

Next Gen EDI Processing and Archiving with Google, AWS and Sterling Integrator

Technical Article

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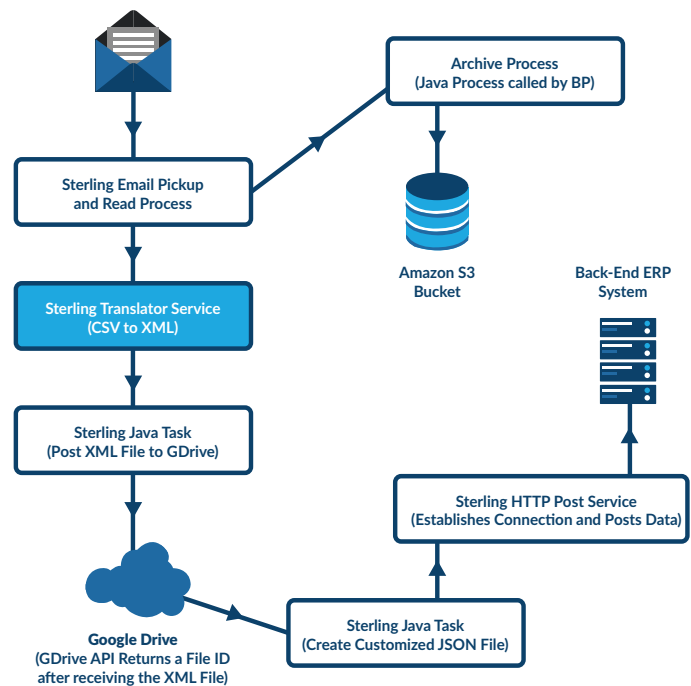
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NextGen EDI Processing and Archiving with IBM Sterling Integrator, Google and AWS

With Digitalization truly underway, Enterprises of the Future are required to re-invent themselves to ensure that they stay competent. Business Integration with EDI is becoming more important to ever for organization to be able to scale their business networks rapidly. Along with this they need to be able to execute rapid changes to their EDI operations to ensure that they stay up to date with the users demands while still maintaining the automation, reliability and security of enterprise-class EDI operations.

The Business Challenge

To battle the challenges of low reliability, security and inflated costs our experts came together to define a scenario where enterprises can leverage existing B2Bi infrastructure along with Next Generation technologies to enable business networks.



Technologies Used

1. Amazon S3
2. Amazon Glacier
3. Google Drive(gdrive)
4. Google APIs
5. Google Mail(gmail)
6. IBM B2B Sterling Integrator

The technical scenario uses **Sterling Business Processes** and **Automated Java Tasks** to pick up EDI files(Random Formats) from **Gmail**. The EDI file is them

immediately archived into **Amazon S3** and is also sent to the **Sterling Integrator Translator Java Task** for conversion into XML.

The converted XML file then gets pushed into **Google Drive** using Google's APIs and is picked up by a Sterling Java Task once again to load back into the Back-End EDI system. In case of a failure in the processing of the EDI file, the archived EDI file is pulled back from Amazon S3 by **Sterling Integrator** and re-processed.

The archived EDI files will be moved to **Amazon Glacier** after a certain time period, to ensure longer storage of the EDI files at much more reduced prices.

The Enterprise Advantage

Large Enterprises with hundreds of Trading Partners struggle to find ways to process their EDI documents in a reliable, secure and low cost manner. Through this scenario an enterprise can achieve the following advantages,

1. Low cost for archival through Cloud based Amazon S3 Storage
2. Archival Costs can be reduced by archiving files to Amazon Glacier automatically after defined time intervals
3. Reliable EDI process with automatic (or) web GUI based EDI re-processing
4. Ability to create Web/Mobile Dashboards for visibility into the EDI processing using the Amazon and Google APIs
5. Enterprise Class Security provided by Google and Amazon for your EDI documents

What is Amazon S3?

Amazon Simple Storage Service (Amazon S3), provides developers and IT teams with secure, durable, highly-scalable object storage. Amazon S3 is easy to use, with a simple web services interface to store and retrieve any amount of data from anywhere on the web. With Amazon S3, you pay only for the storage you actually use. There is no minimum fee and no setup cost.

Amazon S3 can be used alone or together with other AWS services such as Amazon Elastic Compute Cloud (Amazon EC2), Amazon Elastic Block Store (Amazon EBS), and Amazon Glacier, as well as third party storage repositories and gateways. Amazon S3 provides cost-effective object storage for a wide variety of use cases including cloud applications, content distribution, backup and archiving, disaster recovery, and big data analytics.

Glacier Storage = The Longer The Cheaper

Amazon Glacier is a secure, durable, and extremely low-cost storage service for data archiving and online backup. Customers can reliably store large or small amounts of data for as little as \$0.01 per gigabyte per month, a significant savings compared to on-premises solutions. To keep costs low, Amazon Glacier is optimized for infrequently accessed data where a retrieval time of several hours is suitable.

The Cost Charts

With no setup costs involved the costs for each of the services used above are insanely cheap for an enterprise and as the EDI processing numbers go up and the archival duration increases the prices seem even more reduced.

Google APIS

Service	Setup Cost	Free Range	Premium range
Google Drive API	No	500,000 Requests/Day	No, Can request for more
Google Mail API	No	1000,000,000	No, Can request for more

Amazon S3 and Glacier Storage

Storage	Standard	Reduced Redundancy	Glacier
First 1 TB	\$0.03 per GB	\$0.024 per GB	\$0.01 per GB
Next 49 TB	\$0.0295 per GB	\$0.0236 per GB	\$0.01 per GB

Next 450 TB	\$0.029 per GB	\$0.0232 per GB	\$0.01 per GB
Next 500 TB	\$0.0285 per GB	\$0.0228 per GB	\$0.01 per GB
Next 4000 TB	\$0.028 per GB	\$0.0224 per GB	\$0.01 per GB
Over 5000 TB	\$0.0275 per GB	\$0.0220 per GB	\$0.01 per GB

Amazon S3 and Glacier Requests

Requests	Price
PUT/COPY/POST/LIST	\$0.005 per 1,000 requests
Glacier Archive and Restore	\$0.05 per 1,000 requests
Delete Request	Free
GET and all other requests	\$0.004 per 10,000 requests
Glacier Data Restores	Free