



User guide

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Introduction

Information Alignment's GuidEx Connect serves as a data transfer and machine tracking platform to/from GuidEx field devices and the office. The web interface can be used to send updated mapping layers and target files to the field, receive log files from machines in the field, and track machine position and various events.

This document will walk through the basic workflows and requirements of the GuidEx Connect platform. To get started, visit the GuidEx Connect page here:

<https://www.guidex.inapl.com/>

Setting Up an Account

To begin using GuidEx Connect with the GuidEx application, you will first need to register an Information Alignment account (INAID). If you already have an INAID account, login to GuidEx Connect using your existing credentials. If you do not have an INAID account, you can create one by selecting "Sign up now" at the login screen, which will prompt through the setup steps.



Sign in with your email address

[Forgot your password?](#)

Sign in

Don't have an account? [Sign up now](#)

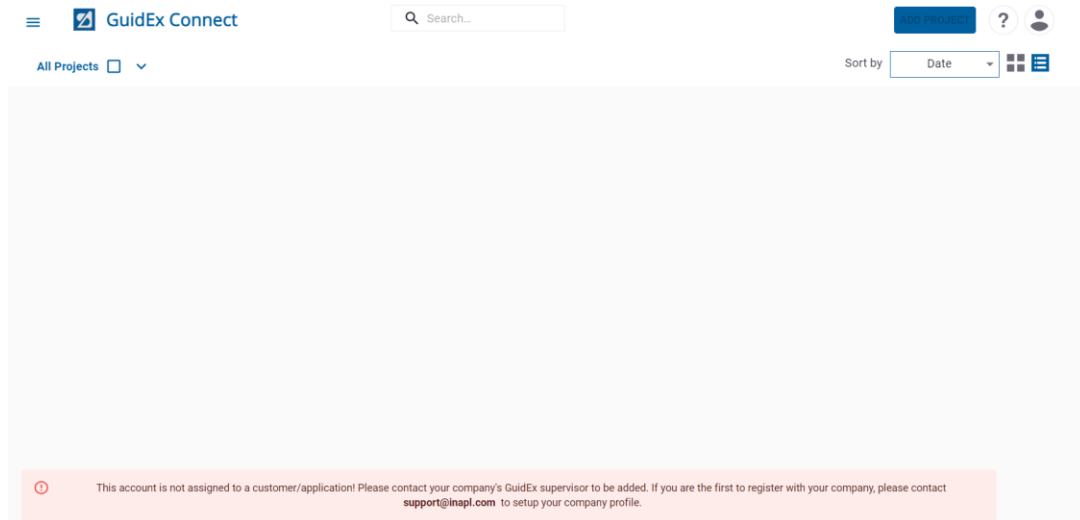
Sign in with your social account



Microsoft

Account Activation

Once a INAID has been registered with GuidEx Connect, you will see the following page.



If you are the first with your organisation to register with GuidEx Connect, you will need to contact support@inapl.com to setup your company profile. Our team will work you on your specific needs to setup an organisational account accordingly.

If you are not the first with your organisation to register, please contact your organisation's GuidEx Connect supervisor to be added to the existing organisation's account.

Setting Up a Project

Once your account is setup and activated, you can begin setting up a project in GuidEx Connect. With the 3-bar menu in the upper left corner, make sure you are in the Files section. Then tap the "Add Project" button in the upper right corner. This project name in GuidEx Connect should match the GuidEx project name (as defined by the project exchange database), as will be discussed later.

You will then find a project directory with predefined subfolders:

Initial_project_import

The "initial project import" folder can be used for importing an entire project to GuidEx Connect by placing a zip of the project folder here, and then on the GuidEx Mobile App, going to "Project Setup" > "Import Project" and selecting the cloud option. This assumes GuidEx is already logged in to GuidEx Connect and has a suitable internet connection. If you are using this folder to import a project for the first time, see the GuidEx "Cloud Setup" section.

Common

The common folder is a shared folder with all machines running the defined project.

Uploaded

The uploaded folder is where all log files from machines within the project are transmitted to.

Updates

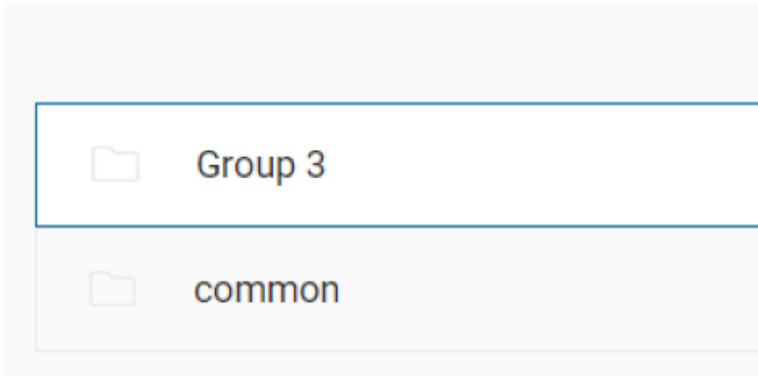
The updates folder is where updated project files intended to be sent to all GuidEx machines are loaded. As this is in the common folder, files uploaded here will be distributed to all machines in the project.

To upload files, tap the Upload arrow in the upper right corner. GuidEx stores a “Sync History” in the machines log database and compares time of sync to the file upload time on GuidEx Connect. If a file with the same name is updated on GuidEx Connect, it will be downloaded again in GuidEx due to the new upload time, as compared to the last sync time in the log table. GuidEx automatically syncs outstanding new updates folder on each app launch. Additionally, operators can manually sync files by going to “Project Setup” (in left drawer) and selecting “Sync Cloud Files”.

Syncing Files to Groups or Specific Machines

Files can be sent to a group of machines or individual machines by setting up a machine group folder. Machine group folders are to be setup in the project folder, alongside the common directory as shown below. Note that a maximum of 10 group folders can be defined.

All Projects / GuidExDemo ▼

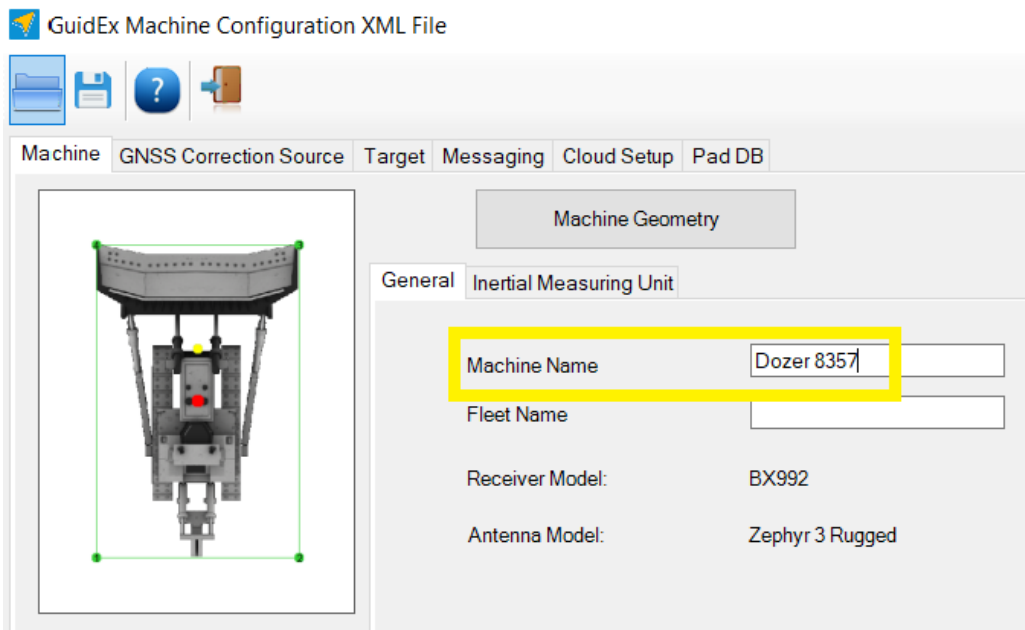


From here, you can then add machine folders in the group folders.

All Projects / GuidExDemo / Group 3 ▼



The machine folder name should match the machine name field defined in the configuration XML file, generated by GuidEx Manager.



From here, you can either:

- 1) Upload updated project files to the group folder, for files to be sent to all machines in that group folder
- 2) Upload updated project files in the individual machine folders, for files to be sent to only that specific machine

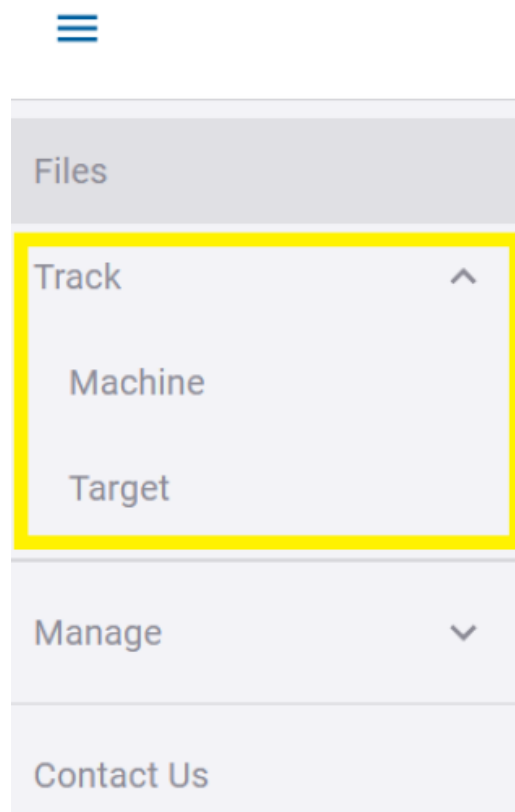
Note that this folder is only used for sending updated files to the machine; log files from machines will still be sent to the “Common” > “Uploaded” folder. To move machines to different groups, simply delete the machine from the previous group and add it to the new group folder.

Machine & Event Tracking

GuidEx Connect can be configured for various machine and target event tracking. These settings are configured per machine in the config XML file generated in GuidEx Manager, discussed later in this document.

Viewing Tracking in GuidEx Connect

To view the tracking events, go to the 3bar menu icon (upper left corner) and expand the Track section:

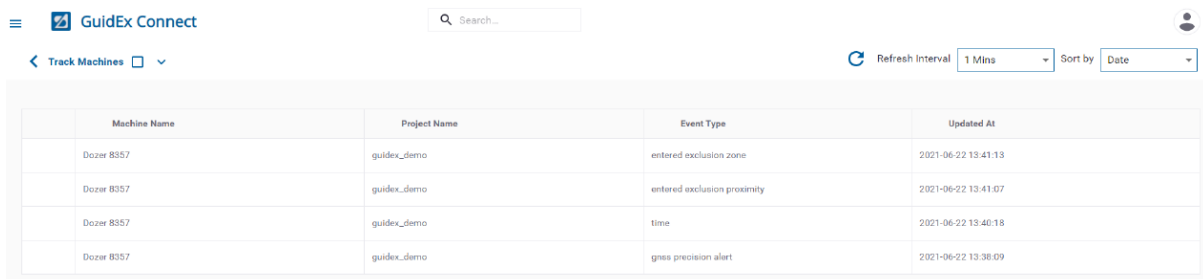


Track Machine

The following events appear under Track Machine section, if enabled:

- **Time:** this pulls the latest GuidEx time (event type 0) record from the log table at the time of request (based on time interval defined). Time events are logged in GuidEx every 10 seconds and 1 meter, or every 1 second and 1 meter if Rapid Logging option is enabled.
- **Zone Alerts:** this triggers when an exclusion or inclusion zone event occurs, as defined by the mapping layers in the projects exchange database. When an operator breaches the proximity or zone boundary of an exclusion or inclusion zone, the warning is displayed to the operator on the GuidEx screen, logged in the GuidEx local log file and, optionally, displayed here. Note that the proximity warnings appear upon exiting an exclusion zone or re-entering an inclusion zone.
- **GNSS Precision Alert:** this can be displayed each time the machine exceeds the GNSS precision threshold warning, based on the Horizontal & Vertical precisions defined in the GNSS Correction Source tab of XML config setup.
- **Pitch & Roll Alert:** this triggers each time the machine exceeds either the pitch or roll thresholds, as defined in the XML.

Records in the table are copied over with the most recent information. For example, only 1 time event will show for each machine, and the Updated At field will update when the record override occurs. Clicking on an event row displays a table with further information. Certain events display different information in this table, based on the event type; for instance, pitch/roll events will display the pitch and roll values, whereas a zone alert will display zone information, but not pitch/roll data, etc.



The screenshot shows the 'Track Machines' section of the GuidEx Connect interface. It includes a search bar, a refresh interval dropdown set to '1 Mins', and a sort by dropdown set to 'Date'. Below these controls is a table with the following data:

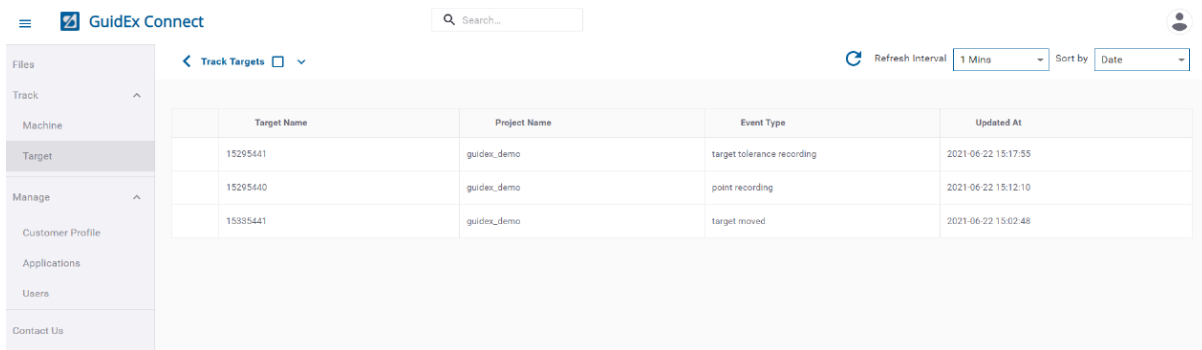
Machine Name	Project Name	Event Type	Updated At
Dozer 8357	guidex_demo	entered exclusion zone	2021-06-22 13:41:13
Dozer 8357	guidex_demo	entered exclusion proximity	2021-06-22 13:41:07
Dozer 8357	guidex_demo	time	2021-06-22 13:40:18
Dozer 8357	guidex_demo	gns precision alert	2021-06-22 13:38:09

Track Target

The following events appear under Track Target section, if enabled:

- Recorded event: there are 3 scenarios which classify as a recorded event:
 - i. Point target recording (from right drawer in GuidEx)
 - ii. Culture point recording
 - iii. Pad status changes
- Target moved: when an operator offsets/moves a target in GuidEx, this option will enable visibility into this event.
- Target tolerance: when target tolerance recordings occur (if enabled in XML), the location will be recorded in the log file and will be displayed here in GuidEx Connect.

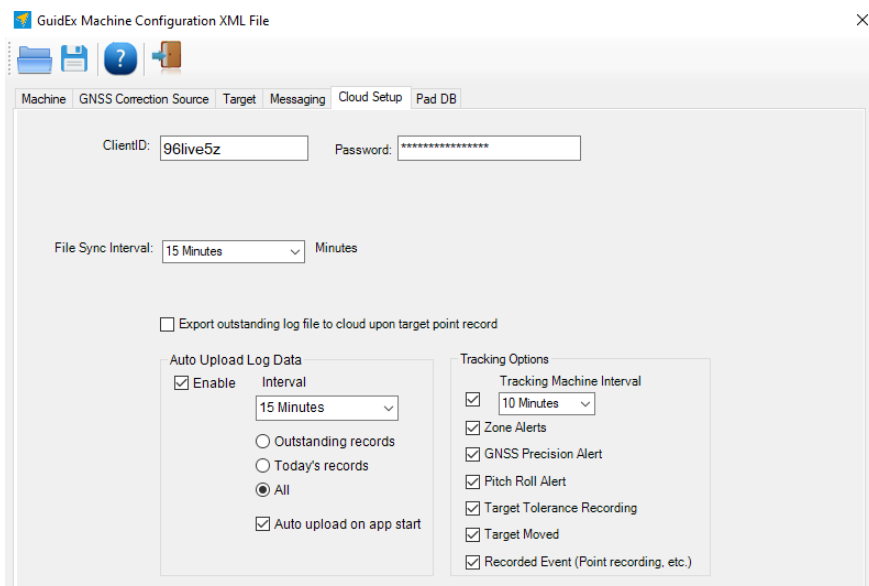
Records in the table are copied over with the most recent information. For example, only 1 time event will show for each machine, and the Updated At field will update when the record override occurs.



Target Name	Project Name	Event Type	Updated At
15295441	guidex_demo	target tolerance recording	2021-06-22 15:17:55
15295440	guidex_demo	point recording	2021-06-22 15:12:10
15335441	guidex_demo	target moved	2021-06-22 15:02:48

GuidEx Manager Setup

GuidEx Connect Cloud Login and Tracking settings are configured using GuidEx Manager in the Machine Config XML utility, in the “Cloud Setup” tab.



GuidEx Machine Configuration XML File

Machine | GNSS Correction Source | Target | Messaging | Cloud Setup | Pad DB

ClientID: Password:

File Sync Interval: Minutes

Export outstanding log file to cloud upon target point record

Auto Upload Log Data

Enable Interval: Minutes

Outstanding records

Today's records

All

Auto upload on app start

Tracking Options

Tracking Machine Interval: Minutes

Zone Alerts

GNSS Precision Alert

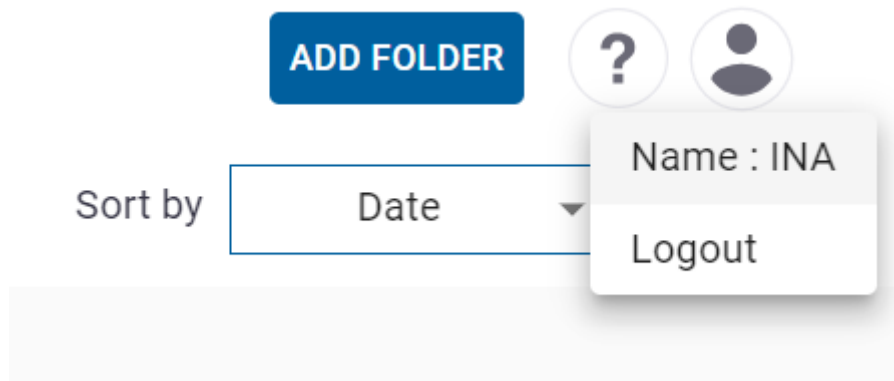
Pitch Roll Alert

Target Tolerance Recording

Target Moved

Recorded Event (Point recording, etc.)

Cloud Login consists of a Client ID and Password (Or "Secret"). While these are first configured in GuidEx Manager, the details can be found in GuidEx Connect, under the "Profile Icon" (upper right) in the "Application Detail" page (Name: xxxx)



Application Details

INA

Client ID	Secret
96live5z	Example Secret

Features

Roles

- User
- Super_admin
- Admin2

File Sync Interval

File Sync Interval: Minutes

File sync interval defines the duration of time in which GuidEx automatically checks for file updates (in all folders - common, group & machine). Note that GuidEx by default also syncs file updates at each app launch. This setting is optional - if checking at each app launch is sufficient, leave this field blank. Also note this file sync is only for updated project files; this is not used for syncing log files from GuidEx to GuidEx Connect - this is discussed later.

Auto Export Outstanding Logs

Export outstanding log file to cloud upon target point record

Enabling this option automatically uploads an outstanding log file from GuidEx to GuidEx Connect each point recording event (event type 9 in the log file)

Auto Upload Log Data

Auto Upload Log Data

Enable Interval

15 Minutes

Outstanding records

Today's records

All

Auto upload on app start

When enabled, log files from GuidEx are automatically uploaded to GuidEx Connect at the time interval defined. Choose the log file type desired to export.

When enabling the Auto upload on app start option, log files are exported from GuidEx to GuidEx Connect at each app launch.

Tracking Options

Tracking Options

Tracking Machine Interval

10 Minutes

Zone Alerts

GNSS Precision Alert

Pitch Roll Alert

Target Tolerance Recording

Target Moved

Recorded Event (Point recording, etc.)

All tracking is optional and are displayed either under Track Machines or Track Target sections in GuidEx Connect. The Machine tracking interval is used for time tracking records only; all other records are updated at time of event.

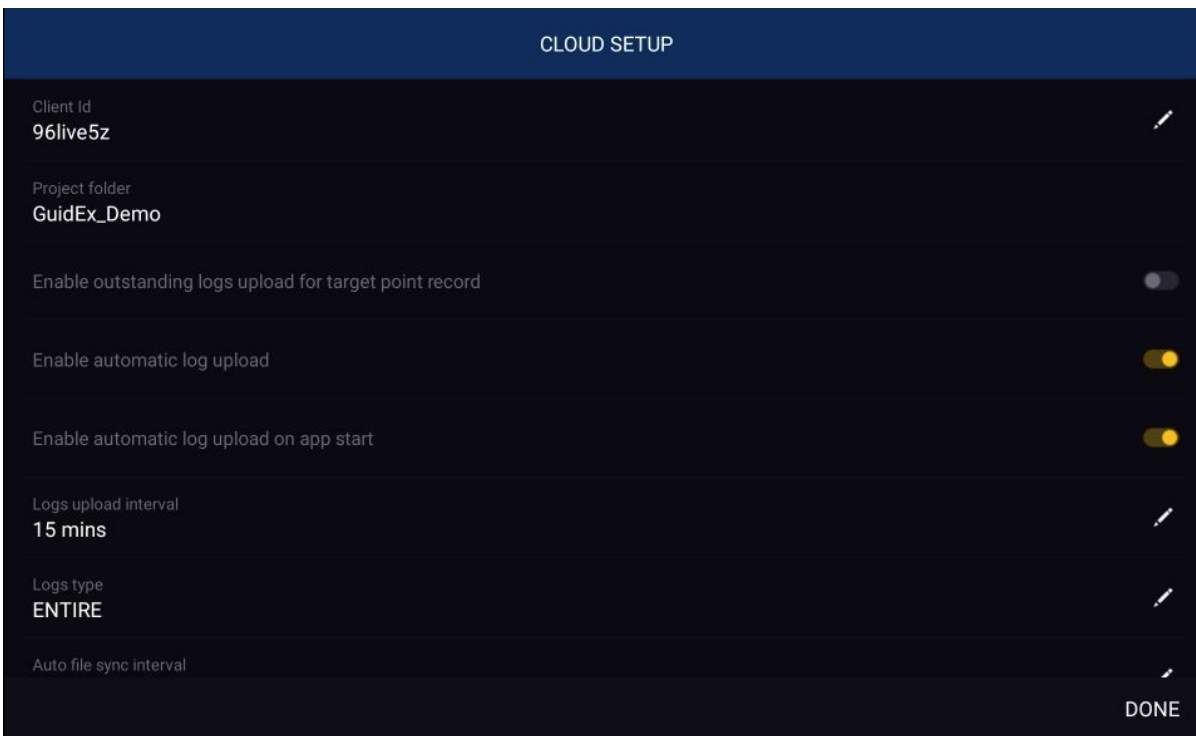
GuidEx Cloud Setup

In the GuidEx app, launch the left-hand drawer and tap 7 times on “Cloud Setup”.

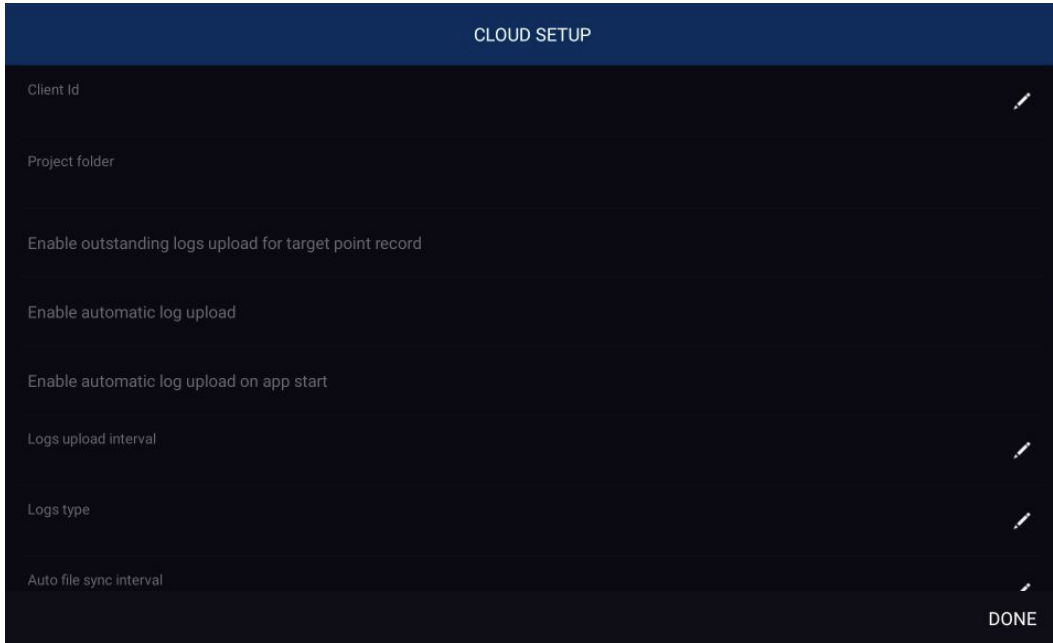


Here you can either:

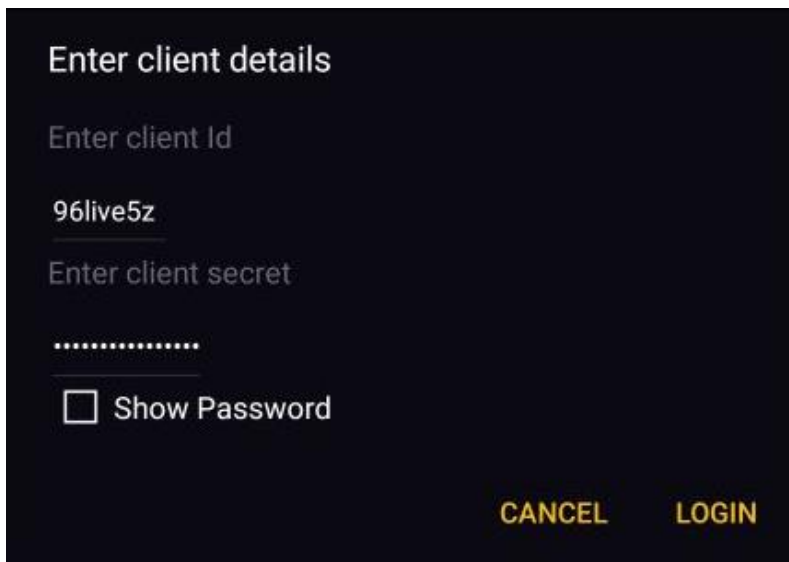
- 1) View the cloud credentials and settings defined in the XML file. These settings can be enabled/disabled manually, overriding the XML file settings. Note that a Reset Setup (reselecting the XML file) will overwrite any manual edits performed).



2) Manually define cloud setup parameters: This option can be used to import a first project to the display, when no previous project containing XMLs has been imported. Note that it is still advised to setup the cloud parameters in the XML files, as loading an xml config file will override any details manually defined here. In this scenario, launching the Cloud Setup page shows empty cloud setup details.



Tapping the Pencil icon next to Client ID enables the following dialog to be enabled:



Once the Client ID & Secret have been entered (found in GuidEx Connect under Application Details. See GuidEx Manager Setup section for details), you can then save, and select Done. The sync status will show "Login Successful" – assuming an internet connection is present. Next you can go to Project Setup and select Import Project. If a USB is connected, you will be prompted to Import from USB or Cloud; if no USB is present, GuidEx will begin searching GuidEx Connect for Projects to import (found in the initial_project_import folder, as a zip format). Select the project to import.

User Management

GuidEx Connect has 3 tiers of roles with varying privileges:

User: The user role is a basic access level, allowing upload and download of files and viewing tracking information. Users cannot manage other users on the account, and cannot view the Client ID & Secret used for tablets to login to GuidEx Connect

Admin I: Admin I role has all capabilities that User roles have, in addition to being able to manage users within their defined application.

Admin II: Admin II role has all capabilities that Admin I roles have, in addition to being able to manage users within all applications defined to the customer level and can view the Client ID & Secret information. Customer accounts can have multiple Applications, to help segment projects/teams.

As an Admin I or Admin II, to manage users, tap the 3-bar menu in the upper left corner and select "Manage" > "Users".

Support

Please contact us at support@inapl.com if you require any further assistance.

Version	Task	Responsibility	Reason	Date
1	Author	Z. Dredge	First INA branded document version	17/10/2023
2	Author	Z. Dredge	Re-branded	25/11/2024