

Digital Log Books

Web Site and API User Manual

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Introduction

Digital Log Books is an electronic record book application for use on board shipping vessels. It is intended to supplement or replace traditional paper log books. It also has the ability to synchronise data entered on board to the cloud. There are two ways in which shore-based users can access this data:

- Via the Dashboard web site.
- Via an API.

This document explains how to use these tools.

Note on Data Being Read-Only

The dashboard web site and API provide only read-access to data that was created with the client application on the vessel. There is no application code in the web site or API capable of changing or deleting any data stored in the cloud.

It is also not possible to change data on board the vessel through the web site or API.

Before you start

This guide assumes that the application has already been installed and is in use on one or more vessels, and that it is configured to synchronise data.

NOTE

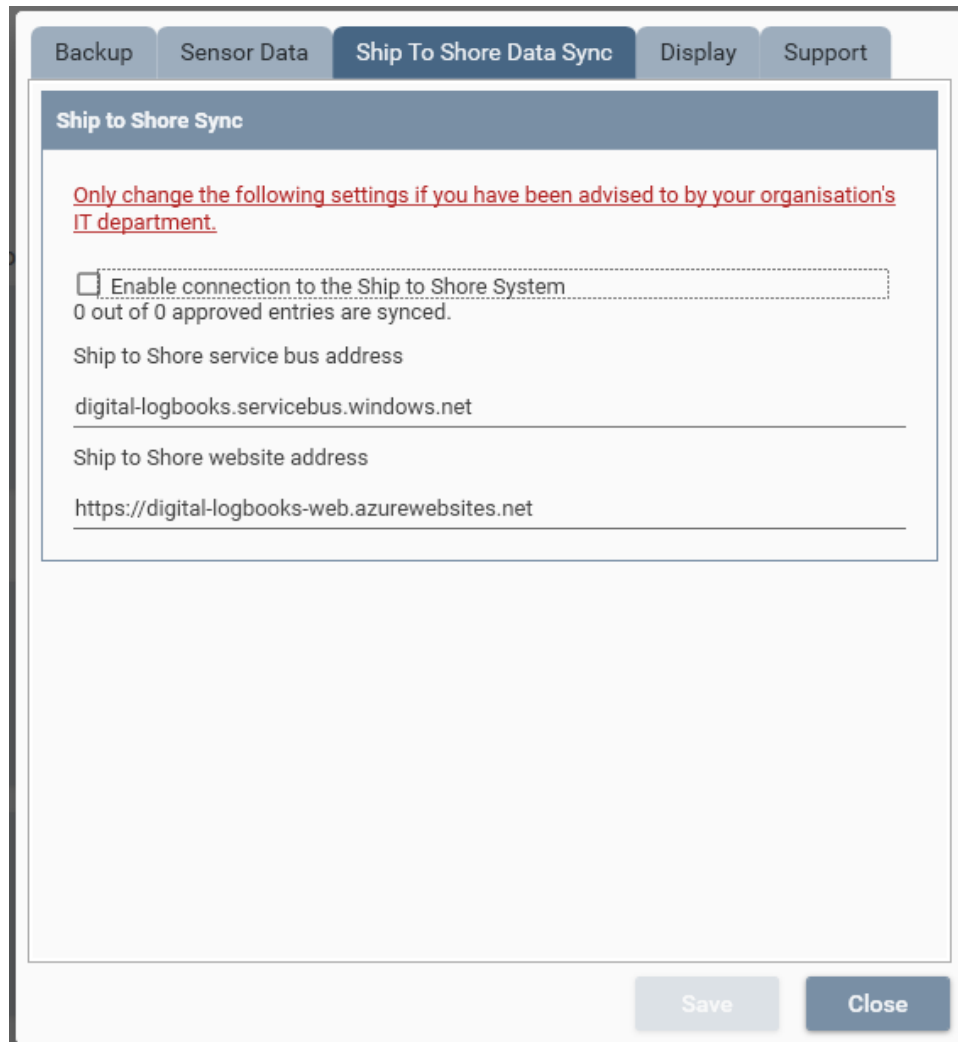
This guide is written from the perspective of using the live system. If you require access to the **TEST** system, please contact Chersoft, as the settings and URLs will be different.

Contact

Chersoft can be contacted for help with set up, account creation, and other queries at support@chersoft.com or operations@weilbach.com.

Enabling Synchronisation in the Client Application

In the Digital Log Books client application, click on the “Settings” (cog icon) button, then click on the “Ship to Shore Data Sync” tab. You should see the following:



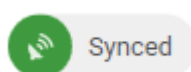
The screenshot shows a settings window titled "Ship to Shore Sync" with a tabbed interface. The "Ship To Shore Data Sync" tab is selected. The window contains the following elements:

- Navigation tabs: Backup, Sensor Data, Ship To Shore Data Sync (active), Display, Support.
- Header: Ship to Shore Sync
- Warning text: Only change the following settings if you have been advised to by your organisation's IT department.
- Check box: ☐ Enable connection to the Ship to Shore System
- Status text: 0 out of 0 approved entries are synced.
- Field: Ship to Shore service bus address
Value: digital-logbooks.servicebus.windows.net
- Field: Ship to Shore website address
Value: https://digital-logbooks-web.azurewebsites.net
- Buttons: Save, Close

Most users should keep the default settings unless they have been instructed otherwise.

When ready, check the 'Enable connection to the Ship to Shore system' check box and save. While the connection is enabled, approved log entries will be synchronised to the cloud once per minute.

When an entry has been successfully synchronised, this badge will appear on them:



Entries showing this symbol will be available via the Digital Log Books web site and API.

App Server Installation with Parameters

To avoid end users having to manually override the Ship-to-Shore settings in a client-server installation, the settings can be provided at the time of App Server installation.

The following configuration options are applicable:

Setting Name	Type	Description
SHIPTOSHORESYNC	A Boolean value of true/false	Whether ship-to-shore sync should be enabled.
SHIPTOSHOREWEBSITE	URI	Override for the Ship-to-shore sync system. This should only be changed when advised to by Chersoft support.
SHIPTOSHOREBUS	URI	Override for the Ship-to-shore sync system. This should only be changed when advised to by Chersoft support.

Example command:

```
msiexec /i DigitalLogBooks.AppServer.Setup.msi
SHIPTOSHOREWEBSITE ="digital-logbooks-web.azurewebsites.net"
```

Synchronisation Issues

Synchronisation of log book data requires an Internet connection.

If an Internet connection is present but synchronisation is not occurring, it may be necessary to configure your firewall to allow the following outbound traffic:

- HTTPS traffic to:
 - digital-logbooks-web.azurewebsites.net
 - digital-logbooks.chersoft.com
- AMQP traffic to:
 - digital-logbooks.servicebus.windows.net

If problems persist, please contact Chersoft support, including the application log files which are available from the Support tab of the Settings window.

Accessing the Web Site

The URL of the Ship-to-Shore Dashboard web site is **digital-logbooks.chersoft.com** or **digital-logbooks-web.azurewebsites.net**. Both addresses will direct you to the same site.

Log in to the web site can be via:

- A user name and password combination. Contact Chersoft to obtain a user name and password.
- Integrated authentication via a customer's Azure Entra ID tenant.
- Either of the above.

Integration with Azure Entra ID

If you wish to authenticate to the web site using your organisation's Azure Entra ID directory, follow these steps:

1. Contact Chersoft to arrange your own instance of the web site (customer Entra ID integration is not available via the default web site). This may incur an extra charge. The URI will be communicated to you.
2. Open the Azure Portal, navigate to Entra ID and then open App Registrations.
3. Click "+ New Registration".
4. Give the App a name and select 'Accounts in this organizational directory only'.
5. The Redirect URI should be the URI of your web site and the platform should be 'Web'.
6. Click 'Register'.
7. Once registered, open up the app registration and then open "Certificates and Secrets".
8. Add a new client secret and be sure to copy its value.

Once the above steps are complete, please send to Chersoft:

- The Entra ID Tenant ID (also sometimes referred to as the Directory ID).
- The App Registration's Client ID.
- The client secret created in step 8.


Once configuration is complete, use the 'Login with your Organisation' button on the Log In screen to log in using Entra ID.

Using the Web Site


A list of available books is shown on the home page:

Hello Lee Dawson


Vessel Logs




Oil Part 1 Book




Oil Part 2 Book




Cargo Book




Ballast Water Book




Garbage Part 1 Book




Garbage Part 2 Book




Marine Fuel Sulphur Book



Deck Book



Radio Book



Radar Book

These options are also available in the menu on the left.

Click on a book to view its entries. In this example I have clicked the “Oil Part 2 Book”:

Oil Part 2 Log Book Data

Filters

Record Type:

All

From Date:

dd/mm/yy

Vessel:

All

Page size:

25


To Date:


dd/mm/yy

Apply

Clear

« 1 »

24-Jan-2024 17:32 [ZT] O: Additional Operational Procedures and General Remarks IMO1234567 (HMS Lee Test) 

24-Jan-2024 15:42 [ZT] O: Additional Operational Procedures and General Remarks IMO1234567 (HMS Lee Test) 

« 1 »

The layout of entries should be familiar to users of the client application. One extra piece of information shown in the web site is the vessel from which the entry came, shown on the right of the entry header.

In this example, the green tick icon indicates a complete entry with no warnings.

Entries can be filtered through a combination of:

- Vessel.
- Entry type.
- Date range.

Warnings

Warnings on entries are also shown, and are denoted by the yellow exclamation mark symbol on the right of the entry header, as shown in this Garbage Record entry:

07-Feb-2024 17:00 [ZT]

2: Incinerated Garbage

2.2: Ship's position or location at the start and cessation of incineration

Time and Position at start

No value was provided

Location at start

No value was provided

Time and Position at cessation

No value was provided

Location at cessation

No value was provided

2.3: 2.3 & 2.4 - Garbage Incinerated

Garbage incinerated

Category of garbage

A: Plastic

Estimated amount incinerated

10 m³

Remarks: Updated time.

Last modified by Dawson, Lee (Capt.) at 07-Feb-2024 17:23 [ZT]

Saved for approval by Dawson, Lee (Capt.) at 07-Feb-2024 17:23 [ZT]

Approved by Dawson, Lee (Capt.) at 07-Feb-2024 17:23 [ZT]

Warnings

- Item 2.2: Position or Location information has not been entered.

Note that this is different to how the client application works – in the client, warnings are hidden after the entry is approved.

Deleted Entries

Entries which are deleted after being approved are also synchronised. This is indicated by the red trash can symbol. Deleted entries are shown with their text struck through, as in the client application.

07-Feb-2024 13:44 [ZT]

2: Incinerated Garbage

2.2: Ship's position or location at the start and cessation of incineration

Time and Position at start

Timestamp: 02/07/2024 13:44:00
55° 46' 14" N, 12° 31' 08" E

Location at start

No value was provided

Time and Position at cessation

Timestamp: 02/07/2024 13:44:00
55° 46' 14" N, 12° 31' 08" E

Location at cessation

No value was provided

2.3: 2.3 & 2.4 - Garbage Incinerated

Garbage incinerated

Category of garbage

A: Plastic

Estimated amount incinerated

14 m³

~~Remarks: Incinerated plastic.~~

~~Last modified by Dawson, Lee (Capt.) at 07-Feb-2024 13:44 [ZT]~~

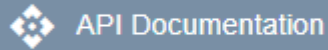
~~Saved for approval by Dawson, Lee (Capt.) at 07-Feb-2024 13:44 [ZT]~~

~~Approved by Dawson, Lee (Capt.) at 07-Feb-2024 13:44 [ZT]~~

~~Deleted by Dawson, Lee (Capt.) at 07-Feb-2024 13:45 [ZT]~~

Accessing the API

Documentation on how to use the API, including Swagger documentation on the available routes, is also available in the Dashboard web site. Click on this option in the left-hand menu:



Authenticating with the API

Connecting to the API requires an **App Registration**, which consists of a **Client ID** and a **Client Secret**. Contact Chersoft to obtain an App Registration.

Once you have your Client ID and Secret, you can authenticate with the API by sending a **POST** request to `/api/v1/Auth`, with a **Content-Type** of `application/json` and a body in this format:

```
{
  "clientId": "your client id",
  "secret": "your secret"
}
```

You should receive a response with a body in this format:

```
{
  "tokenExpiry": "2023-09-20T15:30:14.110Z",
  "token": "bearer token"
}
```

The `token` field in this response contains your JWT bearer token. This token must be provided in the `Authorization` header of all subsequent requests.

Using the API

This section contains only a few worked examples. See the [Swagger page](#) of the web site for the full list of routes and response schemas.

Request All Entries from a Log Book

In this example I am requesting all entries from the Oil Book Part 2.

Method	GET
Uri	/api/v1/LogBooks/OilTwo/Entries

Example response:

```
{
  "paginationMetaData": {
    "currentPage": 1,
    "totalPages": 1,
    "pageSize": 500,
    "totalItems": 2,
    "hasPrevious": false,
    "hasNext": false
  },
  "items": [
    {
      "id": "38c936b7-e276-4196-a0f5-ed7f9ee5b64a",
      "rowVersion": 1,
      "vesselAccountId": "c0e91e1f-f132-4675-841b-d8cb421d0c0d",
      "title": "O: Additional Operational Procedures and General Remarks",
      "vesselName": "HMS Lee Test",
      "imoNumber": "IMO1234567",
      "approved": true,
      "deleted": false,
      "code": "O",
      "schemaVersion": 1,
      "date": "2024-01-24T17:32:00+00:00",
      "sections": [],
      "auditInfo": {
        "author": "Dawson, Lee (Capt.)",
        "creationDateTime": "2024-01-24T17:33:02.1316025+00:00",
        "savedForApprovalUser": "Dawson, Lee (Capt.)",
        "savedForApprovalDateTime": "2024-01-24T17:33:02.1316025+00:00",
        "approver": "Dawson, Lee (Capt.)",
        "comment": "No comment",
        "approvalDateTime": "2024-01-24T17:33:06.4195007+00:00"
      },
      "warnings": [],
      "remarks": "Lee test.",
      "attachments": [],
      "deletionInfo": null
    },
    ... <edited for brevity>
  ]
}
```

Request All Entries of a Specific Type from a Log Book

In this example I am requesting all entries of code "2" (incineration of garbage) from the Garbage Record Part One.

Method	GET
Uri	api/v1/LogBooks/GarbageOne/Entries/Section/2

Request All Entries for a Specific Vessel

In this example I am requesting all Oil Book Part Two entries for a particular vessel. If you need to know a vessel's ID, you can call the `/Vessels` endpoint to receive a list of accessible vessels.

Method	GET
Uri	api/v1/LogBooks/Vessels/<vessel_id>/OilTwo/Entries

List the Available Log Books

In this example I am requesting a list of all the available log books in the system. The identifiers returned here can be used as parameters in further requests.

Method	GET
Uri	api/v1/LogBooks

Example response:

```
{
  "logbooks": [
    "GarbageOne",
    "GarbageTwo",
    "Radio",
    "CompassObservation",
    "OilOne",
    "OilTwo",
    "Radar",
    "Cargo",
    "WaterBallast",
    "Deck",
    "MEScrubber",
    "Emissions",
    "Engine",
    "Mooring",
    "Biofouling",
    ...<edited for brevity>
  ]
}
```

What is SchemaVersion?

You will notice a `schemaVersion` property on the response you receive to log book queries. As the requirements for log books change over time, new fields are added and some are removed. When this happens, we create a new 'version' of the log book so that entries created with the older versions continue to function. As such, you will see different fields being returned for different versions of a log book.

What is RowVersion?

The `rowVersion` indicates how many times this entry has been edited. The first revision will have `rowVersion 1`.

Dates and Times

The `date` field of a log entry in the response is not an auto-generated timestamp, it is a user-editable field used to indicate the date/time to which the entry pertains. To get a true indication of when the entry was actually first created, use the `auditInfo.creationDateTime` field.

All timestamps are returned from the API in UTC.

Comments and Feedback

The Ship-to-shore Dashboard web site and API are relatively recent developments and are changing quickly. Any bug reports, user feedback or other comments will be gratefully received at support@chersoft.com.