

Shane Co.®

Lightstream engineers Amazon Web Services architecture for nationally recognized, high-quality jewelry retailer.

About the Customer

Shane Co.® is a national jewelry retailer. With various locations around the country, the company has established itself as one of the country's premier independent jewelers.

Previous Environment

Shane Co. ® was using a communications system that was not ideal for its scope of business. The previous provider had a seven day outage during Shane's peak holiday season, dramatically reducing the number of transactions that could be processed and completed.

Obstacles

The customer wanted redundancy via a second, separate data center that would host its transactions should the primary data center go down for any reason.

Lightstream's Solution

Lightstream designed a resilient cloud architecture that reduces down time and meets a 1-hour RTO to support business continuation. There was additional complexity in the customer's environment, as SAP / CSC / Web are tightly interwoven, and the application landscape needed to be considered in order to create an effective DR scenario. Lightstream architects considered the challenges of simplifying data replication and the inability of the website to scale in order to take advantage of the cloud application. Lightstream designed an Amazon Web Service (AWS) solution, including Virtual Private Cloud, Route53 with DNS Failover, Elastic Load Balancers, predefined AMI images with configured production servers and EC2 Reserved Instance types. The solution offers a cost-efficient "pilot light" environment that offers a low monthly cost, ready to be turned up when needed to full production in less than an hour.

The Results

The solution established a secure private environment, created the ability to switch between the customer's existing data center and AWS using 60-second TTL alias records. It also balanced public and private workloads. A bonus of the cloud solution is replication of the instances which that will allow a critical upgrade of ECC5 to ECC6 to occur outside of the production environment. The addition of an AWS cloud solution will both augment the customer's existing system and provide resilient, cost-efficient business continuity.