



Association Of Public Health Laboratories (APHL)

APHL Informatics Messaging Services (AIMS) Platform

AIMS is a secure, cloud based platform that accelerates the implementation of health messaging by providing shared services to aid in the visualization, interoperability, security, and hosting of electronic data and applications.

Serving Public Health

The ability to visualize and share data efficiently, while hosting applications securely is a critical capability for public health. AIMS Platform solves each of these difficult challenges for the public health community. Originally conceived to maintain multiple point-to-point electronic interfaces and accommodate ever-changing transport mechanisms, the platform is now the default solution for public health in the 21st century.

Connecting Partners

Public Health partners include federal agencies, the United States Uniformed Services, regional commercial laboratories and hospitals, State Health Information Exchanges (HIEs), and 50 state public health jurisdictions. Our list of partners is a testament to the strong relationships that we have built with the public health community, including the Centers for Disease Control and Prevention (CDC), the U.S. Navy, the Association of Territorial Health Officials (ASTHO), The National Association for Public Health Statistics and Information Systems (NAPHSIS), The Council of State and Territorial Epidemiologists and the Office of the National Coordinator (ONC).

- **Immunization** data exchange among several public health jurisdictions
- Electronic laboratory reporting (**ELR**) between eligible hospitals and their respective jurisdictions
- National Quest ELR data to all jurisdictions
- Next Generation Sequencing (**NGS**) through the Advanced Molecular Detection (**AMD**) program
- Electronic Case Reporting (**eCR**) between providers and jurisdictions across the US

AIMS provides interoperability between a variety of transport protocols. Transport protocols that the Platform can process include PHINMS, Direct, IHE XDR, NwHIN, Web Services, AWS S3, SFTP and VPN.

Interoperability Services

AIMS Platform transports millions of messages per month. Examples of data exchanged through AIMS:

- Aggregated **Influenza** test result data from public health laboratories to CDC
- **Vaccine-preventable disease** reports from testing centers of excellence to CDC
- **Biological threat** data from laboratories within the Laboratory Response Network to CDC

Security and Compliance

AIMS is located in the East and West Regions of the cloud computing market leader, Amazon Web Services (AWS). Successful FISMA Moderate 3rd party audits, successful 3rd party penetration tests and an EHNAC audit are part of the robust security and compliance [program](#). AIMS is monitored and maintained by health technology professionals with expertise in cyber security, cloud computing and data integration.

Data Visualization

AIMS facilitates data analysis by providing dashboards which display visualizations about transport and other metrics. One example of this statistical data is securely sent and received messages for public health programs.

Public health projects which require data analysis and visualization use Tableau, Quicksights, and Kibana hosted on AIMS.

Application Hosting

AIMS platform hosts third-party and proprietary applications. These applications are made available for the benefit of public health initiatives.

A few examples of these applications being hosted by AIMS include: [Lab Web Portal](#), [STEVE](#), [RCKMS](#), [OpenELIS](#), and [Sara Alert](#).

More information on the AIMS Technical Offering can be found [here](#).

Additional benefits to using AIMS include:

- Common architecture and services
- Shareable open source architecture
- Centralized processing and message routing
- Real-Time monitoring and audit systems
- Reduced data translation and transformation complexity
- Reduced development and support costs
- Flexible capacity technical infrastructure
- Vocabulary and HL7 message support
- Experienced and dedicated technical support
- Strengthening Security and Compliance



Customer Support

For AIMS Support, please contact informatics.support@aphl.org. For urgent matters, please call 1-844-836-8377.