Hawai'i Enhanced 9-1-1
Board Meeting

Kalanimoku Bldg., Room 322B
1151 Punchbowl St., Honolulu

Tuesday, June 09, 2015
9:00 am to 12:00 pm

Agenda

I. **Call to Order, Public Notice, Quorum**
II. **Public testimony on all agenda items**
III. **Introductions**
IV. **Review and Approval of Last Month's Meeting Minutes**
V. **Presentation for Award of Board Service**
VI. **Committee Updates by Committee Chairs**
   a. Communications Committee – Steven Schutte
   b. Technical Committee – Victor Ramos
      i. Investigative Regulatory Committee update
      ii. FCC updates
      iii. Text-2-911 update
      iv. Others
   c. Finance Committee – Kiman Wong
      i. Review of FY 2015 Cash Monthly Financial report
      ii. FY 2016 – 20 Strategic Budget Plan
      iii. Others.
VII. **PSAP Status Updates**
   a. Kauai – Mark Begley
   b. Oahu – Dave Kajihiro

c. Molokai – Victor Ramos
d. Maui – J. Jakubczak
e. Hawaii – Paul Ferreira

VIII. Items for Discussion, Consideration and Action

a. 911 Timeline update
b. Request for funding approval:
    i. APCO Conference August 16-19, 2015, Washington, DC
        1. (1) 911 Staff - $3000
        2. (1) Board Member - $3000
        3. (1) Oahu IT- $3,000
c. Election of Board Officers Term to begin July 1
    i. Chair
    ii. Vice Chair
d. Committee Appointments
    i. Committee Chair and Committee members:
        1. Communications Committee
        2. Technical Committee
        3. Finance Committee
e. Continuation or Completion of the Investigative Committees:
    i. Regulatory Committee
    ii. Legislative Committee
    iii. Selection Committee
f. Transition TKC to RCUH
g. Others.

IX. Announcements

a. Meeting dates (9:00am – 12:00pm).
        1. Thursday, July 9, 2015 (Combined meeting)
        2. Thursday, August 13, 2015 (Combined meeting)
b. Others

X. Open Forum: Public comment on issues not on the agenda for consideration for Board agenda at the next meeting

XI. Adjournment

If you require an auxiliary aid or accommodation due to a disability, please contact (808) 943-9545 ext. 19 or email at smgeorge@akimeka.com by 06/02/2015.

STATE OF HAWAII

Enhanced 911 Board Meeting
Tuesday, June 9, 2015
(Joint Meeting with Committees)
Kalanimoku Bldg., Room 322B
1151 Punchbowl St., Honolulu
9:00 am to 12:00 noon

Meeting Minutes

Board members present: Victor Ramos (Chair), Mark Begley, Lisa Hiraoka (Consumer Advocate Designee), Marshall Kanehailua, Steven Schutte, Roy Irei, John Jakubczak and Ryan Freitas.

Board members absent: Jeff Riewer, Todd Nacapuy, Kiman Wong and Mark Wong.

Staff Present: Thera Bradshaw, Courtney Tagupa, Stella Kam and Sandy George.

Guests: Allan Nagata (HPD), Bonnie Young (MPD), Clement Chan (DIT), David Miyasaki (KPD), Davlynn Racadio (MPD), Diana Chun (EMS), Gary Lum (HFD), James Howe (Ocean Safety), Kenison Tejada (APCO/NENA), Lavina Taovao (KPD), Paul Ferreira (HawPD), Randal Macadangdang (HPD), Robert Gausepohl (KPD), Thalia Burns (HPD), Tony Ramirez (Akimeka), Travis Ing (HawPD), Victoria Garcia (DoD), A Lum (HPD), Ben Morgan (HT), Ikaika Soo (ATT), Annette Rausch (Intrado), Liz Gregg (ATT), Wayne Hirasa (Sandwich Isle) and Eric Butler.

I. Call to Order, Public Notice, Quorum

a. The Board Chair called the meeting to order at 11:15 am.

b. Quorum was present.

II. Public testimony on all agenda items

a. The Board chair requested of those in attendance who wish to provide testimony on any agenda item to please do so at this time; no one came forward.

III. Introductions

a. Introductions were made of all in attendance.

IV. Review and Approval of Last Month's Meeting Minutes

a. There was a motion to approve to approve the minutes of the May Meeting. The motion was seconded and approved by voice vote without discussion.

V. Committee Updates by Committee Chairs

a. Communications Committee – Steven Schutte
    i. There were no updates.

b. Technical Committee – Victor Ramos
    i. Investigative Regulatory Committee update
        1. There were no addendums to what was discussed during the Joint Committee meetings.
    ii. FCC updates
        1. There were no addendums to what was discussed during the Joint Committee meetings.
    iii. Others

c. Finance Committee – Kiman Wong
    i. Review of FY 2015 Cash Monthly Financial report
        1. There were no addendums to what was discussed during the Joint Committee meetings.
    ii. FY 2016-20 Strategic Budget Plan
        a. Paul Ferreira motioned to add the approval of the FY 2016-20 Strategic Budget Plan to the discussion items of today's agenda. The motion was approved by voice vote without discussion.
    iii. Others.

VI. PSAP Status Updates

a. Kauai – Mark Begley – no updates

b. Oahu – Alan Nagata – no updates

c. Molokai – V. Ramos – no updates

d. Maui – J. Jakubczak – no updates

e. Hawaii – Marshall Kanehailua – no updates

VII. Items for Discussion, Consideration and Action

a. 911 Timeline update

b. Request for approval:
    i. APCO Conference (August 16 – 20, 2015) Wash.DC

1. Executive Director (1) - $3,000.
2. Board member (1) - $3,000.
3. Oahu DIT (1) - $3,000.
4. Marshall Kanehailua motioned to approve the total amount of $9,000 for attendance by the aforementioned individuals to the APCO Conference on August 16-20, 2015 in Wash.DC. The motion was seconded and approve by voice vote without discussion.

ii. Election of Board Officers Term to begin July 1, 2015.

1. i. Board Chair
    a. Mark Begley motioned to approve the nomination of Paul Ferreira as Board Chair. The motion was seconded and approved by voice vote without discussion.
2. ii. Board Vice Chair
    a. Victor Ramos motioned to approve the nomination of Roy Irei for Board Vice Chair. The motion was seconded and approved by voice vote without discussion.

iii. Committee Appointments

1. Committee Chair and Committee members.
    a. The Board members agreed to continue the Communications, Technical and Finance Committees.
    b. Communications Committee:
        i. Steven Schutte was appointed to chair the Communications Committee.
    c. Technical Committee:
        i. Thalia Burns was appointed to chair the Technical Committee.
    d. Finance Committee:
        i. Kiman Wong was appointed to chair the Finance Committee.

2. Continuation or Completion of the Investigative Committees:
    a. Regulatory Committee – Marshall Kanehailua was appointed to continue as the Investigative Regulatory Committee Chair.
    b. Legislative Committee – Paul Ferreira was appointed to chair the Legislative Investigative Committee.
    c. Selection Committee – The selection committee will be disbanded until needed in the future.

iv. Others
1. Transfer of database and equipment from TKC to E911 Board as TKC's contract with the Board comes to an end.
2. Approval of the FY 2016-20 Strategic Budget Plan
    a. Mark Begley motioned to approve the FY 2016-20 Strategic Budget Plan. The motion was seconded and approved by voice vote without discussion.

VIII. Announcements

a. Meeting dates (9am – 12noon).
1. Thursday, August 13, 2015 (Combined meeting)
2. Thursday, September 10, 2015 (Combined meeting)
3. Thursday, October 8, 2015 (Combined meeting)
4. Thursday, November 12, 2015 (Combined meeting)
5. Thursday, December 10, 2015 (Combined meeting)

b. Others
i. Presentation of certificates of commendation to Victor Ramos, Dave Kajihiro and Marshall Kanehailua for their outstanding public service as members of the Enhanced 911 Board.
ii. Thera Bradshaw, was recognized for her dedication and outstanding service as the Executive Director of the Enhanced 911 Board.

IX. Open Forum: Public comment on issues not on the agenda for consideration for Board agenda at the next meeting.

i. The Board Chair requested if anyone present who wishes to comment on issues not on the agenda for consideration for the Board agenda at the next meeting to please come forward. No one came forward.

X. Adjournment

i. The meeting was adjourned at 12 noon.

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

Budget Analysis				
FY 2014-15	Actuals		Annual	% of Budget
	MAY	FY-T-D	Budget	Expended
Receipts:				
Enhanced 911 Surcharge Collection	780,584	8,513,160	9,080,000	93.8%
Interest Income	118	1,169	2,500	46.7%
Receipts	780,702	8,514,329	9,082,500	93.7%
Disbursements:				
Conference Travel	(3,649)	(84,836)	(170,000)	49.9%
Non-Recurring Expenses	-	(13,472)	(1,900,556)	0.7%
Recurring Expenses:				
Administration	(38,932)	(726,865)	(1,261,692)	57.6%
Maintenance	(312,045)	(1,619,992)	(3,533,551)	45.8%
Telecommunications	(118,531)	(1,215,321)	(2,097,998)	57.9%
Other	-	3,770	(7,600)	-49.6%
C&C HNL Reimbursement		302,238	302,238	100.0%
Disbursements	(473,158)	(3,354,477)	(8,669,159)	38.7%
Net Receipts/(Disbursements)	307,544	5,159,852	413,341	
Cash Flow Analysis				
Net Receipts/(Disbursements)	$ 307,544	$ 5,159,852		
Encumbrance Paydowns:				Encumb. Bal.
FY 2011 (Kauai)				419,000
FY 2012 (HFD/EDS/HPD)				751,432
FY 2014		$ (749,004)		1,521,901
Accounts Receivable (Offset)		$ (350)		2,952
Net Encumbrance Adds/(Paydown)	$ -	$ (749,354)		
Net Cash Inflow/(Outflow)	$ 307,544	$ 4,410,498		
Bank Balance Analysis:				
ADD: July 1, 2014 Beginning Balance		$ 12,504,198		
Net Bank Balance		$ 16,914,696		
Outstanding Ecumb/Accruals		$ (2,692,333)		
Unencumbered Cash Balance	$ -	$ 14,222,363		

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

MONTH OF MAY 2015	Hawaii PSAP	Kauai PSAP	Maui PSAP	Oahu PSAP	ADMIN	TOTAL
Total RECEIPTS	-	-	-	-	780,702	780,702
DISBURSEMENTS:						
6200 CONFERENCES						
6222 TriTech CAD Users	-	-	-	3,649	-	3,649
Total 6200 CONFERENCES	-	-	-	3,649	-	3,649
6400 RECURRING EXPENSES						
6401 ADMINISTRATION						
6401.01 Exec Dir. Services	-	-	-	-	30,000	30,000
6401.02 ElectronSignatur	-	-	-	-	240	240
6401.08 Board Member Travel	-	-	-	-	3,799	3,799
6401.20 RCUH Contract	-	-	-	-	4,455	4,455
6402.21 Cell Phone Charges	-	-	-	-	375	375
6402.22 Office Supplies	-	-	-	-	63	63
Total 6401 ADMINISTRATION	-	-	-	-	38,932	38,932
6402 MAINTENANCE						
6402.02 Imagery Lic Agree	-	186,808	-	-	-	186,808
6402.07 0011 9-1-1MSAG Maint.	59,828	-	18,795	46,615	-	125,237
Total 6402 MAINTENANCE	59,828	186,808	18,795	46,615	-	312,045
6403 Other RECURRING						
6403.01 Telcom Charges						
6403.0102 Long Distance	85	57	29	-	-	171
6403.0109 Telcom Trunk	76,586	18,566	23,208	-	-	118,360
Total 6403.01 Telcom Charges	76,671	18,623	23,236	-	-	118,531
Total 6403 Other RECURRING	76,671	18,623	23,236	-	-	118,531
Total 6400 RECURRING EXPENSES	136,499	205,432	42,031	46,615	38,932	469,509
Total DISBURSEMENTS:	136,499	205,432	42,031	50,264	38,932	473,158

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

	Hawaii PSAP	Kauai PSAP	Maui PSAP	Molokai PSAP	Oahu PSAP	ADMIN	TOTAL		
FY-TO-DATE MAY 2015 (11 mos.)	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
Total RECEIPTS	-	-	-	-	-	8,514,329	8,514,329	-	8,514,329
DISBURSEMENTS:									
6200 CONFERENCES									
6141 Access9-1-1Forum	-	-	-	-	-	(207)	(207)	-	(207)
6201 911 Goes to WashDC	(150)	-	-	-	7,640	11,225	18,714	37,818	(19,104)
6204 APCO Conference	7,586	6,085	6,526	-	15,155	5,386	40,738	46,286	(5,548)
6212 NASNA Conference	-	-	-	-	-	-	-	650	(650)
6213 Navigator	-	-	-	-	(73)	-	(73)	-	(73)
6214 Nena Conference	-	-	(2)	-	6,248	1,764	8,011	55,024	(47,013)
6222 TriTech CAD Users	-	5,916	-	-	8,057	-	13,973	18,000	(4,027)
6227 FCC Hearings	-	-	-	-	-	3,679	3,679	5,023	(1,344)
6228 HxGN Live Hexagon Conf	-	-	-	-	-	-	-	6,600	(6,600)
6200 CONFERENCES - Other	-	-	-	-	-	-	-	599	(599)
Total 6200 CONFERENCES	7,436	12,001	6,525	-	37,027	21,846	84,836	170,000	(85,164)
6300 Non-RECURRING									
6301 CAD Replac/Upgrade									
6301.01 EMS	-	-	-	-	6,949	-	6,949	-	6,949
6301.02 Hawai'i Police Dept	-	-	-	-	-	-	-	1,500,000	(1,500,000)
6301.04 Honolulu Police	-	-	-	-	(833)	-	(833)	-	(833)
6301.05 Kauai Police Dept	-	7,356	-	-	-	-	7,356	7,356	(0)
Total 6301 CAD Replac/Upgrade	-	7,356	-	-	6,116	-	13,472	1,507,356	(1,493,884)
6302 CMLs for Altern Dispat	-	-	-	-	-	-	-	300,000	(300,000)
6303 Computers									
6303.20 Dispatch Software	-	-	-	-	-	-	-	5,000	(5,000)
6303.23 HPD SMART911 S/W	-	-	-	-	-	-	-	45,200	(45,200)
Total 6303 Computers	-	-	-	-	-	-	-	50,200	(50,200)
6306 Training									
6306.11 Training (CAD) HPD	-	-	-	-	-	-	-	16,000	(16,000)
6306.12 TriTechCADSystAdm									
6306.122 CAD TriTech EMS	-	-	-	-	-	-	-	5,000	(5,000)
Total 6306.12 TriTechCADSystAdm	-	-	-	-	-	-	-	5,000	(5,000)
6306.14 NG Text to 911 Refresh	-	-	-	-	-	-	-	22,000	(22,000)
Total 6306 Training	-	-	-	-	-	-	-	43,000	(43,000)
Total 6300 Non-RECURRING	-	7,356	-	-	6,116	-	13,472	1,900,556	(1,887,084)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

FY-TO-DATE MAY 2015 (11 mos.)	Hawaii PSAP	Kauai PSAP	Maui PSAP	Molokai PSAP	Oahu PSAP	ADMIN	TOTAL		
	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
6400 RECURRING EXPENSES									
6401 ADMINISTRATION									
6401.01 Exec Dir. Services	-	-	-	-	-	320,625	320,625	350,625	(30,000)
6401.02 ElectronSignatur	-	-	-	-	-	240	240	200	40
6401.05 Audit Expense	-	-	-	-	-	13,025	13,025	13,000	25
6401.06 Bank Charge	-	-	-	-	-	42	42	100	(58)
6401.08 Board Member Travel	-	-	-	-	-	18,164	18,164	35,000	(16,836)
6401.09 DB&F Assessments									
6401.0101 DB&F Admin. Assess	-	-	-	-	-	44,307	44,307	175,000	(130,693)
6401.0102 DB&F Rev Assessment	-	-	-	-	-	269,791	269,791	452,500	(182,709)
Total 6401.09 DB&F Assessments	-	-	-	-	-	314,098	314,098	627,500	(313,402)
6401.12 NASNA Dues	-	-	-	-	-	-	-	215	(215)
6401.13 Parking Permits	-	-	-	-	-	400	400	200	200
6401.15 WSP Cost Recovery									
6401.0101 Sprint/Nextel	-	-	-	-	-	41,026	41,026	-	41,026
6401.15 WSP Cost Recovery - Other	-	-	-	-	-	-	-	70,000	(70,000)
Total 6401.15 WSP Cost Recovery	-	-	-	-	-	41,026	41,026	70,000	(28,974)
6401.17 ADA Compliance	-	-	-	-	-	-	-	500	(500)
6401.18 AG Legal Fees	-	-	-	-	-	-	-	100,000	(100,000)
6401.19 Public Education	-	-	-	-	-	-	-	50,000	(50,000)
6401.20 RCUH Contract	-	-	-	-	-	18,807	18,807	14,352	4,455
6402.21 Cell Phone Charges	-	-	-	-	-	375	375	-	375
6402.22 Office Supplies	-	-	-	-	-	63	63	-	63
Total 6401 ADMINISTRATION	-	-	-	-	-	726,865	726,865	1,261,692	(534,827)
6402 MAINTENANCE									
6402.02 Imagery Lic Agree	-	186,808	-	-	120,225	-	307,034	1,116,896	(809,863)
6402.05 Logging RecordMaint	-	-	-	-	-	-	-	60,775	(60,775)
6402.07 0011 9-1-1MSAG Maint.	179,484	146,582	187,947	-	466,145	-	980,158	1,312,521	(332,363)
6402.08 CAD Maintenance	-	-	170,000	-	162,801	-	332,801	1,038,752	(705,951)
6402.13 Software Maintenance									
6402.131 Integraph DB S/W Maint	-	-	-	-	-	-	-	4,607	(4,607)
Total 6402.13 Software Maintenance	-	-	-	-	-	-	-	4,607	(4,607)
Total 6402 MAINTENANCE	179,484	333,390	357,947	-	749,171	-	1,619,992	3,533,551	(1,913,559)
6403 Other RECURRING									
6403.01 Telcom Charges									
6403.0101 Alt. PSAP 9-1-1 Del	-	-	-	-	-	-	-	232,132	(232,132)
6403.0102 Long Distance	284	312	311	-	-	-	907	2,160	(1,253)
6403.0103 Mileage	-	-	-	-	946	-	946	11,353	(10,407)
6403.0109 Telcom Trunk	229,758	83,536	190,333	41,774	552,347	-	1,097,749	1,643,237	(545,488)
6403.0110 Ocean Safety									
6403.0110.1 CML	-	-	-	-	4,988	-	4,988	-	4,988
6403.0110.2 Centrex	-	-	-	-	1,184	-	1,184	-	1,184
6403.0110.3 Mileage	-	-	-	-	202	-	202	-	202
6403.0110 Ocean Safety - Other	-	-	-	-	(2,124)	-	(2,124)	-	(2,124)
Total 6403.0110 Ocean Safety	-	-	-	-	4,249	-	4,249	-	4,249
6403.0112 HPD CML Viper-Kapolei	-	-	-	-	75,319	-	75,319	140,916	(65,597)
6403.0113 HPDCMLViper-Alapai	-	-	-	-	10,169	-	10,169	-	10,169
6403.0114 SD Viper (OSL) (3)	-	-	-	-	25,671	-	25,671	43,500	(17,829)
6403.0115 Text-to-911 Service	-	-	-	-	-	-	-	24,100	(24,100)
6403.0116 Alt PSAP Call Route	-	-	-	-	-	-	-	600	(600)
6403.0117 Telecom Chgs-Other	-	311	-	-	-	-	311	-	311
Total 6403.01 Telcom Charges	230,042	84,160	190,644	41,774	668,701	-	1,215,321	2,097,998	(882,677)
6403.02 EMS Tower Lease	-	-	-	-	(3,770)	-	(3,770)	7,600	(11,370)
6403.03 Prior Period Reimb.	-	-	-	-	-	(302,238)	(302,238)	(302,238)	-
Total 6403 Other RECURRING	230,042	84,160	190,644	41,774	664,931	(302,238)	909,313	1,803,360	(894,047)
Total 6400 RECURRING EXPENSES	409,526	417,550	548,591	41,774	1,414,102	424,627	3,256,170	6,598,603	(3,342,433)
Total DISBURSEMENTS	416,962	436,907	555,116	41,774	1,457,245	446,473	3,354,477	8,669,159	(5,314,682)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

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							Q1	Q2	Q3	Q4			
FY 2011 Encumbrances:	Oahu	Maui	Kauai	Hawaii	Admin	Total	Paydown	Paydown	Paydown	Apr-15	May-15	Jun-15	Balance
CAD Upgrade:			419,000			419,000	-						419,000
FY 2012 Encumbrances:						-							
CAD Upgrades:													
EMS/FIRE	56,040					56,040	-						56,040
HPD	695,392					695,392	-						695,392
Total FY 2012 Encumbrances	751,432	-	-	-	-	751,432	-	-					751,432
FY 2014 Accruals													
CAD Upgrade	31,000			1,500,000		1,531,000	31,000						1,500,000
CAD Maintenance				66,518		66,518	66,518						-
DB&F Rev. Assessment					8,306	8,306	8,306						-
DB&F Admin. Assessment					55,632	55,632	55,632						-
AG Legal Expenses for IRC					25,000	25,000	1,481	235	1,284	99			21,901
NENA Conference		6,600				6,600	6,600						-
Imagery License Agreement	127,150					127,150	127,150						-
WSP Recovery-Sprint					36,000	36,000	36,000						-
MSAG & GIS	90,290	86,912	27,535	25,637		230,375	230,375						(0)
Microwave Antenna Lease	3,770					3,770	3,770						-
Ocean Safety-Telecom	2,124					2,124	2,124						-
HawTelcom CML Positions	78,907	46,416	18,578	25,529		169,430	169,430						-
HT CML Viper (Kapolei)	5,500					5,500	5,500						-
HT CML Viper (Alapai)	1,500					1,500	1,500						-
Board & Committee Travel					2,000	2,000	2,000						-
Total FY 2014 Accruals	340,242	139,927	46,114	1,617,684	126,939	2,270,905	747,386	235	1,284	99	-		1,521,901
Total Encumbrances/Accruals	1,091,674	139,927	465,113	1,617,684	126,939	3,441,337	747,386	235	1,284	99	-		2,692,333

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

FY 2015 STRATEGIC BUDGET PLAN CHANGES	HAWAII PSAP	OAHU PSAP	MAUI PSAP	KAUAI PSAP	ADMIN	CONFERENCE	TOTAL	Board Approval Date
Approved FY 2015 Strategic Budget Plan	2,503,550.00	2,869,518.00	1,050,738.00	1,063,343.00	1,264,765.00	158,000.00	8,909,914.00	6/10/2014
HPD - APCO Conference (3)		9,000.00				(9,000.00)	-	5/15/2014
HPD - APCO Conference (1) APCO/NENA Pacific Chapter		3,000.00				(3,000.00)	-	5/15/2014
KPD - APCO Conference (3)				11,100.00		(11,100.00)	-	5/15/2014
Executive Director (2) APCO					5,386.11	(5,386.11)	-	6/10/2014
MPD - APCO (2)			7,400.00			(7,400.00)	-	6/10/2014
Oahu DIT - (1) APCO		3,000.00				(3,000.00)	-	6/10/2014
HawPD - (2) APCO	7,400.00					(7,400.00)	-	6/10/2014
EMS - (2) TRICON Conference (Sep28-Oct1, 2014)		4,000.00				(4,000.00)	-	6/10/2014
KPD- TRICON Conference (Sep28-1Oct2014)				6,000.00		(6,000.00)	-	6/10/2014
RCUH Contract					14,352.00		14,352.00	7/1/2014
EMS-TRICCON Conference added funding (2)		2,000.00				(2,000.00)	-	8/14/2014
HFD - TRICON Conference (1)		6,000.00				(6,000.00)	-	8/14/2014
KPD: Intrado interface				7,356.00			7,356.00	8/14/2014
Prior Period C&CHNL Reimbursement					(120,314.44)		(120,314.44)	
Executive Director Extension (6 months)					9,375.00		9,375.00	9/11/2014
Administration Budget Adjustment from original Plan					(27,300.00)		(27,300.00)	9/15/2014
Executive Diretor Travel to Wash.DC for FCC Hearing 10/17/2014					2,523.00	(2,523.00)	-	10/9/2014
Executive Diretor Travel to Wash.DC for FCC Hearing (TBD)					2,500.00	(2,500.00)		11/13/2014
911 Goes to WashDC - HPD (3)		9,318.00				(9,318.00)		12/11/2014
911 Goes to WashDC - HawPD (2)	7,000.00					(7,000.00)		12/11/2014
911 Goes to WashDC - Executive Dir (1)					2,500.00	(2,500.00)		12/11/2014
911 Goes to WashDC - MPD (2)			7,000.00			(7,000.00)		12/11/2014
911 Goes to WashDC - Board (4)					12,000.00	(12,000.00)		12/11/2014
HPD SMART911 S/W		45,200.00					45,200.00	1/6/2015
CPA AUDIT - Egami & Associates (incremental budget to $13K					500.00		500.00	1/6/2015
NENA Conference (June 28-July 2, 2015) MPD (3)			10,500.00			(10,500.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) ADMIN (1)					2,725.00	(2,725.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) KPD (3)				9,900.00		(9,900.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) HPD (3 incl APCO/NENA)		9,999.00				(9,999.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) HawPD (3)	10,500.00					(10,500.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) Boardmember (1)					3,000.00	(3,000.00)		3/12/2015
NENA Conference (June 28-July 2, 2015) ESD (2)		5,400.00				(5,400.00)		3/12/2015
NASNA Conference (June 26-28, 2015)					650.00	(650.00)		3/12/2015
Additional Budget for Conferences						12,000.00	12,000.00	4/9/2015
Board member (1) NENA Conference (June 26-28, 2015)					3,000.00	(3,000.00)		4/9/2015
HxGN Live Hexagon International Conf (2) (1-4 June 2015)			6,600.00			(6,600.00)		4/9/2015
Adjustment for Prior Period adjustment					(181,923.40)		(181,923.40)	
Totals	2,528,450.00	2,966,435.00	1,082,238.00	1,097,699.00	993,738.27	598.89	8,669,159.16	

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

FY-TO-DATE MAY 2015 (11 mos.)	Hawaii PSAP 11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	-	-	-
6201 911 Goes to WashDC	(150)	7,000	(7,150)
6204 APCO Conference	7,586	7,400	186
6212 NASNA Conference	-	-	-
6213 Navigator	-	-	-
6214 Nena Conference	-	10,500	(10,500)
6222 TriTech CAD Users	-	-	-
6227 FCC Hearings	-	-	-
6228 HxGN Live Hexagon Conf	-	-	-
6200 CONFERENCES - Other	-	-	-
Total 6200 CONFERENCES	7,436	24,900	(17,464)
6300 Non-RECURRING			
6301 CAD Replac/Upgrade			
6301.01 EMS	-	-	-
6301.02 Hawai'i Police Dept	-	1,500,000	(1,500,000)
6301.04 Honolulu Police	-	-	-
6301.05 Kauai Police Dept	-	-	-
Total 6301 CAD Replac/Upgrade	-	1,500,000	(1,500,000)
6302 CMLs for Altern Dispat	-	-	-
6303 Computers			
6303.20 Dispatch Software	-	5,000	(5,000)
6303.23 HPD SMART911 S/W	-	-	-
Total 6303 Computers	-	5,000	(5,000)
6306 Training			
6306.11 Training (CAD) HPD	-	-	-
6306.12 TriTechCADSystAdm			
6306.122 CAD TriTech EMS	-	-	-
Total 6306.12 TriTechCADSystAdm	-	-	-
6306.14 NG Text to 911 Refresh	-	6,000	(6,000)
Total 6306 Training	-	6,000	(6,000)
Total 6300 Non-RECURRING	-	1,511,000	(1,511,000)
6400 RECURRING EXPENSES			
6402 MAINTENANCE			
6402.02 Imagery Lic Agree	-	300,000	(300,000)
6402.05 Logging RecordMaint	-	-	-
6402.07 0011 9-1-1MSAG Maint.	179,484	307,647	(128,163)
6402.08 CAD Maintenance	-	68,752	(68,752)
6402.13 Software Maintenance			
6402.131 Integraph DB S/W Maint	-	4,607	(4,607)
Total 6402.13 Software Maintenance	-	4,607	(4,607)
Total 6402 MAINTENANCE	179,484	681,006	(501,522)
6403 Other RECURRING			
6403.01 Telcom Charges			
6403.0101 Alt. PSAP 9-1-1 Del	-	-	-
6403.0102 Long Distance	284	1,200	(916)
6403.0103 Mileage	-	-	-
6403.0109 Telcom Trunk	229,758	306,344	(76,586)
6403.0110 Ocean Safety			
6403.0110.1 CML	-	-	-
6403.0110.2 Centrex	-	-	-
6403.0110.3 Mileage	-	-	-
6403.0110 Ocean Safety - Other	-	-	-
Total 6403.0110 Ocean Safety	-	-	-
6403.0112 HPD CML Viper-Kapolei	-	-	-
6403.0113 HPDCMLViper-Alapai	-	-	-
6403.0114 SD Viper (OSL) (3)	-	-	-
6403.0115 Text-to-911 Service	-	4,000	(4,000)
6403.0116 Alt PSAP Call Route	-	-	-
6403.0117 Telecom Chgs-Other	-	-	-
Total 6403.01 Telcom Charges	230,042	311,544	(81,502)
6403.02 EMS Tower Lease	-	-	-
6403.03 Prior Period Reimb.	-	-	-
Total 6403 Other RECURRING	230,042	311,544	(81,502)
Total 6400 RECURRING EXPENSES	409,526	992,550	(583,024)
Total DISBURSEMENTS	416,962	2,528,450	(2,111,488)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

FY-TO-DATE MAY 2015 (11 mos.)	Kauai PSAP 11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	-	-	-
6201 911 Goes to WashDC	-	-	-
6204 APCO Conference	6,085	11,100	(5,015)
6212 NASNA Conference	-	-	-
6213 Navigator	-	-	-
6214 Nena Conference	-	9,900	(9,900)
6222 TriTech CAD Users	5,916	6,000	(84)
6227 FCC Hearings	-	-	-
6228 HxGN Live Hexagon Conf	-	-	-
6200 CONFERENCES - Other	-	-	-
Total 6200 CONFERENCES	12,001	27,000	(14,999)
6300 Non-RECURRING			
6301 CAD Replac/Upgrade			
6301.01 EMS	-	-	-
6301.02 Hawai'i Police Dept	-	-	-
6301.04 Honolulu Police	-	-	-
6301.05 Kauai Police Dept	7,356	7,356	(0)
Total 6301 CAD Replac/Upgrade	7,356	7,356	(0)
6302 CMLs for Altern Dispat	-	300,000	(300,000)
6303 Computers			
6303.20 Dispatch Software	-	-	-
6303.23 HPD SMART911 S/W	-	-	-
Total 6303 Computers	-	-	-
6306 Training			
6306.11 Training (CAD) HPD	-	-	-
6306.12 TriTechCADSystAdm			
6306.122 CAD TriTech EMS	-	-	-
Total 6306.12 TriTechCADSystAdm	-	-	-
6306.14 NG Text to 911 Refresh	-	-	-
Total 6306 Training	-	-	-
Total 6300 Non-RECURRING	7,356	307,356	(300,000)
6400 RECURRING EXPENSES			
6402 MAINTENANCE			
6402.02 Imagery Lic Agree	186,808	194,633	(7,825)
6402.05 Logging RecordMaint	-	-	-
6402.07 0011 9-1-1MSAG Maint.	146,582	220,000	(73,418)
6402.08 CAD Maintenance	-	-	-
6402.13 Software Maintenance			
6402.131 Integraph DB S/W Maint	-	-	-
Total 6402.13 Software Maintenance	-	-	-
Total 6402 MAINTENANCE	333,390	414,633	(81,243)
6403 Other RECURRING			
6403.01 Telcom Charges			
6403.0101 Alt. PSAP 9-1-1 Del	-	232,132	(232,132)
6403.0102 Long Distance	312	480	(168)
6403.0103 Mileage	-	-	-
6403.0109 Telcom Trunk	83,536	111,398	(27,862)
6403.0110 Ocean Safety			
6403.0110.1 CML	-	-	-
6403.0110.2 Centrex	-	-	-
6403.0110.3 Mileage	-	-	-
6403.0110 Ocean Safety - Other	-	-	-
Total 6403.0110 Ocean Safety	-	-	-
6403.0112 HPD CML Viper-Kapolei	-	-	-
6403.0113 HPDCMLViper-Alapai	-	-	-
6403.0114 SD Viper (OSL) (3)	-	-	-
6403.0115 Text-to-911 Service	-	4,100	(4,100)
6403.0116 Alt PSAP Call Route	-	600	(600)
6403.0117 Telecom Chgs-Other	311	-	311
Total 6403.01 Telcom Charges	84,160	348,710	(264,550)
6403.02 EMS Tower Lease	-	-	-
6403.03 Prior Period Reimb.	-	-	-
Total 6403 Other RECURRING	84,160	348,710	(264,550)
Total 6400 RECURRING EXPENSES	417,550	763,343	(345,793)
Total DISBURSEMENTS	436,907	1,097,699	(660,792)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

FY-TO-DATE MAY 2015 (11 mos.)	Maui PSAP 11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	-	-	-
6201 911 Goes to WashDC	-	7,000	(7,000)
6204 APCO Conference	6,526	7,400	(874)
6212 NASNA Conference	-	-	-
6213 Navigator	-	-	-
6214 Nena Conference	(2)	10,500	(10,502)
6222 TriTech CAD Users	-	-	-
6227 FCC Hearings	-	-	-
6228 HxGN Live Hexagon Conf	-	6,600	(6,600)
6200 CONFERENCES - Other	-	-	-
Total 6200 CONFERENCES	6,525	31,500	(24,975)
6300 Non-RECURRING			
6301 CAD Replac/Upgrade			
6301.01 EMS	-	-	-
6301.02 Hawai'i Police Dept	-	-	-
6301.04 Honolulu Police	-	-	-
6301.05 Kauai Police Dept	-	-	-
Total 6301 CAD Replac/Upgrade	-	-	-
6302 CMLs for Altern Dispat	-	-	-
6303 Computers			
6303.20 Dispatch Software	-	-	-
6303.23 HPD SMART911 S/W	-	-	-
Total 6303 Computers	-	-	-
6306 Training			
6306.11 Training (CAD) HPD	-	-	-
6306.12 TriTechCADSystAdm			
6306.122 CAD TriTech EMS	-	-	-
Total 6306.12 TriTechCADSystAdm	-	-	-
6306.14 NG Text to 911 Refresh	-	-	-
Total 6306 Training	-	-	-
Total 6300 Non-RECURRING	-	-	-
6400 RECURRING EXPENSES			
6402 MAINTENANCE			
6402.02 Imagery Lic Agree	-	372,263	(372,263)
6402.05 Logging RecordMaint	-	-	-
6402.07 0011 9-1-1MSAG Maint.	187,947	225,500	(37,553)
6402.08 CAD Maintenance	170,000	170,000	-
6402.13 Software Maintenance			
6402.131 Integraph DB S/W Maint	-	-	-
Total 6402.13 Software Maintenance	-	-	-
Total 6402 MAINTENANCE	357,947	767,763	(409,816)
6403 Other RECURRING			
6403.01 Telcom Charges			
6403.0101 Alt. PSAP 9-1-1 Del	-	-	-
6403.0102 Long Distance	311	480	(169)
6403.0103 Mileage	-	-	-
6403.0109 Telcom Trunk	190,333	278,495	(88,162)
6403.0110 Ocean Safety			
6403.0110.1 CML	-	-	-
6403.0110.2 Centrex	-	-	-
6403.0110.3 Mileage	-	-	-
6403.0110 Ocean Safety - Other	-	-	-
Total 6403.0110 Ocean Safety	-	-	-
6403.0112 HPD CML Viper-Kapolei	-	-	-
6403.0113 HPDCMLViper-Alapai	-	-	-
6403.0114 SD Viper (OSL) (3)	-	-	-
6403.0115 Text-to-911 Service	-	4,000	(4,000)
6403.0116 Alt PSAP Call Route	-	-	-
6403.0117 Telecom Chgs-Other	-	-	-
Total 6403.01 Telcom Charges	190,644	282,975	(92,331)
6403.02 EMS Tower Lease	-	-	-
6403.03 Prior Period Reimb.	-	-	-
Total 6403 Other RECURRING	190,644	282,975	(92,331)
Total 6400 RECURRING EXPENSES	548,591	1,050,738	(502,147)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

	Molokai PSAP		
FY-TO-DATE MAY 2015 (11 mos.)	11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	-	-	-
6201 911 Goes to WashDC	-	-	-
6204 APCO Conference	-	-	-
6212 NASNA Conference	-	-	-
6213 Navigator	-	-	-
6214 Nena Conference	-	-	-
6222 TriTech CAD Users	-	-	-
6227 FCC Hearings	-	-	-
6228 HxGN Live Hexagon Conf	-	-	-
6200 CONFERENCES - Other	-	-	-
Total 6200 CONFERENCES	-	-	-
6300 Non-RECURRING			
6301 CAD Replac/Upgrade			
6301.01 EMS	-	-	-
6301.02 Hawai'i Police Dept	-	-	-
6301.04 Honolulu Police	-	-	-
6301.05 Kauai Police Dept	-	-	-
Total 6301 CAD Replac/Upgrade	-	-	-
6302 CMLs for Altern Dispat	-	-	-
6303 Computers			
6303.20 Dispatch Software	-	-	-
6303.23 HPD SMART911 S/W	-	-	-
Total 6303 Computers	-	-	-
6306 Training			
6306.11 Training (CAD) HPD	-	-	-
6306.12 TriTechCADSystAdm			
6306.122 CAD TriTech EMS	-	-	-
Total 6306.12 TriTechCADSystAdm	-	-	-
6306.14 NG Text to 911 Refresh	-	-	-
Total 6306 Training	-	-	-
Total 6300 Non-RECURRING	-	-	-
6400 RECURRING EXPENSES			
6402 MAINTENANCE			
6402.02 Imagery Lic Agree	-	-	-
6402.05 Logging RecordMaint	-	-	-
6402.07 0011 9-1-1MSAG Maint.	-	-	-
6402.08 CAD Maintenance	-	-	-
6402.13 Software Maintenance			
6402.131 Integraph DB S/W Maint	-	-	-
Total 6402.13 Software Maintenance	-	-	-
Total 6402 MAINTENANCE	-	-	-
6403 Other RECURRING			
6403.01 Telcom Charges			
6403.0101 Alt. PSAP 9-1-1 Del	-	-	-
6403.0102 Long Distance	-	-	-
6403.0103 Mileage	-	-	-
6403.0109 Telcom Trunk	41,774	-	41,774
6403.0110 Ocean Safety			
6403.0110.1 CML	-	-	-
6403.0110.2 Centrex	-	-	-
6403.0110.3 Mileage	-	-	-
6403.0110 Ocean Safety - Other	-	-	-
Total 6403.0110 Ocean Safety	-	-	-
6403.0112 HPD CML Viper-Kapolei	-	-	-
6403.0113 HPDCMLViper-Alapai	-	-	-
6403.0114 SD Viper (OSL) (3)	-	-	-
6403.0115 Text-to-911 Service	-	-	-
6403.0116 Alt PSAP Call Route	-	-	-
6403.0117 Telecom Chgs-Other	-	-	-
Total 6403.01 Telcom Charges	41,774	-	41,774
6403.02 EMS Tower Lease	-	-	-
6403.03 Prior Period Reimb.	-	-	-
Total 6403 Other RECURRING	41,774	-	41,774
Total 6400 RECURRING EXPENSES	41,774	-	41,774
Total DISBURSEMENTS	41,774	-	41,774

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

	Oahu PSAP		
FY-TO-DATE MAY 2015 (11 mos.)	11 mos.	ANNUAL Budget	$ Over/(UNDER) Budget
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	-	-	-
6201 911 Goes to WashDC	7,640	9,318	(1,678)
6204 APCO Conference	15,155	15,000	155
6212 NASNA Conference	-	-	-
6213 Navigator	(73)	-	(73)
6214 Nena Conference	6,248	15,399	(9,151)
6222 TriTech CAD Users	8,057	12,000	(3,943)
6227 FCC Hearings	-	-	-
6228 HxGN Live Hexagon Conf	-	-	-
6200 CONFERENCES - Other	-	-	-
Total 6200 CONFERENCES	37,027	51,717	(14,690)
6300 Non-RECURRING			
6301 CAD Replac/Upgrade			
6301.01 EMS	6,949	-	6,949
6301.02 Hawai'i Police Dept	-	-	-
6301.04 Honolulu Police	(833)	-	(833)
6301.05 Kauai Police Dept	-	-	-
Total 6301 CAD Replac/Upgrade	6,116	-	6,116
6302 CMLs for Altern Dispat	-	-	-
6303 Computers			
6303.20 Dispatch Software	-	-	-
6303.23 HPD SMART911 S/W	-	45,200	(45,200)
Total 6303 Computers	-	45,200	(45,200)
6306 Training			
6306.11 Training (CAD) HPD	-	16,000	(16,000)
6306.12 TriTechCADSystAdm			
6306.122 CAD TriTech EMS	-	5,000	(5,000)
Total 6306.12 TriTechCADSystAdm	-	5,000	(5,000)
6306.14 NG Text to 911 Refresh	-	16,000	(16,000)
Total 6306 Training	-	37,000	(37,000)
Total 6300 Non-RECURRING	6,116	82,200	(76,084)
6400 RECURRING EXPENSES			
6402 MAINTENANCE			
6402.02 Imagery Lic Agree	120,225	250,000	(129,775)
6402.05 Logging RecordMaint	-	60,775	(60,775)
6402.07 0011 9-1-1MSAG Maint.	466,145	559,374	(93,229)
6402.08 CAD Maintenance	162,801	800,000	(637,199)
6402.13 Software Maintenance			
6402.131 Integraph DB S/W Maint	-	-	-
Total 6402.13 Software Maintenance	-	-	-
Total 6402 MAINTENANCE	749,171	1,670,149	(920,978)
6403 Other RECURRING			
6403.01 Telcom Charges			
6403.0101 Alt. PSAP 9-1-1 Del	-	-	-
6403.0102 Long Distance	-	-	-
6403.0103 Mileage	946	11,353	(10,407)
6403.0109 Telcom Trunk	552,347	947,000	(394,653)
6403.0110 Ocean Safety			
6403.0110.1 CML	4,988	-	4,988
6403.0110.2 Centrex	1,184	-	1,184
6403.0110.3 Mileage	202	-	202
6403.0110 Ocean Safety - Other	(2,124)	-	(2,124)
Total 6403.0110 Ocean Safety	4,249	-	4,249
6403.0112 HPD CML Viper-Kapolei	75,319	140,916	(65,597)
6403.0113 HPDCMLViper-Alapai	10,169	-	10,169
6403.0114 SD Viper (OSL) (3)	25,671	43,500	(17,829)
6403.0115 Text-to-911 Service	-	12,000	(12,000)
6403.0116 Alt PSAP Call Route	-	-	-
6403.0117 Telecom Chgs-Other	-	-	-
Total 6403.01 Telcom Charges	668,701	1,154,769	(486,068)
6403.02 EMS Tower Lease	(3,770)	7,600	(11,370)
6403.03 Prior Period Reimb.	-	-	-
Total 6403 Other RECURRING	664,931	1,162,369	(497,438)
Total 6400 RECURRING EXPENSES	1,414,102	2,832,518	(1,418,416)
Total DISBURSEMENTS	1,457,245	2,966,435	(1,509,190)

HAWAII ENHANCED 911 BOARD STATEMENT OF CASH FLOWS
For month ending May 31, 2015

	ADMIN		
FY-TO-DATE MAY 2015 (11 mos.)	**11 mos.**	**ANNUAL Budget**	**$ Over/(UNDER) Budget**
DISBURSEMENTS:			
6200 CONFERENCES			
6141 Access9-1-1Forum	(207)	-	(207)
6201 911 Goes to WashDC	11,225	14,500	(3,275)
6204 APCO Conference	5,386	5,386	-
6212 NASNA Conference	-	650	(650)
6213 Navigator	-	-	-
6214 Nena Conference	1,764	8,725	(6,961)
6222 TriTech CAD Users	-	-	-
6227 FCC Hearings	3,679	5,023	(1,344)
6228 HxGN Live Hexagon Conf	-	-	-
6200 CONFERENCES - Other	-	599	(599)
Total 6200 CONFERENCES	21,846	34,883	(13,037)
6401 ADMINISTRATION			
6401.01 Exec Dir. Services	320,625	350,625	(30,000)
6401.02 ElectronSignatur	240	200	40
6401.05 Audit Expense	13,025	13,000	25
6401.06 Bank Charge	42	100	(58)
6401.08 Board Member Travel	18,164	35,000	(16,836)
6401.09 DB&F Assessments			
6401.0101 DB&F Admin. Assessmnt	44,307	175,000	(130,693)
6401.0102 DB&F Rev Assessment	269,791	452,500	(182,709)
Total 6401.09 DB&F Assessments	314,098	627,500	(313,402)
6401.12 NASNA Dues	-	215	(215)
6401.13 Parking Permits	400	200	200
6401.15 WSP Cost Recovery			
6401.0101 Sprint/Nextel	41,026	-	41,026
6401.15 WSP Cost Recovery - Other	-	70,000	(70,000)
Total 6401.15 WSP Cost Recovery	41,026	70,000	(28,974)
6401.17 ADA Compliance	-	500	(500)
6401.18 AG Legal Fees	-	100,000	(100,000)
6401.19 Public Education	-	50,000	(50,000)
6401.20 RCUH Contract	18,807	14,352	4,455
6402.21 Cell Phone Charges	375	-	375
6402.22 Office Supplies	63	-	63
Total 6401 ADMINISTRATION	726,865	1,261,692	(534,827)
6403.02 EMS Tower Lease	-	-	-
6403.03 Prior Period Reimb.	(302,238)	(302,238)	-
Total 6403 Other RECURRING	(302,238)	(302,238)	-
Total 6400 RECURRING EXPENSES	424,627	959,454	(534,827)
Total DISBURSEMENTS	446,473	994,337	(547,864)

Oahu Civilian E9-1-1

Status Report

May 1, 2015 – May 31, 2015

AKIMEKA | HIGH PRIORITY. HIGH IMPACT.

Oahu Civilian E9-1-1 Status Report

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME – MAY 2015

(Source: Intrado Viper)

(*) 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	
2015	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
May	82,466	19,339	23.45%	60,142	72.93%	52.21%	20.72%	2,936	3.56%	49	0.06%	1,895	2.30%	12,616	15.30%	597	0.72%

9-1-1 CALL VOLUME – CALENDAR YEAR 2015

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	
2015	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	82,328	19,792	24.04%	59,531	72.31%	49.23%	23.08%	2,939	3.57%	66	0.08%	2,171	2.64%	11,306	13.73%	618	0.75%
FEB	77,047	18,699	24.27%	55,782	72.40%	49.78%	22.62%	2,504	3.25%	62	0.08%	1,790	2.32%	10,656	13.83%	600	0.78%
MAR	82,861	19,837	23.94%	60,232	72.69%	50.43%	22.26%	2,751	3.32%	41	0.05%	2,286	2.76%	11,822	14.27%	674	0.81%
APR	79,337	18,532	23.36%	58,075	73.20%	49.98%	23.22%	2,674	3.37%	56	0.07%	1,135	1.43%	11,885	14.98%	625	0.79%
MAY	82,466	19,339	23.45%	60,142	72.93%	52.21%	20.72%	2,936	3.56%	49	0.06%	1,895	2.30%	12,616	15.30%	597	0.72%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	404,039	96,199		293,762				13,804		274		9,277		58,285		3,114	
MON AVG	80,808	19,240	23.81%	58,752	72.71%	50.33%	22.38%	2,761	3.41%	55	0.07%	1,855	2.29%	11,657	14.42%	623	0.77%

NOTE:

- ***Calls with no Ali 0.06% - Statewide average = 1.24%***
- ***Wireline totals for February and March have been adjusted per HPD audit.***

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9-1-1 CALL VOLUME BY AGENCY – MAY 2015

2015	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
May	70,935	86.02%	19,049	38,315	955	12,616	2,788	3.38%	65	0

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
8,077	9.79%	808	118	69	0.08%	67	14

9-1-1 CALL VOLUME BY AGENCY – CALENDAR YEAR 2015

2015	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	70,213	85.28%	19,601	38,128	1,178	11,306	2,597	3.15%	122	0	8,814	10.71%	787	110	86	0.10%	84	4
FEB	65,139	84.54%	18,691	34,812	980	10,656	2,552	3.31%	83	0	8,679	11.26%	652	89	77	0.10%	75	3
MAR	70,656	85.27%	19,470	38,194	1,170	11,822	2,954	3.57%	108	0	8,517	10.28%	949	86	60	0.07%	59	16
APR	69,768	87.94%	20,453	36,574	856	11,885	2,223	2.80%	89	0	6,686	8.43%	156	154	35	0.04%	34	6
MAY	70,935	86.02%	19049	38,315	955	12,616	2,788	3.38%	65	0	8,077	9.79%	808	118	69	0.08%	67	14
JUNE																		
JULY																		
AUG																		
SEPT																		
OCT																		
NOV																		
DEC																		
YTD	346,711		97,264	186,023	5,139	58,285	13,114		467	0	40,773		3,352	557	327		319	43
MON AVG	69,342	85.81%	19,453	37,205	1,028	11,657	2,623	3.24%	93	0	8,155	10.09%	670	111	65	0.08%	64	9

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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 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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FYI.....FOR YOUR INFORMATION

FYI ..... For Your Information			
The FCC (Federal Communications Commission) Standards for Wireless 911 Indoor & Outdoor Location Accuracy:			
"Regarding horizontal location CMRS providers shall provide (1) dispatchable location or (2) x/y location within 50 meters of the wireless 911 call." source : FCC 15-9			
FCC timeframe:			
Within 2 years	40 % of all wireless 911 calls		
Within 3 years	50 % of all wireless 911 calls		
Within 5 years	70 % of all wireless 911 calls		
Within 6 years	80 % of all wireless 911 calls		
"Regarding vertical location, CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology.			
FCC timeframe:			
Within 3 years	All CMRS providers must make uncompensated barometric data available to PSAPs from any handset		
	that has the capability to deliver barometric sensor data.		
Within 3 years	Nationwide CMRS providers must use an independently administered and transparent test bed process		
	to develop a proposed z-axis accuracy metric, and must submit the proposed metric to the Commision		
	for approval.		
Within 6 years	Nationwide CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology		
	that achieves the Commision-approved z-axis metric, in each of the top 25 CMAs.		
Within 8 years	Nationwide CMRS providers must deploy dispatchable location or z-axis technology in accordance		
	with the above benchmarks in each of the top 50 CMAs.		
Definitions:			
Barometric Data	Elevation data calculated from atmospheric conditions		
CMAs	Cellular Market Areas		
CMRS	Commericial Mobile Radio Service (vendors ie. AT&T, Verizon, Sprint, T-Mobile, etc…)		
Dispatchable Location	A location delivered to the PSAP by the CMRS provider with a 911 call that consists of street address		
	of the calling party, plus additional information such as suite, apartment or similar information		
	necessary to adequately identify the location of the calling party. Civic addresses will be corroborated		
	against other location information prior to delivery of the address with the 9-1-1 call to the PSAP.		
MAC Address	(Media Access Control) A location identifier of a Wi-Fi access point.		
z-axis	Altitude (height or elevation) of the 911 callers device. (x/y/z)		

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WIRELESS PSAP TESTING – MAY 2015

OAHU CIVILIAN - MAY 2015						
Date	**WSP**	**Sites Tested**	**Sectors Tested**	**Tested By:**	**Test Pass/Fail**	**Comments:**
None						

NOTES:

- **There were no scheduled 911 Test call for the Oahu Civilian PSAP in May 2015.**
- **Intrado performed 1 VoIP connectivity test in May 2015**
- **AT&T performed 58 VoLTE test calls statewide in May 2015**

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2. MSAG (MASTER STREET ADDRESS GUIDE)

CURRENT MONTH – MAY 2015

OAHU CIVILIAN	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
MAY	869	850	1	2	2	14	16,168

MSAG CURRENT MONTH NOTES:

A total of **893** MSAG transactions were processed in 9-1-1 Net during the month of May 2015. **869** requests were processed relating to the MSAG database, and **24** requests relating to the ALI database (see ALI Transaction chart on next page). There were **16,168** customer ANI/ALI (telephone/address) records updated as a direct result.

MSAG YEAR-TO-DATE (YTD) SUMMARY – 2015

OAHU CIVILIAN	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
JAN	40	25	2	13	0	0	405
FEB	7	4	0	2	1	0	202
MAR	715	694	1	7	1	12	20,371
APR	1,014	988	7	3	5	11	25,238
MAY	869	850	1	2	2	14	16,168
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	2,645	2,561	11	27	9	37	62,384
AVG PER MONTH	529	512	2	5	2	7	12,477

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ALI TRANSACTIONS CURRENT MONTH – MAY 2015

OAHU CIVILIAN		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR (A)	ALI-DR (B)	VoIP DR (C)	TN CR	ALI-DR	VoIP DR
MAY	24	23	1	0	275	0	0

Definitions
(A) **T**elephone **N**umber **C**hange **R**equest - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 199 attached to them which indicates the need for validation.
(B) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
(C) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord - 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.

ALI TRANSACTIONS CURRENT MONTH NOTES:

24 Telephone Number Change Requests (TN CR) and one ALI-DR was processed in 9-1-1Net for updates and corrections to the ALI database. Streets and address ranges were validated against the GIS to ensure synchronization and an MSAG address was provided to the Telco. TN CRs must be validated against HT records and approved by the end user Hawaiian Telcom customer before updating the ALI record.

OPEN DISCREPANCY RECORDS STATUS:

- **There are 275 Open Telephone Number Change Requests as of May 31, 2015.**
- **Refer to chart in the next section "TNCR Current Status"**

The TNCRs are a direct result of the ESN 199 clean-up and are awaiting approval from Hawaiian Telcom, Inc. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to Intrado for correction, it must be verified against HT records and/or approved by the customer. Intrado's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

There are zero (0) Open ALI-DRs as of May 31, 2015.

There are zero (0) Open VoIP DRs as of May 31, 2015.

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ALI TRANSACTIONS YEAR-TO-DATE (YTD) SUMMARY – 2015

OAHU CIVILIAN		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR	ALI-DR	VoIP DR	TN CR	ALI-DR	VoIP DR
JAN	155	153	2	0	328	0	0
FEB	139	139	0	0	245	0	0
MAR	517	516	1	0	242	0	0
APR	670	669	1	0	285	0	0
MAY	24	23	1	0	275	0	0
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	1,505	1,500	5	0			
AVG PER MONTH	301	300	1	0			

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – MAY, 2015

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 Intrado 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)				
PSAP	**TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA**	**OPENED TNCRS PENDING FURTHER ACTION BY INTRADO**	**OPENED TNCRS REFERRED TO TELCO BY INTRADO**	**TOTAL UNOPENED TNCR RECORDS**
OAHU CIVILIAN	**275**	**12**	**165**	**98**

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

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MSAG COMMUNITIES PROJECT

MSAG COMMUNITY AND STREET SEGMENT SWEEP – PHASE VII

MSAG Community and Street Segment Sweep – Phase VII

Subsequent to the completion of the MSAG Community and Street Segment Sweep - Phase V work on **June 27, 2014,** and the Database Synchronization Phase VI in **July 2014**, a project plan for Phase VII, with regards to the spatial accuracy of Street Centerlines, was approved by the Honolulu Police Department on **July 31, 2014.** The MSAG Community and Street Segment Sweep – Phase VII project is aimed to identify and correct the spatial accuracy of Street Centerlines throughout the island of Oahu, through a methodical counter-clockwise approach, following the same community correction path in the previous phases, to ultimately increase the accuracy of the data and to be in compliance with NENA standards. Street Centerlines that are corrected through this process will then achieve the NENA recommended standard of being accurate to within 10 feet or less.

Below is the latest Phase VII work effort as of **May 31, 2015**:

MSAG COMMUNITY (In Order of Effort)	MSAG COMMUNITY AND STREET SEGMENT SWEEP -- PHASE VII				GIS UPDATES	
	TARGET START DATE	TARGET COMPLETION DATE	AKIMEKA COMPLETION DATE	NOTES/COMMENTS	DATE GIS DELIVERED TO HPD	DATE GIS LOADED TO CAD BY HPD
Waimanalo	08/01/14	08/12/14	**08/09/14**		08/11/14	08/22/14
Kailua	08/13/14	09/16/14	**09/11/14**		09/19/14	09/26/14
Kaneohe	09/17/14	10/24/14	**10/27/14**	Completed 1 business day behind schedule due to approved special requests	10/31/14	11/07/14
Kahaluu	10/27/14	11/04/14	**10/29/14**			
Kaaawa	11/05/14	11/07/14	**10/31/14**			
Punaluu	11/10/14	11/11/14	**11/05/14**		11/14/14	11/21/14
Hauula	11/12/14	11/17/14	**11/06/14**			
Laie	11/18/14	11/24/14	**11/14/14**			
Kahuku	11/25/14	12/02/14	**11/25/14**		11/28/14	12/08/14
Sunset	12/03/14	12/10/14	**12/08/14**		12/12/14	12/18/14
Haleiwa	12/12/14	12/24/14	**01/14/15**	There are many farming and cane roads that require lengthy and detailed editing, slowing down progress	01/23/15	02/05/15
Wahiawa	01/02/15	01/21/15	**02/03/15**		02/06/15	02/13/15
Waialua	01/22/15	01/29/15	**02/09/15**		02/19/15	02/25/15
Mokuleia	01/30/15	02/05/15	**02/12/15**			
Kalanianaole Hwy Project	02/09/15	03/04/15	**02/19/15**			
Makaha	03/05/15	03/12/15	**02/17/15**			

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MSAG Community and Street Segment Sweep – Phase VII continued

MSAG COMMUNITY (In Order of Effort)	MSAG COMMUNITY AND STREET SEGMENT SWEEP -- PHASE VII				GIS UPDATES	
	TARGET START DATE	TARGET COMPLETION DATE	AKIMEKA COMPLETION DATE	NOTES/COMMENTS	DATE GIS DELIVERED TO HPD	DATE GIS LOADED TO CAD BY HPD
Waianae	03/13/15	03/24/15	**03/09/15**		03/20/15	04/02/15
Maili	03/25/15	04/02/15	**03/17/15**			
Nanakuli	04/03/15	04/13/15	**03/27/15**		04/06/15	04/17/15
Makakilo	04/14/15	04/28/15	**04/15/15**		04/17/15	04/29/15
Kapolei	04/29/15	05/21/15	**05/19/15**	In Progress	5/1/2015, 5/15/2015	
Kalaeloa	05/22/15	06/08/15				
Ewa Beach	06/09/15	07/27/15				
Iroquois	07/28/15	08/03/15				

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MAY 2015

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			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points		**05/29/15**	
	5/29/2015		Spatially corrected sixty-three (63) address points in Waianae
	5/28/2015		Populated ESN field for address points in ESNs 139, 140, 142-145, and 147
	5/27/2015		Deleted one (1) address point in Waianae
	5/27/2015		Spatially corrected fifty-seven (57) address points in Waianae
	5/26/2015		Spatially corrected one hundred fifty-four (154) address points in Waianae
	5/26/2015		Added one (1) new address point in Kalaeloa
	5/26/2015		Spatially corrected four (4) address points in Kalaeloa
	5/22/2015		Spatially corrected one hundred foty-five (145) address points in Waianae
	5/21/2015		Spatially corrected two hundred fifty-eight (258) address points in Waianae
	5/20/2015		Spatially corrected one hundred seventy-eight (178) address points in Waianae
	5/19/2015		Deleted one (1) address point in Waianae
	5/19/2015		Spatially corrected two hundred fifty-nine (259) address points in Waianae
	5/19/2015		Added one (1) new address point in Waianae
	5/18/2015		Spatially corrected forty-eight (48) address points in Kapolei
	5/18/2015		Added one (1) new address point in Kapolei
	5/18/2015		Corrected one (1) address in Kapolei
	5/18/2015		Added routing ID to forty-eight (48) address points in Kapolei
		05/15/15	
	5/15/2015		Populated ESN field for address points in ESNs 148-149 and 157-159
	5/15/2015		Spatially corrected four (4) address points in Makaha
	5/14/2015		Added nineteen (19) new address points in Wahiawa
	5/14/2015		Added routing ID to twenty-four (24) address points in Kapolei
	5/14/2015		Spatially corrected twenty-four (24) address points in Kapolei
	5/13/2015		Spatially correcetd one hundred fifteen (115) address points in Waianae
	5/12/2015		Added four (4) new address points in Kapolei
	5/12/2015		Spatially corrected eighteen (18) address points in Kapolei
	5/11/2015		Spatially corrected seventy-three (73) address points in Waianae
	5/8/2015		Spatially corrected ninety-four (94) address points in Waianae
	5/6/2015		Deleted nine (9) address points in Maili
	5/6/2015		Added seventy-four (74) new address points in Maili
		05/01/15	
Airports			

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MAPPING LAYERS UPDATED (PART II)

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

OAHU CIVILIAN			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Bridges			
Building Footprints			
Bus Stops			
Churches			
Coastal Names			
Coastline			
Common Places		**05/29/15**	
	5/28/2015		Populated ESN field for common places in ESNs 139, 140, 142-145, and 147
	5/27/2015		Spatially corrected one (1) common place in Waianae
	5/26/2015		Spatially corrected one (1) common place in Kalaeloa
	5/21/2015		Spatially corrected one (1) common place in Waianae
		05/15/15	
	5/15/2015		Populated ESN field for common places in ESNs 148-149 and 157-159
	5/15/2015		Spatially corrected five (5) common places in Makaha
	5/12/2015		Spatially corrected thirteen (13) common places in Kapolei
	5/11/2015		Spatially corrected eleven (11) common places in Waianae
		05/01/15	
Correctional Facilities			
Emergency Callboxes			

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MAPPING LAYERS UPDATED (PART III)

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

OAHU CIVILIAN			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN		**05/29/15**	
	5/28/2015		Corrected ESN 139/140
	5/28/2015		Corrected ESN 140/144
	5/28/2015		Corrected ESN 145/146
	5/28/2015		Corrected ESN 138/139/141
	5/26/2015		Corrected 152/154 boundary
		05/15/15	
Fire Beats			
Fire Districts			
Fire Response Areas		**05/29/15**	
	5/28/2015		Corrected STA40/STA43
	5/28/2015		Corrected STA40/STA35
	5/28/2015		Corrected STA12/STA43/STA12
		05/15/15	
Fire Stations			
Food & Beverage			
Gas Stations			
Gate Codes			

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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			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Government Buildings			
Harbors			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hyrdology Layers: Dams Ponds Streams Waterfalls			
Incident Response Areas			
Lodging			
Major Roads			
Medic Beats			

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MAPPING LAYERS UPDATED (PART V)

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

OAHU CIVILIAN			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Medic Districts			
Medic Response Areas		**05/29/15**	
	5/28/2015		Corrected MED16/MED27
	5/28/2015		Corrected MED10/MED27
		05/15/15	
Medic Stations			
Medical Facilities			
Milepost Markers			
MSAG Communities			
Net Junctions			
Ocean Rescue Boundaries		**05/29/15**	
	5/26/2015		Corrected boundary for Mobile Responder 402 and 403
		05/15/15	
Ocean Safety			
Parcels			
Parks			
Parks Polygon			

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MAPPING LAYERS UPDATED (PART VI)

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

OAHU CIVILIAN			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Points of Interest			
Police Beats		**05/15/15**	
	5/12/2015		Continued on Beat 381 and 382 according to the HPD written policies and procedures
	5/8/2015		Continued on Beat 381 and 382 according to the HPD written policies and procedures
		05/01/15	
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools			
Street Centerlines		**05/29/15**	
	5/29/2015		Spatially corrected one hundred forty-one (141) street segments in Ewa Beach
	5/28/2015		Populated ESN fields for street segments in ESNs 139, 140, 142-145, and 147
	5/28/2015		Split two (2) street segments at ESN boundaries in Kapolei
	5/28/2015		Split one (1) street segment at ESN boundary in Ewa Beach
	5/28/2015		Split one (1) street segment at ESN boundary in Makakilo
	5/27/2015		Deleted two (2) street segments in Ewa Beach
	5/27/2015		Spatially corrected one hundred sixty-seven (167) street segments in Ewa Beach
	5/26/2015		Deleted three (3) street segments in Kalaeloa
	5/26/2015		Added one (1) new street segment (Tarawa St) in Kalaeloa

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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			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Street Centerlines	5/26/2015		Corrected range for seventeen (17) street segments in Kalaeloa
	5/26/2015		Corrected street name for eight (8) street segments in Kalaeloa
	5/26/2015		Spatially corrected twenty-eight (28) street segments in Kalaeloa
	5/22/2015		Spatially corrected sixteen (16) street segments in Kalaeloa
	5/21/2015		Split one (1) segment of Paakea Rd at ESN bdry in Maili
	5/20/2015		Spatially corrected seventy-four (74) street segments in Kalaeloa
	5/19/2015		Deleted one (1) street segment in Kalaeloa
	5/19/2015		Spatially corrected eighty-eight (88) street segments in Kalaeloa
	5/18/2015		Split twenty (20) street segments in Kapolei
	5/18/2015		Added thirty-five (35) new street segments in Kapolei
		05/15/15	
	5/15/2015		Populated ESN fields for street segments in ESNs 148-149 and 157-159
	5/15/2015		Added eighty-two (82) ingresses in Kapolei
	5/14/2015		Corrected street range for six (6) street segments in Wahiawa
	5/14/2015		Corrected street name for one (1) street segment in Wahiawa
	5/14/2015		Deleted one (1) street segment in Wahiawa
	5/14/2015		Flipped two (2) street segments in Wahiawa
	5/14/2015		Split one (1) segment of Aliinui Dr in Kapolei
	5/14/2015		Added fifty-six (56) ingresses in Kapolei
	5/13/2015		Deleted four (4) street segments in Kapolei
	5/13/2015		Added forty-one (41) new street segments in Kapolei
	5/13/2015		Split twenty-five (25) street segments in Kapolei
	5/12/2015		Added forty (40) new street segments in Kaploei
	5/12/2015		Split twenty-one (21) street segments in Kapolei
	5/11/2015		Deleted two (2) street segments in Kapolei
	5/11/2015		Added two (2) new street segments in Kapolei
	5/11/2015		Corrected range for one (1) street segment in Waipahu
	5/11/2015		Spatially corrected seventy-one (71) street segments in Kapolei
	5/8/2015		Deleted five (5) street segments in Kapolei
	5/8/2015		Added two (2) new street segments in Kapolei
	5/8/2015		Flipped one (1) segment of H1W Fwy in Kapolei
	5/8/2015		Corrected one-way code for two (2) street segments in Kapolei
	5/8/2015		Spatially corrected twenty-eight (28) street segments in Kapolei
	5/8/2015		Corrected range for one (1) segment of Farrington Hwy in Kapolei
	5/8/2015		Split four (4) street segments in Kapolei
	5/7/2015		Spatially corrected one hundred six (106) street segments in Kapolei

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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			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Street Centerlines	5/6/2015		Deleted one (1) segment of Keaniani St in Kailua
	5/6/2015		Spatially corrected one (1) segment of Keaniani St in Kailua
	5/6/2015		Split eleven (11) segments of Trail Makapuu Koolau Summit at the Hawaii Kai/Waimanalo boundary
	5/6/2015		Spatially corrected fifty-three (53) street segments in Kapolei
	5/6/2015		Corrected range for one (1) street segment in Waialae
	5/6/2015		Corrected range for one (1) street segment in Waianae
	5/6/2015		Corrected range for two (2) street segments in Kailua
	5/5/2015		Corrected range for one (1) street segment in Maili
	5/5/2015		Flipped one (1) street segment in Maili
	5/5/2015		Corrected street name for one (1) street segment in Maili
	5/5/2015		Corrected range for three (3) street segments in Kaimuki
	5/5/2015		Corrected range for one (1) street segment in Waianae
	5/5/2015		Spatially corrected one hundred (100) street segments in Kapolei
	5/4/2015		Deleted one (1) segment of Kumuiki St in Kapolei
	5/4/2015		Flipped one (1) street segment in Kaneohe
	5/4/2015		Corrected range for two (2) street segments in Kaneohe
	5/4/2015		Corrected range for two (2) street segments in Kapolei
	5/4/2015		Corrected range for one (1) street segment in Kalihi
	5/4/2015		Corrected range for one (1) street segment in Waianae
	5/4/2015		Corrected range for three (3) street segments in Maili
	5/4/2015		Corrected range for five (5) street segments in Wahiawa
		05/01/15	
	5/1/2015		Deleted two (2) street segments in Kapolei
	5/1/2015		Split five (5) street segments in Kapolei
	5/1/2015		Spatially corrected twenty-three (23) street segments in Kapolei
	5/1/2015		Added two (2) new street segments in Makakilo
Subdivisions			
Tow Jurisdictions			
Tsunami Evacuation Zones			

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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			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		**05/29/15**	
	5/28/2015		Per ATT CRS
		05/26/15	
	5/26/2015		Per ATT CRS
	5/26/2015		Per VZW CRS
		05/15/15	
	5/15/2015		Per ATT CRS
	5/14/2015		Per VZW CRS
	5/13/2015		Per ATT CRS
	5/12/2015		Per VZW CRS
		05/11/15	
	5/6/2015		Per VZW CRS
	5/5/2015		Per VZW CRS
		05/04/15	
	5/4/2015		Per VZW CRS
WSP Cell Towers		**05/29/15**	
	5/28/2015		Per ATT CRS
		5/26/2015	
	5/26/2015		Per ATT CRS
	5/26/2015		Per VZW CRS
		5/15/2015	
	5/15/2015		Per ATT CRS
	5/14/2015		Per VZW CRS
	5/13/2015		Per ATT CRS
	5/12/2015		Per VZW CRS
		5/11/2015	
	5/6/2015		Per VZW CRS
	5/5/2015		Per VZW CRS
		5/4/2015	
	5/4/2015		Per VZW CRS

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GEOGRAPHIC INFORMATION SYSTEM (GIS) NARRATIVE

GIS KEY ACTIVITIES/UPDATES

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

Date	Key Activities/Updates
5/29/2015	Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD
5/29/2015	Cell Towers, Cell Sectors, ESN, MSAG Communities, Tow Boundaries, Police Response Areas, Fire Response Areas, Medic Response Areas, Streams, Street Centerlines, Address Points, Common Places to Intrado for PowerMap at HPD, HFD, EMS, and Ocean Safety
5/29/2015	Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas Stops to HFD, EMS, and Ocean Safety for TriTech CAD
5/26/2015	Cell Towers and Cell Sectors for GeoComm at HPD, HFD and EMS
5/15/2015	Cell Towers and Cell Sectors for GeoComm at HPD, HFD and EMS
5/15/2015	Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD
5/15/2015	Cell Towers, Cell Sectors, ESN, MSAG Communities, Tow Boundaries, Police Response Areas, Fire Response Areas, Medic Response Areas, Streams, Street Centerlines, Address Points, Common Places to Intrado for PowerMap at HPD, HFD, EMS, and Ocean Safety
5/15/2015	Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas Stops to HFD, EMS, and Ocean Safety for TriTech CAD
5/11/2015	Cell Towers and Cell Sectors for GeoComm at HPD, HFD and EMS
5/4/2015	Cell Towers and Cell Sectors for GeoComm at HPD, HFD and EMS
5/1/2015	Street Centerlines, Common Places, Police Beats, MSAG Communities to HPD for Motorola CAD
5/1/2015	Cell Towers, Cell Sectors, ESN, MSAG Communities, Tow Boundaries, Police Response Areas, Fire Response Areas, Medic Response Areas, Streams, Street Centerlines, Address Points, Common Places to Intrado for PowerMap at HPD, HFD, EMS, and Ocean Safety
5/1/2015	Street Centerlines, Address Points, Fire Response Areas, Medic Response Areas, Ocean Safety Response Areas Stops to HFD, EMS, and Ocean Safety for TriTech CAD

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INTRADO POWERMAP UPLOAD

Since the establishment of the GIS Data deliverable process between Akimeka and Intrado in January 2014, the data uploads have been successfully carried out.

There were no updates during the month of May 2015.

POLICE BEATS CORRECTIONS

Background

The Police Beats was previously identified as a layer requiring corrective action in preparation for the ESZ/ESN project and ensuring spatial accuracy.

Subsequent to the Police Beat corrections that took place during the month of August 2013, upon loading the GIS data for Street Centerlines in the current Motorola Premier CAD, HPD PMT confirmed that there were no issues with regards to the CAD system recommendations. HPD PMT also reviewed the Police Beats corrections worksheet and confirmed that there were no issues with the document. As such, Akimeka proceeded to make corrections to the Police Beats layer utilizing HPD's written Policies and Procedures document for boundary descriptions.

Status to Date

Based on HPD PMT's confirmation, Akimeka continued to make corrections to the Police Beats during the month of May 2015. Akimeka continued working on two (2) Police Beat (381, and 382) and performed routine maintenance on four (4) other Police Beat boundaries.

Upload Process

It was agreed that the Police Beats layer will not be uploaded to the current Motorola CAD system and will only be uploaded to the new Motorola PremierOne CAD system. Although the Police Beats layer (with the corrections) will not be uploaded to the current CAD system, the Street Centerlines are impacted by these boundary updates.

As such, Akimeka assisted with creating a new upload process which mirrors a step similar to the updates with the MSAG Communities. The new process was run successfully in November 2013, and has been successful since that time. In addition, the new upload process for the Premier CAD, also resolved other discrepancies with recommendations which were previously identified. It was agreed that this new process will be implemented and used going forward. Subsequent to this process improvement, there have been no issues and the Police Beat corrections project continues to move forward.

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ESN PROJECT

Since Akimeka had completed the preliminary ESN layer, during a meeting with HPD in December 2014 agreement was made to proceed with beginning the work efforts with Hawaiian Telcom.

1. The new ESN layer was created based on all of the operational response areas for each agency
2. Review and discussion was held during the meeting and Akimeka was given approval to proceed with preparing documentation to provide HPD with in order for Hawaiian Telcom to program the new ESN numbers and ELTs.
3. Akimeka prepared the final documentation during the month of January 2015 and provided the ELTs, Letter, and supporting attachments to HPD.
4. On February 13, 2014, the letter requesting change to Honolulu ESN numbers and corresponding ELTs were submitted to Hawaiian Telecom.
5. On March 12, 2015, confirmation was received that Honolulu can move forward with new ESNs and under the special project, cannot exceed 50 MSAG transactions per day.
6. On March 16, 2015, Akimeka began processing the MSAG transactions beginning with the approved ESN 184 in Waimanalo
    a. In order to validate the correct information was being displayed at HPD, a group of test phone numbers was gathered to be used to verify the information.
    b. Also on March 16, 2015, processing in MSAG was halted because Akimeka's access to new ESNs was restricted by Intrado. Akimeka followed up and the restriction was removed by end of the day.
7. On March 17, 2015, HPD tested the telephone numbers in ESN 184 and had experienced some issues with the call routing past the call screeners, directly to the dispatcher.
    a. HPD opened a trouble ticket with Intrado and Hawaiian Telcom on the issue
    b. Intrado/Hawaiian Telcom corrected the issue shortly after and notified HPD
8. On March 19, 2015, Akimeka received confirmation that the test phone numbers in ESN 184 were successful at HPD and routed to the call screener
    a. Following the successful, Akimeka was given the ability to backfill the 250 transactions that were lost in order to get caught up with the timeline.
9. Throughout the remainder of March there were no reported issues and the ESN schedule has remained on track.
10. Throughout April, 2015, Akimeka continued processing ESN transactions in the MSAG database and GIS database, coordinating changes between both in an effort to keep synchronized.
11. As of May 21, 2015, Akimeka was given an increase of seventy five (75) daily transactions for the Oahu ESN project by Intrado/Hawaiian Telcom. All other transaction limitations remains the same.

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MSAG COMMUNITY	MSAG COMMUNITY ESN PROJECT														
	TARGET START DATE	ESN #	Status	ESN #	Status	ESN #	Status	ESN #	Status	ESN #	Status	ESN	Status	NOTES COMMENTS	TOTAL MSAG RECORDS
Waimanalo	03/16/15	184	100%	183	100%									Complete	112
Kailua	03/19/15	182	100%	181	100%	180	100%	177	100%	176	100%			Complete	386
Kaneohe	03/31/15	182	100%	180	100%	179	100%	177	100%	176	100%	175	100%	Complete	514
Kahaluu	04/15/15	175	100%	174	100%									Complete	35
Kaaawa	04/16/15	173	100%											Complete	24
Punaluu	04/16/15	172	100%											Complete	9
Hauula	04/17/15	172	100%											Complete	31
Laie	04/20/15	172	100%	171	100%									Complete	21
Kahuku	04/21/15	171	100%											Complete	42
Kahuku Range	04/22/15	165												Military	
Sunset	04/23/15	170	100%	159	100%									Complete	59
Haleiwa	04/27/15	159	100%	158	100%									Complete	58
Wahiawa	04/29/15	157	100%											Complete	199
Waialua	05/06/15	158	100%											Complete	58
Mokuleia	05/08/15	158	100%											Complete	49
Makaha	05/11/15	149	100%											Complete	49
Waianae	05/12/15	149	100%											Complete	135
Maili	05/15/15	149	100%	148	100%									Complete	98
Nanakuli	05/19/15	149	100%	148	100%	147	100%	146	100%					Complete	102
Makakilo	05/25/15	143	100%	142	100%									Complete	143
Kapolei	05/28/15	144	100%	140	66%	139	66%							In Progress	228
Kalaeloa	06/04/15														
Ewa Beach	06/08/15														
Iroquois	06/23/15														
Waipahu	06/24/15														
Kunia	07/03/15														
Waipio	07/06/15														
Mililani	07/09/15														
Pearl City	07/28/15														
Aiea	08/04/15														
PC Pen	08/14/15														
McGrew PT	08/14/15														
Halawa	08/17/15														
Aliamanu	08/17/15														
Moanalua T	08/18/15														
Hale Moku	08/18/15														
Maloelap	08/19/15														
Hokulani	08/19/15														
Moanalua	08/19/15														

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MSAG COMMUNITY	MSAG COMMUNITY ESN PROJECT continued														
	TARGET START DATE	ESN #	Status	ESN #	Status	ESN #	Status	ESN #	Status	ESN #	Status	ESN	Status	NOTES COMMENTS	TOTAL MSAG RECORDS
Airport	08/20/15														
Catlin Pk	08/21/15														
Miller Pk	08/21/15														
Halsey T	08/24/15														
Radford T	08/24/15														
Salt Lake	08/25/15														
Mapunapuna	08/26/15														
Moanaloa V	08/27/15														
Kalihi	08/31/15														
Nuuanu	09/14/15														
Punchbowl	09/18/15														
Downtown	09/23/15														
Kakaako	09/25/15														
Ala Moana	09/28/15														
Honolulu	09/29/15														
Makiki	10/02/15														
Manoa	10/06/15														
McCully	10/13/15														
Kahala	10/15/15														
Kapahulu	10/20/15														
Kaimuki	10/22/15														
Waialae	10/30/15														
Aina Haina	11/04/15														
Waikiki	11/09/15														
Hawaii Kai	11/11/15														

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MAPFLEX DEPLOYMENT

During the month of May 2015, Intrado moved forward with set schedule for MapFlex implementation for the Oahu PSAPs. The implementation primarily consisted of installations, server configuration etc. and did not include any requests for GIS data or upload procedures.

Considering that the MapFlex initiative being provided by Hawaiian Telecom and sub-contractor, Intrado, is being implemented across the State of Hawaii, in the below narrative there is some information that was identified through the processes which the Neighbor Islands had been through and pertains to the processes which will be associated for the Oahu PSAPs. The historical information will provide detail as to how and when the establishment of the implementation processes took place and remaining unanswered questions yet to be discussed.

During the month of May 2015, there was significant progress with regards to finalizing the deployment of the MapFlex system for Hawaii County, Maui County, and Kauai County. For a chronology prior to May, please see the April 2015 Monthly Status Report.

1. On May 6, 2015, Akimeka followed up with Intrado on the deliverables provided for MapFlex systems on April 16th, 2015 to get a status if the layers had been updated in the mapping system.
    a. Later on May 6, 2015, it was confirmed the data had been uploaded.
    b. It was also confirmed that deliverables previously provided that had been on the MapFlex server were not uploaded.
        i. Since there had been updates for Kauai's Police Beats that were overridden, Akimeka expedited a deliverable containing the updates same day and sent out the notification.
2. On May 11, 2015, Intrado notified Akimeka that they had made great progress on the scripts that will enable the automated GIS data updates.
    a. Akimeka followed up with Intrado to inform them they will be sending out the normal bi-monthly deliverables that correspond with all of the other CAD and Mapping systems, starting with Hawaii County on May 12th, Maui on May 13th, and Kauai on May 14th.
3. On May 13th, 2015, Akimeka and Intrado had a brief conference call to do a final confirmation of the process and what items are left outstanding to complete.
    a. All GIS processes and procedures with delivering data by Akimeka had been completed in February 2015.
    b. The script for automation was completed
        i. For delivering data to the MapFlex servers
    c. The script for sending automatic notifications of completion is in progress
4. Akimeka delivered GIS data to the MapFlex system on the following dates in May 2015
    a. **Hawaii County** – May 12th and May 26th
    b. **Maui County** – May 13th and May 27th
    c. **Kauai County** – May 14th and May 28th

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MEETING REGARDING HOSES MAP SYSTEM

On May 27, 2015, HPD, HFD, Akimeka and TransMeridian met to discuss the HOSES mapping system and how it can potentially support the public safety agencies.

HOSES is currently operational at the Honolulu Fire Department, however one primary purpose for the meeting was to discuss how to use accurate data from Akimeka to be used for searching versus the currently configured City and County of Honolulu DPP GIS data which includes Street Centerlines and Address Points.

1. During the meeting there were some key facts that were understood
    a. HOSES is currently used and is intended to be used as a situation awareness resource and is not designed for accuracy or 9-1-1 purposes.
        i. The reason this is not designed for accuracy and is mostly intended for a visual tool, is that the HOSES system utilizes multiple sources of information in various formats by DPP and Board of Water Supply and are not intended to be used as a spatially accurate data layer, and is not driven by 9-1-1 operations.
    b. The HOSES system has been designed around the DPP GIS data.
        i. TransMeridian was very hesitant to change any of the data formats with regards to the format of Street Centerlines. They had asked if Akimeka can use DPP's schema. Akimeka replied that their schema is great for planning, but if this is a system that is going to be used for public safety, the schema will need to be different and should follow NENA standards.
        ii. TransMeridian then asked if Akimeka can just send it how it is currently sent for HFD CAD.
            1. Akimeka replied that that is only in the perspective of HFD, and that the data was designed for their use and their CAD. This would change the way HPD views their data, creates more training issues, and lays the foundation on something not vendor agnostic.
2. HPD and Akimeka identified several inaccuracies of the system functionality.
    a. TransMeridian requested Street Centerline data from Akimeka so that the data can be used to build an Address Locator. An Address Locator uses reference data, in this case Street Centerlines from Akimeka, to allow for searching capability and geocoding to a location.
        i. The inaccuracy of TransMeridian' s configuration is that there is no intention to display the Street Centerline data, meaning the map will pan to an area that contains a base map of DPP data and/or the Lat/Long derived from the TriTech CAD and not the HPD Motorola CAD.
        ii. Akimeka identified this as a major issue, considering the map should be displayed exactly as the street or address is searched. Akimeka also mentioned that between the DPP data and Akimeka data, there have been several thousand edits and there are thousands of streets that have been added which should be displayed in the map.
        iii. TransMeridian's response was that they will need to do an assessment. When asked what they will be assessing, there was virtually no response. When Akimeka asked how the system is designed for first responders, the response was that HOSES is designed primarily for other users and not just first responders.

b. It was identified that the HOSES system was capable of pulling incident information from the CAD into the map. When asked how this is configured with the Motorola CAD, Transmeridian responded that it isn't and not sure if it can be.

3. In conclusion of the meeting, there were several issues identified. Since HPD and Akimeka has a new understanding of the intent of the system, it was decided that the NDA will need to be modified prior to sending any GIS data to Transmeridian for HOSES.

   a. The design of the HOSES system was clearly identified as not being driven on accuracy or 9-1-1 standards, so with that in mind and that all of the public safety agencies strive for accuracy, the new NDA would need to reflect this so if there were incidents caused from the inaccuracy of the system, it would be due to the system design and not the GIS data provided by Akimeka.

   b. Once the new NDA is finalized, HPD and Akimeka will proceed with sending data for use in the HOSES system. This data will be developed to meet the needs of each public safety agency and not specifically HFD.

SPAWAR MEETING ON ADDRESSING FOR MCBH

There has been no further information or correspondence with regards to this project.

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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 delivered March 31, 2015 and April 17, 2015. There were no updates in May 2015.

Street Utility Check				
	First Report 06/01/13	**3/31/2015**	**4/24/2015**	**Improvements/Corrections**
Total Number of GIS Records	26,602	27,557	27,879	Increased by 322 records
Errors Identified				
Zero Errors	5,112	539	560	Increased by 3.9% (21 errors)
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	1	2	Increased by 1 error
Address Overlap Errors	423	4	3	Decreased by 1 error
Flipped Link Errors	1,030	508	580	Increased by 14.2% (72 errors)
Total Errors	**9,303**	**1,052**	**1,145**	Increased by 8.8% (93 errors)

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.

Akimeka plans to continue its work effort to complete corrections of the discrepancies identified and/or identify any valid exceptions which Akimeka will tag with the proper information so the CAD system will accept the record(s) and not jeopardize the full functionality of the CAD system from the upload to RMS. Akimeka plans to complete all Street Utility Check errors prior to the implementation of the Motorola PremierOne CAD "go live" date.

Due to the MSAG Community and Street Sweep – Phase VII project, Akimeka expects there to be fluctuation in the results of the Street Check Utility moving forward, especially with regards to Zero Errors, Flipped Link Errors, Address Gap Errors, and Address Overlap Errors. These errors are as a direct result of the spatial corrections made on the Street Centerline network, where many new ingress segments are added. The preference is that the system can generate these non-impacting and non-critical errors instead of overriding them beforehand. The errors that are identified through this process are subsequently corrected based on the results of the Street Check.

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4. 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 Data Synchronization Report – July 2015

AUDIT SUMMARY RESULTS – 2015 -- TBA

AUDIT SUMMARY RESULTS – JULY 1, 2015 MSAG VS. APRIL 1, 2015 MSAG --TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT -- TBA

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME MAUI PSAP – MAY 2015

(Source: Intrado Viper)

(*) 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	
2015	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
MAY	11,182	2,368	21.18%	7,181	64.22%	60.66%	39.34%	266	2.38%	18	0.16%	0	0.00%	1,349	12.06%	0	0.00%

CALL VOLUME MAUI PSAP NOTES:

Calls with no Ali 0.16% - Statewide average = 1.24%

9-1-1 CALL VOLUME MAUI PSAP – CALENDAR YEAR 2015

9-1-1 Call Volume																	
MAUI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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	11,904	2,411	20.25%	7,697	64.66%	61.96%	38.04%	277	2.33%	13	0.11%	0	0.00%	1,506	12.65%	0	0.00%
FEB	10,934	2,340	21.40%	6,977	63.81%	63.15%	36.85%	255	2.33%	20	0.18%	0	0.00%	1,342	12.27%	0	0.00%
MAR	11,628	2,451	21.84%	7,479	64.32%	63.14%	36.86%	307	2.64%	13	0.11%	0	0.00%	1,378	11.85%	0	0.00%
APR	11,486	2,204	19.19%	7,507	65.36%	61.78%	38.22%	262	2.28%	20	0.17%	0	0.00%	1,493	13.00%	0	0.00%
MAY	11,182	2,368	21.18%	7,181	64.22%	60.66%	39.34%	266	2.38%	18	0.16%	0	0.00%	1,349	12.06%	0	0.00%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	57,134	11,774		36,841				1,367		84		0		7,068		0	
MON AVG	11,427	2,355	20.77%	7,368	64.47%	62.14%	37.86%	273	2.39%	17	0.15%	0	0.00%	1,414	12.37%	0.00	0.00%

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9-1-1 CALL VOLUME MOLOKAI PSAP – MAY 2015

9-1-1 Call Volume																	
MOLOKAI PSAP		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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
MAY	317	109	34.38%	157	49.53%	50.96%	49.04%	3	0.95%	20	6.31%	0	0.00%	28	8.83%	0	0.00%

CALL VOLUME MOLOKAI PSAP NOTES:

Calls with no Ali 6.31% - Statewide average = 1.24%

9-1-1 CALL VOLUME MOLOKAI PSAP – CALENDAR YEAR 2015

9-1-1 Call Volume																	
MOLOKAI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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	371	152	40.97%	176	47.44%	51.70%	48.30%	0	0.00%	2	0.54%	0	0.00%	41	11.05%	0	0.00%
FEB	355	159	44.79%	141	39.72%	55.32%	44.68%	0	0.00%	2	0.56%	0	0.00%	53	14.93%	0	0.00%
MAR	470	191	40.64%	224	47.66%	60.27%	39.73%	0	0.00%	2	0.43%	0	0.00%	53	11.28%	0	0.00%
APR	295	93	31.53%	156	52.88%	45.51%	54.49%	1	0.34%	13	4.41%	0	0.00%	32	10.85%	0	0.00%
MAY	317	109	34.38%	157	49.53%	50.96%	49.04%	3	0.95%	20	6.31%	0	0.00%	28	8.83%	0	0.00%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	1,808	704		854				4		39		0		207		0	
MON AVG	362	141	38.46%	171	47.45%	52.75%	47.25%	0.80	0.26%	8	2.45%	0	0.00%	41.4	11.39%	0	0.00%

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9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – MAY 2015

9-1-1 Call Volume																	
MAUI COUNTY PSAPs		Wireline		Wireless				VOIP Calls		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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
MAY	11,499	2,477	21.54%	7,338	63.81%	60.45%	39.55%	269	2.34%	38	0.33%	0	0.00%	1,377	11.97%	0	0.00%

9-1-1 CALL VOLUME (COMBINED MAUI & MOLOKAI PSAPS) – CALENDAR YEAR 2015

9-1-1 Call Volume																	
MAUI COUNTY PSAPs		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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	12,275	2,563	20.88%	7,873	64.14%	61.73%	38.27%	277	2.26%	15	0.12%	0	0.00%	1,547	12,60%	0	0.00%
FEB	11,904	2,499	22.14%	7,118	63.05%	63.00%	37.00%	255	2.26%	22	0.19%	0	0.00%	1,395	12.36%	0	0.00%
MAR	12,098	2,642	21.84%	7,703	63.67%	63.05%	36.95%	307	2.54%	15	0.12%	0	0.00%	1,431	11.83%	0	0.00%
APR	11,781	2,297	19.50%	7,663	65.05%	61.45%	38.55%	263	2.23%	33	0.28%	0	0.00%	1,525	12.94%	0	0.00%
MAY	11,499	2,477	21.54%	7,338	63.81%	60.45%	39.55%	269	2.34%	38	0.33%	0	0.00%	1,377	11.97%	0	0.00%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	59,557	12,478		37,695				1,371		123		0		7,275		0	
MON AVG	11,911	2,496	21.18%	7,539	63.94%	61.94%	38.06%	274	2.33%	25	0.21%	0.00	0.00%	1,455	12.28%	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 not 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 911calls made from the Viper System.**

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FYI.....FOR YOUR INFORMATION

FYI ..... For Your Information			
The FCC (Federal Communications Commission) Standards for Wireless 911 Indoor & Outdoor Location Accuracy:			
"Regarding horizontal location CMRS providers shall provide (1) dispatchable location or (2) x/y location within 50 meters of the wireless 911 call." source : FCC 15-9			
FCC timeframe:			
Within 2 years	40 % of all wireless 911 calls		
Within 3 years	50 % of all wireless 911 calls		
Within 5 years	70 % of all wireless 911 calls		
Within 6 years	80 % of all wireless 911 calls		
"Regarding vertical location, CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology.			
FCC timeframe:			
Within 3 years	All CMRS providers must make uncompensated barometric data available to PSAPs from any handset		
	that has the capability to deliver barometric sensor data.		
Within 3 years	Nationwide CMRS providers must use an independently administered and transparent test bed process		
	to develop a proposed z-axis accuracy metric, and must submit the proposed metric to the Commision		
	for approval.		
Within 6 years	Nationwide CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology		
	that achieves the Commision-approved z-axis metric, in each of the top 25 CMAs.		
Within 8 years	Nationwide CMRS providers must deploy dispatchable location or z-axis technology in accordance		
	with the above benchmarks in each of the top 50 CMAs.		
Definitions:			
Barometric Data	Elevation data calculated from atmospheric conditions		
CMAs	Cellular Market Areas		
CMRS	Commericial Mobile Radio Service (vendors ie. AT&T, Verizon, Sprint, T-Mobile, etc…)		
Dispatchable Location	A location delivered to the PSAP by the CMRS provider with a 911 call that consists of street address		
	of the calling party, plus additional information such as suite, apartment or similar information		
	necessary to adequately identify the location of the calling party. Civic addresses will be corroborated		
	against other location information prior to delivery of the address with the 9-1-1 call to the PSAP.		
MAC Address	(Media Access Control) A location identifier of a Wi-Fi access point.		
z-axis	Altitude (height or elevation) of the 911 callers device. (x/y/z)		

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WIRELESS PSAP TESTING – MAY 2015

MAUI COUNTY - MAY 2015						
Date	**WSP**	**Sites Tested**	**Sectors Tested**	**Tested By:**	**Test Pass/Fail**	**Comments:**
None						

NOTES:

- There were no scheduled Wireless 911 Tests in May 2015 for the Maui and Molokai PSAPs.
- AT&T performed 58 VoLTE test calls statewide in May 2015

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2. MSAG (MASTER STREET ADDRESS GUIDE)

CURRENT MONTH – MAY 2015

MAUI COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
MAY	25	19	1	3	2	0	257

MSAG CURRENT MONTH NOTES:

A total of **290** MSAG transactions were processed in 9-1-1 Net during the month of May 2015. Twenty-five (**25**) requests were processed relating to the MSAG database, and **265** requests relating to the ALI database (see ALI Transaction chart on next page). There were 257 customer ANI/ALI (telephone/address) records updated as a direct result.

MSAG YEAR-TO-DATE (YTD) SUMMARY – 2015

MAUI COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
JANUARY	25	6	1	4	14	0	102
FEBRUARY	26	18	0	5	3	0	93
MARCH	12	4	1	6	1	0	237
APRIL	21	7	1	11	2	0	157
MAY	25	19	1	3	2	0	257
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL YTD	109	54	4	29	22	0	846
AVG PER MONTH	22	11	1	6	4	0	169

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ALI TRANSACTIONS CURRENT MONTH – MAY 2015

MAUI COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR (A)	ALI-DR (B)	VoIP DR (C)	TN CR	ALI-DR	VoIP DR
MAY	265	265	0	0	577	0	0

Definitions
(A) **T**elephone **N**umber **C**hange **R**equest - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 359/399 attached to them which indicates the need for validation.
(B) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
(C) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord - 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.

ALI TRANSACTIONS CURRENT MONTH NOTES:

265 Telephone Number Change Requests (TN CR) transactions were processed as a result of the ESN 299 clean-up effort. There were no ALI Discrepancy Request (ALI DR) processed in 9-1-1 Net.

OPEN DISCREPANCY RECORDS STATUS:

- **There are 577 Open TN CR Transactions as of May 31, 2015**
- **Refer to chart in the next section "TNCR Current Status"**

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

There are no Open ALI-DRs as of May 31, 2015

There are no Open VoIP DRs as of May 31, 2015

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ALI TRANSACTIONS YEAR-TO-DATE (YTD) SUMMARY – 2015

MAUI COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR	ALI-DR	VoIP DR	TN CR	ALI-DR	VoIP DR
JAN	92	91	1	0	343	0	0
FEB	45	44	1	0	340	0	0
MAR	215	212	2	1	447	1	0
APR	130	129	1	0	446	0	0
MAY	265	265	0	0	577	0	0
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	747	741	5	1			
AVG PER MONTH	149	148	1	0			

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – MAY, 2015

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 Intrado 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)

PSAP	TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA	OPENED TNCRS PENDING FURTHER ACTION BY INTRADO	OPENED TNCRS REFERRED TO TELCO BY INTRADO	TOTAL UNOPENED TNCR RECORDS
MAUI	320	63	47	210
MOLOKAI	257	13	18	226
TOTAL	577	76	65	436

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

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MAY 2015

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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/28/2015		Spatially corrected one (1) address point in Kahului
	5/28/2015		Added one (1) address in Hoolehua
	5/28/2015		Added one (1) address in Waihee
		05/27/15	
	5/26/2015		Added one (1) address in Kaunakakai
	5/26/2015		Added two (2) addresses in Kualapuu
	5/21/2015		Changed three (3) addresses in Kahului
	5/21/2015		Added one (1) address in Kaluakoi
	5/21/2015		Added location name for one (1) address in Kaunakakai
	5/21/2015		Spatially corrected one (1) address point in Kaunakakai
	5/21/2015		Added two (2) addresses in Kaunakakai
	5/21/2015		Spatially corrected two (2) address points in Kihei
	5/21/2015		Added one (1) address in Kihei
	5/21/2015		Spatially corrected one (1) address in Pukalani
	5/21/2015		Added one (1) address in Pukalani
	5/18/2015		Spatially corrected one (1) address in Haiku
	5/18/2015		Added two (2) addresses in Haiku
	5/18/2015		Added one (1) address in Hana
	5/18/2015		Added two (2) addresses in Hoolehua
	5/18/2015		Added one (1) address in Maunaloa
	5/18/2015		Added one (1) address in Wailea
	5/14/2015		Added one (1) address in Hoolehua
	5/14/2015		Spatially corrected two (2) address points in Kualapuu
	5/14/2015		Added six (6) addresses in Kualapuu
	5/14/2015		Added one (1) address in Makawao
	5/14/2015		Spatially corrected three (3) address points in Makawao
	5/14/2015		Added two (2) addresses in Maunaloa
		05/13/15	
	5/12/2015		Spatially corrected one hundred twenty (120) address points in Napili
	5/11/2015		Spatially corrected five hundred sixty-seven (567) address points in Napili
	5/11/2015		Added one (1) Location Name for one (1) address
	5/8/2015		Added three (3) address points in Kualapuu
	5/7/2015		Added six (6) addresses in Kualapuu
	5/7/2015		Spatially corrected one (1) address in Kaunakakai
	5/7/2015		Added two (2) addresses in Maunaloa
	5/7/2015		Added one (1) address in Kaunakakai

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/7/2015		Added three (3) address points in Hoolehua
	5/7/2015		Added one (1) address in Kaluakoi
	5/6/2015		Spatially corrected one (1) address in Haiku
	5/6/2015		Added one (1) address in Haiku
	5/6/2015		Spatially corrected four (4) address points in Hana
	5/6/2015		Added one (1) address in Hana
	5/6/2015		Spatially corrected four hundred four (404) address points in Kihei
	5/6/2015		Spatially corrected one (1) address point in Lahaina
	5/6/2015		Added one (1) church
	5/5/2015		Spatially corrected ten (10) address points in Haiku
	5/5/2015		Added two (2) addresses in Haiku
	5/5/2015		Spatially corrected eleven (11) address points in Haliimaile
	5/5/2015		Spatially corrected twenty-one (21) address points in Kahului
	5/5/2015		Added one (1) address in Kihei
	5/5/2015		Spatially corrected twenty-one (21) address points in Lahaina
	5/5/2015		Added two (2) addresses in Lahaina
	5/5/2015		Spatially corrected three (3) address points in Lanai
	5/5/2015		Spatially corrected one (1) address point in Makawao
	5/5/2015		Added one (1) address in Makawao
	5/5/2015		Added one (1) address in Napili
	5/5/2015		Spatially corrected one (1) address point in Napili
	5/5/2015		Spatially corrected four (4) address points in Waiehu
	5/4/2015		Spatially corrected two (2) address points in Haiku
	5/4/2015		Added two (2) addresses in Haiku
	5/4/2015		Spatially corrected six (6) address points in Kahului
	5/4/2015		Added five (5) addresses in Kahului
	5/4/2015		Spatially corrected seven (7) address points in Kihei
	5/4/2015		Added two (2) addresses in Kihei
	5/4/2015		Spatially corrected two (2) address points in Kula
	5/4/2015		Added five (5) addresses in Kula
	5/4/2015		Spatially corrected two (2) address points in Makawao
	5/4/2015		Spatially corrected three (3) address points in Paia
	5/4/2015		Added one (1) address in Paia
	5/1/2015		Spatially corrected eighteen (18) address points in Lahaina
	5/1/2015		Added one (1) address in Lahaina

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Airports			
Bridges			
Building Footprints			
Bus Stops			
Churches		**05/13/15**	
	5/6/2015		Added one (1) church, St Marys Catholic Church in Hana
Coastal Names		**05/13/15**	
	5/13/2015		Removed one (1) coastal name in Wailea
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			
Emergency Shelters			

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations			
Food & Beverage			
Gas Stations			
Gate Codes		**05/27/15**	
	5/27/2015		Changed gate code for Sandhill Estates per Maui Dispatch
Government Buildings		**05/27/15**	
	5/26/2015		Corrected location and address of Hannibal Tavares Community Center
Harbors			
Helipads			
Hiking Trails			

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Hospitals			
Hydrants			
Hyrdology Layers: Dams Ponds Streams Waterfalls			
Incident Response Areas			
Lodging		**05/13/15**	
	5/11/2015		Spatially corrected one (1) hotel in Napili
Major Roads			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			
Medical Facilities			

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Milepost Markers			
MSAG Communities			
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			
Parks Polygon			
Points of Interest	5/28/2015		Added thirty-six (36) POI, spatially corrected nine (9), corrected two (2) Names, added Apartment #'s to three (3) POI in Kaahumanu Shopping Center
		05/27/15	
	5/21/2015		Added four (4) POI, added the address for one (1) POI and spatially corrected one (1) POI.
		05/13/15	
	5/13/2015		Removed two (2) POI in Wailea
Police Beats			
Police Districts			

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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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Police Response Areas			
Police Stations			
Post Offices			
Schools			
Street Centerlines	5/29/2015		Spatially corrected forty-four (44) street centerline segments in Lanai
		05/27/15	
	5/22/2015		Spatially corrected three (3) street centerline segments in Kaluakoi
	5/21/2015		Spatially corrected three (3) street centerline segments in Kaluakoi
	5/20/2015		Spatially corrected seven (7) street centerline segments in Kaluakoi
	5/19/2015		Spatially corrected fourteen (14) street centerline segments in Kaluakoi
	5/18/2015		Spatially corrected fourteen (14) street centerline segments in Kaluakoi
	5/15/2015		Spatially corrected sixteen (16) street centerline segments in Kaluakoi
	5/14/2015		Spatially corrected one (1) street centerline segment in Kualapuu
	5/14/2015		Modified one (1) street centerline segment range in Kualapuu
	5/14/2015		Spatially corrected six (6) street centerline segments in Makawao
		05/13/15	
	5/13/2015		Spatially corrected seventeen (17) street centerline segments in Maunaloa
	5/13/2015		Spatially corrected three (3) street centerline segments in Wailuku
	5/8/2015		Spatially corrected two (2) street centerline segments in Maunaloa
	5/8/2015		Spatially corrected four (4) street centerline segments in Haiku
	5/8/2015		Modified one (1) street range in Haiku
	5/7/2015		Spatially corrected thirty-one (31) street centerline segments in Maunaloa
Subdivisions		**05/13/15**	
	5/13/2015		Removed one (1) subdivision in Wailea
Tow Jurisdictions			

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MAPPING LAYERS UPDATED (PART VIII)

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 Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		**05/13/15**	
	5/13/2015		Per ATT CRS
	5/4/2015		Per ATT CRS
WSP Cell Towers		**05/13/15**	
	5/13/2015		Per ATT CRS
	5/4/2015		Per ATT 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.**
- **Every time the GIS Update tool is used, the Indexes and Cache have to be built. The Positron PowerMap system configurator is adjusted each time a GIS layer is loaded or updated in the PowerMap database. Each PowerMap position is updated accordingly.**

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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
5/27/2015	Uploaded the following data on PowerMap: Address Points, Gate Codes, Government Buildings, WSP Cell Towers, WSP Cell Sectors, Points of Interest, and Street Centerlines
5/27/2015	Delivered the following data for MapFlex: Address Points, Gate Codes, Government Buildings, WSP Cell Towers, WSP Cell Sectors, Points of Interest, and Street Centerlines
5/27/2015	Delivered the following data for the Intergraph CAD map: Maui Cell Coverage .csv, .str, .rte and .map which included updated Address Points, Gate Codes, WSP Cell Towers, Points of Interest, and Street Centerlines
5/13/2015	Uploaded the following data on PowerMap: Address Points, Churches, Lodging, WSP Cell Towers, WSP Cell Sectors, Subdivisions, Points of Interest, and Street Centerlines
5/13/2015	Delivered the following data for the Intergraph CAD map: Maui Cell Coverage .csv, .str, .rte and .map which included updated Address Points, Coastal Names, Lodging, WSP Cell Towers, Subdivisions, Points of Interest, and Street Centerlines
5/13/2015	Delivered the following data for a MapFlex update: Address Points, Churches, Coastal Names, Lodging, Points of Interest, Street Centerlines, Subdivisions, WSP Cell Sectors and WSP Cell Towers

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NEXT GENERATION 911 (NG9-1-1) GIS REQUIREMENTS

The transition of E9-1-1 to NG9-1-1 has caused a shift in the focus of the 9-1-1 GIS work. This new focus has centralized the GIS data model with more of an emphasis toward a higher degree of precision, while continuing its foundation on current, accurate, and standardized GIS data, only now to a higher level of exactness.

The NG9-1-1 GIS requirements have repositioned the focal point from generalizations and interpolation on Street Centerlines and civic addressing, to new and more focused requirements of point specific locations utilizing lat/longs, combined with civic addresses to determine a 9-1-1 caller's location from any communications device and from any location.

Akimeka has adapted the NG9-1-1 requirements into their correction processes and has continued working to improve accuracy, completeness, and quality of the GIS data. The redesigned correction process will also promote a higher level of detail, which helps facilitate data consistency and is an important element for interoperability and information sharing across the PSAPs.

During the month of May 2015, Akimeka has focused on correcting the following areas and has established a baseline moving into NG9-1-1:

NG9-1-1 GIS Data Corrections

GIS Layer Name	Type of Correction	Number of Records Corrected/Modified/Added/Removed	Comments/Details
Address Points	Addition	69	Addresses assigned by DSA, DSA Address Layer, MSAG and field verifications
	Spatially Corrected	1221	Corrected location of address point, recalculated x/y
	Correction	0	Correction of address
	Change	3	DSA reassigns an address
	Neighborhood Info	0	Added Neighborhood Info
	Location Name	1	Added or Changed Location Name
Response Boundaries	Spatially Corrected	0	Boundary corrections to match spatially corrected street centerlines. Layers include ESN and MSAG Community.
Street Centerlines	Addition	0	Added a street centerline segment
	Range Segments	2	Modification of a range
	Spatially Corrected	163	Corrected using Pictometry
	Partial Spatial Correction	0	Corrected using Pictometry
	Flipped	0	Corrected direction segment was drawn

NOTE:

- Response Boundaries include any updates to ESNs, Police Beats, Fire Beats, etc. that pertain to Dispatch and Response.

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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. Akimeka successfully delivered an updated Intergraph CAD map on May 13, 2015 which included:
    a. Address Points, Coastal Names, Lodging, Points of Interest, Street Centerlines, Subdivisions, and WSP Cell Towers
    b. .map, .str, .rte, .ply files, CAD Map Build database and Cell Coverage.csv
2. On May 27, 2015, the following data was prepared and delivered for an Intergraph CAD Map update:
    a. Address Points, Gate Codes, Points of Interest, Street Centerlines and WSP Cell Towers
    b. The .map, .str, .rte, CAD Map Build database and Cell Coverage.csv were also delivered.
3. Through the month of May, Akimeka deleted overlapping and crowded Street Centerline and Stream labels. This continues to be a work in progress.

During June 2015, the Intergraph CAD map will continue to be delivered on a bi-monthly basis, which has been coordinated with all mapping system updates and synchronizations with other 911 databases.

MAPFLEX DEPLOYMENT

During the month of May 2015, there was significant progress with regards to finalizing the deployment of the MapFlex system for Hawaii County, Maui County, and Kauai County. For a chronology prior to May, please see the April 2015 Monthly Status Report.

1. On May 6, 2015, Akimeka followed up with Intrado on the deliverables provided for MapFlex systems on April 16th, 2015 to get a status if the layers had been updated in the mapping system.
    a. Later on May 6, 2015, it was confirmed the data had been uploaded.
    b. It was also confirmed that deliverables previously provided that had been on the MapFlex server were not uploaded.
        i. Since there had been updates for Kauai's Police Beats that were overridden, Akimeka expedited a deliverable containing the updates same day and sent out the notification.
2. On May 11, 2015, Intrado notified Akimeka that they had made great progress on the scripts that will enable the automated GIS data updates.
    a. Akimeka followed up with Intrado to inform them they will be sending out the normal bi-monthly deliverables that correspond with all of the other CAD and Mapping systems, starting with Hawaii County on May 12th, Maui on May 13th, and Kauai on May 14th.
3. On May 13th, 2015, Akimeka and Intrado had a brief conference call to do a final confirmation of the process and what items are left outstanding to complete.
    a. All GIS processes and procedures with delivering data by Akimeka had been completed in February 2015.
    b. The script for automation was completed
        i. For delivering data to the MapFlex servers
    c. The script for sending automatic notifications of completion is in progress
4. Akimeka delivered GIS data to the MapFlex system on the following dates in May 2015
    a. **Hawaii County** – May 12th and May 26th
    b. **Maui County** – May 13th and May 27th
    c. **Kauai County** – May 14th and May 28th

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POWERMAP

During the May 14, 2015, 9-1-1 Communications Technical and Finance Committee it was discussed that with the successful implementation of the MapFlex system, the uploads for the PowerMap system are scheduled to be phased out by the end of May 2015.

1. The phase out plan for uploads to PowerMap includes the disconnection of the dedicated circuits from Akimeka's office in Kihei, Maui to Hawaii County, Maui County, and Kauai County on May 31, 2015.
    a. This means that Akimeka will have no connection to the PowerMap to perform uploads and that there will be no technical support of PowerMap since it is being replaced with a newer and improved mapping system; MapFlex. This was due to PowerMap surpassing its expected lifecycle and had remained in service for more than 8 years.
2. The phase out plan also includes Akimeka's assistance in the removal of GIS data which contains proprietary information to the PSAPs that must be cared for and also includes IPR information from Akimeka.
    a. Akimeka will be scheduled to assist in this process during the beginning of June 2015.

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MAUI PSAP MAY 2015

MAUI PSAP						
#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

There are no Open Service Requests for the Maui PSAP for May 2015.

MAUI PSAP SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2015

MAUI PSAP				SERVICE REQUEST CATEGORIES			
2015	TOTAL		Open	911 Map		MSAG	
	Created	Closed		Created	Closed	Created	Closed
2014 Carryover*			0				
January	2	2	0	1	1	1	1
February	0	0	0	0	0	0	0
March	4	3	1	0	0	4	3
April	1	1	1	1	1	0	0
May	0	1	0	0	0	0	1
June							
July							
August							
September							
October							
November							
December							
TOTAL	**7**	**7**	**0**	**2**	**2**	**5**	**5**

NOTE:

- *The 2014 Carry Over row indicated the number of Service Requests that remained opened in 2014.
- Detailed information on service tickets is available upon request.

Definitions:	Category	Description
	911 Map	Mapping computer not functioning or displaying properly.
	MSAG	Discrepancies with 9-1-1 MSAG addresses

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OPEN SERVICE REQUESTS – MOLOKAI PSAP MAY 2015

MOLOKAI PSAP						
#	Date	Ticket #	Description	Category	Urgency	Comments
			NONE			

NOTE:

There are no Open Service Requests for the Molokai PSAP for May 2015.

MOLOKAI PSAP SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2015

MOLOKAI PSAP				SERVICE REQUEST CATEGORIES			
2015	TOTAL		Open	911 Map		MSAG	
	Created	Closed		Created	Closed	Created	Closed
2014 Carryover*			0				
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	1	1	0	0	0	1	1
April	1	1	0	0	0	1	1
May	0	0	0	0	0	0	0
June							
July							
August							
September							
October							
November							
December							
TOTAL	**2**	**2**	**0**	**0**	**0**	**2**	**2**

NOTE:

- *The 2014 Carry Over row indicated the number of Service Requests that remained opened in 2014.
- Detailed information on service tickets is available upon request.

Definitions:	Category	Description
	911 Map	Mapping computer not functioning or displaying properly.
	MSAG	Discrepancies with 9-1-1 MSAG addresses

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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 is June 2015

AUDIT SUMMARY RESULTS – 2015 --TBA

MSAG AUDIT SUMMARY RESULTS – JUNE 1, 2015 - MARCH 1, 2015 --TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT --TBA

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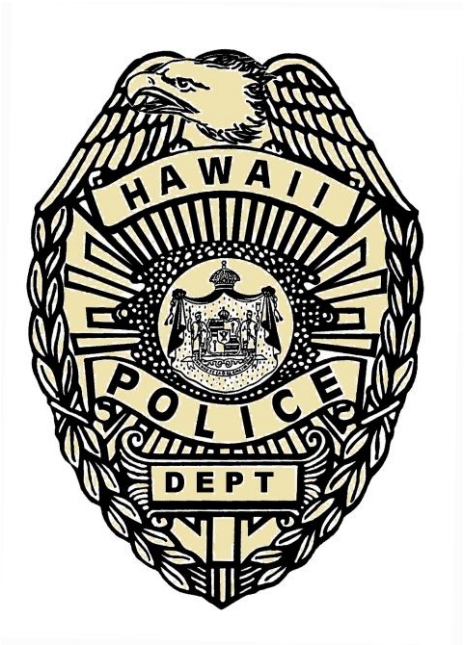

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME HAWAII COUNTY PSAPS – MAY 2015

(Source: Intrado Viper)

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

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	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
MAY	18,561	3,534	19.04%	12,546	67.59%	50.22%	49.78%	727	3.92%	5	0.03%	0	0.00%	1,749	9.42%	0	0.00%

CALL VOLUME HAWAII COUNTY PSAP NOTES:

***The number of Wireless Phase 2 calls (49.78%) has decreased from the number of Wireless Phase 1 calls (50.22. %) in May 2015.**

***Call with no Ali = 0.03% - Statewide average = 1.24%**

9-1-1 CALL VOLUME – CALENDAR YEAR 2015

9-1-1 Call Volume																	
HAWAII COUNTY PSAPs		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	No. of Other Calls	% of Total Calls
JAN	19,236	4,158	21.62%	12,597	65.49%	47.56%	52.44%	807	4.20%	4	0.02%	0	0.00%	1,670	8.68%	0	0.00%
FEB	17,222	3,513	20.40%	11,581	67.25%	46.45%	53.55%	707	4.11%	7	0.04%	0	0.00%	1,414	8.21%	0	0.00%
MAR	17,858	3,765	21.08%	11,972	67.04%	49.27%	50.73%	653	3.66%	3	0.02%	0	0.00%	1,465	8.20%	0	0.00%
APR	17,756	3,483	19.62%	11,998	67.57%	48.95%	51.05%	717	4.04%	9	0.05%	0	0.00%	1,549	8.72%	0	0.00%
MAY	18,561	3,534	19.04%	12,546	67.59%	50.22%	49.78%	727	3.92%	5	0.03%	0	0.00%	1,749	9.42%	0	0.00%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	90,633	18,453		60,694				3,611		28		0		7,847		0	
MON AVG	18,127	3,691	20.35%	12,139	66.99%	48.49%	51.51%	722	3.98%	6	0.03%	0	0.00%	1,569	8.65%	0	0.00%

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9-1-1 CALL VOLUME BY AGENCY – MAY 2015

2015	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls
May	14,600	78.66%	0	1,697	0	2,212	11.92%	0	52	0

9-1-1 CALL VOLUME BY AGENCY – CALENDAR YEAR 2015

2015	9-1-1 Call Volume by Agency									
	Hawaii Police Department					Hawaii Fire Department				
	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls	Number of Total Calls Received	% of Total Calls	Number of Admin Calls	Number of Abandoned Dropped Calls	Number of Other Calls
January	15,080	78.39%	0	1,633	0	2,486	12.92%	0	37	0
February	13,678	79.42%	0	1,394	0	2,130	12.37%	0	20	0
March	15,722	88.04%	0	1,430	0	2,136	11.96%	0	35	0
April	14,131	79.58%	0	1,521	0	2,076	11.69%	0	28	0
May	14,600	78.66%	0	1,697	0	2,212	11.92%	0	52	0
June										
July										
August										
September										
October										
November										
December										
YTD	73,211		0	7,675	0	11,040		0	172	0
MON AVG	14,642	80.82%	0	1,535	0	2,208	12.17%	0	34	0

PSAP OPERATION NOTES:

- **Abandoned Calls represent the number of incoming 9-1-1 calls for which the caller had hung up before a call-taker answered. Dropped Calls are hang ups after transfers.**
- **Abandoned Calls are not included in the total of Wireline and Wireless counts respectively.**
- **All VOIP (Voice over internet protocol) types of 911 calls are combined in the Call Volume statistic.**

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FYI.....FOR YOUR INFORMATION

FYI ..... For Your Information			
The FCC (Federal Communications Commission) Standards for Wireless 911 Indoor & Outdoor Location Accuracy:			
"Regarding horizontal location CMRS providers shall provide (1) dispatchable location or (2) x/y location within 50 meters of the wireless 911 call." source : FCC 15-9			
FCC timeframe:			
Within 2 years	40 % of all wireless 911 calls		
Within 3 years	50 % of all wireless 911 calls		
Within 5 years	70 % of all wireless 911 calls		
Within 6 years	80 % of all wireless 911 calls		
"Regarding vertical location, CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology.			
FCC timeframe:			
Within 3 years	All CMRS providers must make uncompensated barometric data available to PSAPs from any handset		
	that has the capability to deliver barometric sensor data.		
Within 3 years	Nationwide CMRS providers must use an independently administered and transparent test bed process		
	to develop a proposed z-axis accuracy metric, and must submit the proposed metric to the Commision		
	for approval.		
Within 6 years	Nationwide CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology		
	that achieves the Commision-approved z-axis metric, in each of the top 25 CMAs.		
Within 8 years	Nationwide CMRS providers must deploy dispatchable location or z-axis technology in accordance		
	with the above benchmarks in each of the top 50 CMAs.		
Definitions:			
Barometric Data	Elevation data calculated from atmospheric conditions		
CMAs	Cellular Market Areas		
CMRS	Commericial Mobile Radio Service (vendors ie. AT&T, Verizon, Sprint, T-Mobile, etc…)		
Dispatchable Location	A location delivered to the PSAP by the CMRS provider with a 911 call that consists of street address		
	of the calling party, plus additional information such as suite, apartment or similar information		
	necessary to adequately identify the location of the calling party. Civic addresses will be corroborated		
	against other location information prior to delivery of the address with the 9-1-1 call to the PSAP.		
MAC Address	(Media Access Control) A location identifier of a Wi-Fi access point.		
z-axis	Altitude (height or elevation) of the 911 callers device. (x/y/z)		

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WIRELESS PSAP TESTING – MAY 2015

HAWAII COUNTY - MAY 2015						
Date	**WSP**	**Sites Tested**	**Sectors Tested**	**Tested By:**	**Test Pass/Fail**	**Comments:**
None						

NOTES:

- There were no scheduled Wireless 911 Tests for the month of May 2015.
- AT&T performed 58 VoLTE test calls statewide in May 2015

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2. MSAG (MASTER STREET ADDRESS GUIDE)

MSAG TRANSACTIONS CURRENT MONTH – MAY 2015

HAWAII COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
MAY	32	5	0	24	3	0	256

MSAG CURRENT MONTH NOTES:

A total of **409** MSAG transactions were processed in 9-1-1 Net during the month of May2015. Thirty-two (**32**) requests were processed relating to the MSAG database, and **377** requests relating to the ALI database (see ALI Transaction chart on next page). There were **256** customer ANI/ALI (telephone/address) records updated as a direct result.

MSAG YEAR-TO-DATE (YTD) SUMMARY – 2015

HAWAII COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
JANUARY	86	32	0	37	17	0	149
FEBRUARY	26	5	1	9	9	2	109
MARCH	52	10	3	33	5	1	180
APRIL	74	8	0	55	11	0	276
MAY	32	5	0	24	3	0	256
JUNE							
JULY							
AUGUST							
SEPTEMBER							
OCTOBER							
NOVEMBER							
DECEMBER							
TOTAL YTD	270	60	4	158	45	3	970
AVG PER MONTH	54	12	1	32	9	1	194

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ALI TRANSACTIONS CURRENT MONTH – MAY 2015

HAWAII COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR (A)	ALI-DR (B)	VoIP DR (C)	TN CR	ALI-DR	VoIP DR
MAY	377	377	0	0	510	3	0

Definitions
(A) **T**elephone **N**umber **C**hange **R**equest - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 299 attached to them which indicates the need for validation.
(B) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
(C) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord - 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.

ALI TRANSACTIONS CURRENT MONTH NOTES:

377 Telephone Number Change Requests (TN CR) transactions were processed with MSAG valid addresses, as a result of the ESN 299 clean-up effort. There were no ALI Discrepancy Requests (ALI DR) processed in 9-1-1 Net, and no VoIP Discrepancy Requests submitted to Time Warner Cable in the month of May.

OPEN DISCREPANCY RECORDS STATUS:

- **There are 510 Open TN CR Transactions as of May 31, 2015**
- **Refer to chart in the next section "TNCR Current Status"**

The Open TN CR transactions are a direct result of the ESN 299 clean-up and are awaiting approval from Hawaiian Telcom, Inc. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to Intrado for correction, it must be verified against HT records and/or approved by the customer. Intrado's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

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There are three (3) Open ALI-DRs as of May 31, 2015

The ALI DRs were the result of 9-1-1 calls from businesses in Hilo and Kailua Kona. Hawaii County Fire submitted a request to Akimeka to update the customer information and provided an MSAG valid address. Akimeka submitted the ALI DR to Intrado and the transaction is awaiting approval from the telco.

Intrado will notify Akimeka when the TN has been updated in 9-1-1Net.

There are no Open VoIP DRs as of May 31, 2015

ALI TRANSACTIONS YEAR-TO-DATE (YTD) SUMMARY – 2015

HAWAII COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR	ALI-DR	VoIP DR	TN CR	ALI-DR	VoIP DR
JAN	82	71	5	6	408	2	2
FEB	104	96	5	3	430	3	0
MAR	170	159	10	1	474	3	0
APR	252	248	3	1	532	3	0
MAY	377	377	0	0	510	3	0
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	985	951	23	11			
AVG PER MONTH	197	190	5	2			

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS -- MAY 2015

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 Intrado 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)				
PSAP	**TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA**	**OPENED TNCRS PENDING FURTHER ACTION BY INTRADO**	**OPENED TNCRS REFERRED TO TELCO BY INTRADO**	**TOTAL UNOPENED TNCR RECORDS**
HAWAII	**510**	**106**	**72**	**332**

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

Hawaii County E9-1-1 Status Report

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MAY 2015

MAPPING LAYERS UPDATED (PART I)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/27/2015		Spatially corrected sixteen (16) address points in Ocean View.
		05/26/15	
	5/19/2015		Spatially corrected forty-five (45) address points in Captain Cook.
	5/19/2015		Spatially corrected thirty-four (34) address points in Kealakekua.
	5/19/2015		Spatially corrected fifteen (15) address points in Keauhou.
	5/18/2015		Completed monthly update on Address Points.
	5/18/2015		Spatially corrected twenty-five (25) address points in Holualoa.
	5/15/2015		Spatially corrected eleven (11) address points in Hilo.
	5/15/2015		Added two (2) address points (831045 Honaunau School Rd and 881516 Umi Ave) in Captain Cook.
	5/15/2015		Added one (1) address point (550486 Waipiele St) in Hawi.
	5/15/2015		Added sixteen (16) address points in Hilo.
	5/15/2015		Added two (2) address points (765807 Hookahi Rd and 786981 Mamalahoa Hwy) in Holualoa.
	5/15/2015		Added two (2) address points (734770 Hinahina Rd and 734588 Konale Pl) in Kailua Kona.
	5/15/2015		Added six (6) address points in Kamuela.
	5/15/2015		Added three (3) address points (540582 Honomakau Rd, 581436 Kaiholena Pl and 520294 Makapala Rd) in Kapaau.
	5/15/2015		Added twenty-two (22) address points in Keaau.
	5/15/2015		Added one (1) address point (776228 Hoomau Rd) in Keauhou.
	5/15/2015		Added six (6) address points in Kurtistown.
	5/15/2015		Added nine (9) address points in Mountain View.
	5/15/2015		Added two (2) address points (946298 and 946302 Makani Nalu Rd) in Naalehu.
	5/15/2015		Added thirteen (13) address points in Ocean View.
	5/15/2015		Added two (2) address points (432043 Aina Kope Rd and 443917 Kukuipapa Rd) in Paauilo.
	5/15/2015		Added four (4) address points (121139 Hakuma St, 120110 Kalapana Beach Haven Rd, 152762 Papai St and 131394 Pueo St) in Pahoa.
	5/15/2015		Added one (1) address point (281190 Old Railroad Way) in Pepeekeo.
	5/15/2015		Added twelve (12) address points in Volcano.
	5/13/2015		Spatially corrected forty-one (41) address points in Kailua Kona.
		05/12/15	
	5/12/2015		Corrected address to one (1) address point (1528 Kilauea Ave A) in Hilo.
	5/12/2015		Corrected address to one (1) address point (835376 Mamalahoa Hwy) in Captain Cook.

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MAPPING LAYERS UPDATED (PART II)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/12/2015		Spatially corrected one (1) address point (835376 Mamalahoa Hwy) in Captain Cook.
	5/8/2015		Added fifteen (15) address points in Waikoloa.
	5/8/2015		Corrected address to one (1) address point (691000 Kolea Kai Cir 1) in Waikoloa.
	5/8/2015		Spatially corrected thirteen (13) address points in Waikoloa.
	5/7/2015		Added one (1) address (963014 Koali St) in Pahala.
	5/7/2015		Corrected address to two (2) addresses (550450 and 550459 Stone Crusher Rd) in Kapaau.
	5/7/2015		Spatially corrected two (2) addresses (533988 and 533996 Ainakea Dr) in Kapaau.
	5/7/2015		Spatially corrected twenty-five (25) addresses in Waikoloa.
	5/6/2015		Added one (1) address (457 Luakaha St) in Hilo.
	5/6/2015		Corrected address to (1) address (732301 Kaloko Dr) in Kailua Kona.
	5/6/2015		Corrected address to three (3) addresses (652256, 652260 and 652266 Loihi Pl) in Kamuela.
	5/6/2015		Spatially corrected three (3) addresses (652256, 652260 and 652266 Loihi Pl) in Kamuela.
	5/6/2015		Spatially corrected six (6) addresses in Hilo.
Airports			
Bridges			
Building Footprints			
Bus Stops			
Churches			
Coastal Names			

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MAPPING LAYERS UPDATED (PART III)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN			
Fire Beats			
Fire Districts			
Fire Response Areas			
Fire Stations			
Food & Beverage			

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MAPPING LAYERS UPDATED (PART IV)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Gas Stations			
Gate Codes			
Government Buildings			
Harbors			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hyrdology Layers: **Dams**			
Ponds			
Streams			
Waterfalls			
Incident Response Areas			
Lodging			

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MAPPING LAYERS UPDATED (PART V)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Major Roads			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			
Medical Facilities			
Milepost Markers			
MSAG Communities		**05/12/15**	
	5/7/2015		Corrected boundary to two (2) communities (Hawi and Kapaau).
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			

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MAPPING LAYERS UPDATED (PART VI)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Parks			
Parks Polygon			
Points of Interest		**05/26/15**	
	5/19/2015		Added one (1) point of interest (Kohala Hospital) in Kapaau.
	5/18/2015		Spatially corrected eleven (11) points of interest in Holualoa.
	5/18/2015		Spatially corrected eight (8) points of interest in Honaunau.
	5/18/2015		Spatially corrected fifteen (15) points of interest in Honokaa.
	5/18/2015		Corrected address to two (2) points of interest (Haina Park and Honokaa Hongwanji Mission) in Honokaa.
		05/12/15	
	5/11/2015		Spatially corrected six (6) points of interest in Hakalau.
	5/11/2015		Spatially corrected thirteen (13) points of interest in Hawi.
Police Beats			
Police Districts			
Police Response Areas			
Police Stations			
Post Offices			
Schools			

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MAPPING LAYERS UPDATED (PART VII)

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

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Street Centerlines	5/27/2015		Spatially corrected seventy (70) street centerlines in Kamuela.
		05/26/15	
	5/26/2015		Spatially corrected seventeen (17) street centerlines in Kamuela.
	5/26/2015		Spatially corrected three (3) street centerlines (Pratt Rd and Niu Lani) in Kapaau.
	5/26/2015		Corrected range to two (2) street segments of Pratt Rd in Kapaau.
	5/26/2015		Added one (1) segment of Akoni Pule Rd and split one (1) segment of Old Halaula Mill Rd in Kapaau.
	5/19/2015		Added three (3) street segments (Akoni Pule Hwy, Hospital Rd and Keokea Park Rd) in Kapaau.
	5/18/2015		Completed monthly update on Street Centerlines.
	5/13/2015		Spatially corrected five (5) street centerlines in Keaau.
	5/13/2015		Corrected range to two (2) street centerlines of Mikahala St in Keaau.
		05/12/15	
	5/11/2015		Spatially corrected seven (7) street centerlines in Volcano.
	5/11/2015		Corrected range to two (2) street centerlines (Glenwood Rd and Komo St) in Volcano.
	5/11/2015		Added six (6) street segments and split three (3) street segments in Kapaau.
	5/11/2015		Deleted one (1) segment of Glenwood Rd in Mountain View.
	5/11/2015		Deleted one (1) segment of Glenwood Rd in Volcano.
	5/7/2015		Spatially corrected one (1) segment of Old Volcano Rd in Mountain View.
	5/7/2015		Added one (1) street segment and split one (1) street segment of Volcano Rd in Mountain View.
	5/7/2015		Corrected range to one (1) street segment of Stone Crusher Rd in Kapaau.
	5/7/2015		Corrected community to two (2) street segments of Stone Crusher Rd in Kapaau.
	5/7/2015		Spatially corrected two (2) street segments of Stone Crusher Rd in Kapaau.
	5/7/2015		Added five (5) and split two (2) street segments in Kapaau.
	5/6/2015		Spatially corrected five (5) street segments in Kamuela.
	5/6/2015		Added three (3) street segments (2 segments of Ala Mauka and 1 segment of Loihi Pl) in Kamuela.
Subdivisions			
Tow Jurisdictions			

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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.

HAWAII COUNTY			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		**05/26/15**	
	5/26/2015		Per VZW CRS
		05/12/15	
	5/4/2015		Per VZW CRS
WSP Cell Towers		**05/26/15**	
	5/26/2015		Per VZW CRS
		05/12/15	
	5/4/2015		Per VZW CRS

NOTE:

- **Every time the GIS Update tool is used, the Indexes and Cache have to be built. The Positron PowerMap system configurator is adjusted each time a GIS layer is loaded or updated in the PowerMap database. Each PowerMap position is updated accordingly.**

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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
5/26/2015	MapFlex deliverable which included the following updated layers: Address Points, Cell Sectors, Cell Towers, Common Places and Street Centerlines.
5/12/2015	Performed Powermap Update which included: Address Points, Street Centerlines, WSP Cell Sectors, WSP Cell Towers, Points of Interest and MSAG Communities.
5/12/2015	MapFlex deliverable which included the following updated layers: Address Points, Cell Sectors, Cell Towers, Common Places, Fire Response Areas, Fire Stations, MSAG Communities and Street Centerlines.

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ADDRESS POINTS AND STREET CENTERLINES UPDATE COMPARISON

On a routine basis, upon receipt of Hawai'i County Planning Department's Address Points and Street Centerlines layer updates, Akimeka compares and incorporates any of the County's additions, changes, and deletions into the Akimeka Address Points and Street Centerlines layers that appear necessary for the dispatch and response of 911 personnel.

The Address Points and Street Centerlines layer comparative analysis was completed on the updates received from the Hawai'i County Planning Department on **May 18, 2015**. Results are as follows:

HAWAII COUNTY	Address Points Layer	Street Centerlines Layer
New Addresses Added	105	
Addresses Removed	0	
Address Street Name Changes	0	
Address Street Number Changes	2	
New Street Segments Added		0
Street Segments Removed		0
Street Segment Range Changes		0
Street Segment Name Changes		0

NOTE:

Some Address Points have multiple updates that are required, including Street Name and Street Number. These updates are counted as separate actions since the changes are required in order to make the GIS layers "9-1-1 capable" for CAD system recommendations affecting public safety dispatch and response operations.

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NEXT GENERATION 911 (NG9-1-1) GIS REQUIREMENTS

The transition of E9-1-1 to NG9-1-1 has caused a shift in the focus of the 9-1-1 GIS work. This new focus has centralized the GIS data model with more of an emphasis toward a higher degree of precision, while continuing its foundation on current, accurate, and standardized GIS data, only now to a higher level of exactness.

The NG9-1-1 GIS requirements have repositioned the focal point from generalizations and interpolation on Street Centerlines and civic addressing, to new and more focused requirements of point specific locations utilizing lat/longs, combined with civic addresses to determine a 9-1-1 caller's location from any communications device and from any location.

Akimeka has adapted the NG9-1-1 requirements into their correction processes and has continued working to improve accuracy, completeness, and quality of the GIS data. The redesigned correction process will also promote a higher level of detail, which helps facilitate data consistency and is an important element for interoperability and information sharing across the PSAPs.

During the month of May 2015, Akimeka has focused on correcting the following areas and has established a baseline moving into NG9-1-1:

NG9-1-1 GIS Data Corrections

GIS Layer Name	Type of Correction	Number of Records Corrected/Modified/Added/Removed	Comments/Details
Address Points	New Address Points	121 Added	Throughout County in 19 Communities
	Spatial Correction	237 Corrected	Corrected location of Address Point, recalculated x/y; majority were located in Captain Cook, Kailua Kona and Waikoloa
	Address	9 Corrected	Majority were in Kamuela and Kapaau
Response Boundaries			
Street Centerlines	New Streets	19 Added	Majority were in Kapaau
	Spatial Correction	110 Corrected	To increase spatial accuracy; majority were in Kamuela
	Range/Parity	7 Corrected	Streets were in Kapaau, Keaau and Volcano
	Split	7 Corrected	Where existing street was intersected by new street
	Deleted	2 Removed	Streets were in Mountain View and Volcano
	MSAG Community	2 Corrected	Streets were in Kapaau

NOTE:

Response Boundaries include any updates to ESNs, Police Beats, Fire Beats, etc. that pertain to dispatch and response.

Hawaii County E9-1-1 Status Report

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LAVA FLOW AND ALTERNATE ROUTES

During the month of September 2014, Akimeka created two (2) new layers detailing the lava flow nearing Pahoa, in an effort to provide the 911 centers on Hawaii a valuable resource in identifying current and proposed lava flows.

1. In light of the potential consequences to public safety from the current lava flow heading toward Pahoa, Akimeka created two new layers to support the PSAP, "Lava Flows" and "Alternate Routes Lower Puna" to be utilized by the PSAPs.
    a. Akimeka created the layer "Lava Flows", which details the current progress of the lava flow as well as the flow forecast.

    b. Akimeka also created the layer "Alternate Routes Lower Puna", which displays the alternate routes in Lower Puna in the event Hwy 130 becomes obstructed by the lava flow.

    c. The two new layers were uploaded into PowerMap on September 23rd 2014 and are available to the dispatchers.

    d. During April 2015, Akimeka continued to monitor the activity of the lava flow and updated and uploaded the Lava Flows layer into PowerMap on April 7th 2015.

    e. Akimeka will continue to monitor the activity of the lava flow and will update the Lava Flows layer as necessary. Akimeka will also monitor the status of the Chain of Craters Road and will add it to the Alternate Routes Lower Puna layer if and when it is rebuilt and available as an alternate route.

    f. Due to the vital importance involved in staying apprised of the lava flow progress heading toward Pahoa and the Pacific Ocean, Akimeka will deliver the Lava Flows and Alternate Routes Lower Puna layers into MapFlex more frequently than the regularly scheduled MapFlex deliverables if necessary.

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MAPFLEX DEPLOYMENT

During the month of May 2015, there was significant progress with regards to finalizing the deployment of the MapFlex system for Hawaii County, Maui County, and Kauai County. For a chronology prior to May, please see the April 2015 Monthly Status Report.

1. On May 6, 2015, Akimeka followed up with Intrado on the deliverables provided for MapFlex systems on April 16th, 2015 to get a status if the layers had been updated in the mapping system.
    a. Later on May 6, 2015, it was confirmed the data had been uploaded.
    b. It was also confirmed that deliverables previously provided that had been on the MapFlex server were not uploaded.
        i. Since there had been updates for Kauai's Police Beats that were overridden, Akimeka expedited a deliverable containing the updates same day and sent out the notification.
2. On May 11, 2015, Intrado notified Akimeka that they had made great progress on the scripts that will enable the automated GIS data updates.
    a. Akimeka followed up with Intrado to inform them they will be sending out the normal bi-monthly deliverables that correspond with all of the other CAD and Mapping systems, starting with Hawaii County on May 12th, Maui on May 13th, and Kauai on May 14th.
3. On May 13th, 2015, Akimeka and Intrado had a brief conference call to do a final confirmation of the process and what items are left outstanding to complete.
    a. All GIS processes and procedures with delivering data by Akimeka had been completed in February 2015.
    b. The script for automation was completed
        i. For delivering data to the MapFlex servers
    c. The script for sending automatic notifications of completion is in progress
4. Akimeka delivered GIS data to the MapFlex system on the following dates in May 2015
    a. **Hawaii County** – May 12th and May 26th
    b. **Maui County** – May 13th and May 27th
    c. **Kauai County** – May 14th and May 28th

POWERMAP

During the May 14, 2015, 9-1-1 Communications Technical and Finance Committee it was discussed that with the successful implementation of the MapFlex system, the uploads for the PowerMap system are scheduled to be phased out by the end of May 2015.

1. The phase out plan for uploads to PowerMap includes the disconnection of the dedicated circuits from Akimeka's office in Kihei, Maui to Hawaii County, Maui County, and Kauai County on May 31, 2015.
    a. This means that Akimeka will have no connection to the PowerMap to perform uploads and that there will be no technical support of PowerMap since it is being replaced with a newer and improved mapping system; MapFlex. This was due to PowerMap surpassing its expected lifecycle and had remained in service for more than 8 years.
2. The phase out plan also includes Akimeka's assistance in the removal of GIS data which contains proprietary information to the PSAPs that must be cared for and also includes IPR information from Akimeka.
    a. Akimeka will be scheduled to assist in this process during the beginning of June 2015.

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MAY 2015

#	Date	Ticket #	Description	Category	Urgency	Comments
1	08/19/14	716	Updated Address	MSAG	Normal	Submitted to Intrado for Correction. RN
2	08/19/14	717	Updated Address	MSAG	Normal	Submitted to Intrado for Correction. RN
3	03/09/15	779	Updated Address	MSAG	Normal	Submitted to Intrado for Correction. RN

Note* There are three (3) opened service requests pending for May 2015.

SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2015

HAWAII				SERVICE REQUEST CATEGORIES			
2015	TOTAL		Open	911 Map		MSAG	
	Created	Closed		Created	Closed	Created	Closed
2014 Carryover*			6				
January	6	10	2	0	0	6	10
February	7	7	2	0	0	7	7
March	14	12	4	0	0	14	12
April	4	5	3	0	0	4	5
May	0	0	3	0	0	0	0
June							
July							
August							
September							
October							
November							
December							
TOTAL	**31**	**34**	**3**	**0**	**0**	**31**	**34**

NOTE:

- *The 2014 Carryover row indicated the number of Service Requests that were opened in 2014; however, were brought forward into 2015 in an effort to track the service request until completion.
- Detailed information on service tickets is available upon request.

Definitions:	Category	Description
	911 Map	Mapping computer not functioning or displaying properly
	MSAG	Discrepancies with 9-1-1 MSAG addresses

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5. E9-1-1 DATABASE SYNCHRONIZATION

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

As part of Akimeka's value added services, Akimeka conducted a quarterly database synchronization audit for Hawaii County in May 2015.

The database synchronization effort included comparing Hawaii County's 9-1-1 MSAG against its GIS Street Centerline data. A total number of **4,434** 9-1-1 MSAG records were reviewed in the audit and analyzed. Results of the database synchronization audit completed on May 1, 2015 for Hawaii County are reported below.

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

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

AUDIT SUMMARY RESULTS – MAY 2015

9-1-1 MSAG TO GIS STREET CENTERLINE AUDIT COMPARISON RESULTS	Notes	As of August 1, 2014		As of November 1, 2014		As of February 1, 2015		As of May 1, 2015	
		9-1-1 MSAG Dated 08-01-14		9-1-1 MSAG Dated 11-01-14		9-1-1 MSAG Dated 02-01-15		9-1-1 MSAG Dated 05-01-15	
		# of Records	%	# of Records	%	# of Records	%	# of Records	%
Total 9-1-1 MSAG Records Reviewed		**4,416**		**4,405**		**4,424**		**4,434**	
Less: 9-1-1 MSAG Exception Records	(1)	6	0.1%	50	1.1%	41	0.9%	46	1.0%
Net 9-1-1 MSAG Records Eligible for Comparison		**4,410**		**4,355**		**4,383**		**4,288**	
Total 9-1-1 MSAG Records Match (9-1-1 MSAG -- GIS Match -- No Corrections Required)		**4,375**	**99.2%**	**4,341**	**99.7%**	**4,380**	**99.9%**	**4,286**	**100.0%**
9-1-1 MSAG -- GIS No Match Minor Correction Required	(2)	25	0.6%	7	0.2%	3	0.1%	2	0.0%
9-1-1 MSAG Record With No GIS Record	(3)	10	0.2%	2	0.0%	0	0.0%	0	0.0%
Total 9-1-1 MSAG Records No Match		**35**	**0.8%**	**9**	**0.2%**	**3**	**0.1%**	**2**	**0.0%**

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AUDIT SUMMARY RESULTS – CONTINUED

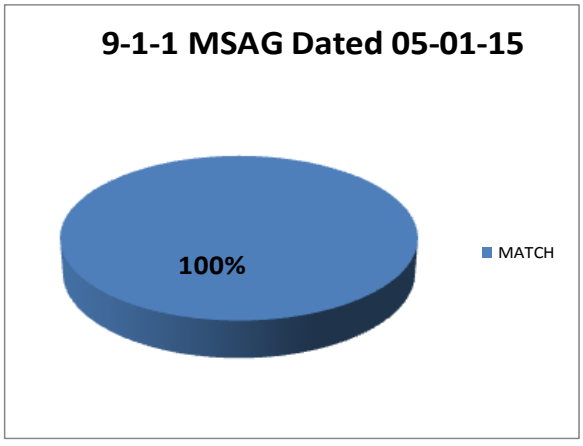
Notes:

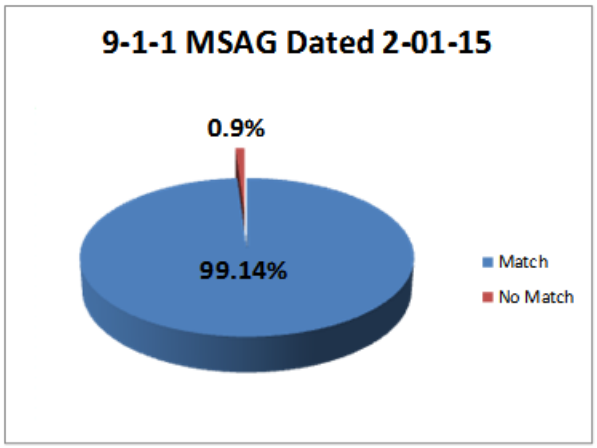
(1) An MSAG Record that will not have a corresponding GIS Street Centerline Record but is required for the routing of E9-1-1 calls (i.e., Emergency Call Box, Foreign Exchange Records, Wireless Shell Records, etc.). No further action is required.

(2) An MSAG Record that requires minor MSAG attention in 9-1-1Net to correct MSAG Records (i.e., Reassignment of an MSAG Community, modification of the Site Address Range, assignment of an ESN, performing a combine or insert of an existing MSAG Record, etc.).

(3) An MSAG Record that does not have a corresponding GIS Record and will require additional research and validation. The GIS Section will assist with this effort.

AUDIT SUMMARY RESULTS COMPARISION – MAY 1, 2015 VS. FEBRUARY 1, 2015





Hawai`i County's level of accuracy or 9-1-1 percentage improved to 100% as of May 1, 2015 to 99.14% as of February 1, 2015.

Hawaii County E9-1-1 Status Report

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AUDIT SUMMARY RESULTS

COMPARISON NOTES:

- There continues to be a tremendous work effort to synchronize the MSAG and GIS data. Akimeka continues to work closely with County Planning to address problem areas. Hawai`i County has worked very hard to assign addresses and name and range street centerlines which have helped facilitate Akimeka's synchronization efforts.
- "MSAG - MSAG with Missing GIS Records" remained consistent (0 to 0) from February 2015 to May 2015 respectively.
- "MSAG - GIS Minor Corrections" were unchanged (2 to 2) from February 2015 to May 2015. This was primarily the result of edits made to the GIS Street Centerlines layer in order to meet new NG9-1-1 requirements. Akimeka will research and correct the remaining two (2) records to ensure they are processed in 9-1-1Net prior to the July 2015 re-analysis.
- "GIS Record With No Matching MSAG Record" was unchanged (2 to 2) from February 2015 to May 2015. This includes GIS records that have no MSAG records, and/or GIS records that do not match the MSAG record exactly. The non-match condition of the remaining 2 records may also be a result in which MSAG records submitted in 9-1-1 Net were not completed prior to the end of month. The MSAG section will monitor these records to ensure they are processed in 9-1-1Net prior to the April re-analysis
- "GIS Record With No MSAG Record" remained consistent (0 to 0) from February 2015 to May 2015 respectively.
- Ongoing maintenance is critical to ensure the database synchronized level of address accuracy is maintained each time an MSAG or GIS record is "touched".

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INVALID MSAG STREETS AND ADDRESS RANGES – ESN X99 RECORDS

At the request of the County of Hawai‘i Chief of Police, Hawaiian Telcom, Inc. (HTI) provided Hawai‘i County and Akimeka, as the PSAP’s agent, with access and visibility to the ESN x99 MSAG records which are “known” invalid streets and address ranges. Results of the data provided are as follows:

HAWAII	Invalid MSAG Records			
	9-1-1 MSAG Dated 02-01-15		9-1-1 MSAG Dated 05-01-15	
	Number of Records	% of Total Inlavid MSAG Records	Number of Records	% of Total Inlavid MSAG Records
ESN 299	940	17.7%	841	16.1%

These invalid MSAG records represent **16.1%** of the Total MSAG records for Hawai‘i County. The individual ALI records associated with these records are provided below.

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

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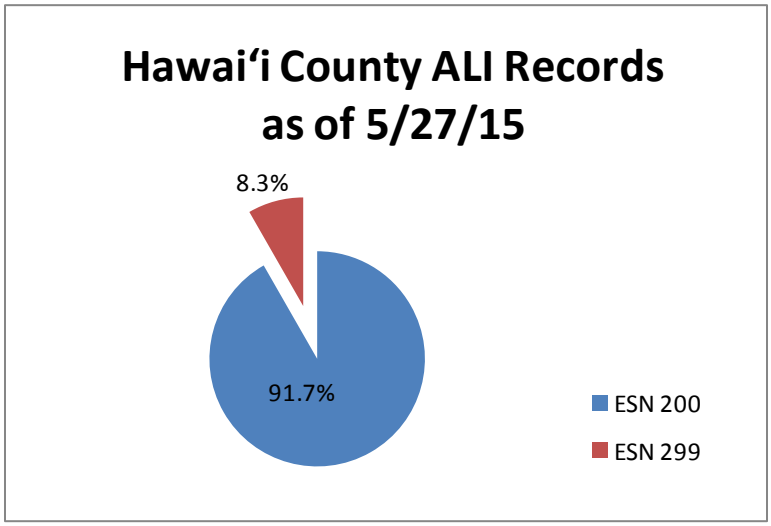
AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT

As part of Akimeka's ongoing database synchronization efforts, Akimeka reviewed and summarized the ALI discrepancy reports by community for Hawai'i County. As of May 27, 2015, **6,064** ESN 299 records, representing **8.3%** of Hawai'i County's total ALI records, require research and corrective action, if needed. These ALI discrepancy reports may result in a No Record Found (NRF) condition during a 9-1-1 call.



The total number of ALI records increased by **six** (73,314 to 73,320) while the number of ESN 299 records decreased from 6,542 to 6,064 (7.3%) from February 2015 to May 2015 respectively. The decrease was due primarily to Akimeka's effort to identify the invalid MSAG records and verify their correct locations against current County GIS data.

Although the ESN 299 is a "valid" MSAG utilized for overflow addressing, the voice portion of the 9-1-1 call will still be routed to the PSAP. However, the address information will present an invalid address/location to the dispatcher or a "No Record Found" condition which may affect the processing of the 9-1-1 response and/or cause confusion or delay during the dispatch of 9-1-1 resources to the caller's location.

The goal, which requires the cooperation among all service providers, is to clean-up all ESN 299 MSAG records to a valid Hawai'i County ESN and valid MSAG address.

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AKIMEKA | HIGH PRIORITY. HIGH IMPACT.

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1. PSAP OPERATIONS

9-1-1 CALL VOLUME – MAY 2015

(Source: Intrado Viper)

9-1-1 Call Volume																	
KAUAI PSAP		Wireline		Wireless				VOIP		Calls With No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
MAY	4,024	599	14.89%	2,685	66.72%	50.73%	49.27%	107	2.66%	9	0.22%	0	0.00%	624	15.51%	0	0.00%

9-1-1 CALL VOLUME – CALENDAR YEAR 2015

9-1-1 Call Volume																	
KAUAI PSAP		Wireline		Wireless				VOIP		Calls with No ALI		Admin Calls		Abandoned Calls		Other Calls	
2015	Total 9-1-1 Calls Processed	No. of Wireline Calls	% of Total Calls	No. of Wireless Calls	% of Total Calls	% of Wireless WPH1 Calls	% of Wireless WPH2 Calls	No. of VoIP Calls	% of Total Calls	No. of Calls with No ALI	% of Total Calls	No. of Admin Calls	% of Total Calls	No. of 9-1-1 Abandoned	% of Total Calls	Other	% of Total Calls
JAN	5,155	790	15.32%	3,349	64.97%	48.40%	51.60%	176	3.41%	21	0.41%	0	0.00%	819	15.89%	0	0.00%
FEB	4,738	706	14.90%	3,102	65.47%	50.06%	49.94%	129	2.72%	27	0.57%	0	0.00%	774	16.34%	0	0.00%
MAR	4,365	715	16.38%	2,823	64.67%	46.33%	53.67%	154	3.53%	15	0.34%	0	0.00%	658	15.07%	0	0.00%
APR	4,471	767	17.15%	2,846	63.65%	50.14%	49.86%	134	3.00%	16	0.36%	0	0.00%	708	15.84%	0	0.00%
MAY	4,024	599	14.89%	2,685	66.72%	50.73%	49.27%	107	2.66%	9	0.22%	0	0.00%	624	15.51%	0	0.00%
JUNE																	
JULY																	
AUG																	
SEPT																	
OCT																	
NOV																	
DEC																	
YTD	22,753	3,577		14,805				700		88		0		3,583		0	
MON AVG	4,551	715	15.73%	2,961	65.10%	49.13%	50.87%	140	3.06%	18	0.38%	0	0.00%	717	15.73%	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 not included in the total Wireline and Wireless counts respectively.**
- **All VoIP (Voice over Internet Protocol) type of 911 calls is combined in the Call Volume statistic.**
- ***Calls with no Ali 0.22% - Statewide average = 1.24%***

Kauai County E9-1-1 Status Report

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FYI.....FOR YOUR INFORMATION

FYI ..... For Your Information			
The FCC (Federal Communications Commission) Standards for Wireless 911 Indoor & Outdoor Location Accuracy:			
"Regarding horizontal location CMRS providers shall provide (1) dispatchable location or (2) x/y location within 50 meters of the wireless 911 call." source : FCC 15-9			
FCC timeframe:			
Within 2 years	40 % of all wireless 911 calls		
Within 3 years	50 % of all wireless 911 calls		
Within 5 years	70 % of all wireless 911 calls		
Within 6 years	80 % of all wireless 911 calls		
"Regarding vertical location, CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology.			
FCC timeframe:			
Within 3 years	All CMRS providers must make uncompensated barometric data available to PSAPs from any handset		
	that has the capability to deliver barometric sensor data.		
Within 3 years	Nationwide CMRS providers must use an independently administered and transparent test bed process		
	to develop a proposed z-axis accuracy metric, and must submit the proposed metric to the Commision		
	for approval.		
Within 6 years	Nationwide CMRS providers must deploy either (1) dispatchable location, or (2) z-axis technology		
	that achieves the Commision-approved z-axis metric, in each of the top 25 CMAs.		
Within 8 years	Nationwide CMRS providers must deploy dispatchable location or z-axis technology in accordance		
	with the above benchmarks in each of the top 50 CMAs.		
Definitions:			
Barometric Data	Elevation data calculated from atmospheric conditions		
CMAs	Cellular Market Areas		
CMRS	Commericial Mobile Radio Service (vendors ie. AT&T, Verizon, Sprint, T-Mobile, etc…)		
Dispatchable Location	A location delivered to the PSAP by the CMRS provider with a 911 call that consists of street address		
	of the calling party, plus additional information such as suite, apartment or similar information		
	necessary to adequately identify the location of the calling party. Civic addresses will be corroborated		
	against other location information prior to delivery of the address with the 9-1-1 call to the PSAP.		
MAC Address	(Media Access Control) A location identifier of a Wi-Fi access point.		
z-axis	Altitude (height or elevation) of the 911 callers device. (x/y/z)		

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WIRELESS PSAP TESTING – MAY 2015

KAUAI COUNTY - MAY 2015						
Date	**WSP**	**Sites Tested**	**Sectors Tested**	**Tested By:**	**Test Pass/Fail**	**Comments:**
None						

NOTES:

- There was no scheduled Wireless 911 testing for the month of May 2105.
- AT&T performed 58 VoLTE test calls statewide in May 2015

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2. MSAG (MASTER STREET ADDRESS GUIDE)

CURRENT MONTH – MAY 2015

KAUAI COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
MAY	7	3	0	2	2	0	117

MSAG CURRENT MONTH NOTES:

A total of sixty-seven (**67**) MSAG transactions were processed in 9-1-1 Net during the month of May 2015. Seven (7) requests were processed relating to the MSAG database, and sixty (**60**) requests relating to the ALI database (see ALI Transaction chart on next page). There were **117** customer ANI/ALI (telephone/address) records updated as a direct result.

KAUAI COUNTY	9-1-1 NET REQUESTS						
	MSAG TRANSACTIONS						
2015	Total	Change	Combined	Delete	Insert	Split	Customer Addresses Affected
JAN	9	7	0	1	1	0	116
FEB	88	77	2	1	2	6	1,064
MAR	3	0	0	3	0	0	35
APR	11	2	0	2	6	1	58
MAY	7	3	0	2	2	0	117
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	**118**	**89**	**2**	**9**	**11**	**7**	**1,390**
AVG PER MONTH	**24**	**18**	**0**	**2**	**2**	**1**	**278**

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ALI TRANSACTIONS CURRENT MONTH – MAY 2015

KAUAI COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR (A)	ALI-DR (B)	VoIP DR (C)	TN CR	ALI-DR	VoIP DR
MAY	60	60	0	0	277	0	0

Definitions
(A) **T**elephone **N**umber **C**hange **R**equest - Represents address corrections on a specific TN or group of TNs. These "invalid" TNs usually have an associated ESN 499 attached to them which indicates the need for validation.
(B) **A**utomatic **L**ocation **I**nformation **D**iscrepancy **R**ecord - Represents an address discrepancy discovered during a live 9-1-1 call, from a landline. These record corrections are treated with a higher priority and should be processed within 48 hours as a general guideline.
(C) **V**oice **o**ver **I**nternet **P**rotocol **D**iscrepancy **R**ecord - 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.

ALI TRANSACTIONS CURRENT MONTH NOTES:

Sixty (**60**) Telephone Number Change Requests (TN CR) transactions were processed with MSAG valid addresses, as a result of the ESN 299 clean-up effort. There were no ALI Discrepancy Requests (ALI DR) processed in 9-1-1 Net.

OPEN DISCREPANCY RECORDS STATUS:

- **There are 277 Open TN CR Transactions as of May 31, 2015**
- **Refer to chart in the next section "TNCR Current Status"**

The Open TN CR transactions are a direct result of the ESN 499 clean-up and are awaiting approval from Hawaiian Telcom, Inc. Akimeka continues to monitor and track the progress of the Referred records. Once a telephone number is submitted to Intrado for correction, it must be verified against HT records and/or approved by the customer. Intrado's internal process requires calling each telephone customer individually for approval to update an address in the 9-1-1 database.

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There are no Open ALI-DRs as of May 31, 2015

There are no Open VoIP DRs as of May 31, 2015

ALI TRANSACTIONS YEAR-TO-DATE (YTD) SUMMARY – 2015

KAUAI COUNTY		9-1-1 NET REQUESTS					
		ALI TRANSACTIONS SUBMITTED			Open Discrepancy Records as of Report Month End		
2015	TOTAL	TN CR	ALI-DR	VoIP DR	TN CR	ALI-DR	VoIP DR
JAN	69	69	0	0	201	0	0
FEB	2	2	0	0	211	211	0
MAR	35	35	0	0	227	0	0
APR	28	28	0	0	220	0	0
MAY	60	60	0	0	277	0	0
JUNE							
JULY							
AUG							
SEPT							
OCT							
NOV							
DEC							
TOTAL YTD	194	194	0	0			
AVG PER MONTH	39	39	0	0			

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TNCR (TELEPHONE NUMBER CHANGE REQUEST) CURRENT STATUS – MAY, 2015

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 Intrado 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)				
PSAP	**TOTAL TNCR RECORDS SUBMITTED BY AKIMEKA**	**OPENED TNCRS PENDING FURTHER ACTION BY INTRADO**	**OPENED TNCRS REFERRED TO TELCO BY INTRADO**	**TOTAL UNOPENED TNCR RECORDS**
KAUAI	**277**	**44**	**53**	**180**

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

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3. GEOGRAPHIC INFORMATION SYSTEM (GIS) – MAY 2015

MAPPING LAYERS UPDATED (PART I)

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

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/29/2015		Corrected MSAG Community and ESN to four (4) address points (4100, 4124, 4150 and 4200 Kapuna Rd) in Kilauea.
	5/29/2015		Corrected MSAG Community and ESN to two (2) address points (7815 and 7819 Koolau Rd) in Moloaa.
		05/28/15	
	5/28/2015		Corrected ESN to one (1) address point (505550 Kuhio Hwy) in Hanalei.
	5/28/2015		Spatially corrected one (1) address point (4300 Papalina Rd 2) in Kalaheo.
	5/28/2015		Added thirty (30) address points in Kalaheo.
	5/20/2015		Corrected address to one (1) address point (404350 Kuhio Hwy) in Anahola.
	5/20/2015		Spatially corrected nine (9) address points in Haena.
	5/20/2015		Added location name to one (1) address point (507132 Kuhio Hwy) in Haena.
	5/20/2015		Spatially corrected two (2) address points (4387 Amaama Rd and 505468 Kuhio Hwy) in Hanalei.
	5/20/2015		Corrected location name to one (1) address point (4387 Amaama Rd) in Hanalei.
		05/14/15	
	5/13/2015		Spatially corrected two (2) address points (3779 and 3815 Pilipoli Rd) in Anahola.
	5/13/2015		Added alias to one (1) address point (4614 Haleilio Rd C) in Wailua.
	5/13/2015		Added three (3) address points (367, 376 and 386 Keoki Aina Pl) in Wailua.
	5/8/2015		Corrected address to two (2) address points (3132 and 3136 Ninini Point St) in Nawiliwili.
	5/5/2015		Corrected address to six (6) addresses in Kekaha.
	5/5/2015		Corrected address to two (2) addresses (4460 Ikena Pl 34 and 4370 Kalaheo Dr 1) in Kalaheo.
	5/5/2015		Spatially corrected eight (8) addresses in Kekaha.
	5/5/2015		Spatially corrected two (2) addresses (4460 Ikena Pl 34 and 4370 Kalaheo Dr 1) in Kalaheo.
	5/5/2015		Added fifty-one (51) addresses in Kalaheo.
	5/5/2015		Added thirty-two (32) addresses in Kekaha.
	5/4/2015		Corrected address to one (1) address (303400 Kuhio Hwy D) in Lihue.
	5/4/2015		Corrected address to three (3) addresses (3322 Waoke St G, 5220 Paanau Rd A and 5230 Paanau Rd E) in Koloa.
	5/4/2015		Spatially corrected four (4) addresses (3985 Ohuohu St, 5220 Paanau Rd A, 5230 Paauau Rd E and 3322 Waoke St G) in Koloa.
	5/4/2015		Spatially corrected one (1) address (3120 Jerves St) in Lihue.
	5/4/2015		Spatially corrected one (1) address (2430 Hulemalu Rd) in Niumalu.
	5/4/2015		Spatially corrected one (1) address (2330 Hoohu Rd) in Poipu.

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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.

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Address Points	5/4/2015		Added two (2) addresses (4205 and 4223 Malua St) in Anahola.
	5/4/2015		Added twenty-one (21) address points in Koloa.
	5/4/2015		Added eleven (11) addresses in Lihue.
	5/4/2015		Added four (4) addresses (2430 Hulemalu Rd 1, 2, 3 and 4) in Niumalu.
	5/4/2015		Added twenty-eight (28) addresses in Poipu.
Airports			
Bridges			
Building Footprints			
Bus Stops			
Churches			
Coastal Names			
Coastline			
Common Places			
Correctional Facilities			
Emergency Callboxes			

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MAPPING LAYERS UPDATED (PART III)

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

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Emergency Operation Centers			
Emergency Shelters			
ESZ/ESN	5/29/2015		Corrected boundary to four (4) ESNs (405, 406, 407 and 408).
	5/28/2015		Corrected boundary to two (2) ESNs (402 and 403).
		05/14/15	
	5/8/2015		Corrected boundary to two (2) ESNs (421 and 422).
Fire Beats			
	5/29/2015		Corrected boundary to two (2) Fire Beats (1 and 8).
Fire Districts			
Fire Response Areas			
	5/29/2015		Corrected boundary to two (2) Fire Response Areas (10 and 80).
		05/14/15	
Fire Stations			
Food & Beverage			
Gas Stations			
Gate Codes			
Government Buildings			
Harbors			

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MAPPING LAYERS UPDATED (PART IV)

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

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server** **Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Helipads			
Hiking Trails			
Hospitals			
Hydrants			
Hyrdology Layers: **Dams** **Ponds** **Streams** **Waterfalls**			
Incident Response Areas			
Lodging			
Major Roads			
Medic Beats			
Medic Districts			
Medic Response Areas			
Medic Stations			

Kauai County E9-1-1 Status Report

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MAPPING LAYERS UPDATED (PART V)

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

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Medical Facilities			
Milepost Markers			
MSAG Communities	5/29/2015		Corrected boundary to three (3) MSAG Communities (Kalihiwai, Kilauea and Moloaa).
	5/28/2015		Corrected boundary to two (2) MSAG Communities (Hanalei and Wainiha).
		05/14/15	
	5/8/2015		Corrected boundary to two (2) MSAG Communities (Lihue and Nawiliwili).
Net Junctions			
Ocean Rescue Boundaries			
Ocean Safety			
Parcels			
Parks			
Parks Polygon			
Points of Interest		**05/28/15**	
	5/20/2015		Spatially corrected two (2) points of interest (Anahola Post Office and Duanes Ono Char Burger) in Anahola.
	5/20/2015		Corrected address to one (1) point of interest (Anahola Hawaiian Homes Park) in Anahola.
	5/20/2015		Spatially corrected one (1) point of interest (Eleele Park in Eleele.
	5/20/2015		Corrected address to one (1) point of interest (Eleele Park) in Eleele.

Kauai County E9-1-1 Status Report

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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.

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Points of Interest	5/20/2015		Spatially corrected one (1) point of interest (Mediterranean Gourmet) in Haena.
	5/20/2015		Spatially corrected five (5) points of interest in Hanalei.
	5/20/2015		Corrected address to three (3) points of interest (Ching Young Village, Hanalei Pavilion and Waioli Beach Park) in Hanalei.
	5/20/2015		Spatially corrected four (4) points of interest (Hanamaulu Post Office, Hanamaulu Restaurant Tea House, King Kaumualii Elementary and King Kaumualii Elementary Shelter) in Hanamaulu.
	5/20/2015		Corrected MSAG Community to one (1) point of interest (Hilton Kauai Beach Resort) in Wailua.
	5/20/2015		Spatially corrected seven (7) points of interest in Hanapepe.
	5/20/2015		Corrected address to two (2) points of interest (Bobbies Restaurant and Veterans Cemetery) in Hanapepe.
		05/14/15	
	5/13/2015		Added one (1) point of interest (Lihue Gardens Elderly) in Lihue.
	5/5/2015		Added one (1) point of interest (Backstreet Billiards) in Lihue.
Police Beats			
Police Districts			
Police Response Areas		**05/14/15**	
	5/8/2015		Corrected boundary to two (2) Police Response Areas (2 and 3).
Police Stations			
Post Offices			
Schools			

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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.

KAUAI COUNTY			
Type of Layer	**Akimeka GIS Server Date Created/ Edits Performed**	**Date GIS Delivered**	**Other/Remarks**
CRITICAL 9-1-1 PUBLIC SAFETY LAYERS FOR DISPATCH & RESPONSE (Listed Alphabetically)			
Street Centerlines	5/29/2015		Added alias to one (1) street segment of Kalihiwai Rd in Kalihiwai.
		05/28/15	
	5/22/2015		Corrected street name to one (1) street centerline (Kokee St) in Kokee.
	5/22/2015		Corrected range to one (1) street centerline (Kokee St) in Kokee.
	5/21/2015		Spatially corrected sixty (60) street centerlines in Anahola.
	5/20/2015		Spatially corrected eighteen (18) street centerlines in Anahola.
		05/14/15	
	5/14/2015		Spatially corrected three (3) street segments (Hokualele Rd, Hui Rd and Puu Hale Loop) in Anahola.
	5/13/2015		Flipped one (1) segment of Pilipoli Rd in Anahola.
	5/13/2015		Added one (1) segment of Keoki Aina Pl and split one (1) segment of Haleilio Rd in Wailua.
	5/8/2015		Split one (1) street segment of Hoolaulea Way in Nawiliwili.
	5/8/2015		Deleted six (6) street centerlines in Lihue.
	5/4/2015		Corrected range to one (1) street segment of Konane St in Lihue.
Subdivisions			
Tow Jurisdictions			
Tsunami Evacuation Zones			
Tsunami Heights			
Waste Water Plants			
WSP Cell Sectors		**05/28/15**	
	5/28/2015		Per VZW CRS
		05/14/15	
WSP Cell Towers		**05/28/15**	
	5/28/2015		Per VZW CRS
		05/14/15	

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NOTE:

- **The Parcels layer is provided by Kauai County. Akimeka performs edits on the spatial information of the layer for 9-1-1 purposes. Changes to the attribute table are made when needed. The Parcels layer uploaded to the PSAP GIS server is intended for 9-1-1 purposes only and should not be disseminated to other county agencies.**
- **Every time the GIS Update tool is used, Indexes and Cache have to be built. The Positron system configurator is adjusted every time a layer is loaded in the PowerMap database. Each PSAP position is updated accordingly.**

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
5/28/2015	Address Points, Street Centerlines, Geofile for Street Centerlines, Points of Interest, Geofile for Points of Interest, WSP Cell Sectors and WSP Cell Towers to GeoComm.
5/28/2015	MapFlex deliverable which included the following updated layers: Address Points, Cell Sectors, Cell Towers, Common Places and Street Centerlines.
5/14/2015	Performed Powermap update which included: Address Points, Street Centerlines, WSP Cell Sectors, WSP Cell Towers and Points of Interest.
5/14/2015	Address Points, Street Centerlines, Geofile for Street Centerlines, Points of Interest, Geofile for Points of Interest, WSP Cell Sectors, WSP Cell Towers, ESN and MSAG Communities to GeoComm.
5/14/2015	MapFlex deliverable which included the following updated layers: Address Points, Cell Sectors, Cell Towers, Common Places, ESN, Fire Response Areas, Medic Response Areas, MSAG Communities, Police Response Areas and Street Centerlines.

Kauai County E9-1-1 Status Report

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GPS DATA COLLECTION AND SITE VERIFICATION

During the month of April 2015, Akimeka deployed one of their GIS Analysts to Kauai to collect and verify data that could only be acquired and verified while on location.

1. During April 2015, Akimeka initiated a data collection and verification plan, in order to verify and acquire data that could only be conducted through on-site visits.

    a. Akimeka's GIS Analyst was on Kauai for two full days; on April 27th and April 28th to collect missing addresses, verify specific address locations, collect new street centerline segments and verify specific street centerline segments with high-tech GPS equipment.

    b. During this process, Akimeka collected 182 total addresses throughout Kauai in eight different communities, verified that two addresses need to switch places with each other via spatial correction, collected three street centerline segments in a new and popular resort area, verified that six street centerlines need to be deleted near the Lihue Airport, verified that the direction of one of the street segments needs to be flipped to ensure proper geocoding, and collected a point of interest for a new night-time sporting and entertainment venue in Lihue.

    c. During the month of May 2015, the data that was collected and verified on April 27th and April 28th was incorporated into the GIS data and was uploaded into PowerMap and delivered into MapFlex and made available to the dispatchers and was also delivered to the FTP site to be used in the GeoComm system.

BRIDGES:

During the month of September 2014, per special request of the Kauai Fire Department, Akimeka began updating the Bridges layer with weight limits to be used in their MDTs Map.

1. During September 2014, Akimeka began updating the weight limits to the Bridges layer based on county and state databases provided by the Kauai Fire Department.

    a. During this process, bridges were added to the layer to make the layer as comprehensive as possible. Spatial corrections were made and weight limits were added to the attributes as well as Fire Beats, Fire Response Areas, Height Limitations and Date Updated.

    b. Akimeka is currently awaiting finalized information from the County regarding the weight attribute fields and weight measurement scales as well as information on any other attributes that should be included in the Bridges layer.

    c. The updates to the Bridges layer will be completed as soon as Akimeka receives the finalized information and will be delivered into MapFlex and be available to the dispatchers as well as be delivered to the FTP site to be used in the GeoComm system at that time.

    d. As of May 31, 2015, there have not been any updates provided to Akimeka that can be incorporated at this time.

        i. The status remains as is until further information can be provided.

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MAPFLEX DEPLOYMENT:

During the month of May 2015, there was significant progress with regards to finalizing the deployment of the MapFlex system for Hawaii County, Maui County, and Kauai County. For a chronology prior to May, please see the April 2015 Monthly Status Report.

1. On May 6, 2015, Akimeka followed up with Intrado on the deliverables provided for MapFlex systems on April 16th, 2015 to get a status if the layers had been updated in the mapping system.
    a. Later on May 6, 2015, it was confirmed the data had been uploaded.
    b. It was also confirmed that deliverables previously provided that had been on the MapFlex server were not uploaded.
        i. Since there had been updates for Kauai's Police Beats that were overridden, Akimeka expedited a deliverable containing the updates same day and sent out the notification.
2. On May 11, 2015, Intrado notified Akimeka that they had made great progress on the scripts that will enable the automated GIS data updates.
    a. Akimeka followed up with Intrado to inform them they will be sending out the normal bi-monthly deliverables that correspond with all of the other CAD and Mapping systems, starting with Hawaii County on May 12th, Maui on May 13th, and Kauai on May 14th.
3. On May 13th, 2015, Akimeka and Intrado had a brief conference call to do a final confirmation of the process and what items are left outstanding to complete.
    a. All GIS processes and procedures with delivering data by Akimeka had been completed in February 2015.
    b. The script for automation was completed
        i. For delivering data to the MapFlex servers
    c. The script for sending automatic notifications of completion is in progress
4. Akimeka delivered GIS data to the MapFlex system on the following dates in May 2015
    a. **Hawaii County** – May 12th and May 26th
    b. **Maui County** – May 13th and May 27th
    c. **Kauai County** – May 14th and May 28th

POWERMAP

During the May 14, 2015, 9-1-1 Communications Technical and Finance Committee it was discussed that with the successful implementation of the MapFlex system, the uploads for the PowerMap system are scheduled to be phased out by the end of May 2015.

1. The phase out plan for uploads to PowerMap includes the disconnection of the dedicated circuits from Akimeka's office in Kihei, Maui to Hawaii County, Maui County, and Kauai County on May 31, 2015.
    a. This means that Akimeka will have no connection to the PowerMap to perform uploads and that there will be no technical support of PowerMap since it is being replaced with a newer and improved mapping system; MapFlex. This was due to PowerMap surpassing its expected lifecycle and had remained in service for more than 8 years.

2. The phase out plan also includes Akimeka's assistance in the removal of GIS data which contains proprietary information to the PSAPs that must be cared for and also includes IPR information from Akimeka.
    a. Akimeka will be scheduled to assist in this process during the beginning of June 2015.

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4. SERVICE REQUESTS TRANSACTIONS

OPEN SERVICE REQUESTS – MAY 2015

#	Date	Ticket #	Description	Category	Urgency	Comments
			None			

NOTE:

There are no open service requests for May 2015.

SERVICE REQUEST YEAR-TO-DATE (YTD) SUMMARY – 2015

KAUAI				SERVICE REQUEST CATEGORIES			
2015	TOTAL		Open	911 Map		MSAG	
	Created	Closed		Created	Closed	Created	Closed
2014 Carryover*			0				
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0
June							
July							
August							
September							
October							
November							
December							
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**0**

NOTE:

- *The 2014 Carryover row indicated the number of Service Requests that remained opened in 2014.
- Detailed information on service tickets is available upon request.

Definitions:	Category	Description
	911 Map	Mapping computer not functioning or displaying properly.
	MSAG	Discrepancies with 9-1-1 MSAG addresses

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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 Data Synchronization Report – July 2015

AUDIT SUMMARY RESULTS – 2015 -- TBA

AUDIT SUMMARY RESULTS – APRIL 1, 2015 MSAG VS. JULY 1, 2015 MSAG -- TBA

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

AUTOMATIC LOCATION IDENTIFICATION (ALI) DISCREPANCY REPORT -- TBA