



BINARY TREE™

Powering Enterprise Transformations®

Power365® Platform Security

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Introduction

This document provides a brief overview of the key security considerations in the Power365® Platform that are designed to safeguard customers' sensitive information end-to-end in any Power365 project.

Overview of Power365 Platform Security

Binary Tree is committed to delivering secure products and solutions. Power365 was designed with security as a *core requirement* at every step of the way. Some of the key security aspects of the Power365 platform include:

Office 365 Tenant Connectivity

Fully encrypted connectivity

Power365 connects to Office 365 using multiple protocols and APIs, all of which use certificate-based encryption to protect data in-transit.

OAuth token-based app authentication

Most Power365 functionality leverages token-based authentication to achieve its connectivity to Office 365, meaning credentials are not stored or transmitted between Power365 and Office 365.

Unique tenant service accounts

For advanced functionality, Power365 creates a dedicated service account in each Office 365 tenant. The username and password for this account are both randomly-generated and unique, and the password is encrypted at creation, stored as an encrypted value, and never processed in its unencrypted form.

Mailbox-specific rights delegation

Power365 assigns access rights for its service accounts only to individual mailboxes that are scoped for migration, and only when those rights are necessary for data synchronization activities.

Power365 User Connectivity and Authentication

Strict SSL/TLS enforcement

All user connectivity to Power365 must be via HTTPS, with all content delivered directly from Power365 servers, protecting against *mixed-content exploits* and potential data leaks from external sources.

OAuth token-based user authentication

Power365 relies on OAuth tokens for all user activity, from logging in to Power365 to connecting Office 365 tenants to the system. Users log in directly to Office 365's Azure AD, with no credentials ever passing through Power365.

Power365 Internal Security Design

End-to-end encryption for mailbox data migration

All data synchronized or migrated via Power365—including mailbox and public folder data—is encrypted from end-to-end. This includes:

- Reading data from the source mailbox using an encrypted data channel
- Temporarily storing objects using message-level encryption, with *each message* using a unique, randomly-generated encryption key that is only held in memory
- Writing data to the target mailbox using an encrypted data channel
- Performing a secure delete of the temporary message file on the internal Power365 storage as soon as the message is written to the target mailbox

End-to-end encryption for the Email Rewrite Service

All messages that traverse the Power365 Email Rewrite Service are encrypted throughout the process. This includes:

- Accepting messages from Office 365 only through TLS-encrypted interfaces
- Temporarily storing objects using message-level encryption, with *each message* using a unique, randomly-generated encryption key that is only held in memory
- Performing the address rewrite functionality in encrypted memory space
- Delivering rewritten messages back to Office 365 only through TLS-encrypted interfaces for delivery to their destination mail system

End-to-end encryption for Power365 Directory Sync

All data synchronized via Power365—including Active Directory On-Premises and Cloud based data—is encrypted from end-to-end. This includes:

- Reading data from the source environment using an encrypted data channel
- Writing data to the target environment using an encrypted data channel

External Certifications

Third-Party Security Scans and Penetration Testing

Power365 is subjected to a comprehensive vulnerability scan monthly and thorough penetration test annually from a leading security provider. Any potential vulnerabilities that are detected are automatically categorized as Severity 1 bugs and are addressed immediately.

ISO 27001:2013 Certified

BinaryTree.com, Inc. is certified and conforms with the requirements of ISO 27001:2013, including Power365 Platform services.

Privacy Shield Alliance Certified

BinaryTree.com, Inc. is certified and conforms with the requirements of the [EU-U.S. Privacy Shield framework and Swiss-U.S. Privacy Shield framework](#).

EU Model Clauses Compliant

BinaryTree.com, Inc. complies with Article 26(2) of Directive 95/46/EC for the transfer of personal data to processors.

ISO 27018:2014 “Cloud Security” Certified

BinaryTree.com, Inc. is certified and conforms with the requirements of ISO 27018:2014.

General Data Protection Regulation (GDPR)

BinaryTree.com, Inc. (“BT”) values adherence to international data protection and security initiatives, including without limitation Article 28 of the General Data Protection Regulation (EU 2016/679). BT is committed to implementing an information security program that contains administrative, technical and physical safeguards reasonably necessary to protect against anticipated threats to the security, confidentiality and integrity of data with respect to applicable security standards.

About Binary Tree

Binary Tree is a Microsoft Gold Partner for messaging, cloud productivity and application development and is dedicated to and focused on enterprise transformations to Microsoft platforms. Since 1993, Binary Tree has transformed more than 8,000 global clients and 42 million users, including 7.5 million users to Office 365. The company is a globally preferred vendor for Office 365. Its headquarters is located outside of New York City with global offices in France, Germany, Singapore, Sweden and the U.K. Its award-winning software and services help companies modernize email, directories and applications by moving and integrating them to the Microsoft cloud. The company's business-first approach helps plan, move and manage the transformation process from end to end so that clients can stay focused on their core businesses. Binary Tree's experts deliver low-risk, successful IT transformations. Visit www.binarytree.com for more information.

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