEC																	
YTD	102,089	18,658		69,281				3,189		83		0		10,878		0	
MON AVG	10,209	1,866	18.26%	6,928	67.88%	53.84%	46.16%	319	3.13%	8	0.08%	0	0.00%	1,088	10.65%	0.00	0.00%

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9-1-1 CALL VOLUME MOLOKAI PSAP – OCTOBER 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
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%

CALL VOLUME MOLOKAI PSAP NOTES:

* Calls with No ALI for October 2017 = 0.14% - 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																	
DEC																	
YTD	4,497	1,241		2,672				19		11		0		554		0	
MON AVG	450	124	28.79%	267	58.61%	61.61%	38.39%	1.90	0.43%	1	0.25%	0	0.00%	55.4	11.92%	0	0.00%

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9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – OCTOBER 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
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%

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																	
DEC																	
YTD	106,586	19,899		71,953				3,208		94		0		11,432		0	
MON AVG	10,659	1,990	18.67%	7,195	67.51%	54.12%	45.88%	321	3.01%	9	0.09%	0.00	0.00%	1,143	10.72%	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 – OCTOBER 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		
December		
YTD	182	15
Monthly Avg.	18.20	1.50

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WIRELESS PSAP TESTING – OCTOBER 2017

MAUI COUNTY - OCTOBER 2017						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:

NOTES:

- There were no (0) scheduled Wireless 911 tests conducted in October, 2017 for the Maui and Molokai PSAP.

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH/YEAR – OCTOBER 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									
DECEMBER									
TOTAL YTD	1,625	1,352	117	134	22				1,490
AVG PER MONTH	163	135	12	13	2				149

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. Ten (**10**) requests were processed relating to the MSAG database. Changes include: changes to high – low street ranges, combining street records, deletion of invalid records, splitting street records to align with Police, Fire, EMS, and inserting new MSAG records. **188** customer ANI/ALI (telephone number/address) records updated as a direct result.

163 Dispatchable Location transactions were submitted during the current month.

TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

163 Telephone Number Change Request (TN CR) transactions were processed and 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 138 Open TN CR Transactions.**
- **Refer to chart in the next section “TNCR Current Status”**

138 Open TN CR transactions are a direct result of the ESN 399/359 clean-up and are awaiting approval from Hawaiian Telcom, Inc. **4** 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. Three (**3**) ALI DRs were submitted as a result of 9-1-1 calls made from residences in Kaunakakai. Molokai PSAP submitted the requests to Akimeka to update the customer information and the discrepancy was corrected by West Safety Services.

- **There are no open ALI DRs**
- **There are no open VoIP DRs**

NARRATIVE:

Akimeka has prepared a total of **2,372** Dispatchable Location transactions for submission. **163** transactions were processed in October 2017.

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – OCTOBER, 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	113	58	46	9
MOLOKAI	25	12	9	4
TOTAL	138	70	55	13

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 – OCTOBER 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				
December				
Total		0	163	163
YTD Total		2,372	1,238	1,234

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SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT – OCTOBER 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	209	10.02%
OAHU Military	3,663	710 (19%)	2,953	1,277	43.24%
TOTAL	140,313	**133,889	6,424	2,872	70.7%

* 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) – OCTOBER 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	10/30/2017		Added seventy-seven (77) address points in Kahului	
	10/30/2017		Added fifty (50) addresses in Kihei	
	10/26/2017		Added one (1) address in Haiku	
	10/26/2017		Added one (1) address in Hana	
	10/26/2017		Added one (1) address in Kaanapali	
	10/26/2017		Spatially corrected one (1) address point in Kaunakakai	
	10/26/2017		Added one (1) address in Kaunakakai	
	10/26/2017		Added two (2) addresses in Kihei	
	10/26/2017		Added two (2) addresses in Kula	
	10/26/2017		Added one (1) address in Pukalani	
		10/25/17		
	10/23/2017		Added two (2) addresses in Haiku	
	10/23/2017		Added four (4) addresses in Kahului	
	10/23/2017		Spatially corrected thirty-two (32) address points in Kahului	
	10/23/2017		Added one (1) address in Kaluakoi	
	10/23/2017		Added eighty (80) addresses in Kihei	
	10/23/2017		Added two (2) addresses in Pukalani	
	10/23/2017		Added one (1) address in Wailea	
	10/19/2017		Spatially corrected one (1) address point in Kula	
	10/19/2017		Added seventy-six (76) addresses in Kula	
	10/19/2017		Added seventy-three (73) addresses in Makawao	
	10/17/2017		Spatially corrected one (1) address point in Kaunakakai	
	10/17/2017		Added one (1) address in Haiku	
	10/17/2017		Added ninety-two (92) addresses in Wailuku	
	10/16/2017		Added one hundred thirty-five (135) addresses in Wailuku	
	10/12/2017		Spatially corrected four (4) address points in Kaunakakai	
	10/12/2017		Added Location Name for one (1) address in Kaunakakai	
	10/12/2017		Added four (4) addresses in Kaunakakai	
	10/12/2017		Added one (1) address in Paia	
	10/12/2017		Spatially corrected one (1) address in Wailea	
	10/11/17			
10/11/2017		Spatially corrected one (1) address point in Kahului		

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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)				
Address Points	10/11/2017		Updated Location Name of one (1) address in Kahului	
	10/10/2017		Added one (1) address in Hoolehua	
	10/10/2017		Spatially corrected seven (7) address points in Kahului	
	10/2/2017		Added one (1) POI in Kihei	
Airports				
Bridges				
Building Footprints	10/31/2017		Deleted one thousand twenty-nine (1029) duplicate building footprints in Kahului	
	10/30/2017		Deleted one hundred fifty-three (153) duplicate building footprints in Kahului	
	10/30/2017		Spatially corrected twenty-five (25) building footprints in Kahului	
	10/27/2017		Deleted one thousand six hundred sixty-two (1662) building footprints in Kahului	
	10/26/2017		Deleted nine hundred two (902) building footprints in Kahului	
		10/25/17		
	10/24/2017		Added twenty-one (21) building footprints in Makawao	
	10/23/2017		Added one (1) building footprint in Kula	
	10/20/2017		Added fifty-three (53) building footprints in Kula	
	10/19/2017		Spatially corrected two (2) building footprints in Wailuku	
	10/19/2017		Added twelve (12) building footprints in Wailuku	
	10/19/2017		Added two (2) building footprints in Kula	
	10/16/2017		Spatially corrected three (3) building footprints in Wailuku	
	10/16/2017		Added thirty-six (36) building footprints in Wailuku	
	10/16/2017		Deleted six (6) duplicate building footprints in Wailuku	
		10/11/17		
	10/6/2017		Deleted one thousand six (1106) duplicate polygons in Kahului	
	10/5/2017		Added one (1) building footprint in Kahuui	
	10/5/2017		Spatially corrected twenty-six (26) building footprints in Kahului	
	10/4/2017		Deleted one thousand two hundred seventy-three (1273) duplicate polygons in Kahului	
10/4/2017		Added one (1) building footprint in Kahului		
10/4/2017		Spatially corrected sixteen (16) building footprints in Kahului		
10/3/2017		Deleted one thousand six hundred twenty-four (1624) duplicate polygons in Kahului		

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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)			
Bus Stops			
Churches		10/11/17	
	10/6/2017		Updated one (1) church name in Hana
	10/6/2017		Updated one (1) church name in Kahului
	10/6/2017		Added one (1) church in Kahului
	10/6/2017		Updated one (1) church name in Kihei
	10/6/2017		Updated one (1) church name in Makawao
	10/5/2017		Updated one (1) church name in Haiku
	10/5/2017		Updated address of one (1) church in Kahului
	10/5/2017		Updated one (1) church name in Kapalua
	10/5/2017		Added address info to one (1) church in Kapalua
	10/5/2017		Updated address for one (1) church in Kaunakakai
	10/5/2017		Updated two (2) church names in Kihei
	10/5/2017		Updated five (5) church names in Lahaina
	10/5/2017		Updated address info for one (1) church in Lahaina
	10/5/2017		Updated two (2) church names in Lanai
10/5/2017		Updated one (1) church name in Wailuku	
10/5/2017		Updated address info for one (1) church in Wailuku	
Coastal Names			
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations		10/11/17	
	10/2/2017		Spatially corrected one (1) fire station in Pukalani

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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)			
Food & Beverage			
Gas Stations			
Gate Codes		10/25/17	
	10/23/2017		Updated one (1) gate code in Wailuku
		10/11/17	
	10/5/2017		Updated three (3) gate codes in Kahului
	10/5/2017		Updated one (1) gate code in Wailea
Government Buildings			
Harbors			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hyrdology Layers			
Incident Response Areas			
Lodging			
Major Roads			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			
Medical Facilities			
Milepost Markers			
MSAG Communities			
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			
Parks Polygon			

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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)				
Points of Interest	10/30/2017		Corrected two (2) POI addresses in Kihei	
	10/30/2017		Added seventy-seven (77) POI in Kahului	
	10/30/2017		Added fifty (50) POI in Kihei	
		10/25/17		
	10/19/2017		Added seventy-six (76) POI in Kula	
	10/18/2017		Added seventy-six (76) POI in Wailuku	
	10/17/2017		Spatially corrected two (2) POI in Haiku	
	10/17/2017		Corrected address for one (1) POI in Haiku	
	10/17/2017		Added one hundred forty-one (141) POI in Wailuku	
	10/12/2017		Added three (3) POI in Kaunakakai	
	10/12/2017		Added one (1) POI in Kula	
	10/12/2017		Added two (2) POI in Kihei	
		10/11/17		
	10/11/2017		Updated one (1) POI name in Kahului	
	10/10/2017		Spatially corrected one (1) POI in Lahaina	
	10/6/2017		Added one (1) POI in Makawao	
	10/5/2017		Updated one (1) POI name in Lahaina	
	10/5/2017		Added sixty-two (62) POI in Kahului	
	10/5/2017		Spatially corrected one (1) POI in Kihei	
	10/5/2017		Added one (1) POI in Kihei	
	10/5/2017		Updated one (1) POI name in Lahaina	
	10/4/2017		Added forty-five (45) POI in Kahului	
	10/2/2017		Added four (4) POI in Haiku	
	10/2/2017		Added two (2) POI in Hana	
	10/2/2017		Added address to one (1) POI in Hana	
	10/2/2017		Added one (1) POI in Kaanapali	
	10/2/2017		Added address to one (1) POI in Kihei	
	10/2/2017		Added two (2) POI in Kula	
	10/2/2017		Updated two (2) POI names in Lahaina	
	10/2/2017		Spatially corrected four (4) POI in Lahaina	
10/2/2017		Added seven (7) POI in Lahaina		
10/2/2017		Added three (3) POI in Lanai		

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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)			
Points of Interest	10/2/2017		Updated one (1) POI name in Makawao
	10/2/2017		Added one (1) POI in Makawao
	10/2/2017		Updated four (4) POI names in Napili
	10/2/2017		Spatially corrected two (2) POI in Napili
	10/2/2017		Added three (3) POI in Napili
	10/2/2017		Added address info for two (2) POI in Paia
	10/2/2017		Updated one (1) POI name in Paia
	10/2/2017		Spatially corrected one (1) POI in Paia
	10/2/2017		Added three (3) POI in Paia
	10/2/2017		Spatially corrected two (2) POI in Pukalani
	10/2/2017		Added three (3) POI in Pukalani
	10/2/2017		Added address info for one (1) POI in Pukalani
	10/2/2017		Added address info for one (1) POI in Wailea
	10/2/2017		Added one (1) POI in Wailea
Police Beats			
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools		10/11/17	
	10/2/2017		Updated one (1) school name in Makawao
Street Centerlines		10/25/17	
	10/24/2017		Changed street name of six (6) street centerline segments at Kalama School, Makawao
	10/19/2017		Added alias "Maui Veterans Hwy" to thirteen (13) street centerline segments of Mokulele Hwy
	10/12/2017		Extended one (1) street centerline segment in Haiku
	10/12/2017		Spatially corrected one (1) street centerline segment in Wailea
	10/12/2017		Spatially corrected two (2) street centerline segments in Kaunakakai
			10/11/17
10/3/2017			Modified two (2) street centerline segment ranges in Kapalua
Subdivisions			
Tow Jurisdictions			

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MAPPING LAYERS UPDATED (PART VII)

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)			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		10/25/17	
	10/16/2017		Per Verizon CRS
WSP Cell Towers		10/25/17	
	10/16/2017		Per Verizon 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
10/25/2017	Delivered updated data for MapFlex which included Address Points, Building Footprints, Gate Codes, Points Of Interest, Schools, Street Centerlines, WSP Cell Sectors and WSP Cell Towers
10/25/2017	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
10/11/2017	Delivered updated data for MapFlex which included Address Points, Building Footprints, Churches, Fire Stations, Gate Codes, Points Of Interest, Schools, Street Centerlines, WSP Cell Sectors and WSP Cell Towers
10/11/2017	Delivered .map, .str, .rte., and Maui Cell Coverage.csv which included updated Address Points, Building Footprints, Common Places Lookup Table, Fire Stations, 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 October 11th, 2017 – Akimeka delivered an updated Intergraph CAD map which included:
 - a. Address Points, Building Footprints, Common Places Lookup Table, Fire Stations, Gate Codes, Points of Interest, Street Centerlines and WSP Cell Towers
 - b. .map, .str, .rte, CAD Map Build database and Cell Coverage.csv
 - c. Added new Street Centerline labels.
2. Akimeka delivered an updated Intergraph CAD map October 25th, 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. Deleted duplicate Street Centerline labels. This is an ongoing project.
 - d. Added new Street Centerline labels.

During November 2017, 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 October 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 October 2017
 - a. **Hawaii County** – October 10th, 2017 and October 24th, 2017
 - b. **Maui County** – October 11th, 2017 and October 25th, 2017
 - c. **Kauai County** – October 12th, 2017 and October 26th, 2017
 - d. **Honolulu** – October 13th, 2017 and October 27th, 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 - OCTOBER 2017

MAUI COUNTY						
#	Date	Ticket #	Description	PSAP	Urgency	Comments
			None			

NOTE:

There are no Open Service Requests for the Maui County PSAPs for October, 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									
December									
TOTAL	22	22	0	21	21	0	0	1	1

<u>Note:</u>	*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.
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	Category	Description
Definitions:	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)

Next scheduled Database Synchronization Report – December 2017

AUDIT SUMMARY RESULTS – 2016 -2017 -- TBA

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

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT -- TBA