

# Oahu Civilian E9-1-1 Status Report

*November 1, 2018 – November 30, 2018*

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November 1, 2018 - November 30, 2018

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## 1. PSAP OPERATIONS

### 9-1-1 CALL VOLUME CIVILIAN PSAPS – NOVEMBER 2018

Source: West Safety Services Viper system

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

9-1-1 Primary PSAP Call Volume																	
Honolulu City & County PSAPs		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2018	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
November	84,461	16,833	19.93%	64,410	76.26%	43.22%	33.04%	3,193	3.78%	25	0.03%	1,034	1.22%	13,178	15.60%	655	0.78%

### 9-1-1 CALL VOLUME CIVILIAN PSAPS – CALENDAR YEAR 2018

9-1-1 Primary PSAP Call Volume																	
Honolulu City & County PSAPs		Wireline		Wireless				VOIP Calls		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2018	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 Total Call Received	% of Total Calls
JAN	90,131	18,612	20.65%	68,004	75.45%	46.10%	29.35%	3,380	3.75%	135	0.15%	1,940	2.15%	15,491	17.19%	528	0.59%
FEB	79,937	16,707	20.90%	60,217	75.33%	45.46%	29.87%	2,998	3.75%	16	0.02%	1,738	2.17%	11,746	14.69%	520	0.65%
MAR	83,942	17,359	20.68%	63,359	75.48%	47.28%	28.20%	3,207	3.82%	17	0.02%	1,671	1.99%	11,777	14.03%	459	0.55%
APR	87,434	17,600	20.13%	66,546	76.11%	47.91%	28.20%	3,235	3.70%	52	0.06%	1,840	2.10%	13,911	15.91%	542	0.62%
MAY	88,845	17,520	19.72%	68,055	76.60%	47.71%	28.89%	3,234	3.64%	36	0.04%	1,988	2.24%	14,093	15.86%	538	0.61%
JUNE	85,038	17,076	20.08%	64,935	76.36%	47.07%	29.29%	3,010	3.54%	17	0.02%	1,753	2.06%	13,037	15.33%	567	0.67%
JULY	85,828	17,440	20.32%	65,246	76.02%	47.42%	28.60%	3,124	3.64%	17	0.02%	892	1.04%	12,831	14.95%	629	0.73%
AUG	88,455	17,549	19.84%	67,854	76.65%	48.00%	28.65%	3,061	3.46%	44	0.05%	1,870	2.11%	12,323	13.93%	672	0.76%
SEPT	83,387	17,278	20.72%	63,074	75.64%	46.28%	29.36%	3,010	3.61%	25	0.03%	943	1.13%	11,672	14.00%	644	0.77%
OCT	85,323	17,670	20.71%	64,368	75.44%	44.28%	31.16%	3,259	3.82%	26	0.03%	818	0.96%	11,974	14.03%	655	0.77%
NOV	84,461	16,833	19.93%	64,410	76.26%	43.22%	33.04%	3,193	3.78%	25	0.03%	1,034	1.22%	13,178	15.60%	655	0.78%
DEC																	
YTD	942,781	191,644		716,068				34,711		410		16,487		142,033		6,409	
MON AVG	85,707	17,422	20.33%	65,097	75.94%	46.43%	29.51%	3,156	3.68%	37	0.04%	1,499	1.74%	12,912	15.05%	583	0.68%

NOTE:

- \*911 Calls with No ALI for November 2018 = 0.03% - Statewide average for 2017 = 0.08%
- Total call volumes does not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.
- 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 **not** included in the Wireline and Wireless total counts respectively.
- All VoIP (Voice over Internet Protocol) types of 911 calls are combined in the Call Volume statistic.

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## 9-1-1 CALL VOLUME BY AGENCY – NOVEMBER 2018

2018	9-1-1 Call Volume by Agency									
	Honolulu Police Department						Honolulu Fire Department			
	No. of Total Calls Received	% of Total Calls	Number of Emergency Calls	Number of Non Emergency Calls	Number of Admin Calls	Number of Dropped Calls	No. of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls
November	73,795	87.37%	19,424	40,363	830	13,178	2,252	2.67%	131	36

2018	9-1-1 Call Volume by Agency							
	Emergency Medical Services				Ocean Safety			
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Dropped Calls
November	7,713	9.13%	27	72	46	0.05%	46	3

## 9-1-1 CALL VOLUME BY AGENCY – CALENDAR YEAR 2018

2018	9-1-1 Call Volume by Agency																	
	Honolulu Police Department						Honolulu Fire Department				Emergency Medical Services				Ocean Safety			
	Number of Total Calls Received	% of Total Calls	No. of Emergency Calls	No. of Non Emergency Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls	No. of Total Calls Received	% of Total Calls	No. of Admin Calls	No. of Dropped Calls
JAN	77,849	86.37%	19,571	41,680	1,107	15,491	2,881	3.20%	87	67	8,837	9.80%	710	125	36	0.04%	36	16
FEB	68,884	86.17%	18,037	38,149	952	11,746	2,245	2.81%	81	38	8,251	10.32%	669	76	37	0.05%	36	6
MAR	72,926	86.88%	19,213	41,054	882	11,777	2,556	3.04%	92	32	7,963	9.49%	661	164	38	0.05%	36	3
APR	75,908	86.82%	19,865	41,279	853	13,911	2,358	2.70%	115	97	8,583	9.82%	831	113	43	0.05%	41	6
MAY	76,917	86.57%	19,992	41,686	1,146	14,093	2,734	3.08%	89	41	8,613	9.69%	713	84	43	0.05%	40	5
JUNE	73,294	86.19%	19,386	40,054	817	13,037	2,990	3.52%	173	34	8,127	9.56%	710	109	60	0.07%	53	6
JULY	75,132	87.54%	20,242	41,345	714	12,831	2,348	2.74%	120	40	7,654	8.92%	1	64	65	0.08%	57	13
AUG	75,067	84.86%	20,626	41,159	959	12,323	4,417	4.99%	122	69	8,232	9.31%	739	56	67	0.08%	50	17
SEPT	72,453	86.89%	19,278	40,763	740	11,672	2,442	2.93%	135	42	7,799	9.35%	20	43	49	0.06%	48	6
OCT	74,374	87.17%	20,709	41,037	654	11,974	2,444	2.86%	107	34	7,814	9.16%	22	74	36	0.04%	35	10
NOV	73,795	87.37%	19,424	40,363	830	13,178	2,252	2.67%	131	36	7,713	9.13%	27	72	46	0.05%	46	3
DEC																		
YTD	816,599		216,343	448,569	9,654	142,033	29,667		1,252	530	89,586		5,103	980	520		478	91
MON AVG	74,236	86.62%	19,668	40,779	878	12,912	2,697	3.14%	114	48	8,144	9.50%	464	89	47	0.06%	43	8

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**PSAP OPERATION NOTES:**

- Total call volumes does not include Administrative Calls. Administrative calls = Calls originating on Administrative lines that required 911 service.
- 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) types of 911 calls are combined in the Call Volume statistic.

**FOR YOUR INFORMATION**

FYI ..... For Your Information						
PSAP Operations						
Statewide 911 Call Volumes						
PSAP	2017		2016		2015	
Oahu Civilian	1,022,818	72.16%	1,009,059	71.93%	1,019,402	70.94%
RDC Pearl Harbor	27,916	1.97%	N/A	N/A	N/A	N/A
Hawaii County	193,166	13.63%	205,412	14.64%	217,768	15.15%
Maui County	123,685	8.73%	137,333	9.80%	142,952	9.95%
Kauai County	49,902	3.52%	50,955	3.63%	56,874	3.96%
Total	1,417,487	100.00%	1,402,759	100.00%	1,436,997	100.00%
<b>2016 &amp; 2015 Statewide average does not include Military 911 calls.</b>						

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**TEXT TO 911 OAHU CIVILIAN PSAPS – CURRENT MONTH – NOVEMBER 2018**

**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 Oahu Civilian PSAPs 2018						
Month	Total	HPD	HFD	EMS	OS	911 (handled)
January	145	115	3	0	0	27
February	144	131	1	2	0	10
March	170	144	4	5	0	17
April	155	127	2	11	0	15
May	136	122	4	0	0	10
June	168	153	2	1	0	12
July	98	91	2	5	0	0
August	135	123	1	9	0	2
September	114	105	0	0	0	9
October	117	109	1	1	0	6
November	132	115	2	2	0	13
December						
YTD	1514	1335	22	36	0	121
Monthly Avg.	137.6	121.4	2.0	3.3	0.0	11.0

**NOTE:**

The 9-1-1 handled texts were incidents in which the Division conducted testing or the texter texted 911 in error.



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### 911 WIRELESS OAHU CIVILIAN PSAP TESTING – NOVEMBER 2018

OAHU CIVILIAN - NOVEMBER 2018						
Date	WSP	Sites Tested	Sectors Tested	Tested By:	Test Pass/Fail	Comments:
11/02/18	Verizon	2	5	Oahu PSAP	Pass	
11/09/18	Verizon	1	1	Oahu PSAP	Pass	CDMA conversion test
11/29/2018	Verizon	1	4	Oahu PSAP	Pass	
11/29/2018	Verizon	1	1	Oahu PSAP	Pass	

#### NOTES:

- There were four (4) scheduled Wireless 911 Tests for the Oahu Civilian PSAP in November 2018.
- Verizon Wireless is currently migrating their Wireless network database from West to ComTech.

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## 2. MSAG (MASTER STREET ADDRESS GUIDE)

### OAHU CIVILIAN MSAG TRANSACTIONS CURRENT MONTH/YEAR – NOVEMBER 2018

OAHU CIVILIAN	9-1-1 TRANSACTIONS								
	Total	MSAG	ALI Submitted			Open ALI Discrepancy Records			Customer Addresses Affected
2018		MSAG (A)	TN CR (B)	ALI DR (C)	VoIP (D)	TNCR	ALI DR	VoIP DR	
JANUARY	33	14	19	0	0	0	0	0	1,198
FEBRUARY	10	6	3	1	0	0	0	0	982
MARCH	168	9	159	0	0	27	0	0	258
APRIL	15	3	12	0	0	108	0	0	110
MAY	92	10	82	0	0	393	0	0	276
JUNE	324	7	316	1	0	338	0	0	610
JULY	349	23	326	0	0	88	0	0	744
AUGUST	89	23	66	0	0	479	0	0	389
SEPTEMBER	417	17	400	0	0	834	0	0	261
OCTOBER	315	7	308	0	0	1,145	0	0	469
NOVEMBER	798	4	793	1	0	336	0	0	100
DECEMBER									
TOTAL YTD	2,610	123	2,484	3	0				5,397
AVG PER MONTH	237	11	226	0	0				491

### Definitions

- (A) **Master Street Address Guide** - Represents corrections made to street records including, street names, address ranges, MSAG Communities and ESNs.
- (B) **Telephone Number Change Request** - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 199 attached to them which indicates the need for validation.
- (C) **Automatic Location Information Discrepancy Record** - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
- (D) **Voice over Internet Protocol Discrepancy Record** - Represents an address discrepancy discovered during a live 9-1-1 call, from a VoIP phone. These record corrections are treated with a higher priority and should be processed within 72 hours as a general guideline per Time Warner Operations Center. MSR tracking effective April 2014.

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## OAHU CIVILIAN MSAG CURRENT MONTH NOTES:

A total of seven hundred-ninety eight (**798**) MSAG transactions were processed in 9-1-1 Net during the current reporting month. Four (**4**) requests were processed relating to the MSAG database which 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 **100** customer ANI/ALI (telephone/address) records updated as a direct result.

**315** Dispatchable Location transactions were submitted and **793** were processed by West during the current month.

## OAHU CIVILIAN TELEPHONE RECORD (ALI) TRANSACTIONS CURRENT MONTH NOTES:

**793** Telephone Number Change Request (TN CR) transactions were processed and were corrected in 9-1-1 Net during the current month. One (**1**) ALI DR was submitted for a pay phone located in Kuhio Beach Park

## OAHU CIVILIAN OPEN TELEPHONE RECORD (ALI) DISCREPANCY STATUS:

- **There are three hundred-thirty six (336) Open TN CR Transactions as of November 30, 2018**
- **Refer to chart in the next section “TNCR Current Status”**
- **There are no Open ALI-DRs as of November 30, 2018**
- **There is no Open VoIP DRs as of November 30, 2018**

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**TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – NOVEMBER, 2018**

**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.

<b>PSAP 9-1-1 Telephone Number Location Change Request (Telephone Number Change Request (TNCR) Status)</b>				
<b>PSAP</b>	<b>TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA</b>	<b>OPENED TNCRS PENDING FURTHER ACTION BY WEST SAFETY SERVICES</b>	<b>OPENED TNCRS REFERRED TO TELCO BY WEST SAFETY SERVICES</b>	<b>TOTAL UNOPENED TNCR RECORDS</b>
<b>OAHU CIVILIAN</b>	<b>336</b>	<b>4</b>	<b>17</b>	<b>315</b>

<b>STATUS</b>
<b><u>TOTAL TNCRs SUBMITTED</u></b> - The total number of TNCR requests for modification that have been submitted in 9-1-1
<b><u>PENDING STATUS</u></b> - 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.
<b><u>REFERRED STATUS</u></b> - 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.
<b><u>TOTAL UNOPENED TNCR RECORDS STATUS</u></b> - 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 – NOVEMBER 2018

#### 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.

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. The Windward Mall will be the pilot location starting in March 2018.

There were 315 transactions submitted and 793 processed in November 2018.

Dispatchable Location			
2018	Common Name Place	TNCR*	Transactions
Quarter 4	MSAG Address	Transactions Submitted	Processed**
Quarter 3 Carryover		1,316	459
October	Koko Marina Center, 7192 Kalanianaole Hwy, Hawaii Kai	0	103
	Hawaii Kai Towne Center, 333 Keahole St, Hawaii Kai	0	66
	Aina Haina Shopping Center, 820 W Hind Dr, Aina Haina	0	5
	Kahala Mall, 4211 Waialae Ave, Kaimuki	173	273
	Ala Moana Center, 1450 Ala Moana, Ala Moana	400	0
November	Kahala Mall, 4211 Waialae Ave, Kaimuki	122	482
	Ala Moana Center, 1450 Ala Moana, Ala Moana	183	278
	Koko Marina Center, 7192 Kalanianaole Hwy, Hawaii Kai	0	11
	Hawaii Kai Towne Center, 333 Keahole St, Hawaii Kai	8	22
	Aina Haina Shopping Center, 820 W Hind Dr, Aina Haina	2	0
December			
<b>Total</b>		<b>888</b>	<b>1240</b>
<b>YTD Total</b>		<b>2,204</b>	<b>1,699</b>

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### SPECTRUM (CHARTER) 9-1-1 VOIP DATABASE VERIFICATION PROJECT – NOVEMBER 2018

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.

<b>*Spectrum (Charter) 9-1-1 VoIP Database Verification Project</b>					
<b>PSAP</b>	<b>TOTAL RECORDS SUBMITTED BY SPECTRUM (A)</b>	<b>TOTAL RECORDS MATCHING &amp; VERIFIED WITH 911 DATABASES (B)</b>	<b>TOTAL RECORDS NOT MATCHING</b>	<b>NON MATCHING RECORDS CORRECTED BY AKIMEKA (C)</b>	<b>PERCENT COMPLETED</b>
HAWAII County	<b>22,044</b>	<b>21,638 (98%)</b>	<b>406</b>	<b>406</b>	<b>100.00%</b>
KAUAI County	<b>8,936</b>	<b>8,695 (97%)</b>	<b>241</b>	<b>241</b>	<b>100.00%</b>
MAUI County	<b>18,256</b>	<b>17,517 (96%)</b>	<b>739</b>	<b>739</b>	<b>100.00%</b>
OAHU Civilian	<b>87,414</b>	<b>85,329 (98%)</b>	<b>2,085</b>	<b>2,000</b>	<b>95.92%</b>
OAHU Military	<b>3,663</b>	<b>710 (19%)</b>	<b>2,953</b>	<b>2,953</b>	<b>100.00%</b>
<b>TOTAL</b>	<b>140,313</b>	<b>**133,889</b>	<b>6,424</b>	<b>6,339</b>	<b>99.18%</b>

\* 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.

## Oahu Civilian E9-1-1 Status Report

November 1, 2018 - November 30, 2018

### BANDWIDTH 9-1-1 VOIP DATABASE VERIFICATION PROJECT – NOVEMBER 2018

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.

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

**\*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)	Verification Process Completed.

# Oahu Civilian E9-1-1 Status Report

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## 3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – NOVEMBER 2018

### 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.*

OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/Edits Performed			
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>				
Address Points	11/30/2018		Spatially corrected twenty-one (21) Address Points in Kaneohe	
	11/30/2018		Created six (6) new Address Points in Kaaawa.	
	11/30/2018		Corrected one (1) Address Point in Kaaawa.	
	11/29/2018		Spatially corrected eleven (11) Address Points in Waimanalo.	
	11/29/2018		Spatially corrected one (1) Address Point in Kaneohe.	
		<b>11/23/18</b>		
	11/19/2018		Spatially corrected thirteen (13) Address Points in Kaimuki.	
	11/16/2018		Spatially corrected forty (40) Address Points in Kaimuki.	
	11/16/2018		Spatially corrected twenty (20) Address Points in Aiea.	
	11/14/2018		Added thirty-five (35) Address Points in Manoa.	
	11/14/2018		Corrected spatially four (4) Address Points in Manoa.	
	11/14/2018		Added building numbers on sixteen (16) Address Points in Manoa.	
	11/14/2018		Added building letters to twenty-one (21) Address Points in Manoa.	
	11/14/2018		Updated location names to two (2) Address Points in Manoa.	
	11/14/2018		Added location names to two (2) Address Points in Manoa.	
	11/14/2018		Added location type to one (1) Address Point in Manoa.	
		<b>11/09/18</b>		
	11/9/2018		Spatially corrected three (3) Address Points in Maili.	
	11/8/2018		Edited thirty-one (31) Address Points in Puohala Elementary School in Kaneohe.	
	11/8/2018		Spatially corrected six (6) Address Points in Maili.	
	11/7/2018		Edited sixty-three (63) Address Points in King Middle School in Kaneohe.	
	11/6/2018		Edited thirty-nine (39) Address Points in Ka'ala Elementary school in Wahiawa.	
	11/5/2018		Added sixty two (62) Address Points at Ewa Villa Estates in Ewa Beach.	
	11/5/2018		Spatially corrected three (3) Address Points at Ewa Colony Estates in Ewa Beach.	
	11/5/2018		Added twenty three (23) Address Points at Ewa Colony Estates in Ewa Beach.	
	11/2/2018		Added Building Number to four (4) Address Points at Ewa Beach Townhouse in Ewa Beach.	
	11/2/2018		Added eight (8) Address Points at Ewa Beach Townhouse in Ewa Beach.	
11/2/2018		Spatially corrected ten (10) Address Points at Ewa Villa Estates in Ewa Beach.		



# Oahu Civilian E9-1-1 Status Report

November 1, 2018 - November 30, 2018

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.*

OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Address Points	11/2/2018		Added twelve (12) Address Points at Ewa Villa Estates in Ewa Beach.
	11/1/2018		Spatially corrected thirteen (13) Address Points at Ewalani Villages in Ewa Beach.
	11/1/2018		Spatially corrected six (6) Address Points in Ewa Beach.
	11/1/2018		Added sixty eight (68) Address Points at Ewalani Village in Ewa Beach.
Airports			
AMR Response Areas			
Bridges			
Building Footprints			
Bus Stops		<b>11/09/18</b>	
	11/5/2018		Spatially corrected twenty-nine (29) Bus Stops in Maili.
	11/2/2018		Spatially corrected four (4) Bus Stops in the Maili.
Churches			
Coastal Names			
Coastline			
Common Places		<b>11/23/18</b>	
	11/16/2018		Delivered the shapefile and CSV export of all Common Place Names for Oahu to HPD and HFD.
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations			
Food & Beverage			
Gas Stations			
Gate Codes			
Government Buildings			

# Oahu Civilian E9-1-1 Status Report

November 1, 2018 - November 30, 2018

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.*

OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
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			
Military Response Areas			
MSAG Communities			
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety		11/09/18	
	11/5/2018		Spatially corrected two (2) Ocean Safety points in Maili.
Parcels			
Parks			
Parks Polygon			
Points of Interest	11/28/2018		Spatially corrected fifty (50) Points of Interest in Makakilo.
	11/27/2018		Spatially corrected fifty-five (55) Points of Interest in Kapolei.
	11/26/2018		Spatially corrected thirty (30) Points of Interest in Kapolei.
		11/23/18	
	11/19/2018		Spatially corrected one (1) Point of Interest in Kaimuki.
	11/16/2018		Spatially corrected forty three (43) Points of Interest in Kaimuki.
	11/15/2018		Spatially corrected twenty-one (21) Points of Interest in Nanakuli.
11/14/2018		Corrected name to one (1) Point of Interest in Honolulu.	

# Oahu Civilian E9-1-1 Status Report

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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.*

OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
	11/14/2018		Spatially corrected thirty-seven (37) Points of Interest in Nanakuli.
	11/13/2018		Spatially corrected six (6) Points of Interest in Nanakuli.
		<b>11/09/18</b>	
	11/9/2018		Spatially corrected seven (7) Points of Interests in Maili.
	11/9/2018		Spatially corrected thirteen (13) Points of Interest in Nanakuli.
	11/8/2018		Spatially corrected eight (8) Points of Interest in Maili.
	11/7/2018		Spatially corrected one (1) Point of Interest in Maili.
	11/7/2018		Spatially Corrected two (2) Points of Interest in Puohala Elementary School and King Middle School.
	11/6/2018		Corrected name to two (2) Points of Interest in Honolulu.
	11/5/2018		Spatially corrected six (6) Points of Interests in Maili.
	11/2/2018		Spatially corrected four (4) Points of Interest in Maili.
Police Beats		<b>11/09/18</b>	
	11/6/2018		Corrected boundary to Police Beat 878, District 8.
	11/6/2018		Corrected boundary to Police Beat 876, District 8.
	11/5/2018		Corrected boundary along coastline to one (1) Police Beat in Beat 360.
Police Districts	11/5/2018		Corrected boundary along coastline to one (1) Police Beat in Beat 370.
	11/30/2018		Corrected boundaries to all eight (8) Police Districts on Oahu to match the Polices Beats.
		<b>11/09/18</b>	
Police Response Areas	11/5/2018		Added island to one (1) Police District in District 4.
	11/30/2018		Corrected boundaries to all eight (8) Police Districts on Oahu to match the Polices Beats.
	11/30/2018		Completed correcting the boundaries for the Police Response Areas (subbeats) to match the Police Beats.
	11/29/2018		Corrected boundary to six (6) subbeats in District 1.
	11/29/2018		Corrected boundary to one (1) subbeat in District 2.
	11/29/2018		Corrected boundary to three (3) subbeat in District 4.
	11/29/2018		Corrected boundary to three (3) subbeats in District 5.
	11/29/2018		Corrected boundary to one (1) subbeat in District 7.
	11/28/2018		Corrected boundary to twenty six (26) subbeats in District 2.
	11/28/2018		Corrected boundary to sixty one (61) subbeats in District 8.
11/27/2018		Corrected boundary to seven (7) subbeats in District 2.	
11/27/2018		Corrected boundary to forty five (45) subbeats in District 3.	

# Oahu Civilian E9-1-1 Status Report

November 1, 2018 - November 30, 2018

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.*

OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>				
Police Response Areas	11/27/2018		Corrected boundary to three (3) subbeats in District 5.	
	11/27/2018		Corrected boundary to sixty three (63) subbeats in District 6.	
	11/27/2018		Corrected boundary to thirty three (33) subbeats in District 7.	
	11/27/2018		Corrected boundary to thirteen (13) subbeats in District 8.	
	11/26/2018		Corrected boundary to fifty two (52) subbeats in District 1.	
	11/26/2018		Corrected boundary to one hundred forty three (143) subbeats in District 7.	
		<b>11/23/18</b>		
	11/23/2018		Corrected boundary to three (3) subbeats in Beats 651, District 6.	
	11/23/2018		Corrected boundary to seven subbeats in Beats 653, District 6.	
	11/20/2018		Corrected boundary to fifty (50) subbeats in Beats 564, 565, 567, 568, 569, 571, 572, and 573 in District 5.	
	11/20/2018		Corrected eighty five (85) subbeats in Beats 150, 151, 152, 154, 156, 157, 158, 160, 165, 167, 168, 170, 171 in District 1.	
	11/19/2018		Corrected boundary to sixty four (64) subbeats in Beats 552, 554, 557, 558, 559, 560, 562, 563, 570 in District 5.	
	11/16/2018		Corrected boundary to one hundred two (102) subbeats from Beats 372, 374, 375, 380, 381, 382, 383, 384, 550, 551, 553, 555, 556 and 557.	
	11/15/2018		Corrected boundary to eleven (11) subbeats in Police Beat 353, District 3.	
	11/15/2018		Corrected boundary to thirteen (13) subbeats in Police Beat 370, District 3.	
	11/15/2018		Corrected boundary to eight (8) subbeats in Police Beat 371, District 3.	
	11/15/2018		Corrected boundary to five (5) subbeats in Police Beat 372, District 3.	
	11/15/2018		Corrected boundary to ten (10) subbeats in Police Beat 373, District 3.	
	11/15/2018		Corrected boundary to three (3) subbeats in Police Beat 374, District 3.	
	11/14/2018		Corrected boundary to five (5) subbeats in Police Beat 464, District 4.	
11/14/2018		Corrected boundary to five (5) subbeats in Police Beat 465, District 4.		
11/14/2018		Corrected boundary to ten (10) subbeats in Police Beat 467, District 4.		
11/14/2018		Corrected boundary to six (6) subbeats in Police Beat 468, District 4.		
11/14/2018		Corrected boundary to six (6) subbeats in Police Beat 469, District 4.		
11/14/2018		Corrected boundary to five (5) subbeats in Police Beat 471, District 4.		

# Oahu Civilian E9-1-1 Status Report

November 1, 2018 - November 30, 2018

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.*

OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/Edits Performed			
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE</b> (Listed Alphabetically)				
Police Response Areas	11/14/2018		Corrected boundary to two (2) subbeats in Police Beat 472, District 4.	
	11/14/2018		Corrected boundary to one (1) subbeat in Police Beat 475, District 4.	
	11/14/2018		Corrected boundary to two (2) subbeats in Police Beat 477, District 4.	
	11/14/2018		Corrected boundary to three (3) subbeats in Police Beat 478, District 4.	
	11/14/2018		Corrected boundary to three (3) subbeats in Police Beat 480, District 4.	
	11/14/2018		Corrected boundary to nine (9) subbeats in Police Beat 252, District 2.	
	11/14/2018		Corrected boundary to seven (7) subbeats in Police Beat 254, District 2.	
	11/14/2018		Corrected boundary to four (4) subbeats in Police Beat 255, District 2.	
	11/14/2018		Corrected boundary to nine (9) subbeats in Police Beat 256, District 2.	
	11/14/2018		Corrected boundary to four (4) subbeats in Police Beat 258, District 2.	
	11/14/2018		Corrected boundary to nine (9) subbeats in Police Beat 260, District 2.	
	11/14/2018		Corrected boundary to eight (8) subbeats in Police Beat 268, District 2.	
	11/14/2018		Corrected boundary to three (3) subbeats in Police Beat 270, District 2.	
	11/14/2018		Corrected boundary to one (1) subbeats in Police Beat 272, District 2.	
	11/13/2018		Corrected boundary to four (4) subbeats in Police Beat 453, District 4.	
	11/13/2018		Corrected boundary to six (6) subbeats in Police Beat 454, District 4.	
	11/13/2018		Corrected boundary to eight (8) subbeats in Police Beat 455, District 4.	
	11/13/2018		Corrected boundary to eight (8) subbeats in Police Beat 456, District 4.	
	11/13/2018		Corrected boundary to four (4) subbeats in Police Beat 458, District 4.	
	11/13/2018		Corrected boundary to five (5) subbeats in Police Beat 459, District 4.	
	11/13/2018		Corrected boundary to SIX (6) subbeats in Police Beat 461, District 4.	
	11/13/2018		Corrected boundary to two (2) subbeats in Police Beat 462, District 4.	
	11/13/2018		Corrected boundary to three (3) subbeats in Police Beat 464, District 4.	
	11/13/2018		Corrected boundary to two (2) subbeats in Police Beat 465, District 4.	
		<b>11/09/18</b>		
		11/9/2018		Corrected boundary to six (6) subbeats in Police Beat 450, District 4.
		11/9/2018		Corrected boundary to eight (8) subbeats in Police Beat 451, District 4.
		11/9/2018		Corrected boundary to two (2) subbeats in Police Beat 453, District 4.
		11/9/2018		Corrected boundary to two (2) subbeats in Police Beat 879, District 8.
		11/9/2018		Corrected boundary to one (1) subbeat in Police Beat 877, District 8.
	11/8/2018		Corrected boundary to three (3) subbeats in Police Beat 870, District 8.	
	11/8/2018		Corrected boundary to one (1) subbeat in Police Beat 871, District 8.	

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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.*

OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/ Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Police Response Areas	11/8/2018		Corrected boundary to four (4) subbeats in Police Beat 872, District 8.
	11/8/2018		Corrected boundary to one (1) subbeat in Police Beat 874, District 8.
	11/8/2018		Corrected boundary to one (1) subbeat in Police Beat 879, District 8.
	11/7/2018		Corrected boundary to one (1) subbeat in Police Beat 876, District 8.
	11/7/2018		Corrected boundary to two (2) subbeats in Police Beat 877, District 8.
	11/7/2018		Corrected boundary to four (4) subbeats in Police Beat 874, District 8.
	11/6/2018		Corrected boundary to two (2) subbeats in Police Beat 878.
	11/6/2018		Corrected boundary to one (1) subbeats in Police Beat 877.
	11/6/2018		Corrected boundary to six (6) subbeats in Police Beat 876.
	11/6/2018		Corrected boundary to seven (7) subbeats in Police Beat 875.
	11/5/2018		Corrected boundaries to two (2) subbeats within Beat 850.
Police Sectors		<b>11/09/18</b>	
	11/6/2018		Created Police Sectors layer for Oahu.
	11/6/2018		Added thirty (28) police sectors to the Police Sectors layers for Oahu.
Police Stations			
Post Offices			
Schools			
Street Centerlines	11/29/2018		Corrected range on fourteen (14) Street Centerlines in Waimanalo.
	11/29/2018		Flipped segment on one (1) Street Centerline in Waimanalo.
	11/28/2018		Corrected range on sixteen (16) Street Centerlines in Waimanalo.
	11/27/2018		Corrected ranges on three (3) Street Centerlines in Kapolei
	11/27/2018		Created ten (10) Street Ingresses in Kapolei Middle School.
	11/27/2018		Corrected speed limit to three (3) segments in Kahaaluu.
	11/26/2018		Corrected range to one (1) segment in Kalihi.
		<b>11/23/18</b>	
	11/23/2018		Corrected range on eleven (11) Street Centerlines in Waimanalo.
	11/21/2018		Corrected Full Street Name to two (2) segments in Aina Haina.
	11/21/2018		Corrected Full Street Name to fifty five (55) segments in Ala Moana.
	11/21/2018		Corrected Full Street Name to sixteen (16) segments in Aliamanu.
	11/21/2018		Corrected Full Street Name to one (1) segment in Ewa Beach.
11/21/2018		Corrected Full Street Name to five (5) segments in Hawaii Kai.	
11/21/2018		Corrected Full Street Name to one (1) segment in Kailua.	

# Oahu Civilian E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART VIII)

*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.*

OAHU CIVILIAN PSAPS				
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks	
	Date Created/ Edits Performed			
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>				
Street Centerlines	11/21/2018		Corrected Full Street Name to one (1) segments in Waipahu.	
	11/21/2018		Corrected Full Street Name to eight (8) segments in Moanalua Valley.	
	11/21/2018		Corrected Full Street Name to twenty (20) segments in Kapolei.	
	11/20/2018		Added two (2) Ingress Street Centerlines to Kaneohe Elementary School in Kaneohe.	
	11/20/2018		Added five (5) Ingress Street Centerlines to Heeia Elementary School in Kaneohe.	
	11/20/2018		Added two (2) Ingress Street Centerlines to King Middle School in Kaneohe.	
	11/20/2018		Corrected Range on ten (10) Split Segments on Street Centerlines in Kaneohe.	
	11/20/2018		Flipped one (1) segment in Ewa Beach.	
	11/19/2018		Split segment and corrected range to two (2) segments in Kaneohe.	
	11/19/2018		Split segment and corrected range to two (2) segments in Waianae.	
	11/19/2018		Added seventeen (17) Ingresses on King Middle School in Kaneohe.	
	11/19/2018		Added four (4) ingress segments in Waianae.	
	11/19/2018		Added four (4) ingress segments in Kaneohe.	
	11/19/2018		Delivered Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD.	
	11/13/2018		Corrected ranges to three (3) segments in Aiea.	
	11/13/2018		Corrected ranges to one (1) segment in Hawaii Kai.	
	11/13/2018		Corrected ranges to two (2) segments in Kapolei.	
	11/13/2018		Corrected parity to six (6) segments in Airport.	
	11/13/2018		Added two (2) Address Points in Makakilo.	
		<b>11/09/18</b>		
	11/7/2018			Added five (5) segments at Oneula Beach Park in Ewa Beach.
	11/7/2018			Corrected range to four (4) segments in Kalihi.
	11/7/2018			Spatially corrected four (4) segments in Ewa Beach.
11/7/2018			Corrected range to one (1) segment in Airport.	
11/7/2018			Corrected full name to one (1) segment in Airport.	
11/1/2018			Corrected speed to nineteen (19) segments—all city streets in Halawa that were previously 30 MPH have been updated to 25 MPH.	

# Oahu Civilian E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART IX)

*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.*

OAHU CIVILIAN PSAPS			
Type of Layer	Akimeka GIS Server	Date GIS Delivered	Other/Remarks
	Date Created/Edits Performed		
<b>CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH &amp; RESPONSE (Listed Alphabetically)</b>			
Street Centerlines	11/1/2018		Corrected speed to two hundred forty six (246) segments—all city streets in Moanalua Valley that were previously 30 MPH have been updated to 25 MPH.
Subdivisions			
Tow Jurisdictions			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors	11/27/2018		Added fifteen (15) towers per ATT CRS.
		<b>11/09/18</b>	
	11/9/2018		Added six (6) sectors per ATT CRS
	11/7/2018		Added two (2) sectors per ATT CRS
WSP Cell Towers	11/1/2018		per T Mobile CRS
	11/27/2018		Added five (5) towers per ATT CRS.
		<b>11/09/18</b>	
	11/9/2018		Updated two (2) towers per ATT CRS
	11/7/2018		Added one (1) tower per ATT CRS
	11/1/2018		per T Mobile CRS



# Oahu Civilian 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
11/7/2018	Delivered Police Sectors layers to TriTech.
11/9/2018	Delivered Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD.
11/9/2018	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
11/9/2018	Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.
11/9/2018	Delivered Address Points, Street Centerlines, Common Places, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, AMR Response Areas to AMR for TriTech CAD.
11/16/2018	Delivered the shapefile and CSV export of all Common Place Names for Oahu to HPD and HFD.
11/19/2018	Delivered Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD.
11/23/2018	Delivered Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, and Display Address Points to HFD, EMS, and Ocean Safety for TriTech CAD.
11/23/2018	Delivered Address Points, Common Places, Street Centerlines, Police Response Areas, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas, ESN, MSAG Communities, Cell Towers, Cell Sectors to the Honolulu MapFlex system for HPD, HFD, EMS, and Ocean Safety.

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## HONOLULU POLICE DEPARTMENT TRITECH CAD PROJECT

On October 10, 2018, Akimeka participated along with the CAD project team of the Honolulu Police Department on a teleconference GIS kickoff meeting with the TriTech CAD Company. Items that were discussed were GIS requirements for the CAD and RMS systems.

On October 25, 2018, Akimeka’s initial delivery of 11 GIS layers to the TriTech FTP site included: Address Points, Airports, Coastline, Fire Response Areas, Medic Response Areas, MSAG Communities, Parks, Police Beats, State Boundary, Streams, and Street Centerlines.

Two spreadsheets describing the layers were also provided on the FPT site.

## MAPFLEX SYSTEM

During the month of November 2018, 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 through 2017 years.

1. Akimeka delivered GIS data to the MapFlex system on the following dates in November 2018
  - a. **Hawaii County** – November 6<sup>th</sup> , 2018 and November 20<sup>th</sup> , 2018
  - b. **Maui County** – November 7<sup>th</sup> , 2018 and November 21<sup>st</sup> , 2018
  - c. **Kauai County** – November 8<sup>th</sup> , 2018, and November 21<sup>st</sup> , 2018
  - d. **Honolulu** – November 9<sup>th</sup> , 2018, November 19<sup>th</sup> , and November 23<sup>rd</sup> , 2018

## 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.

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11/2016	Wireless Confidence	Sprint calls coming across with unusually high confidence. Coordination is taking place with Sprint and West. West provides the PDE services for Sprint.	Pending
3/22/2017	ArcGIS Address Locator	The locators in MapFlex have a configurations which does not include ESNs. A reported issue has occurred with the Sheraton in Waikiki. The address locator does not differentiate between the Sheraton hotel and the surf break and plots on the surf break. The bigger issue is that this same issue will occur with complexes that have same primary address.	Pending A new SP 5.4 update by West is aimed to correct this issue.
5/17/2017	VoIP Calls Plotting Incorrectly	Recognized in late April and early May 2017, the PSAPs have been receiving several VoIP calls which are plotting in the incorrect locations. After further research it was determined that it is because MapFlex is configured to plot the received Lat/Long. The problem is that these are not always maintained properly and that ideally the system should first choose to match with the GIS data based on the provided address. During the September 20, 2017 PSAP conference call, HT relayed there was confirmation that the Time Warner records were in fact passing through the West FMCC.	Partially Resolved – the Lat/Longs are no longer being plotted in MapFlex due to a software release.
5/17/2017	Landline Calls Producing X/Y on calls	It was determined that for normal landline calls, the X/Y coordinates are being sent. The PSAPs have asked where these are being generated and why would they be sent for landline calls.	West is looking into this (May - June 2017)
5/23/2018	Phase I & Phase II coverage area	Phase I calls received at the Kihei Maui PSAP are displaying a circular circumference area rather than a cone shaped directional coverage. Phase II calls are not plotting the COF meters correctly.	Pending
5/24/2018	Incorrect Addresses	MapFlex system began displaying incorrect addresses in the bubble display when an Address Point is right mouse clicked to see information by the PSAPs. However, the address in the data is still correct as shown on the left hand side.	Pending
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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### STREET UTILITY CHECK

This is an ongoing project to correct the errors identified. A comparison of the raw CAD generated report from the Street Check Utility was performed between the Street Centerline GIS data on November 1, 2018 and November 30, 2018.

Street Utility Check				
	First Report 06/01/13	10/31/2018	11/30/2018	Improvements/Corrections
Total Number of GIS Records	26,602	31,232	31,238	Increased by 6 records
Errors Identified				
Zero Errors	5,112	0	0	No change
Low > High Errors	3	0	0	No change
Mixed Parity Errors	1	0	0	No change
Changed Parity Errors	105	0	0	No change
Address Gap Errors	2,629	0	0	No change
Address Overlap Errors	423	1	4	Increased by 3 records
Flipped Link Errors	1,030	8	4	Decreased by 4 records
<b>Total Errors</b>	<b>9,303</b>	<b>9</b>	<b>8</b>	Decreased by 1 records

In addition to Akimeka’s internal validation tools, Akimeka will continue to utilize the various CAD reports to further identify and correct the multitude of discrepancies in the GIS data. This is an ongoing and routine process which Akimeka has been using to improve the accuracy of the GIS data for Public Safety.

As a result of the GIS efforts within the military jurisdictional areas covered primarily by the RDC, the GIS data is undergoing several changes within the bases which will cause a fluctuation in the Street Check results, which is to be expected. Any discrepancies that are identified will be corrected in the following GIS deliverable.

### TRITECH CAD ADDRESS POINT PROJECT

During the month of February 2018 after several months of discussion and testing, the Address Points were loaded into TriTech and moved into the HFD/EMS shared CAD. Since that time, HFD, EMS, and Akimeka have been working closely together to identify and update subaddress location for various complexes around Oahu. Several hundred new address points have been added to the GIS as a result of this collaboration.

During the month of March 2018, there were only a couple minor updates communicated and one issue identified with addresses within close proximity to the H1 freeway.

1. Akimeka ran an analysis and added routing information into more than 27,000 Address Points to resolve the geotolerance within TriTech.
2. During the month of April 2018, it was identified that the issue related to the H1 Fwy still remain and after investigation it was determined that a component within the SQL server for TriTech requires a potential update to allow for routing to be overridden based off of the Routing ID information.
  - a. A trouble ticket has been opened with TriTech who is further investigating the potential correction, outside of the GIS data.
3. During the month of November 2018, there were no further developments.

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## SPEED LIMIT UPDATES

Beginning in April 2017, and now that the Street Centerline data has achieved not only an above 98% synchronization rating but also a high degree of accuracy in the spatial accuracy, a new project to correct speed limits has begun. The project is beginning in Waimanalo and continuing in a counter-clockwise patten around the island of Oahu. The initial focus is on Highways, Freeways, and other major roads, but also not limited to additional corrections, especially those which are immediately identified to positively impact vehicle routing, etc.

All updates are shared directly with the PSAPs and the agency most affected (positively) is HFD since they actively use vehicle routing and this will assist in better CAD unit recommendations. During each GIS deliverable, a list of updates are being provided.

1. During the 2017 year, from April 2017 to December 2017, more than 4,200 street segments were updated to reflect posted speed limit restrictions from Waimanalo to Nanakuli.
2. During January 2018, 1,187 segments were updated in Maili, Nanakuli, and Kapolei.
3. Throughout the month of February 2018, 2,025 speed limits were updated in Ewa Beach, Makakilo, and Iroquois.
4. During March 2018, 3,743 street segments were updated across Makakilo, Kunia, Iroquois, Pearl Harbor, Waipahu, Wahiawa, Waialua, and Mililani.
5. During the month of April 2018, Akimeka held on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure the routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
6. During the month of May 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
7. During the month of June 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (see TriTech Address Points Project narrative above for further information on routing items).
8. During the month of July 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (refer to TriTech Address Points Project narrative above for further information on routing items).
9. During the month of August 2018, Akimeka continued the hold on the speed limit updates until HFD has had a chance to test out the TriTech and to ensure routing is correct (refer to TriTech Address Points Project narrative above for further information on routing items).
10. During the month of September 2018, Akimeka resumed the speed limit updates. 1,081 street segments were updated across Waipio and Pearl City.
11. During the month of October 2018, Akimeka continued the speed limit updates. 1,094 street segments were updated across Aiea, McGrew Point (McGrew Pt) and Pearl City Peninsula (PC PEN).
12. During the month of November 2018, Akimeka continued the speed limit updates. 265 street segments were updated across Halawa and Moanalua Valley.

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## HONOLULU EMS RESPONSE AREA

During the month of December 2017, EMS requested a high resolution map of the Honolulu Response Area which will likely be divided into 5 separate response areas to better support the EMS operations and ambulance response times.

1. With HPD's approval, Akimeka prepared a map of the requested area and provided to EMS on December 12, 2017.
2. Considering the additional response areas will certainly require the creation of additional ESZ/ESNs; HPD, EMS, and Akimeka will be coordinating so that the project can be mapped out on a timeline so that the changes can take place while maintaining an above 99% synchronization level between GIS, MSAG, and ALI.
3. An operational consideration has already begun a discussion, in that the military ESNs will likely be reallocated to a new numbering so that both civilian and military responses will have enough ESNs to support their individual operations.
4. During the first half of 2018, there will be further discussion on the creation of the new Response Areas, allocation of military ESNs, and create of new ESZs/ESNs.

## AMR-H

The American Medical Response Hawaii (AMR-H) Project is a joint venture by the Honolulu Emergency Services Department (HESD) to provide accurate address and location information to its other public safety agencies. This project is to ensure AMR-H is utilizing the same address and location information as the other HESD public safety agencies, and to ensure compliance with National 9-1-1 directives such as the FCC Docket 15-9 regarding location accuracy. The intent is to provide the same accurate location information to all the HESD public safety response agencies to help reduce response times to the 9-1-1 caller.

## NOTE:

This work is performed under a separate contract.

## AMERICAN MEDICAL RESPONSE (AMR) HAWAII PROJECT

Since the start of the GIS deliverable schedule with AMR, there have been no reported issues or concerns. In order to open up discussion on any operational improvements via the GIS data, or to identify any updates that can be made, AMR and Akimeka held a brief conference call on December 5, 2017.

1. During the discussion there was overwhelming agreement that the data provided by Akimeka is working great for the dispatchers and first responders at AMR.
2. There were some areas that were discussed where searching for certain addresses will prompt a list of invalid addresses.
  - a. Through the discussion it was identified that the CAD system is aggregating various data sources since they are dispatching throughout the State. The data that Akimeka provides for the island of Oahu is working great, however since the neighbor islands are using various sources of data in different formats, the accuracy of that data is greatly in question and is likely not fully supportive of the search requirements in the CAD.
3. A final topic of discussion was on training for the AMR dispatcher. Joe from AMR who was on the call, took this as an action item to prepare training material for searching criteria, especially intersections. Akimeka volunteered that they can make themselves available to collaborate on the training material if needed.
4. There are no follow up calls scheduled at this time, however Akimeka informed that any issues or improvements identified will be looked at immediately and to send the requests as they are identified.

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### 4. E9-1-1 OAHU CIVILIAN 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 – January 2019

AUDIT SUMMARY RESULTS – 2018 - 2019 -- TBA

AUDIT SUMMARY RESULTS – JANUARY 1, 2019 MSAG VS OCTOBER 1, 2018 MSAG -- TBA

AUDIT SUMMARY RESULTS-JANUARY 1, 2019 MSAG VS OCTOBER 1, 2017 MSAG CONTINUED

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DATABASE DISCREPANCIES -- TBA