

HARPS Dashboard

User's Manual

2018 Aug 06

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Introduction

This is a manual of <https://aqua.harps4.com/dashboard>.

Please refer this manual as necessary for daily maintenance.

In order to use this Website you need to obtain an IoTIZR separately. If you have not yet obtained an IoTIZR please visit <https://www.harps4.com> and check Introduction and How to join.

For those who want to operate an IoTIZR first, please visit <https://www.harps4.com> and check Quick Start Guide from Help & Learning.

To open <https://aqua.harps4.com/dashboard>, open <https://www.harps4.com> and click Login button at the top right of the screen.

NOTES

This document may be changed without prior notice in order to reflect additions of functions or corrections of defects.

Supported Browser

The Website supports the following browser. Please use the latest versions of them.

Google Chrome

Mozilla FireFox

Apple Safari

Microsoft Edge

Microsoft Internet Explorer

General Workflow

Receive invitation email and reset password

- Receive an invitation email from no_reply@harps4.com.
- A username and a temporary password will be issued. Please update the password.
- Please make a note of username, as it is used when logging in.
- Reference page: [Introduction](#), [Activation screen](#)

Log in

- Log in from <https://aqua.harps4.com/dashboard/login>.
- Reference page: [Login screen](#)

Add an Organization, which is a group for operations, and users belonging to the Organization as necessary

- You can add Organizations in units of large organizations, distributors, or dealers, and add users to each Organization.
- You can classify users by assigning Role, such as Administrator, Manager, and Staff.
- An invitation email will be automatically delivered to the created users.
- Reference page: [Organization Management](#), [User Management](#), [Add User](#), [Role](#)

Register IoTIZR with your smartphone

- Download the smartphone application Harps Toolkit and register IoTIZR(s).

Monitor the registered IoTIZR(s) with PC or tablet

- You can find filters whose replacement times have arrived on the Home screen. In addition, you can check individual IoTIZR on Monitoring screen.
- Reference page: [Home](#), [Monitoring](#)

After replacing a filter, reset the filter with Filter Reset

- When a filter replacement time arrives, a notification will be displayed, then when you have actually replaced the filter, perform Filter Reset to record the filter replacement.
- Reference page: [Filter Reset](#)

Description of Screens

Activation screen

URL: <https://aqua.harps4.com/dashboard/activate>

Activate your account

Check your email and enter the username and temporary password. And you need to change temporary password. Please enter new password.

Username*
republic.r2d2

Temporary Password*
aaff85sf

New Password*

This service is brought to you by Aplix Corporation. By using this service, you agree and consent to the Aplix HARPS Terms of Service ([HARPS Terms of Service](#) , [Privacy Policy for IoT Solution](#)) and arbitration before the International Chamber of Commerce for any disputes between us.

☐ I have read and agree with...

Submit

HARPS

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The activation screen allows you to perform the first login using information given in the invitation email. This screen opens when you click a link specified in the invitation email from no-reply@harps4.com. Please log in using "username" and "temporary password" included in the invitation email.

We recommend that you take notes as "username" is necessary for logging in.

Login screen

URL: <https://aqua.harps4.com/dashboard/login>

This screen appears when you click Log in button at the top right of <https://www.harps4.com>.

Please enter your username and password.

As to the username, please refer to the email from no-reply@harps4.com.

As to the password, please enter the one you have changed at the first login.

If you have forgotten your password, please click Forgot your password?

If username is known, the password can be reissued.

Items common to each screen

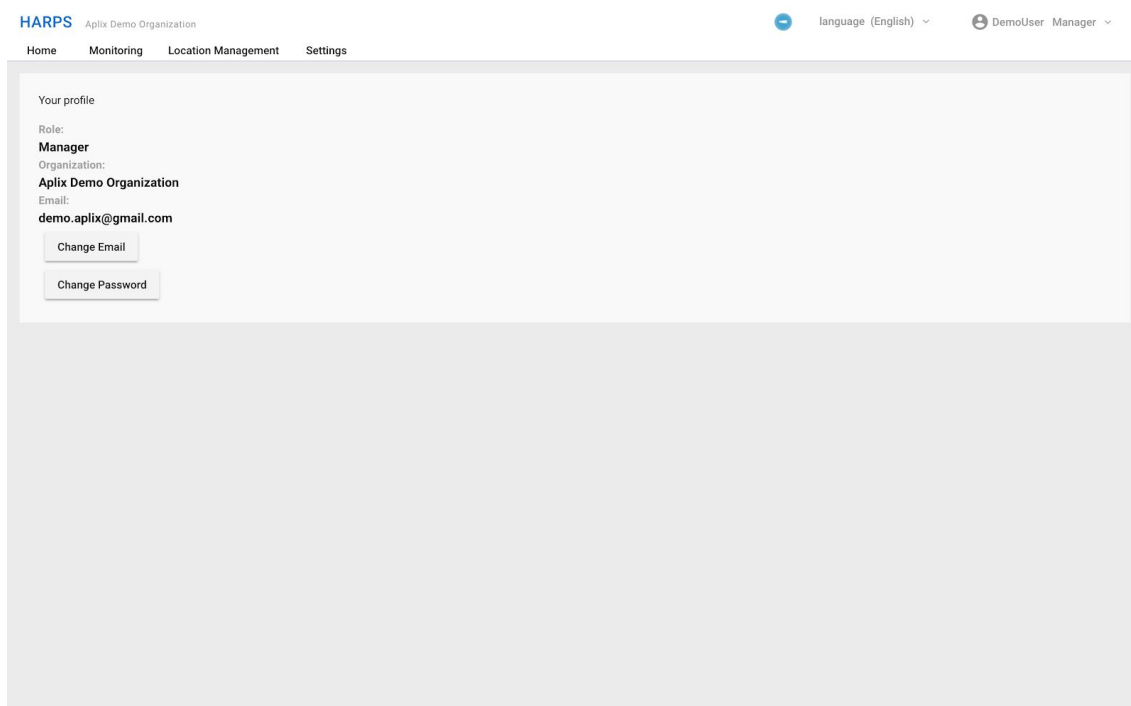
Items commonly displayed on screens after login are described below.

language

Allows switching languages. Currently supported languages are Japanese and English.

Profile

URL: <https://aqua.harps4.com/dashboard/profile>



Shows information of the user currently logged in.

Role

Shows the Role of the user. It can be Administrator, Manager, or Staff. For details of each Role, please see [here](#).

Organization

Shows the organization the user belongs to.

Email

Shows the email address of the user.

Change Email

Allows changing the email address of the user.

Change Password

Allows changing the password of the user.

Menu items at the top of the screen

Home

Switches to the Home screen.

Monitoring

Switches to the Monitoring screen.

Location Management

Switches to the screen for managing Locations.

Settings

Switches to the Settings screen.

Home

URL: <https://aqua.harps4.com/dashboard/>

The screenshot displays the HARPS dashboard for 'Aplix Demo Organization'. The top navigation bar includes 'Home', 'Monitoring', 'Location Management', and 'Settings'. The user is logged in as 'DemoUser Manager'. The dashboard is divided into three main sections:

- Notifications (2):** Two red alert boxes are shown. The first is for 'ABC Cafe > Kitchen [RO Membrane Efficiency]' with the message 'Alert value reached'. The second is for 'Pressure Sensor Demo > Pressure Sensor [RO Membrane Efficiency]' with the message 'Alert value reached'.
- Quick Link:** Two buttons are present: 'Monitoring Location (7)' with a location pin icon and 'Monitoring Device (3)' with a device icon.
- Maintenance Calendar:** A calendar for May 2018. The calendar shows dates from 29 to 9. The date '11' (Friday) is highlighted in yellow, indicating a scheduled filter replacement.

This screen shows scheduled dates for communicating filter replacement times, water purifiers with a scheduled notification date having already arrived, water purifiers with a scheduled notification date coming soon, and water purifiers whose RO membrane efficiency has lowered than that set in RO Membrane Efficiency.

Notification

Shows notifications from water purifiers. Clicking on a notification will bring up the Monitoring screen, where details of the water purifier are displayed.

The notifications will disappear when Filter Reset is performed.

An RO Membrane Efficiency notification will disappear when the quality of water recovers, for example, by replacing the RO membrane.

Quick Link - Monitoring Location

Brings up the Monitoring screen, where the Location is selected.

Quick Link - Monitoring Device

Brings up the Monitoring screen, where the Device is selected.

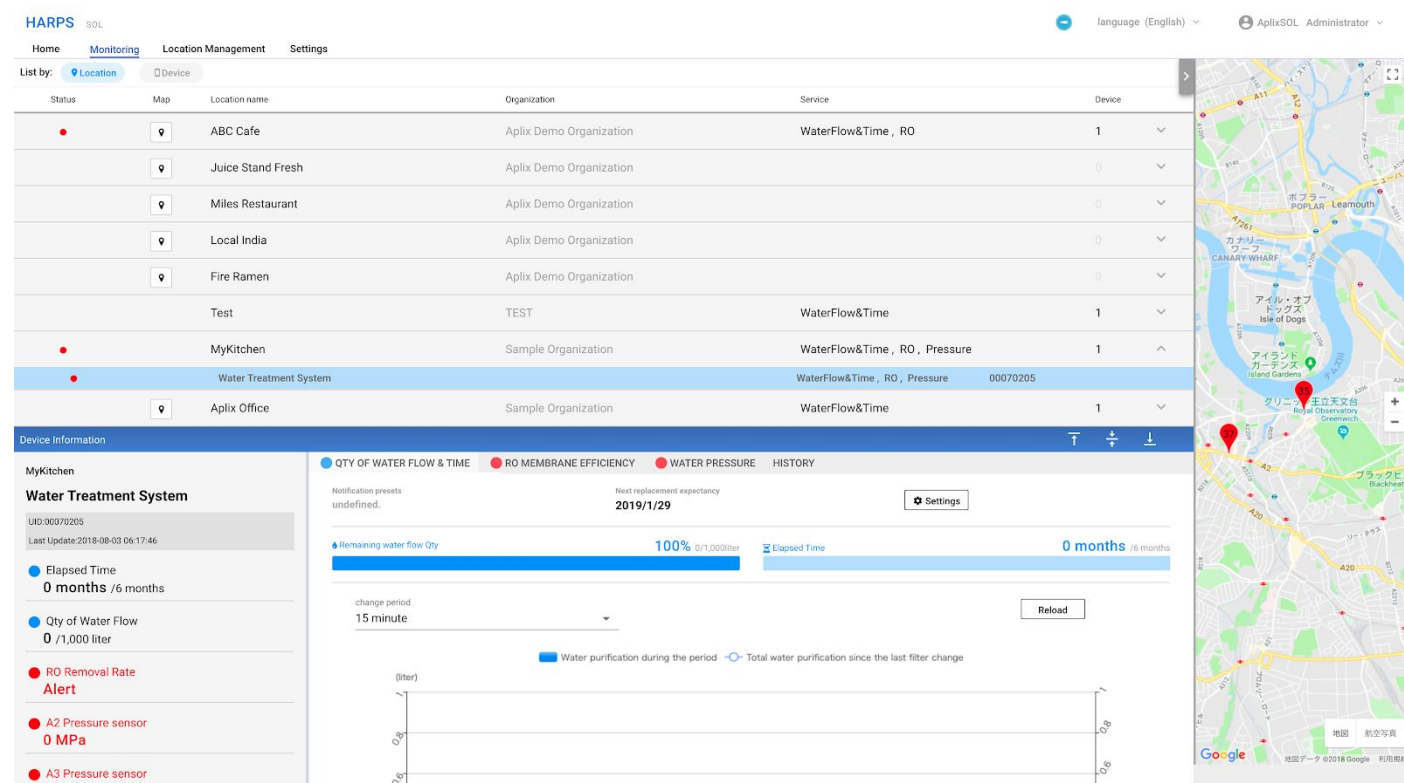
Maintenance Calendar

In a calendar, dates corresponding to information communicated by filter replace notifications are displayed. The information communicated by a notification that arrived in the past is indicated on

the day specified in the notification. The notification disappears when Filter Reset is performed.

Monitoring

URL: https://aqua.harps4.com/dashboard/watersystem_list



This screen is broadly divided into three parts. An upper part shows a list of Locations; a lower part shows information of a selected device; and a right part shows a map. You can select one of three screen configurations by selecting one the three icons located on the right side of Device Information. The three screen configurations are as follows: (1) a list of Locations are displayed over the whole; (2) a list of Locations and the device information are displayed half-and-half; and (3) the device information is displayed over the whole.

List of Locations

The items listed below are presented in a table format for each Location. When you click on the V button on the right side or anything other than Map, information of IoTIZRs present at the Location is displayed on a lower portion of the screen.

Status

An icon appears if a notification has arrived from an IoTIZR.

Map

An icon appears if a geographical location has been registered. Clicking on the icon will cause the map on the right side to change to show the registered geographical location.

Location name

The name of the Location is shown. When an IoTIZR is being displayed, the name of the water purifier is shown.

Organization

Shows the Organization that owns the IoTIZR.

Service

Services used in the Location are shown. When an IoTIZR is being displayed, the Services registered with the IoTIZR are shown.

Device

Shows the number of IoTIZRs used in the Location. If an IoTIZR is being displayed, a unique name (UID) that identifies the IoTIZR is shown. The name is composed of 8 characters of 0-9 and A-F.

Device Information

Left side of screen

Owner organization

The name of organization that owns the water purifier is shown.

Name of water purifier

The name that identifies the water purifier is shown. This is the name set first with HARPS Tool Kit. The name can be modified with HARPS Tool Kit.

UID

A unique ID that identifies the IoTIZR is shown. The ID is composed of 8 characters of 0-9 and A-F. The ID is not changeable.

Elapsed Time

A time elapsed after the last replacement of the filter is shown. The elapsed time is reset to 0 when Filter Reset is performed.

Qty of Water Flow

A quantity of water flow after the last replacement of the filter is shown. The quantity is reset to 0 when Filter Reset is performed.

RO Removal Rate

Shows the latest RO removal rate.

A1, A2, A3 Pressure sensor

Shows the latest pressure sensor rate that is connected to A1, A2, A3.

Location Info

Shows the address, phone number and email address registered in the Location.

Central part of screen (QTY OF WATER FLOW & TIME tab)

Notification presets

Currently not available and "undefined" is shown.

Next replacement expectancy

Shows a date at which the life of filter is predicted to expire.

Settings

Allows changing flow life, time life and flow sensor to use. Currently, preset settings is not available.

Remaining water flow Qty

Shows a quantity of water flow until a notification is issued by the ratio of the quantity to the whole.

Elapsed Time

The time elapsed from when the filter was reset is shown. If the IoTIZR has been just installed, a time elapsed from the installation is shown.

change period

Allows changing the time interval of the graph. If the presentation of the graph causes an error when changing the time interval, please try changing to another time interval once and restoring to the original.

Reload

Updates the graph.

Graph

A bar chart shows a quantity of water that has flowed in a predetermined period of time, and a line graph shows an accumulated quantity of water that has flowed after the filter was replaced.

Filter Reset

Click this when you have replaced the filter. When performed, Remaining water flow Qty is reset to 100% and Elapsed Time is reset to 0. When a filter replacement notification is present, that notification will disappear.

Notification Threshold

The flow life and time life are shown. User set these values while they register the IoTIZR with HARPS Tool kit. Also, they can be changed using settings in this screen.

Central part of screen (RO MEMBRANE EFFICIENCY tab)

Settings

Allows changing the threshold values. Currently preset is not available.

change period

Allows adjusting the time interval of the graph.

Reload

Updates the graph.

In a normal situation, a line graph decreasing from a high value to a low value is shown.

latest Rate

Shows the latest RO removal rate.

Notification Threshold

The impurity removal rate is shown. User set these values while they register the IoTIZR with HARPS Tool kit. Also, they can be changed using settings in this screen.

Central part of screen (WATER PRESSURE tab)

A1, A2, A3

Allows selecting port which is connected to the pressure sensor.

Settings

Allows changing the threshold values. Currently preset is not available.

Current pressure value

Current pressure value is shown.

change period

Allows adjusting the time interval of the graph.

Reload

Updates the graph.

In a normal pressure situation, a line graph decreasing from a high value to a low value is shown.

In a differential pressure situation, a line graph increasing from a low value to a high value is shown.

Notification Threshold

The water pressure thresholds are shown. User set these values while they register the IoTIZR with HARPS Tool kit. Also, they can be changed using settings in this screen.

Central part of screen (HISTORY tab)

Shows history such as date of installation and date of replacing the filter.

Location Management

URL: https://aqua.harps4.com/dashboard/customer_list

The left half of Location Management shows a list of Locations, and the right half shows details of items of the list. When an item of the list shown on the left half is selected, the right half shows details of the selected item only.

The screenshot displays the HARPS Location Management interface. The top navigation bar includes 'Home', 'Monitoring', 'Location Management' (active), and 'Settings'. The left sidebar lists locations with checkboxes. The right panel shows details for selected locations, including 'Leakage Sensor Demo', 'Pressure Sensor Demo', 'ABC Cafe', and 'Juice Stand Fresh'. Each detail view shows 'Active Device' count, 'Address', 'Contact' information, and 'Others' (latitude/longitude status).

Location Name	Active Device	Address	Contact	Others (latitude/longitude)
Leakage Sensor Demo	1			undefined.
Pressure Sensor Demo	1			undefined.
ABC Cafe	1	4 Old Park Ln, Mayfair, London W1K 1QW イギリス		registered.
Juice Stand Fresh	0	Spanish Gallonn Tavern London		registered

Add Location

Allows adding a Location. The following items can be specified:

Location name (mandatory)

The name of the Location

Organization (mandatory)

The organization that manages the Location

Phone

The phone number of the Location

Address

The address of the Location

Search

Allows finding latitude and longitude from the address.

Latitude

The latitude of the Location

Longitude

The longitude of the Location

Get the numbers form map

Allows specifying the address, latitude and longitude by pointing a place in Google Map.

BASIC INFORMATION

Initially, all the Locations are shown. When some items of the list on the left side are selected with their checkboxes, only the Locations corresponding to the selected items are shown. A gear icon is given on the left side of each Location. Clicking on the gear icon allows editing or deleting the Location (Administrator and Manager only).

Active Device

Shows the number of IoTIZRs added to the Location.

Address

Shows the address of the Location.

Contact

Shows the phone number and the email address.

Others

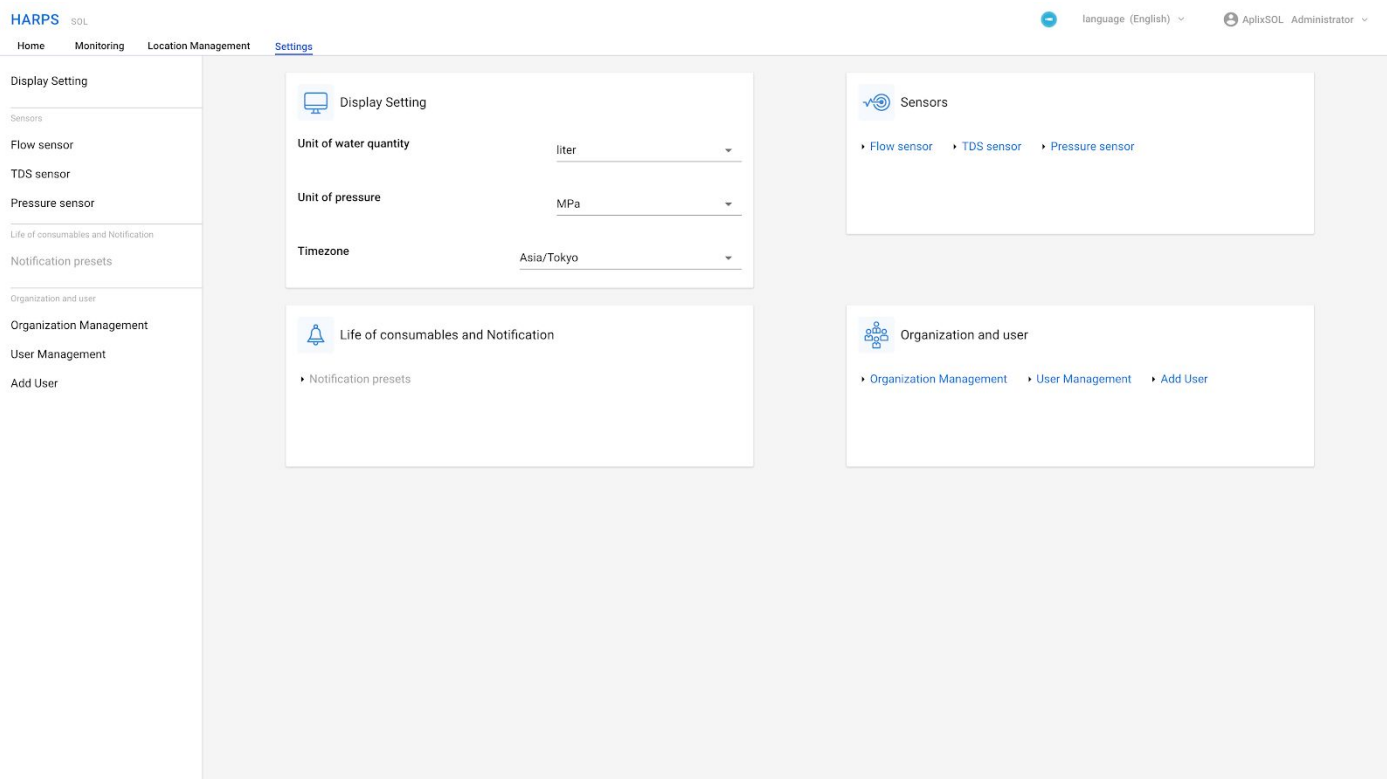
If the latitude and longitude are registered, "registered" is shown. If not registered, "undefined" is shown.

Usage Report

Shows a report presenting the number of devices belonging to the Locations selected by checkboxes. This report can be printed out.

Settings

URL: <https://aqua.harps4.com/dashboard/settings/display>



Display Setting

Unit of water quantity

Allows selecting a unit from liter and gallon.

Unit of pressure

Allows selecting a unit from MPa and PSI.

Timezone

Allows specifying a timezone.

Sensors

Flow sensor

Allows checking the types of flow sensors supported.

TDS sensor

Allows checking the types of TDS sensors supported.

Pressure sensor

Allows checking the types of pressure sensors supported.

Life of consumables and Notification

Notification presets

This is a function reserved for future and is currently not available.

Organization and user - Organization Management

URL: https://aqua.harps4.com/dashboard/settings/organization_detail

The screenshot displays the HARPS SOL web application interface. The top navigation bar includes 'HARPS SOL', a language dropdown set to 'English', and a user profile for 'AplixSOL Administrator'. The main sidebar on the left contains various menu items: 'Home', 'Monitoring', 'Location Management', 'Settings', 'Display Setting', 'Sensors', 'Flow sensor', 'Life of consumables and Notification', 'Notification presets', 'Organization and user', 'Organization Management', 'User Management', and 'Add User'. The 'Organization Management' section is expanded, showing sub-options: 'Organization Management', 'User Management', and 'Add User'. The 'Add Organization' sub-option is selected, leading to a form titled 'Add Organization'. This form contains several input fields: 'Organization name*' (pre-filled with 'Aplix Demo Organization'), 'Description', 'Contact' (with the label 'the person in charge'), 'Telephone', and 'Email' (pre-filled with 'demo.aplix@gmail.com'). An 'Edit' button is located at the bottom right of the form. A 'Delete Organization' link is visible in the top right corner of the form area.

Add organization

Allows adding an organization. Clicking this will display the following items to be input:

Organization name (mandatory)

The name of the organization

Description

Description of the organization

Parent Organization (mandatory)

Allows selecting a parent organization.

Contact

The name of a contact person

Telephone

The telephone number of the contact person

Email

The email address of the contact person

Organization and user - User Management

URL: https://aqua.harps4.com/dashboard/settings/user_list

The screenshot displays the HARPS SOL dashboard. The top navigation bar includes 'Home', 'Monitoring', 'Location Management', and 'Settings'. The 'Settings' section is active, showing 'Organization and User Management' with sub-tabs for 'Organization Management', 'User Management', and 'Add User'. The 'User Management' tab is selected, showing a table of users. The table has columns for 'Username', 'Email', and 'Role'. A single user, 'DemoUser', is listed with the email 'demo.aplix@gmail.com' and the role 'Manager'. A search bar is visible at the top right of the table. The left sidebar contains various settings categories, including 'Display Setting', 'Sensors', 'Flow sensor', 'Life of consumables and Notification', 'Notification presets', 'Organization and user', 'Organization Management', 'User Management', and 'Add User'.

Username ↑	Email	Role
DemoUser	demo.aplix@gmail.com	Manager

Allows editing or deleting a user by clicking the organization the user belongs to and clicking a tool icon of the user on the right side. When editing a user, you can modify the Role of the user as well as the organization the user belongs to.

Organization and user - Add User

URL: https://aqua.harps4.com/dashboard/settings/user_invite

The screenshot shows the HARPS SQL dashboard interface. At the top, there's a navigation bar with 'Home', 'Monitoring', 'Location Management', and 'Settings'. The 'Settings' tab is active. Below the navigation bar, there's a sidebar on the left with a tree view containing 'Display Setting', 'Sensors', 'Flow sensor', 'Life of consumables and Notification', 'Notification presets', 'Organization and user', 'Organization Management', 'User Management', and 'Add User'. The main content area is titled 'Organization and User Management' and has three sub-tabs: 'Organization Management', 'User Management', and 'Add User'. The 'Add User' tab is selected. Below the sub-tabs, there's a 'Send invitation email' button and a link 'We are planning the CSV Import function'. Below this, there are four input fields: 'Username*', 'E-mail*', 'Role*', and 'Organization*'. Each field has a red asterisk indicating it's mandatory. Below the 'Username*' field, there's a red error message 'Username is required.' Below the 'E-mail*' field, there's a red error message 'Email address is required.' Below the 'Role*' field, there's a red error message 'Please select'. Below the 'Organization*' field, there's a red error message 'Please select'.

Allows inviting a user.

Send invitation email

This becomes valid when the items below are input. Clicking this button will send an invitation email.

If the input username has been already used, a message reporting a failure will be displayed. In such a case, please input another username. Please note that a username must be unique whole over the service. The inputted username may possibly be in use in other organization even when it is not used in the organization the user belongs to.

Username (mandatory)

The name of the user

E-mail (mandatory)

The email address of the user

Role (mandatory)

The role assigned to the user

Organization (mandatory)

The organization the user belongs to

Terms

HARPS Tool Kit

A setting application for use with a smartphone. iOS versions and Android versions are available and are respectively downloadable for free from App Store and Google Play.

IoTIZR

A device for sending measurement results and/or states of sensors, such as a quantity of water consumed, to a cloud.

Location

A place where a water purifier is installed. A plurality of water purifiers (IoTIZRs) can be installed at one Location.

Organization

An organization a user belongs to

Role

The Role assigned to a user, classified into Administrator, Manager and Staff. See the table below for details of Role.

				Administrator	Manager	Staff
Home	Notification		Display of Notifications	Yes*1	Yes*1	Yes*1
	Calendar		Predicted dates of replacement are plotted	Yes*1	Yes*1	Yes*1
Location management	BASIC INFORMATION	Browse	Browse list of Locations	Yes*1	Yes*1	Yes*1
		Edit	Edit Location	Yes*1	Yes*1	Yes*1
		Delete	Delete Location	Yes*1	Yes*1	No
	Usage Report	Browse	Browse Usage Report of Location	Yes*1	Yes*1	Yes*1
Settings	Management of organization		Browse and edit information of Organization	Yes*1	Yes*1	No

	Management of users	Browse users belonging to Organization	Yes*1	Yes*1	No
	Invitation of user	Send invitation email to user whose account is to be added	Yes*1	Yes*1	No

*1: Operations only for those under the organization of the user are available.

User

The unit of logging in

Trouble Shooting

General (erroneous display, endless loading etc.)

The supported browsers are the latest versions of Google Chrome, Mozilla FireFox, Apple Safari, Microsoft Edge, and Microsoft Internet Explorer.

Please try deleting browse history of your browser.

If the situation does not change, please contact us by inputting necessary information at <https://www.harps4.com/contact.html>

Want to delete notifications

As to notifications of update and/or expiration of a filter, performing Filter Reset will delete the notifications. As to a caution and/or an alert in connection with the RO removal rate, when the RO membrane is replaced and the RO removal rate increases to exceed the setting value, the notifications will automatically disappear when the screen is opened next time.

Want to add an organization

You can add an organization in Settings at Organization Management. If your Role is Staff, however, you cannot add an organization. In such a case, please ask a person whose Role is Manager or Administrator.

Want to add a user

You can add a user in Settings by Add User. If your Role is Staff, however, you cannot add a user. In such a case, please ask a person whose Role is Manager or Administrator.

A message "Add Account failed. (UsernameExistsException) " appears

A user having the same name may possibly have been added. Please try adding another username.

Want to change the name of a water purifier, the type of a flow sensor, and/or the threshold value for notification

You can change them with HARPS Tool Kit. When you have changed them and open the Web screen, those will be shown with changed values.

Want to attach a new sensor to an IoTIZR that has been registered already

Please delete the IoTIZR with HARPS Toolkit, then attach the new sensor to the IoTIZR, and then register the IoTIZR with HARPS Toolkit again. Please note that values of the sensors will be reset at this circumstance.