

FAIMS101: Getting Started

This guide shows you how to install the FAIMS Mobile app and try our sample recording modules.

What you need:

- An Android 6.0+ device
- Access to fast internet via wifi
- 5 minutes

Step by Step

1. Go to the Play Store; download and install the FAIMS Mobile app onto your device.
2. Open the app, click 'Connect to Demo server' on the bottom left.
3. You should now see a scrolling list of the available 'modules'. Modules are FAIMS digital recording forms that can be tailored to specific projects and unique research workflows.
4. Click on any module and download it to your device (may take minutes).
5. Press 'Load the module' and explore the module!
6. After module download, you can switch off the internet, as the app works offline.



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FAIMS101: Getting Started

Tips and Tricks

Module download

- If you touch your device's screen while a module is downloading, the process will stop and you have to start over.
- Downloading modules with maps can take several minutes (e.g. CSIRO module)
- If you are asked 'Do you want to download or update the module?', then the module is already on your device.

Where does the module live on your device?

- The module sits in a folder with a long hexadecimal identifier in 'faims' > 'modules'.
- Deleting the module folder deletes the module off your device.
- *Deleting the folder deletes all unsynced data.*

Helpful notes

- In a module, note the bar at the top of the screen indicating GPS and syncing status.
- Each module has a side bar (swipe right from the left edge of the screen); it orients you within the module and contains action buttons like 'New', 'Duplicate', 'Delete' or 'Validate' a record.



To see detailed guidelines with visual documentation & troubleshooting, please scan the QR code.

FAIMS102: Coolest Features

Raise your data collection to a new level!

Annotations:

Digital 'scribbling on the margin' lets you collect additional info about your observations. Use it to enrich your data, or to collect metadata.

Certainty sliders:

Let you set the confidence with which you made your observation. Use when you are not 100% sure about the value of a given attribute.

Info Buttons:

Provide additional information about attributes, as specified by the user during design to help in the field.

Picture Galleries:

Let you pick a value using pictures, each of which represents controlled vocab term.

Hierarchical Dropdowns:

Allow you to progress through a series of embedded dropdown lists until you reach the desired term. Hierarchical dropdowns can use picture galleries!



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FAIMS102: Coolest Features

Instantaneous Translation:

Modules can be deployed in multiple languages. On the 'Load Module' screen, available translations appear in a dropdown. Each user can choose a preferred language.

Attach Photos to Records (& vice versa):

'Take a Picture' button connects you to the device's camera to snap as many shots as you like. Pictures are attached to your record and inherit its data upon export. To delete an attached picture, press it and hold, go to 'Picture management' and 'Delete'

Add Drawings to Records:

An 'Attach a File' button lets you attach one or more existing files to a record. See our 'Attach a Sketch' workflow #106 to produce digital sketches and tie them to records.

Duplicate a Record:

Use this button in the sidebar to make a duplicate record with automatically assigned new ID number. Pictures and attachments are usually not replicated. Save your effort when recording similar objects or situations!

For more, server-based features, see Guide#200.



Scan this QR code to have a guided demo of our coolest features!

FAIMS103: Deploy a Module

Deploy an existing module to all your devices.

What you need:

- Module definition packet (see other side)
- Android 6.0+ devices with the FAIMS Mobile app
- Admin access to a FAIMS server
- A local or internet connection to that server
- 10 minutes

How to Instantiate a Module on the Server:

1. Login into your FAIMS server with your username. The defaults are:
 - Username: `faimsadmin@intersect.org.au`
 - Password: `Pass.123`
2. Click the 'Create Module' button on top left
3. On the left side in the 'Static data' section, enter module name and metadata about your project.
4. On the right side, upload the definition documents in their respective slots:
 - Data Definition Schema (`data_schema.xml`)
 - User Interface Schema (`ui_schema.xml`)
 - User Interface Logic (`ui_logic.bsh`)
 - Translation file (`faims.0.properties`)
 - Validation file and CSS files (optional)
5. Push the 'Submit' button.
6. Connect your devices to the server; download your module (see Guide#101)



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FAIMS103: Deploy a Module

What is a 'definition packet'?

FAIMS modules are compiled from a set of 'definition files' uploaded to the server.

The definition packet can have from four to seven files:

- Data Definition Schema
- User Interface Schema
- User Interface Logic
- Translation('Arch16n') file(s)
- Validation file (optional)
- User Stylesheet (optional)
- Any static images (in a tarball, optional)

How do I get a module's definition packet?

- Download it from our github repository as a zip file (<https://github.com/FAIMS>).
- Download it from a FAIMS server, by pressing 'Download Module' while logged in. (You also get your data this way!)
- Generate one using Heurist, a web app (account needed; see Guide #301)
- Commission one or more custom modules for your project from FAIMS!



Scan this QR code to have a guided demo of how to instantiate your own module!

FAIMS104: Switching Servers

As our demo server comes with no guarantees or privacy, you'll want to switch to a private on-line or local server for actual fieldwork.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- A local or online FAIMS server
- Hostname for your server (e.g. `demo.fedarch.org`)
- A local or internet connection to that server

New FAIMS Users:

Follow these steps if you have just downloaded or reinstalled the FAIMS Mobile app.

1. Open the FAIMS Mobile app.
2. Press 'Enter Server Details'. If the button is missing, turn this page.
3. On the 'Select Server' screen, use the drop-down to switch to a new server (or auto-discover the server if it is local)
4. Type the new server hostname into the 'Server Host' field.
5. Press 'Test Connection'. If you see 'Connection test succeeded', you have established a connection.
6. Press 'Connect' to connect to the new server and bring up a list of modules.
7. You have successfully connected to a different server!



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FAIMS104: Switching Servers

Existing Users of FAIMS:

1. Open the FAIMS Mobile app.
2. Press 'Show Modules'. If the button is missing, turn this page.
3. Above the 'List of modules', you can see you are still connected to your original server. To change that, press the 'Settings' button (three dots or a hardware button whose exact position varies with every device).
4. On the 'Select server' screen, select 'New Server' from the dropdown.
5. Type the new server hostname in the 'Server Host' field.
6. Press 'Test Connection'. If you get 'Connection test succeeded', you have established a connection.
7. Press 'Connect' to connect to the new server and bring up the list of modules.

Tips & Tricks

If you want to refresh the list of modules (e.g. because someone has uploaded a new one), drag the module list downwards.



Scan this QR code to have a guided demo of how to switch servers!

FAIMS105: Update a Module

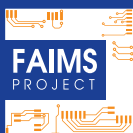
If anyone makes changes (structural or administrative) to your module on a server, you need to connect your device to the server and refresh your module.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- Access to your server via local network or internet

Step by Step

1. Open the FAIMS Mobile app and press 'Show Modules'.
2. Check that you are connected to your server.
3. Tap on your module and hold for two seconds.
4. An 'Update or Restore module' screen pops up. Three options appear:
5. 'Update' updates the structure of the module (users, vocabularies) and does not effect recorded data.
6. 'Restore' re-downloads the entire module, updating the structure and files (e.g. maps) in the process. It deletes all records that have not been synced with the server. Beware, you can lose unsynced data!
7. 'Cancel' returns you to module without any changes.



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FAIMS105: Update a Module



Learn more about how to update a module!

FAIMS106: Attach a Sketch

Use FAIMS to attach sketches, drawings, and plans to your records!

What you need:

- An Android 6.0+ device
- 'Attach a Sketch/File' and 'View attached files' buttons in your module
- File manager app, e.g. Amaze
- Sketching app, e.g. Autodesk Sketchbook
- Picture viewing app, e.g. Fast Image Viewer

Step by Step

1. Use the sketching app to make a sketch.
2. Save it in known location or 'Export' into your module folder on the device (see Guide#101 for guidance)
3. In your module, press the 'Attach a sketch' button.
4. In the 'Choose files' dialogue navigate to your saved sketch. Tapping the filename will attach it to the record.
5. Synchronise to upload the sketch to the server.



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FAIMS106: Attach a Sketch

Viewing the Attached Sketch

1. Install an image viewing app that supports the file type(s) you want to view (e.g. TIFF)
2. In the module, press the 'View attachment' button
3. If you have attached more than one file, tap the filename you wish to view
4. Select your new viewing app to open the file (check 'Set as default' or 'Always' if desired)

Tips and Tricks:

- There are many good sketching apps on Play-Store
- Sketching apps let you snap a picture, draw on it, and save the composite
- You can annotate your Sketch in the module by clicking on the Pencil icon next to the attached Sketch name
- If you attach .tiff or .ai format files, you need to install appropriate viewing app. JPEGs will display in Gallery.
- If your image viewing app does not appear on the list of options when you attempt to open the file, you may need to try a different viewing app



Scan this QR code to learn more about FAIMS and drawings!

FAIMS107: External GPS

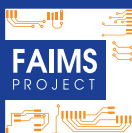
Improve the quality of your spatial data by connecting to an External Bluetooth GPS!

What you need:

- An Android 6.0+ device with Bluetooth
- FAIMS module with External GPS switch
- External Bluetooth GPS (NMEA 0183 protocol)

Step by Step

1. Exit all apps and switch off internal GPS on your device
2. Start your external Bluetooth GPS
3. Activate Bluetooth on your device
4. Pair device with the GPS (this sometimes requires a pairing code; Trimble uses 0183)
5. Once the device and GPS are successfully paired, start the FAIMS Mobile app
6. In your module, find the GPS controls in your module and enable external GPS
7. Once the GPS obtains a fix you can start collecting spatial data



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FAIMS107: External GPS

Tips and Tricks:

- Start Bluetooth and pair your GPS before you start the FAIMS Mobile app
- Do not switch between different external GPSs.
- If you are having trouble, restart all devices and start over.
- Keep the GPS close so you don't lose the bluetooth connection.
- If not sure about pairing code, check with your GPS provider.
- If GPS loses signal, you will see 'toasts' (pop-up warnings) like 'no valid signal', 'no bluetooth', etc.
- This workflow may work with all Bluetooth devices
- Using an external GPS extends the tablet's battery life, improves performance when the sky is partly blocked, and speeds up position fixes



Scan this QR code for visual guide to connecting to external GPSs

FAIMS108: Pre-fieldwork Check

Here are three very important things you need to do on your device before commencing any fieldwork. Make sure you are online for these tasks:

- Update Android OS on your devices: charge your devices, connect them to the internet and update them.
- Set and check the local time - it is critical that you do this to all your devices, otherwise the recording may fail (Go to Settings>Date and Time)
- Download the File Manager to all your devices, e.g. 'Amaze' or similar.
- Download the Text editor to all your devices, e.g. 'QuickEdit, Notepad' or similar.
- Download the FAIMS Mobile app to all of your devices from Google Play.
- If you have already downloaded some test modules, delete them so that the only remaining modules are the ones that you need in the field.



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Tips and Tricks

Deleting a module

- Open the File Manager on your device, navigate to the folder `/FAIMS/Modules/`.
- The module folders in the File Manager correlate with a long string of numbers and letters (It will look something like `'6f53dd8d-0b07-4875-9018-cc57038c0dc2''`). These are the module's unique numbers. To identify a module's name correctly, click any module folder and find the text file titled `'module.settings'`.
- Click on `'module.settings'`. This will then reveal the actual name of the module that the folder you're currently in represents. The Module Name will be couched in the following parenthesis, e.g. `'name: Bird Nesting...'`
- Keep in mind that if you have not installed a text editor on your device, you will not be able to open the text files.
- Once you have checked the module name and are sure that you have identified the correct folder you want to delete, go back to the module folder (as displayed by its unique code) and, using your File Manager's settings, delete the folder. Usually a long press brings up a menu to select `'Delete'`.



Learn more about how to update a module!

FAIMS109: Finding a Module

When you open the FAIMS Mobile application on your device, all the modules are listed by their Module Names - which make modules easy to identify and use. However, if you are interested in deleting a module, this needs to be done through the File Manager. The modules in the File Manager are not listed under their names, but under their unique module codes. Therefore, knowing which correct module folder to delete or work with is not immediately clear. Here is how to find (i.e. find out the Module Name) of a module folder in the File Manager.

- Open the File Manager on your device and navigate to the folder /FAIMS/Modules/. All the modules you have downloaded on your FAIMS Mobile app will be listed in folders under their unique module codes.
- To identify a module folder's name correctly, click any module folder and find the text file titled 'module.settings'.
- Click on 'module.settings'. This will reveal the actual name of the module that the folder you're in represents. The Module Name will be couched in the following parenthesis, (e.g. 'name': 'Bird Nesting...')
- Keep in mind that if you have not previously installed a text editor on your device, you will not be able to open the text files.



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FAIMS109: Finding a Module



Learn more about how to update a module!

FAIMS1 10: Searching Module

Every FAIMS module typically has a Search option allowing you to locate specific information you wish to view. The Search option can be found as a tab in the top menu once you have entered a module. Using the search:

- Click on the Search tab.
- You should see three fields: 'Search Term', 'Entity Type', and 'Entity List'.
- Click on 'Entity Types' - this will give you a dropdown menu. Select the Entity you want to display, e.g. Context, Sample, Special Find etc.
- Selecting an 'Entity Type' will then display all the records for that entity under the 'Entity List' located below.
- Keep in mind that specific modules may have more filters in order to help you narrow the search.
- Click on a record under the 'Entity List' to see more information or to edit it. The record will open in new window.



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FAIMS1 10: Searching Module

Tips and Tricks

Be aware that the default search has some limitations:

- 'Search Term' searches only through the segments of an Identifier. An identifier is the name of a record (e.g. those displayed in the Entity Types list).
- 'Search Button' searches through every single segment of the identifier from the beginning of the string.
- You can limit the search results by choosing one Entity Type in the Entity Types dropdown.
- Search will return results for the letters and numbers at the beginning of a record name, but not in the middle or end.
- The default search does not search for constrained value such as dropdown or radio button.
- The default search can be customised to fit your needs. Contact enquiries@fedarch.org.



Learn more about how to update a module!

FAIMS200: Server Work

The FAIMS server is an essential part of the FAIMS Mobile Platform. You need it in order to customize and deploy field recording modules, synchronize multiple devices in the field, manage module users, resolve data conflicts, merge duplicates, view and revert record history and export your data in a structured format.

What you need:

- A local or online server
- Access to your server via local network (offline) or internet
- Server hostname and login
- Computer with a browser

Working on the Server

1. On your computer, connect to the faims-web local network or to the internet.
2. Open the browser and type in server hostname. Log in to the server make sure to use your own login if you have one.

Defaults:

- Username: `faimsadmin@intersect.org.au`
 - Password: `Pass.123`
3. Click on your module. Module page offers you the following functionality:
 - Under Module Actions you can manage your module and your module's users.
 - Under Module Details, you can control your data, its history and structure.



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FAIMS200: Server Work

Tips and Tricks

- You can order a preconfigured local server - FAIMS in the box - from the FAIMS team.
- FAIMS offers a virtual private server for rent, if you want to sync to a secure and private instance of FAIMS online.
- You can setup your own FAIMS server if you have adequate IT skills.
- All FAIMS software code is open source and freely available on GitHub.
- Any modern web browser will work, including Chrome on your tablet.
- FAIMS Mobile Platform provides record uniqueness by time and username. Make sure to never share a login at the same time.



Scan this QR code to learn more about FAIMS server

FAIMS201: Work with Data

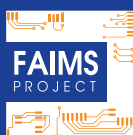
On the server you can search, view, compare, edit, and delete your records and resolve conflicting records and merge duplicates.

What you need:

- Familiarity with Guide#200
- Module with data on a server

Editing your Data on the Server

1. On the server, click on your module. On the Module page select the 'Search Entity Records' button under Module Details.
2. In the 'Search Entity' screen you can see a list of all synced Entities, Author, Date of creation and Last modification.
3. To View the record, Edit or Delete it, click on it in the list. Scroll to the bottom of page for pictures and files.
4. To batch delete records, return to Entity list, check multiple records and push 'Delete' button at the bottom of the page.
5. If you want to Compare records, check two desired records, and click the 'Compare' button on the bottom of page.
6. To Merge duplicate records, click the 'Compare' button on the bottom of page, select and push 'Merge' button.
7. To see the complete history of edits, click on the particular record, and press the 'View History' button on top of the page. You can now Revert any deletion or change.



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FAIMS201: Work with Data

Tips & Tricks

- Without a server you can only edit and delete records one by one in your app interface.
- Without a server you cannot resolve conflicts, merge duplicates or view record history.
- When looking for a particular record, search for it by entering a string in the search box
- Use filtering dropdown to filter records by entity type.



Learn more about data management on the FAIMS server

FAIMS202: Edit the Module

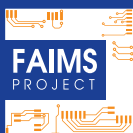
Use the server to edit your FAIMS module's metadata and overall structure.

What you need:

- New metadata or definition files
- Familiarity with Guide#200

Edit module Metadata and Structure

1. On the server, navigate to your module.
2. Select 'Edit Module' button under Module Actions.
3. On the 'Edit Module' page you can modify module metadata, including spatial reference (SRID) in the 'Static Data' section
4. On the 'Edit Module' page you can alter module structure by uploading new definition files. To do so, upload new file in its slot and press 'Update'.
5. Make sure to update the module on your device to implement the changes (turn page)



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FAIMS202: Edit the Module

Update your Module:

If anyone commits changes (structural or administrative) to your module on a server, you need to connect your device to the server and refresh your module.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- Access to your server via local network or internet

Step by Step

- Open the FAIMS Mobile app and go to the list of modules.
- Check that you are connected to your server.
- Tap on your module and hold for two seconds.
- An 'Update or Restore module' screen pops up. Choose of the three options:
- 'Update' button will update only the structure of the module (users, vocabularies) and will not affect any of the data you collected.
- 'Restore' button will re-download the entire module from your server. It will update all files in the process, but delete all records that have not been synced with the server. Beware, you can lose all unsynced data!
- 'Cancel' returns you to module without any changes.



Learn more about editing your module.

FAIMS203: User Admin

Use the server to add and administer your module users. You need 'superuser' status to do so.

What you need:

- 'Superuser' status on your server
- Familiarity with Guide#200

Step by Step

1. On the 'Module Actions' screen, select the 'Edit Users' button. If you cannot see the 'Add Users' field you do not have superuser privileges. Check with project admin staff.
2. Go to the User Management section on top black ribbon. You need to first create new users on your server and assign them user roles.
3. When done, navigate back to 'Module Actions' in a given module and select 'Edit Users'. Add users to your module via the dropdown.
4. Make sure to create user accounts before fieldwork. They cannot be created on the device.
5. To delete users use the same screen as when adding. After you 'update module settings' the deleted users will no longer appear as users in your module.



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FAIMS203: User Admin

Update your Module:

If anyone commits changes to your module on a server, you need to connect your device to the server and refresh your module to implement them.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- Access to your server via local network or internet

Step by Step

1. Open the FAIMS Mobile app and go to the list of modules.
2. Check that you are connected to your server.
3. Tap on your module and hold for two seconds.
4. An 'Update or Restore module' screen pops up. Choose of the three options:
5. 'Update' button will update only the structure of the module (users, vocabularies) and will not affect any of the data you collected.
6. 'Restore' button will re-download the entire module from your server. It will update all files in the process, but delete all records that have not been synced with the server. Beware, you can lose all unsynced data!
7. 'Cancel' returns you to module without any changes.



Scan the code for visual guide on User Administration on server.

FAIMS204: Edit your Vocababs

Use the server to edit your module's vocabularies!

What you need:

- Familiarity with Guide#200

Step by Step

1. Start from the Module page and select 'Edit Vocabulary' under Module Actions.
2. If you 'Select Attribute' you want to change, you can then add or edit its controlled vocabularies.
3. You can update labels, and/or descriptions which will appear as Info/Help text next to the attribute in the app.
4. You can affect the ordering as they will appear in the app, edit hierarchical dropdowns, or the urls of picture galleries.
5. Remember to 'update settings' on the device to implement the changes

(Note that editing a non-herarchical vocabulary to be hierarchical requires changes to the module logic.)



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FAIMS204: Edit your Vocab

Update your Module:

If anyone commits changes (structural or administrative) to your module on a server, you need to connect your device to the server and refresh your module.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- Access to your server via local network or internet

Step by Step

1. Open the FAIMS Mobile app and go to the list of modules.
2. Check that you are connected to your server.
3. Tap on your module and hold for two seconds.
4. An 'Update or Restore module' screen pops up. Choose of the three options:
5. 'Update' button will update only the structure of the module (users, vocabularies) and will not affect any of the data you collected.
6. 'Restore' button will re-download the entire module from your server. It will update all files in the process, but delete all records that have not been synced with the server. Beware, you can lose all unsynced data!
7. 'Cancel' returns you to module without any changes.



More details on how to edit your module.

FAIMS205: Pushing Files

Use the server to promulgate new maps, images and files to all devices!

What you need:

- New maps or other files
- Familiarity with Guide#200

Step by Step

1. Start from the module page and select the button 'Upload Files' under Module Actions
2. Select 'Batch Upload' if you have all data collated in one .tar.gz format(use 7zip to compress if necessary). This is a useful way of uploading large picture galleries without uploading them one at a time.
3. Select 'Create Directory' and 'Upload File' to create folders and upload files one by one.
4. Update your module settings! (turn page)



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FAIMS205: Pushing Files

Update your Module:

If anyone commits changes (structural or administrative) to your module on a server, you need to connect your device to the server and refresh your module.

What you need:

- An Android 6.0+ device with the FAIMS Mobile app
- Access to your server via local network or internet

Step by Step

1. Open the FAIMS Mobile app and go to the list of modules.
2. Check that you are connected to your server.
3. Tap on your module and hold for two seconds.
4. An 'Update or Restore module' screen pops up. Choose of the three options:
5. 'Update' button will update only the structure of the module (users, vocabularies) and will not affect any of the data you collected.
6. 'Restore' button will re-download the entire module from your server. It will update all files in the process, but delete all records that have not been synced with the server. Beware, you can lose all unsynced data!
7. 'Cancel' returns you to module without any changes.



More details on how to add files to your module.

FAIMS206:Module Backup

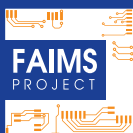
Use the server to backup your work! This procedure will download the module structure (definition files) and all synced data to your computer.

What you need:

- Familiarity with Guide#200

Step by Step

1. Start from the Module page and select the button 'Download Module'
2. The module and data will download as one 'tarball'. The tarball will contain:
 - Data Definition files
 - All data entered into or stored in your module, such as all Records, Pictures, Maps etc. within sqlite database and associated folders



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FAIMS206:Module Backup



For visual guide to module backup,
scan here.

FAIMS207:Emergency Backup

In case of emergency you can manually backup your individual device onto an SD card or external USB drive while in the field. This procedure can risk permanent data loss, and should not be normally undertaken.

What you need:

- Device with a module
- SD card or USB & host cable (OTG)
- File Manager on device
- Ability to copy files on device
- An urgent need to back up your data without recourse to the server.

Step by Step

1. Go into settings and make sure to stop the FAIMS Mobile app.
2. Insert SD card or connect USB stick to device via host cable.
3. On the device, use File Manager to navigate to your FAIMS module folder
4. Copy the entire folder
5. Using File Manager navigate to your SD card or USB stick
6. Paste your module folder here and change its label to include current date.
7. Keep SD card or USB stick safe!

(Note: Contact FAIMS to attempt to synchronise your data. This may be quite expensive.)



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FAIMS207:Emergency Backup



For visual guide to module backup,
scan here.

FAIMS208:Export Data

Use the server to export your data in a default or custom-made well-structured format!

What you need:

- Module with data on a server
- Familiarity with Guide#200
- 1 minute of time

Step by Step

1. On the Module page select the 'Export Module' button .
2. On the 'Export Module' page select an exporter from a dropdown.
3. Tick the checkbox if you want to download images as well and press 'Export'
4. Press 'Download' button to download the archive with structured data.
5. Unzip your archive and start your data analysis!



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FAIMS208:Export Data

Tips and Tricks

- The 'Export' button exports only the data, not the data definition files.
- The FAIMS generalized exporter produces shapefiles (.shp) out of your spatial data, puts all records in .csv by Entity, and renames all your Photos by your identifier. Data gets written into the shapefile attributes as well as exif data in your Photos.
- The archive also contains sqlite database which houses all your raw data.
- Contact FAIMS if you need to export your data in different format than .shp or .csv



For a visual guide to data export from server, scan here.

FAIMS209: Update Exporter

To update the exporter, please follow these instructions:

- Ensure the server is connected to the internet. This needs to be done in order to update the exporter.
- Login into the server using your laptop, or even tablet via your favourite browser.
- Upon login you will see the main screen with the black ribbon on the top, select the Plugin Management.
- You will see a list of exporters and buttons titled Update and Uninstall.
- Click on the Update button belonging to the Exporter you want to update. It should update itself to version you need.
- To get to the version need you may be required to repeat the previous step several times.
- Once the update is successful you will see a green message saying 'Exporter updated' appear on the top of the page.



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FAIMS209: Update Exporter



For a visual guide to data export from server, scan here.

FAIMS301: Module by Heurist

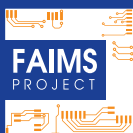
It is possible to create FAIMS modules via the Heurist web application.

What you need:

- Heurist User account
- Access to Heurist database
- Access to a FAIMS server
- 7zip or similar software to unzip archives

How to export FAIMS Module from Heurist

1. Navigate to the Heurist database you want to export as a module.
2. Go to the Database Administration Switchboard (displayed as admin button in the very right top corner of your Heurist main page) and to FAIMS & Huni Tab, located on the bottom of the left hand navigation column.
3. Go to Create module definition and the 'Build FAIMS project' tab will open.
4. In the entity select the record types you want to transfer into the FAIMS Mobile app.
5. Click 'Start Export' after you checked the right record types.
6. Click 'Click here' to download the definitions zip. The new unzipped folder should contain 5 files: arch16N.0.properties, data_schema.xml, style.css, ui_logic.bsh, and ui_schema.xml.
7. Deploy the module on the server from the downloaded packet (Guide #103).



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FAIMS301: Module by Heurist

Heurist Tips & Tricks

- During the export from Heurist select 'Start Internal GPS' only if you want to be able to switch it off in the FAIMS Mobile app.
- Select Map tab if you want to use Map layers in the FAIMS Mobile app (we recommend YES).
- Avoid using the predefined Heurist Record types, if you want a clean module.
- Do not create Author Record type in Heurist.
- User management can be done on FAIMS server (cf. Guide#203).
- Heurist only supports manually entered IDs.
- There must be at least one Geospatial Record type exported from Heurist.
- Use only letters or numbers to label your Record types in Heurist.
- Do not use '0' and '1' in Terms list in Heurist. Use 'Yes' and 'No' instead.
- In order to create a new Tab in the FAIMS Mobile app, you have to create a new Section Header in the Heurist Record type.
- If you have less than three terms in Heurist list and single repeatability, FAIMS Mobile app renders them as a radio button.
- If you have set the term repeatability to repeating, FAIMS renders them as multichoice checkboxes.
- Do not use the Timestamp Record type.



Load the QR code to learn more.

FAIMS302: Translation File

To adjust the translation of nomenclature in a Module:

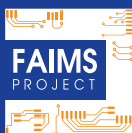
On a desktop:

- Open the translation file (faims.properties) in Notepad/Notepad++ on a desktop computer.
- Edit the document as needed. Each term should have the following format: term = translated term. If you leave some terms without a translation, they will also render in the original format in your module.
- Ensure that there are no spaces or special characters on the left side of the '='
- Load the translation file on the server (Edit Module section) and update your module.

On your device:

You can also edit and swap over a translation file (faims.properties) on individual devices. To do this:

- Open the file manager on your device (or download one if your device does not come with one)
- Navigate to the folder FAIMS>Modules>. You will see folders with long strings of numbers. These are the unique Module ID numbers.
- If there is more than one module on the device you will need to identify your module (see FAIMS109). Ensure you have the correct module before proceeding!
- Open 'faims.properties' file (select open as



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FAIMS302: Translation File

'Text' if prompted).

- Make your changes. Ensure that there are no spaces or special characters on the left side of the '='
- Note: you can only translate terms that already exist in the list.



Load the QR code to learn more.

FAIMS303:Writing in XML

If you are familiar with XML, or keen to learn new skills, you can write your own module using 'the FAIMS User to Developer Documentation'. You will learn how to install and run your own local FAIMS server, and how to design and write code for your own module.

What you need:

- Desktop computer with a text editor. We recommend Notepad++ or Sublime Text.
- Computer running Linux (Ubuntu 14.04) or any other OS where Virtual Machine can be installed
- Internet connection
- Wifi router
- 'the FAIMS User to Developer Documentation', available at www.fedarch.org/support
- An Android 6.0+ device with the FAIMS Mobile app
- Few days of your time (depending on your previous knowledge)

FAIMS User to Developer Documentation

will guide you step-by-step through:

- the process of setting up the local (offline) FAIMS server, running on Ubuntu 14.04
- explaining the structure of FAIMS modules and its design in XML
- designing a training module in XML
- further hints and guidelines how to design and code your own module



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FAIMS303:Writing in XML



Load the QR code to learn more.