



ALABAMA MEDICAID AGENCY

State Medicaid Health Information Technology Plan

2021 Environmental Scan - Final

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VERSION HISTORY

Version	Date Submitted	Notes
1.0	3/5/2011	Original SMHP submission for Environmental Scan
2.0	4/15/2016	Updated SMHP submission for Environmental Scan
3.0	3/9/2022	Final SMHP submission for Environmental Scan

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1. SMHP SECTION A: ALABAMA'S "AS IS" HEALTH-IT LANDSCAPE

2.0 Alabama's 2021 Environment Scan

Alabama has used to use a consistent approach to determine and monitor the health-IT landscape including readiness of providers to use and leverage the State Health IT investment for improving outcomes through Interoperability.

In 2011, the baseline 2010 environmental scan provided in the initial A-SMHP confirmed that Alabama providers had limited or no experience with electronic health records (EHRs) and no health information exchange capability. The functionality and infrastructure required to exchange information to promote interoperability in a purposeful and meaningful way did not exist.

In 2015 Alabama conducted an updated environmental scan with included those results in the SMHP annual update in April 2016, The updated 2015 environmental scan demonstrated the progress Alabama had made in implementing Health IT infrastructure. The previous 2015 survey showed:

- There were 80+ different EHRs in Alabama EP-type locations.
- Many providers have low technical capabilities in underserved areas.
- Hospitals are much further along because they have more financial resources, greater technical staffing and experience and have a better understanding of the value.
 - 88% of those represented utilize EHR systems for practice management and reporting.
 - 51% of those represented share PHI data with others; 49% do not share PHI/data.
 - Of those who share PHI data, 66% use Direct Secure Messaging, 24% use other means.
 - 63% of those represented know about One Health Record®, only 10% use the HIE for sharing.

As noted in the in an earlier update, as of September 30, 2017, Alabama had 107 provider type connections across the State with very little demonstrated value for participants.

As reported in the previous SMHP updates, Alabama re-assessed the State Health IT strategy, and re-launched the State HIE program, Alabama One Health Record® (ALOHR), in January 2018. Since then, Alabama has experienced tremendous growth in four (4) key areas:

- (1) Infrastructure.
- (2) Connectivity
- (3) Utilization.

(4) Interoperability.

The purpose of Alabama's 2021 Environment Scan will provide an update in these four (4) key areas since the 2015 update.

INFRASTRUCTURE

Alabama switched the ALOHR HIE platform in July 2016 with InterSystems Healthshare Unified Health Record solution. This platform provides Alabama with a single, robust standards-based, technological foundation with the long-term capabilities within the HIE services stack, (MPI/RLS, Portals, DSM, Analytics, PHI exchange with encompassing flexibilities to attain the needed economies for scale for growth.

The transition to the ISC HealthShare took over a year, but did position the Alabama for the 2018 relaunch with an improved HIE Services offering.

In April 2020, Alabama upgraded the HIE platform to ISC HealthShare version 2020.02, thereby implementing the Fast Healthcare Interoperable Resource (FHIR 4.0) within the State HIE framework to enable the latest standard for interoperable exchange.

In 2014 Alabama One Health Record® launched its website, www.onehealthrecord.alabama.gov in a partnership with Alabama Department of Public Health (ADPH) . ASMA took sole ownership of the website in 2017 with both a full redesign and relocation to an ASMA controlled environment. The website has been maintain as focus point for information or both providers and prospective participants.

Today, the website is undergoing another redesign to accommodate support for the Agency's patient access initiatives, including a counter to track the number of times the website is used.

CONNECTIVITY

Since the last update scan, ALOHR has become an integrated on both a local/regional and a national exchange partner with connections to other state HIE's, Civitas For Health Patient Centered Data Home (PCHD), the VA & DoD via eHx, Social Security Administration (SSA), and CareEquality.

In the most recent months, our integrations with Municipal first responders, FQHC's, Specialty clinics, and Rural clinics has become a focus for interoperable exchange endpoints.

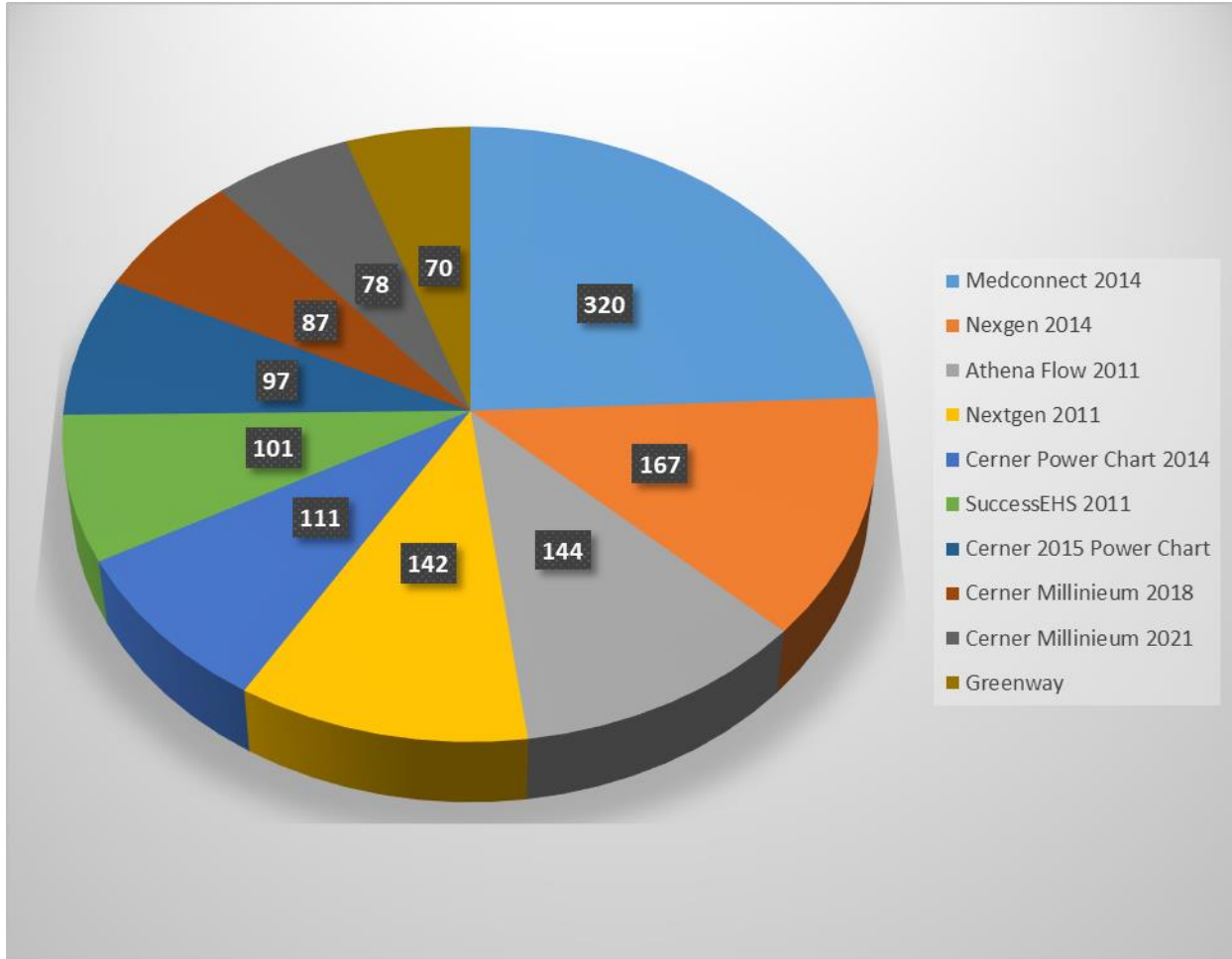
Table 1.0 illustrates the overall growth of ALOHR participants from our baseline established in January 2018.

Table 1.0 ALOHR Participant Growth since January 2018.

Type of Connection	Jan 2018 (baseline)	December 2021
Clinics/Provider Facilities/Care Managers	63	512
FQHC's/RHC's/IHN's (6 currently W-I-P)	0	4/75
Hospitals (3 currently W-I-P)	8	45
State HHS Agency Facilities (ADPH & ADRS-CRS)	0	84
Peer State HIEs	0	26
National Network Connections	0	4
Federal Government (SSA, DoD, and VA)	0	3
MCO/ACO Care Groups (4 currently WIP)	0	6
Alabama Coordinated Health Networks (ACHN)	0	7
Home Health Organizations (1) & Skilled Nursing Facilities (2)	0	3
Municipalities (Fire and Rescue)	0	1

Since 2011, the number of varying EHR systems used by 3,323 Medicaid providers has grown to 309 varying CEHRT systems. The top ten EHR systems and their respective counts are listed in Table 2.0 comprise 40% of the total used as of 12/31/2021.

Table 2.0 Top Ten EHR's systems used by Medicaid Providers



The complete CEHRT listing and counts by CMS ID are listed in the Appendix A.

Table 3.0 Alabama One Health Record Metric Update

Number of providers successfully connected to HIE each year	71	342	362	485	10,074		This number includes those providers accessing ALOHR through the eHx cross community gateways, including Care Equality Network, that might reside outside Alabama geographic boundaries .
Percentage of total providers possible successfully connected to HIE each year	0.80%	4.27%	4.50%	6.00%			
Number of Medicaid providers successfully connected to HIE each year	71	342	362	485	3745		This number includes those providers accessing ALOHR through the eHx cross community gateways, including Care Equality Network, that might reside outside Alabama geographic boundaries .
Percentage of total Medicaid providers possible successfully connected to HIE each year	2.36%	11.40%	12.06%	16.00%	47.00%	8000	
Number of Hospitals successfully connected to HIE each year	7	12	13	31	45		
Percentage of total Hospitals possible successfully connected to HIE each year	7.95%	13.63%	14.77%	35.00%	52.00%	88	
Number of FQHC's successfully connected to HIE each year	0	0	0	1	5		
Percentage of total FQHC's possible successfully connected to HIE each year	0	0	0	10%	33%	15	
Number of Rural Health Center's (RHC's) successfully connected to HIE each year	0	0	0	0	1		
Percentage of total RHC's possible successfully connected to HIE each year	0	0	0	0	50%	2	
Total number of Medicaid covered lives with data in the HIE each year	1,052,000	1,118,000	1,120,000	1,140,000	1,153,858		
Percentage of total Medicaid covered lives possible	87.00%	93.00%	93.00%	95.00%	97.00%	1.2M	
Total number of lives in the state with data in the HIE each year	1,052,000	2,280,000	3,100,000	3,500,000	4,902,903		
Percentage of total lives in the State	21.90%	47.50%	64.50%	72.00%	94.00%	5.23M	

UTILIZATION

Since 2018, Alabama’s utilization of health IT investments and infrastructure grown steadily as new opportunities were presented.

For Calendar 2021, the statistics to illustrate this growth are as follows:

- ❖ Patient Queries – 4,612 provider groups ran 2,348,731 queries retrieving 1.5M clinical documents.
 - A monthly snapshot shows an average 546 providers generate 200K queries, pulling 147,000 clinical documents.
 - 7,776,383 clinical documents published/available in the HIE repository.
- ❖ Alabama Patient Information and Event Notification System (ALPINES) from CY 2021:
 - Hospital ADT Discharges (A03) Received: 3, 219,252 (35 Hospitals)
 - ALPINES (A03) Alerts Notifications Sent: 879,876 (28% of the total ADT's recv'd)
 - 643,615 (for the Medicaid Population of 1,172,085)
 - 236,261 (for Non-Medicaid Population of 618,129)

The number unique patient registrations with the ALOHR Master Person Index (MPI) is 4, 902,903 with the know payer population breakdown being the following:

Alabama Medicaid:	1,153,858
Medicare ACO/MCO's:	440,759
Commercial Pay Plans:	203,563

INTEROPERABILITY

In October 2020, Alabama developed their health information technology HITECH-to-MES transition plan that included the integration of the State's Health Information Exchange, Alabama One Health Record® (ALOHR), into the Medicaid Enterprise System (MES) framework as a services component.

This strategy allowed Medicaid to support data exchange and recipient care coordination for the Alabama Coordinated Health Networks (ACHN) and other programs.

CMS approval of the Medicaid's HITECH transition strategy allowed ALOHR to pursue and achieve Outcomes Based Certification.

On a letter dated September 17, 2021, AMA officially received CMS certification for ALOHR HIE system for the HIE outcomes submitted. The HIE outcomes are:

Outcome 1: Ability to show Hospital utilization frequency and key clinical measures for each Medicaid recipient in the Alabama care networks to improve insight and understanding into the coordinated care plan performance of services and identify the frequency of Hospital encounters and transitions of care clinical indicators for improved health outcomes.

Outcome 2: Ability to provide a reportable data to Medicaid detailing frequency and consistency on Hospital ADT and Transitions of Care (TOC) data content thereby improving data provenance and quality review of Medicaid's clinical data, and by identifying sources of exchange of ADT and TOC summaries. This enables Medicaid to improve the quality and consistency of clinical information to gauge and measure the recipient outcomes.

Outcome 3: Ability to flag each Medicaid recipient participating both in the Alabama Coordinated Health Network (ACHN), thereby reducing Emergency Room and hospital readmissions by improving care coordination with more timely patient engagement by their community care team.

To further leverage the investments made by Medicaid in Health IT and IT systems, ALOHR serves as the cornerstone of Interoperability compliance by developing and launching a Patient Access mobile device application as outline in the 21st Century Cure Act.

The integration of the State HIE, with both their eligibility system CARES, and the FA MMIS claims processing platform, allows a recipient to access their clinical and claims information from their mobile device.

This foundation will be utilized to support ASMA's further interoperability efforts for provider directory, payer-to-payer care plan exchange, prior authorizations, and patient demographic updates such as residential and mailing addresses.

APPENDIX A

Complete CEHRT listing for Alabama

As of 12/31/2021

Top Ten EHR's used by Alabama Medicaid providers under the PI program. (40% of total)

Count	CMS ID	Vendor	Type	Product Version	ONC CEHRT
320	1314E01P5DOUEAV	Medconnect 2014	Ambulatory	Complete EHR v2.3 2014	2014 CEHRT
167	1314E01PHNJKEA5	Nexgen 2014	Ambulatory	Complete EHR v. 5.8.1 2014	2014 CEHRT
144	30000001SVJFEAK	Athena Flow 2011	Ambulatory	Complete EHR v9.5 2011	2011 CEHRT
142	30000001svgweas	Nextgen 2011	Ambulatory	Complete EHR	2011 CEHRT
111	0015HCQ7KSY3H3U	Cerner Power Chart 2014	Ambulatory	Power Chart, et al.	2014 CEHRT
101	30000001SWGTEAS	SuccessEHS 2011	Ambulatory	Complete EHR	2011 CEHRT
97	0015EP9PEB5WAM5	Cerner 2015 Power Chart	Ambulatory	Power Chart, et al.	2015 CEHRTversion
87	0015ERD5AY2T42Z	Cerner Millinium 2018	Ambulatory	2018 Cures Update	2018 CEHRT version
78	0015E4DW4KV3TBS	Cerner Millinium 2021	Ambulatory	2015 Cures Update	2018-2021 CEHRT versions
70	0014ENT530HCA79	Greenway	Ambulatory	Prime Suite EHR	2014 CEHRT

Remaining CEHRT's used in Alabama (60% of total)

70	A014E01KIGRMEAN	Meditouch 4.0	2014 CEHRT
56	0015EKM1BUB9VGF	Medconnect v3.0 2015	2015 CEHRT
56	30000001U914EAC	MediSYS v1.0 2011	2011 CEHRT
49	0014ERU37168YHT	Athena Health	2014 CEHRT
45	1314E01RMOA2EAL	Virence Health Technologies	2014 CEHRT
43	A014E01MC5KQEAB	CureMD SMART cloud	2014 CEHRT
42	1314E01PI0MPEAT	eClinicalWorks v10	2014 CEHRT
41	30000001SVGGEAC	Greenway Prime Suite	2011 CEHRT
35	0014EFROF5WBZ5Z	Netsmart v. 2016	2014 CEHRT
35	0014EW94U3Y1HX9	Athena Health	2014 CEHRT
34	1314E01RBGYUEAT	Athena Health	2014 CEHRT
30	0014ES5UNR1LJ2R	Athena Health	2014 CEHRT

30	0014EWR4DR4GCQ6	Athena Health	2014 CEHRT
30	1314E01OUSI2EAF	Allscripts	2014 CEHRT
28	0015EDR9NDG2QFK	Athena Health	2015 CEHRT
28	30000001SVE6EAC	Allscripts	2011 CEHRT
28	30000002ENJWEA2	Interactive Practice Mgmt Sys	2011 CEHRT
27	30000002GGGDEA2	Mictochon Systems	2011 CEHRT
26	0014EQQ621YPJ4L	Athena Health	2014 CEHRT
25	1314E01PKHEGEA5	OCERIS	2014 CEHRT
25	1314E01PLHEPEAP	Allscripts	2014 CEHRT
25	1314E01PRYOOEAP	Greenway	2014 CEHRT
25	30000001SVUJEAK	Allscripts	2011 CEHRT
24	1314E01QOS1WEAH		
24	A000001BFFAKEAH		
22	1314E01QFMOQEAL		
22	30000001SVU6EAC		
21	1314E01PI01JEAD		
21	A014E01O3OMAEAF		
21	A014E01O5WSBEAF		
20	0015ELC7MG7SV5Y		
18	0014EH04QG2ZDM3		
17	0014EQ7KXN1EBY1		
17	0014EY1YA69EVT0		
17	30000001TQOREAS		
17	A014E01KIVG4EAF		
16	0014EJ360NE9J3Q		
16	0014ES83C24U5WK		
16	1314E01QQ6UXEAJ		
16	1314E01ROIUPEA1		
16	300000015VGWEAS		
15	1314E01RCO0XEAX		
15	30000001SVGHEAS		
15	30000001SVYDEAS		
14	0014E9UK7BEZ8S1		
14	0015EBE1DEA6BSB		
14	A014E01O3PSTEAV		
13	1314E01PCEROEAB		

13	30000002FXVLEAY		
13	30000004RUDIEAU		
11	0014E325ZSG6C1L		
11	0015EKK7LOVCU0R		
11	30000005C9JSEAI		
11	A014E01GXBMREAZ		
11	A0H1301DAQVTEAV		
10	30000001SWYYEAK		
9	0014E1MRY21QM6Z		
9	0014EL3HX2DXP35		
9	0014EQ91QQM20R9		
9	1314E01P4WM7EAJ		
9	1314E01PI059EAD		
9	1314E01PTMKTEAJ		
8	0014E0YQA0GZL9S		
8	0014EKV1ZNW0PND		
8	1314E01PRRA9EAJ		
8	30000002EKJAEAM		
8	A0H1301DAPXCEAV		
7	0014EZN4K9WBJ2L		
7	0015E3A2CF3S1CV		
7	0015EFS0A65GJA5		
7	0015EJY0TG53EWN		
7	30000004HORCEAO		
7	30000004W5IDEAY		
7	A014E01ORHWAEAJ		
6	0014EBZ6THY2715		
6	0014EXA0PSD1D0G		
6	0015ETT5B3BA3S8		
6	0015HPK78NY6BU3		
6	1314E01PNWZVEAB		
6	1314E01QFYN3EAH		
6	1314E01RBJXGEAT		
6	1314E01RCNGREAH		
6	1314E01RCQVSEAH		
6	30000001SWXMEAO		
6	30000001TOBLEAO		

6	A014E01NB2RNEAL		
5	0014EBB6DX8TMS9		
5	0014ETC1W9LUY8R		
5	0015EAQ7DCF2B0M		
5	0015EGH3Q30G7N5		
5	0015EL6ZTB1RPG0		
5	1314E01PN9NLEA1		
5	1314E01PQHNBEAZ		
5	1314E01PQX6XEAT		
5	1314E01QPVPLEAN		
5	1314E01RAPGLEAX		
5	1314E01RCQJREAX		
5	30000004RFQOEAC		
5	A000001EPEULEAN		
5	A014E01KIDBREAV		
4	0014E2C0RF0AY0T		
4	0014E3K7NLY2A99		
4	0014E6KSW50WHG4		
4	0014E7KK3JTL8EU		
4	0014EY4141GGZ6M		
4	1314E01QOJAQEAJ		
4	30000001SVCPEAS		
4	30000001SVDWEAC		
4	30000001SWQYEAS		
4	30000001TOGKEAC		
4	30000002FSHXEAU		
4	30000011AUDSEAY		
4	30000011CLYSEAI		
4	A000001COOITEAX		
4	A014E01IDZYBEAJ		
4	A014E01NA9BUEAD		
3	0014E14KB8R63SP		
3	0014EFE09JPM5J7		
3	0014EJ3Z8911BG9		
3	0014ER9PCX3F826		
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3	0015ENJ5LNS13VR		
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3	1314E01PPHDAEA3		
3	1314E01PQX9VEAD		
3	1314E01PSDKBEAH		
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