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TAULIA

SUPPLIER ARCHITECTURE OVERVIEW

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OVERVIEW

Taulia creates a mutually beneficial relationship between large organizations and their supply chain by enabling suppliers to invoice electronically, gain visibility into their receivables, and get paid early in exchange for a discount. By getting paid early on an invoice, suppliers access faster, easier and less expensive capital to help their business grow. Taulia's comprehensive cloud-based portal and eInvoicing is completely free to suppliers.

SOFTWARE DESIGN

The Taulia Business Exchange operates in the cloud as a secure, multi-tenant platform. The platform is accessible to buyers and their suppliers through an easy to use web interface, along with industry standard interfaces including REST, SOAP, XMLRPC, EDI file upload, AS2, SMTP (e-mail), and others. Unauthorized network access to the platform is restricted through least privilege, default deny firewall policies.

All users of the platform are authenticated and their access to the platform is determined using a role-based access control system. Additionally, buyers can integrate their existing enterprise Identity Providers (IdP) through Security Assertion Markup Language (SAML) to provide their users with single sign on, auto-provisioning of accounts, and support for different authentication schemes such as multi-factor authentication.

Data transfers in and out of the platform are encrypted using industry standard algorithms. Within the Taulia platform, data at rest is encrypted using AES-256-CBC and sensitive fields such as banking information are encrypted again at the application level using AES-256-CBC. TLS/SSL server endpoints are authenticated by 2048 bit RSA certificates and have AES-256 as their preferred cipher. All intra-platform communication is secured using TLS/SSL and AES-256-CBC.

The core of the platform is powered by mature and proven technology components like the Java Virtual Machine runtime, the MySQL database, and enterprise-grade Linux servers.

CUSTOMER ARCHITECTURE

The Taulia Platform seamlessly integrates with buyer ERP systems to easily exchange bi-directional data between the ERP backend and Taulia. Buyers that have deployed an SAP ERP system can integrate using Taulia's certified SAP Add-On and deploy our Polling On-Demand (POD) application on premise to encrypt and sync data between the platform and their ERP systems without having to open inbound connectivity through gateway firewalls.

Buyers of all ERP systems can use Taulia AnyERP technology and chose between a number of secure integration options. This integration is facilitated using either Taulia standard RESTful API or a robust file exchange approach.

For suppliers, it's easy to get started and Taulia eInvoicing offers convenient facilities to quickly and easily submit invoice data to the Taulia Platform. Suppliers can choose from over two dozen invoice data formats or submit any format of their choosing through a variety of secure data transfer methods.

DATA CENTERS

Taulia leverages Amazon's world-class, highly secure data centers for the core of the Taulia Platform. Utilizing state-of-the art electronic surveillance and multi-factor access control systems, these data centers are globally available and operated under a number of certification and compliance standards including ISO 27001, SSAE 16 SOC 1/2/3, HIPAA, and PCI CSS. Data centers are staffed 24x7 by trained security guards and access is authorized strictly on a least privilege basis. To support customer data residency requirements, Taulia can select data centers based in the United States or Ireland and uses multiple data centers within each zone to provide redundancy.

RELIABILITY

The Taulia Platform is globally distributed with data being stored in either United States or European Union zones based on the preferences of the buyer. Within each zone, the platform is operated concurrently in multiple Amazon availability zones in order to provide high availability and disaster recovery. Taulia operates the services under agreed upon SLAs that guarantee uptime and availability of the Taulia Platform.

OPERATIONS AND MONITORING

The Taulia Business Exchange is externally monitored by multiple services for connectivity and performance, 24x7, with alerting to the operations staff if problems arise. Additionally, the internal operations of the service is monitored for both system and service performance, alerting as necessary to instigate problem resolution.

SOFTWARE DEVELOPMENT LIFE CYCLE

Taulia develops and releases software using a customer-focused agile methodology. All features and changes are planned, scheduled, and tracked. Changes to the platform are reviewed, tested, and approved before being incorporated into a release. Releases are executed within scheduled maintenance windows and verified before completion. Security is an integral part of and involved in each step of the SDLC with dedicated security staff conducting developer security training, design reviews, code reviews, and regular penetration testing of the platform.

Taulia works with leading security firms to perform annual penetration testing of our platform. While industry standards like vulnerability scanning are included, the depth and intensity of the testing is increased by including focused, manual attacks by network and software security experts.

CONCLUSION

Taulia maintains SSAE 16 SOC 1 and AT 101 SOC 2 audit certifications for the Taulia Business Exchange. Additionally, Taulia is compliance with the EU Safe Harbor framework covering personal data.