



Identity Management Solutions

The Client

The Client provides a full featured Care Coordination and Care Management Portal that is uniquely designed to satisfy hospital transitions of care and Accountable Care Organizations. This Portal is designed to help the Health Care Professional deliver better patient care and to expand access to their services while optimizing practice efficiency. This Portal speeds the exchange of relevant health information across the continuum of care, allowing convenient access to patient information, enables shared decision-making and accelerates adoption.

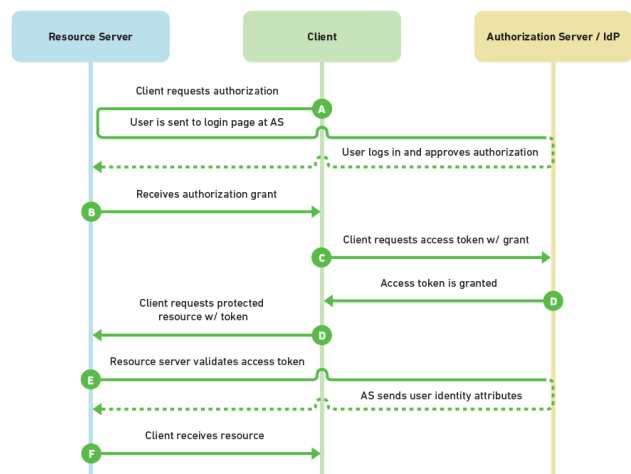
The Challenge

BridgeGate Health was engaged by one of our Client's to establish Single Sign On (SSO) connectivity with our Client's web and mobile enabled applications allowing users to log in via an AT&T portal provided by Covisint and request content directly from our Client's application. The BridgeGate (BG) solution utilized custom endpoints and provider/patient index tables at the integration layer, thereby authenticating at the API level for complex multi-step operations. The Client uses an OAuth framework to grant or restrict access to their Application Programming Interfaces (API's).

The Solution

Each application is given an Access Key and Access Secret. For each call the application makes, authentication information is used to establish the identity in the form of an Access Key, a Time Stamp, and a Signature using the Access Secret as a key for an HMAC-SHA1 algorithm. This isolates the user access into separate 'data silos' used to accommodate Private Labeling of the offering while stream lining the application and persistence layers.

OAuth 2.0 Flow



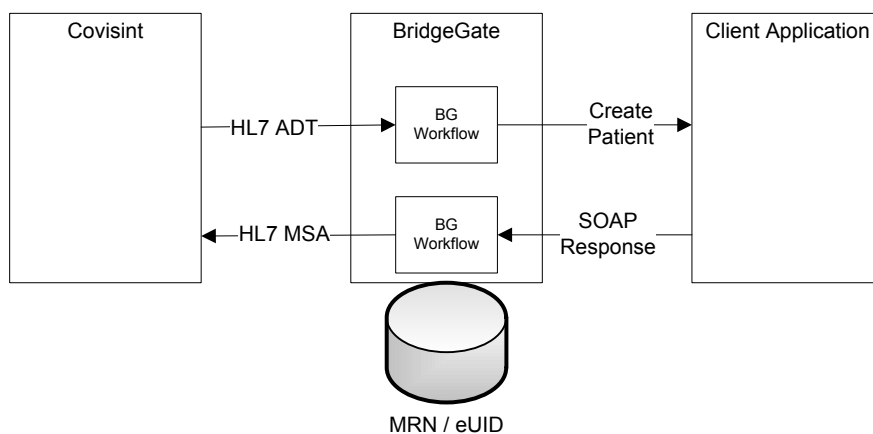
Reference: <http://www.mutuallyhuman.com/blog/2013/05/09/choosing-an-ssso-strategy-saml-vs-oauth2>

BridgeGate was able to acquire, transform, and exchange the data via several different formats including HL7 2.x, Proprietary CSV, and XML. The full solution began with the ability of the Covisint application to provide basic Patient Demographic info or ADT, to the Client application. Therefore, BridgeGate was able to take in the ADT data and transform those messages into the XML based enveloping required for the Patient to be referenced inside of the Client application.

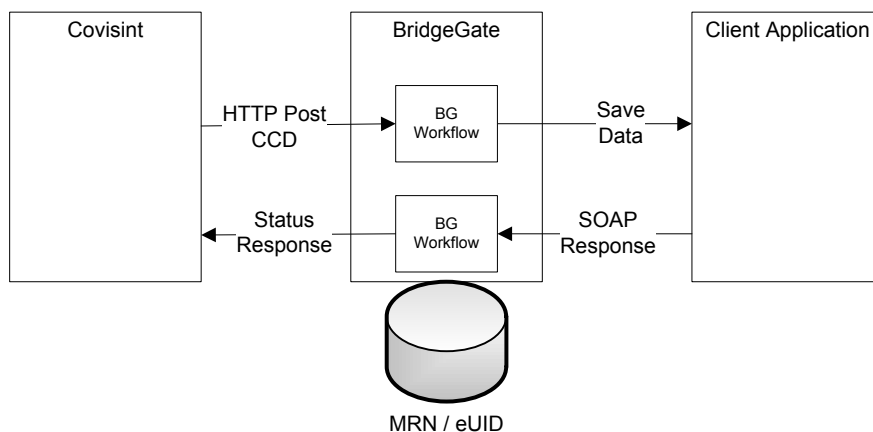
The next step was to allow the Covisint application to post and register a Clinical Care Document (CCD) against that patient. The Client application required the CCD to be consumed and parsed at the integration layer, and then through dozens of individualized web service calls, create the appropriate discrete entries within our Client's application.

The below shows the ADT and Post and Register processes:

HL7 to Create Patient



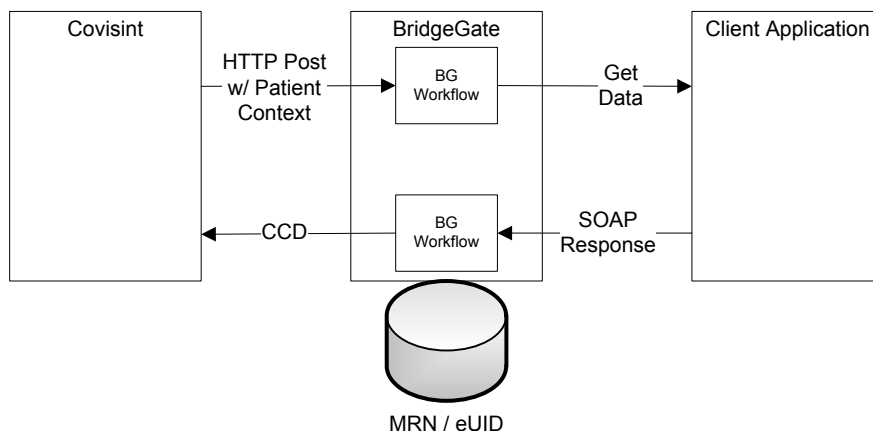
CCD Post and Register



The MRN / eUID database contains reference tables that are used to accommodate the appropriate field data needed in the messaging that allows for the SSO functionality. This crosswalk or lookup is a function of the BG Workflows which contain the process flow logic required to message back and forth between the Resource,

Client, and Authorization servers. Appropriate encoding is housed in this database for services offered by both Covisint and the Client.

CCD Request



In gathering data from the Client to create the CCD, BG has to make over 30 different Web Service calls to the client API in order to get the complete data set. BG then converts the data into a single CCD that can be consumed by the destination application or BG can produce a human readable PDF version of the CCD for presentation.

The BridgeGate Advantage

BridgeGate developed a solution for real-time processing of the data while maintaining full chain of custody of that data from receipt to final delivery. BridgeGate’s solution did not require custom coding and could be implemented quickly and seamlessly. BridgeGate also gave the Client a level of flexibility it did not have before by allowing the Client to process any data format from any internal or external source.

About BridgeGate Health

BridgeGate provides robust, scalable integration solutions that connect disparate applications and technologies. BridgeGateHealth™’s any-to-any integration platform handles very complex data with virtually no coding required, reducing the complexity and length of integration projects to weeks or days resulting in lower costs.

BridgeGateHealth™ affects tens of millions of lives monthly with integration solutions for healthcare providers connecting patient data (electronic health records, pharmacy, laboratory, radiology, medical devices, dietary, therapy, and billing) to insurers managing members (enrollment, eligibility, claims, payment, referrals, and formulary).

BridgeGateHealth™ processes millions of transactions monthly for 340b providers, Pharmacies, Labs, and Imaging Systems as well as Durable Medical Equipment. BridgeGateHealth™ integration solutions cover the entire pharmacy fulfillment ecosystem including patient data, e-prescribe, CPOE, PIS, eMAR, automated dispensing, inventory, 340B, PBM, and Surescripts® using HL7 and NCPDP based standards as well as proprietary data formats.

Founded in 1999, BridgeGate Health is privately-held and headquartered in Jacksonville, Florida.
www.bridgegatehealth.com.