Lighthouse

BY TORQUE SOFTWARE

# Cyber Security Guide

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# Introduction

Lighthouse by Torque Software is a governance and compliance software system delivered via a Software as a Service (SaaS) platform. Lighthouse is used within the Australian Federal Government, state governments and similar organisations. More information about Torque Software and Lighthouse is available at the Torque Software Web Site.

The Lighthouse Cyber Security Guide provides essential information for use by IT professionals who are supporting their organisation's governance and compliance business objectives (both legislative and organisational policy), by implementing and using Lighthouse by Torque Software.

# Information Security Registered Assessors Program (IRAP)

The Lighthouse cloud hosting platform and the Lighthouse software application have both been assessed under **IRAP** to comply with the Australian Federal Government **Information Security Manual** and the **Protective Security Policy Framework**.

## Lighthouse Cloud Hosting Platform

Lighthouse is hosted on the Amazon Web Services EC2 Cloud located in Sydney, Australia. Amazon runs many of the largest and most security-conscious sites on the internet. For more information on Amazon's EC2 Cloud, visit https://aws.amazon.com/ec2/

### ASD Certified Cloud Service

Amazon Web Services are certified for use for Unclassified workloads as per the Australian Government security classification system. Amazon Web Services meets the requirements of the Australian Federal Government's **Information Security Manual** and **Protective Security Policy Framework**.

All AWS services utilised are certified to at least PROTECTED level. Supporting documentation is available as follows.

- Amazon Web Services ASD Certification Statement of Compliance
- Amazon Web Services IRAP Letter of Compliance
- ASD Certified Cloud Services

### Gateway

Each Amazon VPC is a distinct, isolated network within the cloud; network traffic within each Amazon VPC is isolated from all other Amazon VPCs. At creation time, an IP address range is selected for each Amazon VPC. An Internet gateway, virtual private gateway, or both may be created and attached to establish external connectivity, subject to the appropriate controls.
Secure communication between client and server is ensured via TLS certificates.

### Identity and Access Management

Identity and Access Management (IAM) is managed through Amazon's AWS IAM. See http://aws.amazon.com/documentation/iam/ for more information.

### Lighthouse Software Application

The Lighthouse software application IRAP assessment letter is available at Lighthouse Software Application IRAP Assessment. Detailed assessment results are available from Torque Software on request.

The Lighthouse development platform is Microsoft .NET 4.5 and Microsoft SQL Server. Third party native .NET source code controls have also been used to develop the application (sourced from DevExpress). Lighthouse is a two-tier application with the ASP.NET application component executing on Microsoft IIS.

## Security Clearances

All Torque Software personnel who have been granted access to Lighthouse client data have been issued a security clearance at Negative Vetting Level 1 (NV1) or higher by the Australian Government Security Vetting Agency (AGSVA).

Access is only granted where necessary for client support services. Client data is only accessed when required for client support activities.

## User Access Security

Lighthouse provides three user access security options.

### VANguard Federated Authentication Service - Single Sign-On (Recommended)

VANguard is provided by the Department of Industry, Science, Energy and Resources and is recommended for Australian Federal Government entities wishing to obtain authentication services for internet applications.

The VANguard Federated Authentication Service allows users logged on to their own Australian Federal Government entity's network to authenticate and then use web applications such as Lighthouse. Authentication occurs transparently without additional credentials or software being required on the user's computer.

### Microsoft Azure AD - Single Sign-On

Lighthouse supports Microsoft Azure AD single sign-on. Authentication occurs transparently without additional credentials or software being required on the user's computer.

### Username/Password Authentication

User identity is assured through standard username and password protocol; passwords are encrypted within the database using AES encryption. Password complexity requirements can be set within the application, and multi-factor authentication (MFA) can be configured.
Failed logon attempts are logged and available for viewing within Lighthouse. Lighthouse can be configured to lockout accounts after a set number of failed login attempts.

## Browser Security

Lighthouse runs over TLS (commonly known as HTTPS), ensuring an encrypted communication channel between the client browser and Lighthouse server.

Lighthouse uses cookies as standard to maintain authentication state (industry standard). Using cookie-based authentication over URL-based ensures that only the local machine containing the cookie can access the authenticated session.

## Cyber Security Updates

Torque Software keeps up to date with all cyber security matters by maintaining membership with the following groups.

- The Australian Cyber Security Centre (Australian Signals Directorate, Department of Defence) as a Network Partner
- The Australian Information Security Association

Torque Software has also engaged expert cyber security consultants who constantly monitor our cyber security processes to ensure current industry requirements and best practice are met.

## Help Desk

Torque Software help desk support services are available to client IT support personnel and Lighthouse system administrators to report possible cyber security incidents at any time by emailing helpdesk@torquesoftware.com.au or calling 1300 795 581.

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