

Dataloq

API

Build Better, More Secure
Integrations

Privacy

Security

Identity

The Platform Thinking

Maritime software is creating a new business reality— increasing automation of processes, transactions and distribution across every industry and organization. The reality is that no complete platform has all the necessary functionalities to complete the desired business task. In order to solve this issue businesses are dependant on manual work and or typically extend systems with custom code to implement a standalone solution to automate a specific task or deploy point to point to connect various systems. The result is digital transformation – where businesses are more flexible and better able to work with other systems.

The Dataloy API

The Dataloy API allows you to integrate seamlessly best of breed applications to Dataloy VMS. The API is RESTful and uses JSON and XML to transport information. Use cases for interacting with Dataloy VMS through the API include: accounting, agency appointments, bunker planning and orders and many more. The opportunities are endless with an open API.

Why Dataloy API? Put us to the test.

SHORT LIVED TOKENS

Rather than relying on a single password as the master key for every app that accesses an API, OAuth uses this token. An OAuth token gives one app access to one API on behalf of one user for a limited time.

PERMISSIONS - USER ROLES AND ACCESS

In VMS and API, permissions can be gracefully upgraded as well – if the user tries to do something in an app and they haven't authorized the corresponding permission, the business can give the user the option to add that permission.

JUST ENOUGH RESPONSIBILITY - DECENTRALISING IDENTITY FROM APPLICATIONS

Keeps security consistent with the open platform potential for low-friction innovation.

SUPPORTS DELEGATED AUTHENTICATION

With our Enterprise API offering it is possible to integrate with your existing Active Directory (AD) servers for streamlined user management.

INFORMATION PROTECTION

Data is carefully filtered based on security roles ensuring that end users and API users only see what they are authorized to see.

MULTI-FACTOR AUTHENTICATION

We mandate multi-factor authentication (MFA) on VMS. MFA is enforced for all tasks that require administrative or elevated privileges. These actions will help mitigate the impact of stolen credentials across the organization

Dataloy API Plans

	Standard API	Enterprise API
CRUD operations all* entities in Dataloy VMS POST, GET, PUT, DELETE	✓	✓
OAuth authentication (using Auth0)	✓	✓
Advanced data filtering	✓	✓
Pagination	✓	✓
Sorting	✓	✓
Webhooks	✓	✓
Customizable API responses Alter and customize the response received from the API.	✓	✓
Additional security options <ol style="list-style-type: none"> 1. Endpoint access control 2. Data access control 3. Attribute access control 	X	✓
API Versioning Run several (different) API versions simultaneously.	X	✓
Possibility for 3rd party LDAP/AD	X	✓
Advanced API filters <ol style="list-style-type: none"> 1. Left join 2. OR capabilities 	X	✓
Websockets API support	X	✓
Sub-queries	X	✓
Support for XML messages through XSLT 3.0 transformation	X	✓
Customization on 2-factor authentication on the VMS (e.g. no MFA from given IP addresses, always MFA from given countries etc)	X	✓

* Some master data entities are maintained by Dataloy Systems and therefore not available.

Technical Checklist

- All users in Dataloy VMS must have a valid email address set in the system
- Ensure all API integrations are compatible with OAuth 2.0
- VMS version 5.3 or newer
- Grant roles to authorize users
- Request for MFA and check your technical fit

Training

Dataloy is built with security at its core to protect your data and applications. You can also implement your own security roles to reflect the structure and needs of your organization. The Dataloy security features enable you to empower your users to do their jobs safely and efficiently.

To that end, we offer training for both customers and third party integrators

Questions about the Dataloy API?

We are more than willing to help! Send us an e-mail at sales@dataloy.com