



GREENORBIT

GO Security Whitepaper

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1. Introduction

This document provides an overview of the multiple layers of security implemented within GreenOrbit to ensure the protection of customer data.

2. Authentication Options

Users can authenticate into GO using a number of methods. The current supported authentication methods are:

- **Website Users**
GO's build in authentication method, users login via a web based form.
- **Active Directory**
Integrate directly with your AD domain for seamless user authentication.
- **SAML**
Connect to a number of various SAML Identity Providers to provide a federated authentication.

A combination of these authentication methods can be implemented at the same time utilizing IP based security.

3. Securing Content

Content can be secured within the hierarchy of GO on a granular basis. Security is inherited down through the hierarchy, however at each point, any one of the applicable security levels can be applied to set custom security for that subsite, folder or item of content.

Security can be applied to:	Available Security Levels are:	Security Level can apply to:
<ul style="list-style-type: none"> • Subsites • Folders/Categories • Content/Pages/Files 	<ul style="list-style-type: none"> • Deny Access • Read Only • Creator • Contributor • Editor • Full Control 	<ul style="list-style-type: none"> • Everyone • Domains • User Groups • Individual Users

4. Password Security

If using GO's built in User Management system, passwords are encrypted prior to being stored in our database. The following password policies can also be configured:

- **Password Expiry**
- **Strong Passwords Required**

Auditing tools are also available within GO to track user authentication.

If using an external authentication provider such as Active Directory or SAML, passwords are not stored within GO and their policies are managed externally.

5. Data Security

Our development and release processes ensure the security of data is a top priority. Our multi-stage code review process is in place to catch vulnerabilities in our code and utilize specific development methods to protect GO from attacks such as SQL injection and cross-site scripting. All uploaded data is stored as binary format on SQL server, protected by the various security controls Microsoft has implemented for SQL.

Data in transit can be protected through the use of SSL Certificates (provided by the customer).

GO also contains a number of auditing tools which provide details of who has logged into the intranet and the different actions they performed.

6. Regular Penetration Testing

We procure the assistance of external vendors to perform penetration testing of GO on a regular basis. In the event an issue is found, our development team works closely with our vendor to implement their recommended fix.

7. Security - On-Premise

GO is available to be installed onto your own server, on-premise. While GO implements a number of security controls, data protection methods and undergoes regular penetration testing, the overall responsibility of firewalls, servers, operating systems and software lies with the customer to ensure any recommendations or industry standard security practises have been implemented.

8. Security - GO Cloud

In GO Cloud, we take care of all of the responsibilities our customers would have if they were to implement GO On-Premise. Powered by Amazon Web Services (AWS), GO Cloud takes advantage of the security controls provided to us to assist with the protection of our infrastructure and client data.

All infrastructure is located within our own Virtual Private Cloud (VPN) and resources within the VPC secured with Security Groups (similar to an ACL on a firewall) based on the roles those resources perform.

More information is available about GO Cloud in our GO Cloud Whitepaper.