



# Installation and User Guide

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## AASHTOWare Project Mobile Tester™

Version 1.0

Prepared by



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# Installation and User Guide

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Thank you for trusting AASHTOWare Project Mobile Tester™ to aid in your field sampling efforts. This Installation and User Guide is intended to help System Administrators work together with Field Personnel to install AASHTOWare Project Mobile Tester on devices intended for field sampling support. This guide also discusses required and recommended data configuration in AASHTOWare Project necessary for AASHTOWare Project Mobile Tester use.

It is important to note that AASHTOWare Project Mobile Tester requires licensing of AASHTOWare Project 4.2 (or higher) Construction and Materials modules and a SYNC Service for AASHTOWare Project™ connection.

## 1. Device Requirements

1. If you are using an **iOS device** (Apple mobile devices where screen interaction is by touch) you will need to make sure your device is running iOS 11.3 or higher. AASHTOWare Project Mobile Tester also requires that iOS devices are using Safari.
2. If you are using an **Android device**, you will need to use Google Chrome version 65 or higher.
3. If you are using a **Windows device**, you can use Google Chrome version 65 or higher, or Microsoft Edge version 17.17063 or higher.

### 1.1 Installation for Field Users

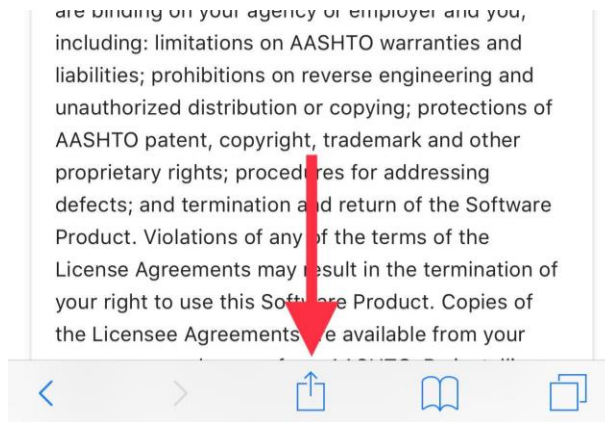
Now that you know your device's operating system and browser requirements, type in the following link to your appropriate browser's address bar:

**AASHTOWare Project Mobile Tester Link:** <https://mobiletester.aashtowareproject.org/>

**Note:** Depending on your agency’s policies, you may need to whitelist ‘mobileinspectorsync.infotechfl.com’ and ‘\*.s3.amazonaws.com’

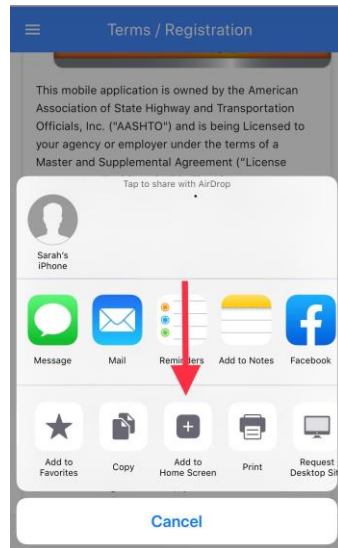
## 1.2 iOS Installation

1. If you are using an **iOS device**, once you open the link in Safari, **YOU NEED TO DOCK THE WEB-PAGE APP TO YOUR HOMESCREEN FIRST** before you register your device. This will ensure data integrity stays intact.
2. To dock AASHTOWare Project Mobile Tester to your Home Screen on an iOS device you will need to click the button at the bottom of the page that looks like a box with an upwards arrow coming from it (See Below).



3. Once you click that button, you will want to click the ‘Add to Home Screen’ button to dock the webpage, which will make the app look and feel like a traditional app and will ensure data is retained properly.

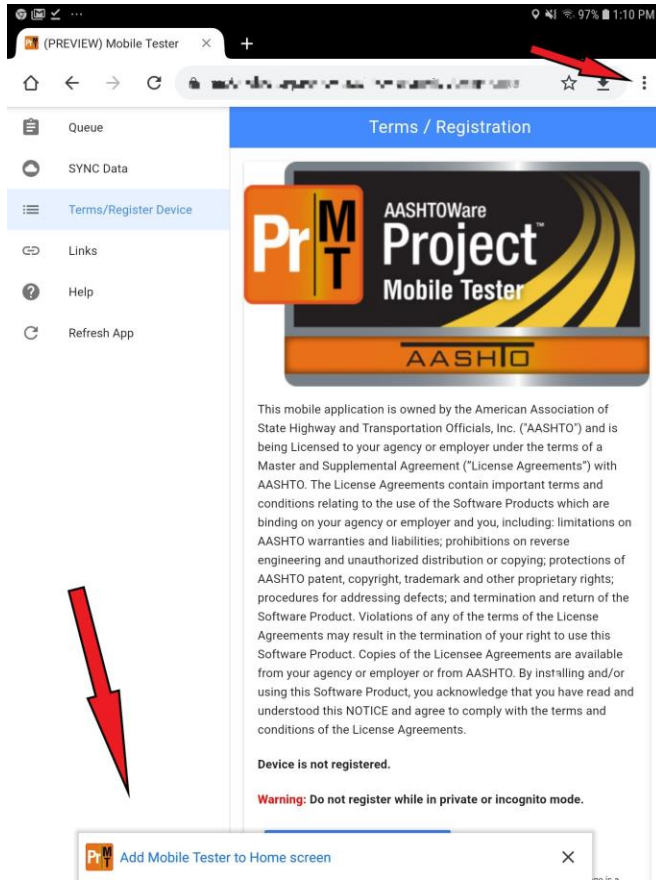
**Note:** If you do not immediately see the Add to Home Screen option as shown below, that task bar scrolls horizontally, so you might need to scroll to the right to locate this option.



4. You will then be prompted to confirm the name of how you want the app displayed. You may edit the name if you wish, and then click 'Add' at the top right of the page. Once the web page is added to the home screen, the browser will close and you should see the AASHTOWare Project Mobile Tester icon added to your home screen icons. AASHTOWare Project Mobile Tester will now operate and look like a traditional app when you open it from that icon.

### 1.3 Android Installation

1. If you are using an **Android device**, once you open the link in Chrome, you should see a dialogue box at the bottom of the page that includes the logo and the text "Add AASHTOWare Project Mobile Tester to Home Screen". If you do see this prompting, click the prompt text and then click 'Add' on the pop-up window prompt.



2. If you do not see the prompt at the bottom of the screen as shown above, click the three vertical dots icon at the top right of the page and select the ‘Add to Home screen’ option. Click the ‘Add’ option on the pop-up window. If the web page remains open, you may close it and then select the AASHTOWare Project Mobile Tester icon on the Home screen to open the app in the traditional app view.

## 1.4 Windows Installation

1. If you are using a **Windows device**, once you open the link in Chrome click the three vertical dots icon at the top right corner of the page and select the ‘Add to Home screen’ or ‘Install Mobile Tester’ option, depending on the version of Chrome in use.
2. Click the ‘Add’ option on the pop-up window. If the web page remains open, you may close it and then select the AASHTOWare Project Mobile Tester icon on the Home screen to open the app in the traditional app view.

**Note:** Windows devices may also use Microsoft Edge for AASHTOWare Project Mobile Tester, though Edge currently does not allow docking to the Home Screen the same way Chrome does.



## 2. Device Registration

Once you have followed the above steps respective of your device type, you will need to register your device so that AASHTOWare Project (AP) will be able to pass data to it. Steps to register your device are as follows:

1. To register your device, click the blue ‘Accept Terms and Register’ button on the Terms/Register Device page. AASHTOWare Project Mobile Tester will automatically assign a unique Device ID for your device.
2. In AASHTOWare Project version 4.2 or higher, navigate to the User Summary page for the individual you want to set up with AASHTOWare Project Mobile Tester (see below). Add their newly assigned Device ID and select ‘Mobile Tester’ in the App Name drop down field. You may add a description of that device as well to help track which Device ID is associated with which device. Finally, click the ‘Save’ button in the top right corner of the page. Your device is now able to send and receive data packages.

User Summary

Person: Ben Coppenger

General

User Roles

Contract Authority

Source Authority

Devices

Search: Type search criteria or press Enter

Advanced Showing 5 of 5

New

Device ID	App Name	Description	Last Used
DVNZRXXX	Field Interviewer	Alexy - Desktop	
QRBRGNHB	Field Interviewer	Josh - Dekstop	
TKTROSTK	Field Interviewer	Josh - iPhone	
GNYLFGFP	Mobile Inspector	ben's iPhone 8s	
SPFXYYVG	Mobile Tester	chris' phone	

However, additional data setup is required in order to maximize the use of AASHTOWare Project Mobile Tester with AASHTOWare Project. Please see the section below on Data Setup to learn how to incorporate Agency Views, assign Lab Unit Tests, and other system requirements and recommendations for optimum use of AASHTOWare Project Mobile Tester.

## 3. Data Setup

The first part of passing data to AASHTOWare Project Mobile Tester is completing the connection between AASHTOWare Project and your AASHTOWare Project Mobile Tester instance. This is accomplished by the device registration described above. The second part of passing data to AASHTOWare Project Mobile Tester includes some actions that are required, as well as some actions that are recommended to help avoid confusion. The required and recommended data setup steps for AASHTOWare Project Mobile Tester are described below.

### 3.1 Required Data Setup

There are three required system data setup procedures that must be completed in order for the correct data to be sent to AASHTOWare Project Mobile Tester. They include the following:

1. The User must be assigned Contract Specific Authority to whichever Contract they intend to support with AASHTOWare Project Mobile Tester.
2. The Lab Unit the User is performing tests for needs to be marked as Mobile. This is accomplished by navigating to the Destination Lab Overview page in AASHTOWare Project, expanding the row for the Destination Lab that their respective Lab Unit is associated with, and then checking the box in the 'Mobile' column for their respective Lab Unit. The system will then identify which Tests are covered by that Lab Unit's Testing Qualifications and allow those tests to be passed to AASHTOWare Project Mobile Tester.

**Note:** AASHTOWare Project Mobile Tester ultimately validates which tests are available in the app from Test Assignment Information (TAI) data. TAI however, is dependent upon Material Action Relationship data and Lab Testing Qualification data. Even though there are no specific data setup steps required to connect TAI directly with AASHTOWare Project Mobile Tester, it is important to understand the system relationships between these various parts of the system to allow for efficient planning for AASHTOWare Project Mobile Tester use. Additionally, in order for tests to be available in AASHTOWare Project Mobile Tester, the Sample Type that is associated with a specific Material Test in TAI must match what is selected on the Sample Record in AASHTOWare Project Mobile Tester.

3. Most field tests that the AASHTOWare Project Mobile Tester user wants to record data for can be provided in the app. This is possible by using Agency Views in AASHTOWare Project. In order for a Test Method Agency View to be passed to AASHTOWare Project Mobile Tester, the specific fields of the Agency View that are intended to be available in AASHTOWare Project Mobile Tester need to be marked as Mobile. This is accomplished by navigating to the Agency Entity that supports the Agency View, and then navigating to the Agency Field Summary page for the field intended for AASHTOWare Project Mobile Tester use. Once on the Agency Field Summary page, the Validation Rule of Is Mobile needs to be added to the field.

**Note:** Please be aware that the following restrictions apply to Agency Views in AASHTOWare Project Mobile Tester:

- Only handles simple AV controls - detail or lists
- No calculations/Reference Specification Checks (see Recommended Data Setup step 4 below)
- No OnCreate Code

- No Conditional Formatting
- Allowed Field types:
  - Text
  - TextBox
  - TextArea
  - Dropdown
  - Datepicker

### 3.2 Recommended Data Setup

While these next steps are not required, we recommend them to help limit user confusion. Recommendations include:

- If agencies intend to allow website links accessible in the app to their users for reference, they will need to use the AASHTOWare Project Mobile Tester Links code table in AASHTOWare Project. **Note** that this code table will only generate in AASHTOWare Project once the Bridge to Mobile Tester process has been run.
- Set up a frequently recurring (e.g., every one to two minutes) Scheduled Event to run the Bridge to AASHTOWare Project Mobile Tester process. This will eliminate the need for Users to manually run this process each time they want to pass data back and forth, and will help ensure the AASHTOWare Project Mobile Tester user has the most up-to-date data.
- Photo file compression in AASHTOWare Project Mobile Tester is controlled by the Agency Option ‘Attachment Max File Size in Kilobytes’. In order to not interfere with large files that are being imported into AASHTOWare Project, it is recommended that this Agency Option value be left blank. If this field is left blank, AASHTOWare Project Mobile Tester will default to a photo file compression size of 1000 KB to help ensure file storage space in AASHTOWare Project Mobile Tester does not become an issue.
- AASHTOWare Project Mobile Tester does not currently respect Person Lab Testing Qualifications due to data size challenges in filtering out which tests are available to a user. However, each available Test in the app includes the Lab Unit name that is responsible for the test. This data condition can lead to multiple instances of the same test listed in the app, with the only differentiation between them being the associated Lab Unit. One way to avoid this data condition is to have a “Central” or “Template” Test and supporting Agency View that each Lab Unit could copy and rename to a unique test method and agency view/agency entity. This would require additional Test Assignment Information data setup, but could help avoid any confusion regarding which Test the AASHTOWare Project Mobile Tester user should record data for.

- Although AASHTOWare Project Mobile Tester doesn't allow calculations or reference specification checks within Agency Views, a possible alternate solution would be to set up an Agency View in AASHTOWare Project that does include the required calculations and reference specification checks. The Agency View that includes the calculations in AASHTOWare Project could integrate with the Agency Entity that is being synced back to AASHTOWare Project from AASHTOWare Project Mobile Tester so that the final result of the field test can be determined. Once the final result is determined in AASHTOWare Project, the Sample Record that contains the updated Test Method Agency View can be re-synced to the AASHTOWare Project Mobile Tester user so they can determine if their test result passes or fails. However, this would require an internet connection, though could be accomplished within a span of a few minutes.

## 4. SYNC Data Into AASHTOWare Project Mobile Tester

Once you have met the required data conditions for setup, you are now able to sync Contract information to your device for Mobile Tester. Follow these steps to begin syncing data into Mobile Tester:

1. If you have set up the Scheduled Event of Bridge to AASHTOWare Project Mobile Tester to run frequently (e.g. every 1 or 2 minutes) you will have to allow time for that process to run before you can initiate SYNC from AASHTOWare Project Mobile Tester. If you do not have that Scheduled Event set up, you will need to navigate to AASHTOWare Project and click the Actions button at the top right corner of the page with the downward-facing arrow above it.
2. Click the Execute Process option. You will be taken to the Execute Process list page.
3. Select 'Bridge To AASHTOWare Project Mobile Tester'. You will then be taken to a page that has the text "Enable Scheduling" next to a check box. If you have not set up the Scheduled Event mentioned above, you may set it up now by clicking the check box, which will then allow you to build out your Schedule Frequency information.
4. After you have either opted to forgo Scheduling or set up a Scheduled Event, press the button at the right side of the Execute Process - Bridge to AASHTOWare Project Mobile Tester blue component bar. If you have opted to forgo Scheduling, the button will read Execute. Once you click Execute, the process will begin to run immediately. If you have set up scheduling, it will read Schedule. Once you click Schedule, the time frame you established will have to expire before the process runs.
5. In AASHTOWare Project Mobile Tester, click the three horizontal line icon (hamburger icon) to open up the Menu. Select the SYNC Data option.

**Note:** If you have not registered your device yet, you will be unable to navigate to the SYNC Data page until you Accept Terms and Register.

6. On the SYNC Data page, click the blue ‘SYNC’ button. A “loading” pop-up window will display until the SYNC process has finished for AASHTOWare Project Mobile Tester and then will disappear once syncing is complete.

**Note:** For more information regarding the status of the Bridge to AASHTOWare Project Mobile Tester process, navigate to AASHTOWare Project and click the ‘Actions’ button at the top right corner of the page and then select ‘Open Process History’. A Bridge Output log and an error log will always be created if the process passes. If it fails, only an error log will generate. The Bridge Output log will be the best source of information regarding which data was passed to and from AASHTOWare Project Mobile Tester.

Once you have successfully synced the appropriate data to AASHTOWare Project Mobile Tester, your field personnel are ready to begin using Mobile Tester for their field data recording needs. The ‘Help’ information provided in AASHTOWare Project Mobile Tester discusses how to create sample records and record test data in the app.

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