EnableFleet Configuration Management System

User's Guide

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Contents

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Preface

Scope of Manual

This manual is for the Tait EnableFleet configuration management system. It provides an overview of the system and how to use it.

Alerts

Alerts provide necessary safety information and guidance on how to use the product properly. Make sure you follow any alerts precisely as shown.

This manual uses the following types of alerts:

WARNING! This alert is used to warn about the risk of data loss or corruption.

This alert is used to highlight significant information that might be required to make sure procedures are done correctly. It might also highlight ways of doing things that improve efficiency or effectiveness.

Associated Documentation

As well as this guide, you can also refer to:

- EnableFleet Manager Online Help – MNE-00015-xx
- EnableFleet Client Online Help – MNE-00016-xx
- EnableFleet System Administration – Manual MNE-00017-xx

We occasionally publish new and updated technical notes on the Tait Support website. These describe applications for Tait products, provide technical details not included in manuals, and offer solutions for problems that might arise.

Publication Record

Issue	Publication Date	Description
15	June 2023	• Updated supported web browsers – See "Logging in to EnableFleet Manager" on page 19 • Updated system requirements – See "Publication Record" above • Minor updates throughout
14	September 2022	• Updated steps to install EnableFleet Client software – See "Install EnableFleet Client Software on a PC" on page 28
13	June 2021	• Minor updates throughout • Comprehensive updates to OTAP configuration
12	March 2021	• Removed File Generation Daemon (FGD) • EnableFleet Core now called EnableFleet Manager • Added content on Cloud Services – See "Cloud Services" on page 26
11	September 2019	Updated for EnableFleet 3.7: • Added support for GridLink – See "Support for GridLink" on page 45
10	August 2018	Updated for EnableFleet 3.6: • Updated link to Sentinel System Driver Installer • Added support for Harris portable radios – See "Support for Harris Portable Radios" on page 43

1 Introduction

The Tait EnableFleet configuration management system lets organizations manage configuration of their devices centrally.

It enables you to deploy these kinds of configurations to your fleet:

- radio programming settings
- software feature licenses
- radio firmware

A fleet is the full set of devices EnableFleet manages. It can consist of:

- different radio models and hardware variants
- radios at widely dispersed locations
- radios that operate on different types of radio networks

Benefits of EnableFleet and How it Works

EnableFleet provides accurate, reliable information about the fleet and the configuration of the radios in it.

EnableFleet Manager incorporates a version of the Tait programming and calibration applications.

You can upload applications using EnableFleet to make sure the latest firmware versions are supported.

With EnableFleet, you can quickly see how much progress has been made with deploying configurations to the fleet. You can also easily ascertain which programming file, firmware version, and feature licenses a radio has.

New versions of radio firmware, new network capabilities, and (associated) changes to radio configurations can happen often and be very time-consuming. EnableFleet makes it easier to keep a fleet up to date and fit for purpose.

EnableFleet also simplifies deploying configurations in the field. An EnableFleet Client automatically selects all the configuration data required for each connected radio and you don't need any programming expertise.

Users with Manager and Maintainer access can update radio configurations, firmware, and feature license keys remotely using Over The Air Programming (OTAP). This minimizes the need for further wired updates in the field.

ⓘ OTAP is not available for TP9100 or TM9100 radios.

You can customize EnableFleet to reflect an organization’s workflow for installing mobiles in vehicles. This includes pre- and post-installation checklists. Customization can also include additional data fields in the EnableFleet database that reflect an organization’s requirements.

EnableFleet has a Restful API that supports integration with third-party software – for example, an organization’s existing asset management system.

Supported Devices

These devices are currently supported:

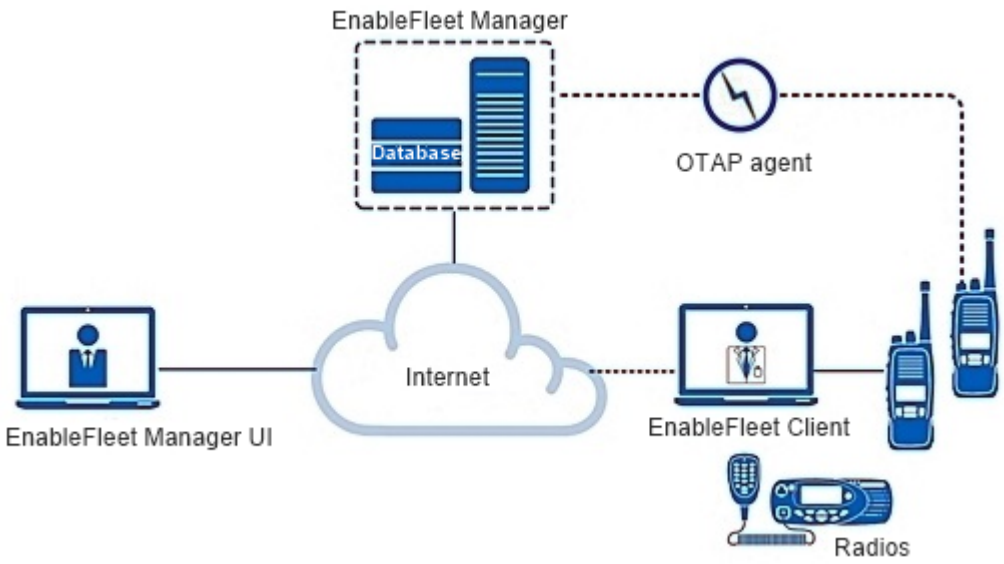
- Tait TM9100, TM9300, TM9400, and TM9480 mobiles
- Tait TP9100, TP9300, TP9400, TP9480, TP9500, TP9600, and TU2000 portables

Some Harris portable radios are also supported – See "Support for Harris Portable Radios" on page 43.

System Overview

EnableFleet has these components:

EnableFleet Manager UI	A web-based interface for working with fleet data
EnableFleet Clients	Applications that log in to EnableFleet Manager and receive data to deploy to radios over cable
OTAP Agent	An agent installed on the network that sends configuration patches over the air



Make sure the EnableFleet system is correctly installed and configured. You can commission Tait to set up the fleet database and import fleet data provided by your organization. You can then use EnableFleet Manager to import fleet data for additional devices.

Groups

You need to divide the devices managed by EnableFleet into groups.

A group is a set of devices with the same type of hardware, firmware version, enabled software features, and shared programming file – except for some unique parameters.

For example, if fixed mobiles have different AVL, dispatcher, or options board settings to mobiles in vehicles, they must be in a different group.

Here are some examples of groups:

- radios with different channels, zones, or trunking networks
- radios with different channel profiles – for example, analog signaling or P25 conventional
- radios in different locations that operate on different trunking systems
- radios that need a specific feature or feature license, such as encryption
- radios destined for stores
- trial radios

Radios destined for stores might belong to a separate group with a generic configuration (because you don't know in advance which group they are destined for). When a radio becomes operational, you can change it to the required group and apply that group's configuration settings.

Trial radios might need to form a new group. This is because you might want to test new features and programming files on a few radios before deploying these to the wider fleet. For more information, see "Create a New Group" on page 19.

Groups are usually set up at commissioning time. For maintenance, you might need to create new groups or move devices to different groups. For more information, see "Move a Device Into a Group" on page 40.

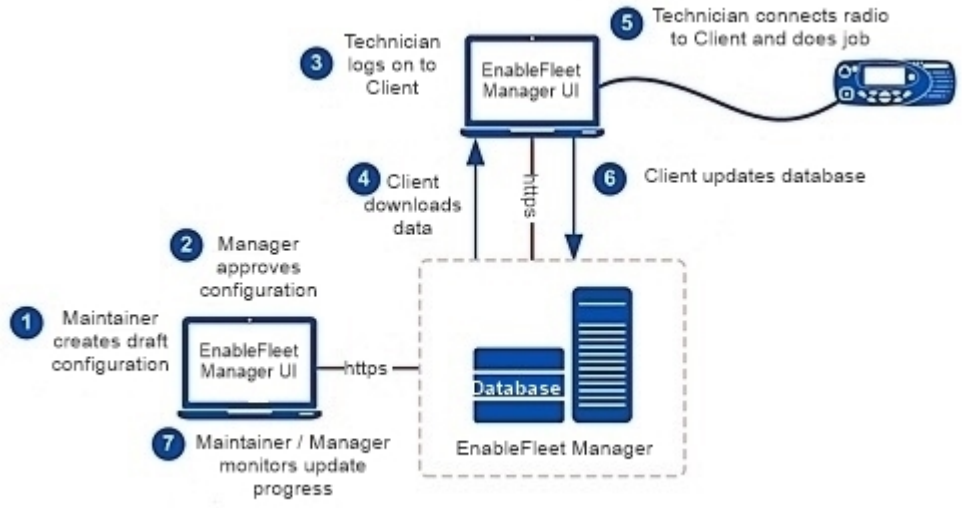
Configurations

In EnableFleet, configuration management is group-based. The core of a configuration is the group configuration. It consists of a:

- group customization profile
- radio programming file – created by Tait radio programming software
- radio firmware package
- supporting programming and calibration application
- list of required software feature licenses (optional)

Deploying with EnableFleet Client

This diagram shows how to create a group configuration and deploy it to a member of the group using EnableFleet Client:



1. Using a supported web browser, a **maintainer** logs on to EnableFleet Manager to:
   - Make sure the group's membership is up to date
   - Make sure information about the group's devices is correct
   - Display the page for the group
   - Create a draft configuration and save this to store the configuration in EnableFleet Manager
2. On the same page, a **manager** approves the configuration, which is now ready to deploy.
3. Using EnableFleet Client on a PC, an **installer** or **technician** logs on to the Client which then connects to EnableFleet Manager.

   EnableFleet Client automatically downloads data over the internet from the EnableFleet database for any approved configurations not yet downloaded.
4. The **installer** or **technician** connects a radio belonging to the group to the PC using a radio programming cable. They then do the job according to the instructions on the screen. This deploys the configuration to the radio.

   You don't need an internet connection to do jobs.

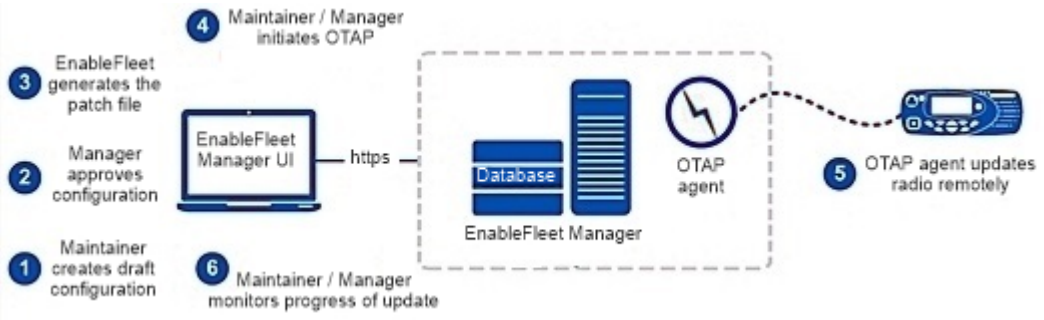
   Once the job is complete, as soon as the EnableFleet Client is reconnected to EnableFleet Manager, it automatically submits information from the job and any data collected from the radio to the EnableFleet database. If EnableFleet didn't already have the radio's serial number, it is now added to the EnableFleet Manager database.

   As the deployment of the configuration to group members progresses, the maintainer and manager can monitor the proportion of devices updated. EnableFleet Manager shows progress information about the fleet on the **Dashboard** and each group on the **Groups** page.

   Once a radio has undergone an initial deployment via EnableFleet Client, you can deliver more updates using OTAP. To send updates with OTAP, you need an OTAP license for EnableFleet. Your radios will also need OTAP-capable firmware.

Deploying with OTAP

This diagram shows how to create a group configuration and deploy it to a member of the group using Over The Air Programming (OTAP):



1. Using a supported web browser, a maintainer logs on to EnableFleet Manager. They make sure the group's membership is up to date and the information about the group's devices is correct.

   The Maintainer then displays the page for the group, creates a draft configuration, and saves it to store the configuration in EnableFleet Manager.
2. On the same page, a manager approves the configuration, which is now ready to deploy.

   Once a new configuration is approved, the radio becomes available for OTAP. An **Initiate OTAP** button shows beside the radio's OTAP status.
3. A Maintainer or Manager clicks **Initiate OTAP** and the device is queued for a remote update.
4. The OTAP Agent updates the device remotely.

   Maintainers and Managers can monitor the progress of the update in EnableFleet Manager.

   Once a radio has been updated remotely using OTAP, it sends a confirmation message to EnableFleet Manager.

   If the update was successful, EnableFleet Manager shows the radio's status as **Up to date - OTAP supported**.

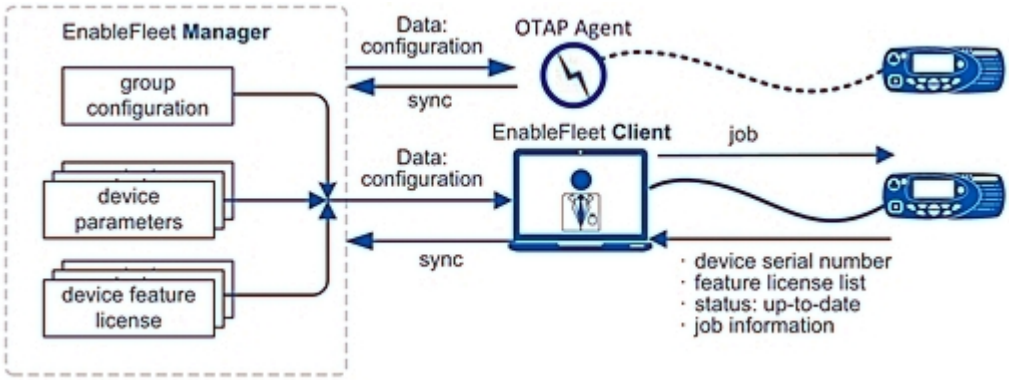
   You can also see information about specific OTAP jobs on the **Jobs** page in EnableFleet Manager.

Data Flow

1. When an EnableFleet Client connects to EnableFleet Manager, the Client's local data store is automatically updated with the Manager's current data.
2. A Client user connects to a radio and does a job, which updates the radio with all the relevant data.
3. When the Client has an internet connection, it automatically submits data it has received from radios to EnableFleet Manager.

   Because OTAP only sends points of difference between the current and approved configurations, it needs EnableFleet Manager to know the current configuration of a radio. This means a job must first be completed using the wired Client before OTAP can be used for that radio.
4. Once a configuration has been deployed using OTAP, the OTAP Agent updates EnableFleet Manager with the relevant information.

   To learn how to import GridLink and Tait Unified Vehicle devices, see "Importing Devices and Device Details" on page 23.



Group Configuration Data

EnableFleet receives data for the group configurations it manages from a range of sources.

Customization Profiles

A group configuration must always specify a customization profile. Customization profiles are applied at the group level. They determine which configuration and custom fields are available to edit in EnableFleet Manager.

Customization profiles also determine whether:

- fields are searchable in EnableFleet Client
- fields show on list pages
- duplicate values for fields are flagged

To add new customization profiles you can export, edit, and reimport the EnableFleet Manager customization summary file.

Radio Firmware Packages

A group configuration always specifies a firmware package. EnableFleet Manager users upload firmware packages from their PC to EnableFleet Manager. They can display and maintain the list of packages stored in the database.

When a new configuration is defined, users select the correct package from the list. This migrates the fleet of radios to the new firmware version to use enhancements and new features.

Tait provides firmware update packages to import into EnableFleet Manager as a *.ttfp firmware archive.

Programming Files

Tait radios come with a Windows-based programming application. You can use this to set radio configuration parameters for a group to appropriate values and save these to a file on the PC or tablet you use to access EnableFleet Manager.

You might want to modify these parameters and create a new programming file to:

- program new features into the radios
- upgrade radio databases to support new firmware
- add new settings to account for infrastructure upgrades

When defining a group configuration, you need to choose a radio programming file. This copies the file from the folder on the PC to EnableFleet Manager. That file now belongs to the configuration.

EnableFleet doesn't provide a list of uploaded programming files but you can download a programming file from a group's configuration any time. The group configuration uses all the data in programming files except for a few parameters that are unique to each radio (such as the Radio ID).

Supporting Applications

You will need to upload relevant Tait programming and calibration applications to EnableFleet to provide support for newer firmware versions.

When you have selected a firmware version and programming file as part of a group configuration, the Programming Application and Calibration Application lists are filtered to only show compatible applications.

Software Feature License List

A group configuration can optionally specify the feature licenses group members must have. You can select the licenses from a pop-up list. This feature enables EnableFleet Manager to alert users about missing feature licenses. This is preferable to finding out in the field that a feature license is missing. A radio cannot be given a configuration if its programming file settings require a feature license which is missing.

Tait Unified Vehicle Applications

Tait Unified Vehicle (TU2000) units also support the PTToX and AppBuilder applications. You can use EnableFleet to update these applications and the Tait Unified Vehicle operating system.

Device Data

EnableFleet maintains additional data about each device in a fleet.

Feature Licenses

EnableFleet maintains a list of each device's software feature licenses. This is also called a Feature License Key (FLK).

An FLK has a TPASnnn or TMASnnn ID (nnn is the software feature number). Once a license is activated on a radio, you can program and use the feature it controls.

The list of available licensed software features is related to a firmware release. It differs between mobiles and portables. Software feature licenses might also differ between firmware versions.

EnableFleet receives information from EnableFleet Clients about the feature licenses already activated on radios. You can also import FLKs into EnableFleet. When you deploy a new configuration to a group, any new licenses for its members are also deployed.

EnableFleet can show the list of feature licenses for any device in the fleet. Items in this list can come from a Client reading the device, or from EnableFleet's own store of FLKs. For more information, see "Cloud Services" on page 26.

Individual Parameter Settings

The EnableFleet database holds individual parameter settings for each device in a fleet. These consist of:

- the Radio ID
- other parameters specific to a particular radio, such as the personalized power-up message and call lists (which are also part of the radio's programming file)

Unique Owner Identifiers

EnableFleet usually needs to store information about devices. This lets EnableFleet Client identify a particular radio, even before it is assigned a Radio ID.

Here are some examples:

- the registration number of the vehicle the radio is installed in
- the radio's asset number

  (the radio serial number is often difficult to access)

You can download these parameter values to EnableFleet Client but they aren't deployed to the radio.

Custom Fields

You can customize EnableFleet to hold additional information about the radios in the fleet, for example:

- any accessories that belong to the radio
- installation notes
- the part of the organization the radio belongs to

Radio Serial Number

The radio serial number is a special case. It resides in the radio and is read-only.

You cannot enter or edit serial numbers in EnableFleet. They might be provided to EnableFleet as part of the initial data import. Otherwise, they are read from the radio during a Client job deploying the initial configuration.

When Client data is synchronized with EnableFleet Manager, the radio serial number is added to the database. EnableFleet uses it to match the physical radio to data in the database.

Device Status

EnableFleet maintains status information about each device. When a group configuration is approved, all members of the group become out of date. When a Client job is successfully completed and the Client synchronizes its data with EnableFleet Manager, the device status changes to **up to date**.

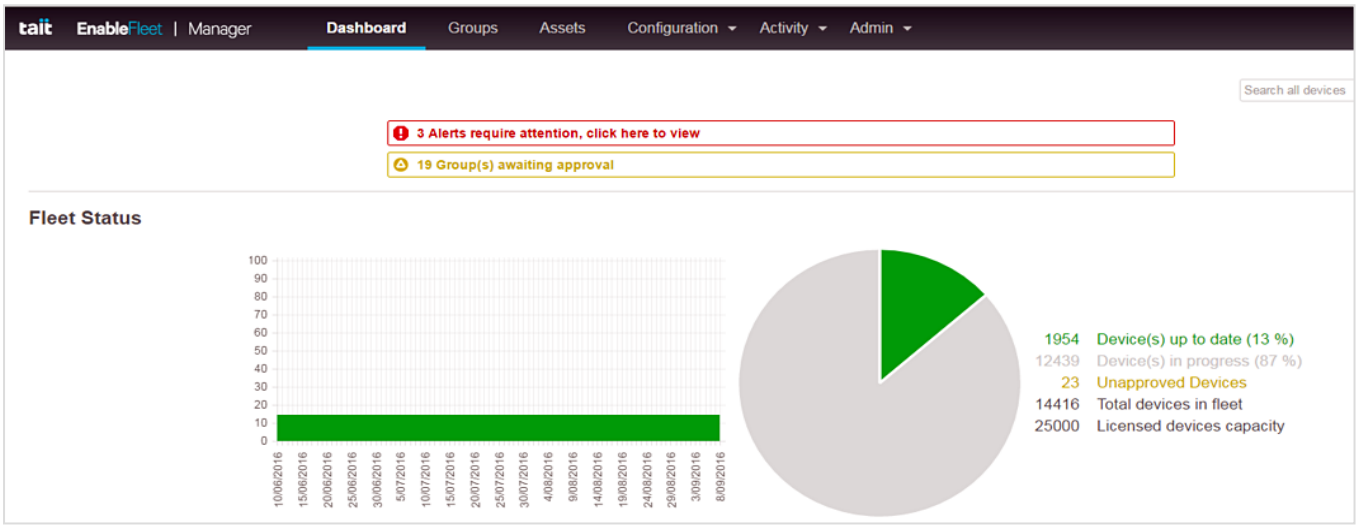
2 Managing Configurations

This section provides an overview of basic EnableFleet Manager procedures. For more information, see the EnableFleet Manager Help.

EnableFleet Manager

EnableFleet Manager provides a window into the EnableFleet configuration management system database. It lets you group similar devices and define configurations for these groups.

If OTAP capability is enabled, you can deploy configurations over the air using the EnableFleet Manager User Interface. EnableFleet Manager also tracks the progress of deployment to your devices.



User Roles

How much of EnableFleet is visible to you depends on your assigned user role(s). This table shows how user roles are assigned by an EnableFleet Manager Administrator.

Role	Description
Admin	• Can access the Admin menu • Can manage users • Can view, edit, add, change, and delete passwords • Can assign a security key to Technician users • Can view logs • Can modify EnableFleet settings • Can schedule OTAP session windows
Technician	• Can log in and use EnableFleet Client • Can only use EnableFleet Manager to change passwords
Maintainer	• Can use EnableFleet Manager (except for user management and EnableFleet settings) • Can create but not approve configurations • Can initiate OTAP sessions
Manager	• Can use EnableFleet Manager (except for user management and EnableFleet settings) • Can create and approve configurations • Can initiate OTAP sessions
ReadOnly	• Can view the EnableFleet dashboard but can’t see any alerts • Won’t get timed out • Dashboard updates every 30 seconds

Logging in to EnableFleet Manager

You can access EnableFleet Manager from one of these supported web browsers:

- Google Chrome – version 47 or higher
- Microsoft Edge – version 25.10586 or higher
- Mozilla Firefox – version 42 or higher

The minimum screen resolution is 1280 x 720 pixels.

To log in:

1. Go to **https://<EnableFleet web address>**.
   (or http if SSL has been disabled)
2. Enter the username and password from your EnableFleet administrator.
3. Select **Log In**.
   EnableFleet Manager opens, showing the dashboard.

Create a New Group

1. On the EnableFleet Manager menu bar, select **Groups** > **New Group**.
2. From the drop-down menus, select:
   - **Device Formation Type** (standard, dual torso, TU2000)
   - **Device Type**
3. Enter a name for the group in the **Name** field.
4. Add a description for the new group in the **Description** field (optional).
5. Select a **Customization Profile** from the drop-down menu.
6. Select **Save**.

   ⓘ To create another group, select **Save and Create New**.

Access a Group

1. On the EnableFleet Manager menu bar, select **Groups**.

   This shows a list of all the groups managed by EnableFleet.

   If there are too many to show on one page, use the navigation links at the bottom of the page to scroll.
2. To find a specific group, enter part or all of the group name in the **Search Groups** field.

   This filters the list of groups.
3. Select the **Group Name**.

   You'll see a page showing information about the group.

   From this page you can edit the group or list the devices in it.

   You can define the configuration for the group under the **Draft** tab.

Maintaining Data Sources

Before defining a group configuration, make sure the database has the data sources the configuration will use.

Customization Profile

You need to give EnableFleet the customization profile to use as part of a group's configuration. Customization profiles are defined in the customization summary JSON file. They determine which configuration and custom fields are available for that group in EnableFleet Manager.

ⓘ For more information on how to export, edit, and import customization profiles, see the EnableFleet Manager Help.

Programming File

To give EnableFleet a programming file that contains all the correct settings for the group:

1. Use Tait programming software to produce the programming file.
2. Copy the file to a suitable location on the PC you run EnableFleet Manager on.

   You can now assign it to a configuration.

   Note: When more than one group uses the same radio configuration, you need to upload one master configuration file to all the groups. If you need to change this configuration, download, edit, and upload one copy of the configuration file to all relevant groups. Using more than one master configuration file might cause problems when moving radios between groups.

Firmware Packages

To change a configuration to upgrade group members to a new firmware version:

1. Get the firmware package (*.ttfp file) from Tait.
2. Copy it to a location on the PC you run EnableFleet Manager on.
3. Select **Firmware**.

   You'll see a list of firmware packages in the database.
4. Select **Import** > Go to the file > Select **Open**.

   You'll see information about the firmware package in the list of firmware packages. The package is available to select as part of a configuration.

Programming/Calibration Application

You need to provide EnableFleet programming and calibration applications that are compatible with the selected programming file and firmware package:

1. Get the relevant programming and calibration applications from Tait.
2. Copy the installer *.exe files to the PC you run EnableFleet Manager on.
3. Go to the location of these installer *.exe files.
4. Drag and drop the programming and calibration application installers into the relevant drop zones.

   During configuration you can now select programming and calibration applications that are compatible with your current programming file and firmware selection.

Feature Licenses

If the devices in a group need new feature licenses, you need to give the licenses to EnableFleet Manager.

Feature license key files are specific to a particular device serial number. If you import them into EnableFleet Manager, they are automatically given to that device when the group configuration is deployed to it. For more information, see "Cloud Services" on page 26.

To help you get feature licenses for group members, EnableFleet can download the serial numbers of devices in a group. (Generally, it only knows device serial numbers once a configuration has been deployed to a group.)

Specify Compulsory Feature Licenses for Group Members

1. Open the page for the group.
2. In the **Draft** tab, select **Change**.

   You'll see a list of available feature licenses.
3. Select the feature licenses you want and any that are already installed on the devices.

   ⓘ **Important!** You don't have to specify required feature licenses but doing so makes sure all members of the group have them. Once the first configuration is deployed, the database has a record of the feature licenses on the group's devices. If any group member doesn't have a license for one of the features selected, EnableFleet warns you before approving a subsequent configuration.
4. Click outside the list to close it.
5. Select **Save**.

   The feature licenses you selected are available under the **Change** button.

Request New Feature Licenses with EnableFleet Assistance

1. Open the page for the group.
2. In the **Draft** tab, select **Export group member serial numbers**.

   This saves a CSV file that lists the serial numbers of the devices in the group to a folder on the PC you run EnableFleet Manager on.

   ⓘ If the CSV file is empty, it means no configuration has been deployed to the group yet. EnableFleet doesn't know the group's serial numbers.
3. Send the list to Tait with a request for the feature licenses.

   Tait will email these to you as *.key files (one file for each license for each serial number).

Import New Feature License Keys

1. Copy the *.key files to a folder on your EnableFleet PC.
2. In EnableFleet Manager, select **Feature License Keys** > Select **Import License Keys**.
3. Go to the folder that contains the *.key files.
4. Use **Ctrl-click** or **Shift-click** to select all the files you want > Select **Open**.

   The **Feature Licenses** page shows information about the new keys.

   The keys are automatically deployed to the relevant devices when the group's configuration is deployed.

Maintaining Group Membership

Although devices are assigned to groups before commissioning, you might need to move them from one group to another, or add new devices to a group.

Make sure you update a group's membership before you define and approve each new configuration.

To replace a device, use the EnableFleet Client to deploy an existing configuration to the new device.

ⓘ **Important**! Because configurations are group-based, any changes you make to the members of a group are only downloaded to Clients if a group configuration is approved. If you change group members and don't want to change the group configuration, approve a new configuration that is the same as the old one. This renders only the group members you have changed out of date. You then only need to attend to members if you updated their configuration.

Importing Devices and Device Details

You can import devices and device details into EnableFleet using a CSV file. If you do, make sure the CSV file is correctly formatted. This section describes the mandatory and optional columns in the CSV file.

ⓘ Column names are not case sensitive but you need to enter these exactly as they appear in your EnableFleet installation.

Data already entered in EnableFleet is case sensitive – for example, group name, alias, and power-up message.

You can only use the import feature to add or update devices. There is currently no support for adding groups or moving devices between groups.

Columns in the CSV file don't have to be in a particular order. GridLink and Tait Unified Vehicle devices cannot be imported using this method. Select **Group** > **Discovery** to see a list of known devices not assigned to a group.

Mandatory Columns

You **must** include these mandatory columns in your CSV file. If you try to import a file without one or more of these columns, EnableFleet shows an error message.

Column Name	Description
Device ID	The EnableFleet Device ID. If you leave this field blank, a new device is created in the defined group. EnableFleet allocates new devices to the next available Device IDs.
Serial Number	The serial number of the device. When creating a new device, you can leave this column blank if you don't know the serial number. ⓘ Once you've entered a value in this column, you can't change it.
Group / Group (Draft)	The name of the group the device is currently in, or will be added to (if you are creating a new device). Group names are case sensitive. Make sure you enter them exactly as they appear in EnableFleet Manager. If you export fleet data from EnableFleet, the column is named **Group (Draft)**.

Configuration and Custom Columns

Columns for configuration and custom fields are optional. You can include them in the CSV file to update draft device details.

If you are updating a CSV file you have recently exported, these configuration and custom columns are already included.

	A	B	C	D	E	F	G	H	I
1	Device ID	Serial Number	Group (Draft)	Powerup Line1	P25 Radio ID	Region	Vehicle Registration	Installation Notes	Comments
2	12	57	Mobiles Vehicle	Mobile BDU410	829283		BDU410		
3	35	76	Mobiles Vehicle	Mobile ARC627	123746		ARC627		
4	57		Mobiles Vehicle						
5	58		Mobiles Vehicle						
6	4	25404860	Truck1	Truck DAB876	272291		DAB876	Installed 22.04.16	
7	56		Truck1	Truck					
8	59		Truck1						
9	60		Truck1						
10	10	25333333	TP9300	Team Car 1	129385	East	RTH789	Installed 23.04.16	
11	11	25444444	TP9300	Team Car 2	187400	East	RYH829	Installed 20.05.16	
12	31		TP9300	Team Car 3	182372	North	GYN524		
13	32		TP9300	Van 1	192902	North	LOY902		
14	33		TP9300	Van 2	111245	North	GAT788		
15	34		TP9300	Van 3	111893	North	FAW726		
16	61		TP9300						
17	62		TP9300						
18	63		TP9300						
19	64		TP9300						
20	65		TP9300						
21	66		TP9300						
22	1	25418139	TP9400	113161	113161		NUI835		
23	8	25000000	TP9400	129847	129847		VAF726		
24	9	25111111	TP9400	200097	200097	East	SUE748		
25	13	99887766	TP9400	200098	200098	North	MHG982		
26	20		TP9400				NHE625	Damaged antenna	New antenna required
27	21	99887767	TP9400	200099	200099		OIP002		
28	22	32321	TP9400	117383	117383	South	PAS625		
29	29	77	TP9400	111735	111735	South	WEW996		
30	30	1235	TP9400	178111	178111		XXT762		

Define a Group’s First Configuration

You must define a group’s first configuration under its **Draft** tab.

The configuration remains in **Draft** status until a manager approves it, which shifts it to the **Approved** tab.

Before you define a group configuration, finalize the group’s membership and import the current firmware into EnableFleet Manager. Draft configurations are not visible outside of EnableFleet Manager.

To define a group's first configuration:

1. Select **Groups** > Select the name of the group you want to configure.
2. If necessary, select the **Draft** tab to create the configuration.
3. In the **Configuration Description** field, enter information to identify the configuration.
4. In the **Customization Profile** field, select the customization profile you want to use for the group’s configuration.
5. In the **Firmware Release** list, select the firmware package you want included in the configuration.

   If the configuration doesn’t include a firmware upgrade, select the firmware package currently on the devices in the group.
6. Under **Programming File**, select **Choose File** > Select the programming file with the appropriate settings.

   Even if the configuration doesn’t update radio programming settings, you still need to select a programming file. This is because deploying a configuration overrides a device’s current settings.
7. Select a compatible programming and calibration application from the relevant lists.
8. If you are enabling additional software features, or if you want EnableFleet to make sure group members have the necessary software features, select **Change** > Select the required feature licenses.
9. Save the configuration.

   A draft configuration must be approved before it can be deployed to the group.

Approve a Configuration

Once a draft configuration is correctly set up and you have made any changes to the device details for the group's members, a manager can approve the configuration.

Once approved, EnableFleet Clients can download the configuration and deploy it to group members.

To approve a configuration:

1. Open the page for the group.
2. Under the **Draft** tab, select **Approve**.

   This copies the information from the **Draft** tab to the **Approved** tab.

   If an approved configuration was already present in the **Approved** tab, it moves to the **History** tab.

   The **Draft** tab then shows a duplicate of the approved configuration, ready to be updated and approved.

ⓘ If you have changed the device information for one or more group members, you need to approve a new configuration before the changes can be deployed. To do this, select **Approve** without changing anything under the **Draft** tab. This increments the version number of the configuration, but the new version has the same contents as the previous version.

Cloud Services

You can use Cloud Services to retrieve SFEs you have purchased the next time a group is approved – see "Approve a Configuration" above.

SFEs will only be downloaded for devices where the serial numbers are known by Tait EnableFleet and there are outstanding SFEs.

The option to retrieve SFEs is enabled by default for cloud deployments. It cannot be disabled.

For Tait EnableFleet systems that are hosted locally, you need an internet connection. To enable or disable this feature, go to **Settings** and make sure the Enable Cloud Services checkbox is selected.

Monitoring Deployment Progress

A pie chart on the EnableFleet Manager dashboard shows the proportion of devices in the fleet that are up to date.

The **Groups** page lists all your groups and shows a progress bar for each one.

Roll Back a Configuration

If you want to roll back a new configuration, you can return the devices in a group to a previous configuration. You will need to create and approve a new configuration with the same contents as the previous configuration.

To roll back a configuration:

1. Open the page for the group.
2. Select the **History** tab.
3. In the row of the configuration you want to roll back to, select **Show**.
4. Right-click the name of the programming file and save it to a folder on your EnableFleet PC.
5. Make a note of the firmware release used and any required software features listed.
6. Under the **Draft** tab, create a new configuration and select the same firmware release, programming file, and software features.
7. In the description, indicate this is a rollback configuration.

   ⓘ Different programming files can have the same name. Make sure you select the file you just downloaded.

8. Deploy the rollback configuration to the devices in the group.

3 Setting Up an EnableFleet Client

You can deploy configurations to devices using EnableFleet Client. This is a Windows application that connects to EnableFleet Manager over the internet. It has a local data store that contains data for approved configurations downloaded from EnableFleet Manager.

System Requirements

PCs that run EnableFleet Client must meet these minimum general requirements:

- Windows 7 or 10

  Windows 8 RT and 11 are not supported
- 1GHz processor speed
- 4GB RAM
- 100GB of available hard disk space
- Enough USB ports for all the necessary devices

  For example, a Client might need a Tait security key, a 3G modem, and a serial connection to a radio

Install EnableFleet Client Software on a PC

1. Go to **https://<Web_Address>/clientinstaller**.

   If SSL is disabled, use **http**.

   <Web_Address> is the URL of EnableFleet Manager.
2. Follow the instructions on the screen.

   EnableFleet downloads the Client software to your PC.

   Future software updates will be installed automatically when you run the Client.

   The following additional software is also installed from the relevant internet locations:

   - HASP Drivers (used by security keys)
   - Tait USB programming cable drivers
   - Microsoft.NET Framework 4.5 (x86 and x64)
3. If any additional software fails to install, you can locate and install the individual components separately:

   - Sentinel HASP/LDK Windows GUI Run-time Installer and Sentinel System Driver Installer 7.5.8

     You can download these from the THALES support portal.
   - Tait USB Programming Cable drivers are available on a CD provided with the Tait USB programming cable.
   - Microsoft.NET Framework 4.7 and SQL Server Compact runtime.

     You can download these from microsoft.com.

Set Up a Client PC for Multiple Users

You might want multiple users to share a PC to make more effective use of installation hardware and tools.

If so, the following levels of security are available:

- Windows-level security using multiple Windows user accounts
- EnableFleet Client-level security with user logins and ASK dongles

Creating multiple Windows user accounts has these benefits:

- Additional security
- Personal preferences and settings
- File storage in a private location

But there are implications for EnableFleet Client software:

- The software is installed per Windows user. When updates become available, each user's software instance is only updated when they start the software.
- The local data store and all job data is also stored per Windows user. Synchronization only happens for the same Windows user. If two users do jobs using the same Client, and only the second user subsequently connects to EnableFleet Manager, the first user's jobs don't synchronize.

If you set up multiple Windows user accounts, Client users will need to synchronize regularly using their own assigned Windows details. If you allow another user to use your EnableFleet PC, your fleet data and jobs **won't** be synchronized for you.

Setting Up Security Keys

EnableFleet Client users might need a security key for additional security. This is a Tait EnableProtect Advanced System Key (ASK) dongle. It must be attached to a USB port on the user's computer.

Security keys enable two-factor authentication. Client users need a username, password, and security key. Security keys let Client users do jobs on radios with read/write protection, but they require users to give P25 radios P25 IDs for their network only. (You can't configure a radio to operate on other P25 networks without a corresponding security key.)

An EnableFleet Manager Admin user can blacklist security keys that have been stolen or used inappropriately.

The ASK dongles are the same security keys that provide security for Tait radio programming applications.

Configure EnableFleet to Require ASK Dongles

1. Log in to EnableFleet Manager as an Admin user.
2. In the top right drop-down menu, select **Settings**.
3. Select the **Client Users Require Security Key** checkbox.
4. Save your changes.

   Client users will now need their own ASK dongle to use EnableFleet Client.

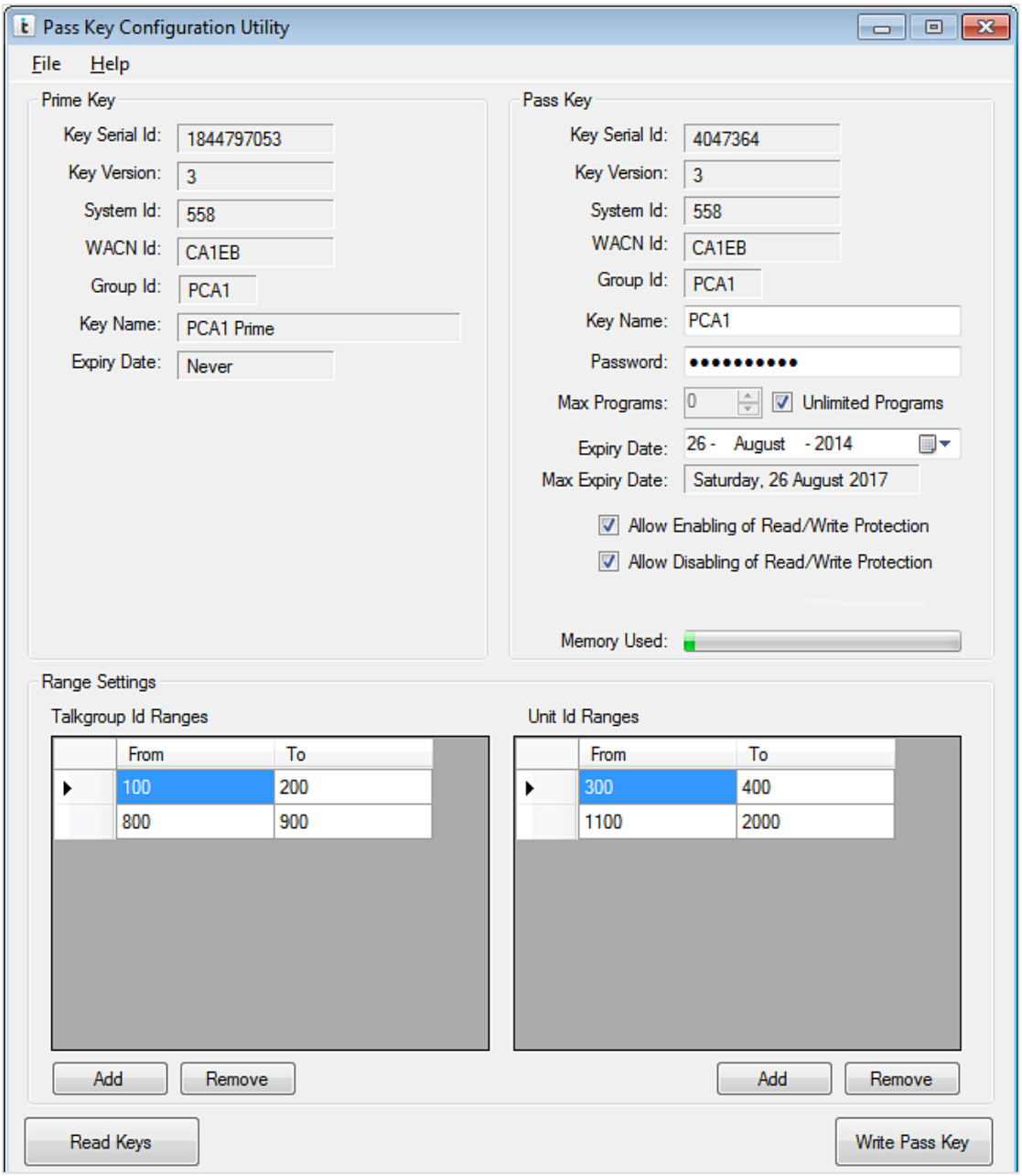
Configuring an ASK Dongle

For information on how to get and configure an ASK dongle, see the user's guide for the EnableProtect Advanced System Key.

Here are some key supplementary points:

- The Group ID is read-only and supplied by Tait. It must match the Group ID used to give the radio read/write protection. Having the correct Group ID lets the Client read and write radio programming settings.
- Only enter a password if you want Client users to authenticate themselves twice – to the ASK dongle and the EnableFleet Client. If you don’t want a password, leave the **Password** field blank.
- Select or deselect the **Allow Enabling of Read/Write Protection** and **Allow Disabling of Read/Write Protection** checkboxes as appropriate for your installation.

  For example, if your Client software can't change a radio’s read/write settings, deselect both check-boxes.
- You can define Talkgroup ID ranges and Unit ID ranges, but this is not necessary because Client users can only give radio IDs defined by EnableFleet Manager.
- Record the Key Serial ID of the Pass Key dongle. You will need it later.
- Use the Tait Pass Key Configuration Utility to configure the ASK dongle.



Assign an ASK Dongle to an EnableFleet User

1. Log in to EnableFleet Manager as an Admin user.
2. Plug the ASK dongle into a USB socket on your PC.
3. Select **Users** > **Manage Dongles**.
4. Select **Add New**.
5. Enter the dongle Serial Number (Key Serial ID) you recorded when "Configuring an ASK Dongle" on the previous page.
6. In the **User** list, select the username you want to assign the dongle to.
7. Save your changes.

   The dongle is now ready to use.

Log in to EnableFleet Client

1. If required, attach your EnableProtect ASK dongle (black pass key) to a USB port on your PC.
2. Start the EnableFleet Client.
3. Enter your login name and password.

   The Client connects to EnableFleet Manager and automatically synchronizes with it.

   Once this is complete, the status bar shows **Sync Status: Idle**.

   ⓘ It is good practice to make sure the EnableFleet Client is regularly synchronized with the EnableFleet Manager, for example by logging in every night. This makes the latest jobs visible in EnableFleet Manager. It also means you can still use the Client if the manager goes down or is unreachable. This is because the Client data store is up to date.

4 Deploying Configurations

Use either of these methods to deploy an approved configuration to a radio:

- Do a job in EnableFleet Client
- Use OTAP in EnableFleet Manager

Different scenarios need different job procedures. This section covers basic procedures.

For other procedures, see "Managing Devices" on page 39.

Do a Job with EnableFleet Client

EnableFleet only supports one radio connection at a time using one serial port. It doesn't support multiple radio connections such as a gang programmer.

These steps apply to all wired jobs:

1. Using a Tait programming cable, attach a radio to your PC and switch the radio on.
2. Open the EnableFleet Client application and log in.
3. Select the COM port used by the programming cable.
4. Select **Read radio serial number**.

   The serial number appears in an adjacent field.
5. If the radio is known to EnableFleet, the Client shows information about the radio's configuration in the **Radio Details** area.
6. If you haven't previously configured the radio using EnableFleet, find the set of EnableFleet data to give to the radio.
7. In the search field, enter the Radio ID or the content of one of the searchable fields, such as the alias.

   This is the first field in the **Radio Details** area. Its name might vary, depending on the type of network(s) the radio operates on and how EnableFleet has been customized.

   The searchable content also varies. For more information, see your customization supplement.
8. Select **Find radio**.

   The Client searches its local data store to find the radio configuration with the information you entered. If it finds more than one configuration, it shows this in a table so you can choose which configuration to use.
9. Use the information in the **Radio Details** area to confirm you have found the correct configuration data.

   This information can include items such as vehicle registration number and region the radio is assigned to.
10. To start deploying the configuration, select **Go**.

    A green tick shows beside each step in the process as it completes successfully.

    When the process is complete, the Client shows **Terminal upgrade complete**.

    WARNING! Do not unplug or dislodge the programming cable during radio configuration.
11. Do any necessary custom user tasks for your EnableFleet system.

For example, you might need to complete an installation checklist.

12. When everything is done, select **Complete** to tell the Client the job is finished.
13. When you have completed all jobs for the day, make sure the Client synchronizes its data with EnableFleet Manager to provide information about the jobs you have done.

    For this you will need an internet connection with EnableFleet Manager.
14. Select **Options** > **Sync Now** or wait for the Client to synchronize automatically.
15. Check that the status bar shows **Sync Status: Idle**.

    This means synchronization is complete.

    ⓘ If you tell the EnableFleet Client to close while synchronization is in progress, it will not close until synchronization is complete.

    The EnableFleet Manager dashboard shows the progress you have made.

    The **Jobs** page provides detailed information about the jobs you have done.

Configuring an OTAP Agent

ⓘ If your EnableFleet system has been licensed for OTAP, you need to configure at least one OTAP Agent. You must configure your OTAP Agent correctly to enable OTAP to run on your network efficiently, and with minimal disruption to critical or business-as-usual communication.

Preparation

Before using OTAP, you will need to do some preparation. Using OTAP requires the appropriate SFE keys and a Wi-Fi access point with a network path to an EnableFleet server.

SFE Keys

You need these SFE keys to perform OTAP over Wi-Fi:

- TPAS075 – OTAP
- TPAS084 – Wi-Fi

Set Up a Wi-Fi Access Point

To perform OTAP, the Wi-Fi access point should provide Wi-Fi-enabled radios with a network path to an EnableFleet server.

ⓘ To avoid large quantities of broadcast traffic being forwarded to the radio, configure the access point and other connected devices. The radio cannot filter out this traffic which might disrupt receiving and processing OTAP packets. Performance might be negatively affected as a result.

Configure Radio with Programming Application

This section explains how to configure a TP95/9600 radio with OTAP using the Programming Application.

Enable OTAP

Before you update a radio over the air, you need to enable OTAP:

1. Select **Global Features** > **OTAP** > **Global**.

   If you are enabling OTAP for TP9600, just select **OTAP** > **Global**.
2. Select the **Enable OTAP** checkbox.

Create an OTAP Profile

When you create an OTAP profile you need to configure it so it can be assigned a Wi-Fi profile:

1. Select **Global Features** > **OTAP** > **Profiles**.

   If you are creating an OTAP profile for TP9600, just select **OTAP** > **Profiles**.
2. To add an OTAP profile, select **Add**.
3. Select the **Send OTAP Registrations** checkbox.

   ⓘ This establishes a path to the EnableFleet server over Wi-Fi. It is needed for Wi-Fi even if the radio is already registering for OTAP over LMR in another profile (or relying on the node register on behalf of the radio in the case of DMR).
4. Select **Server IP Address** > Enter the EnableFleet server IP address.

Configure Wi-Fi Profiles

Once you have created the OTAP profiles, you need to configure the Wi-Fi profiles:

1. Select **Global Features** > **Wi-Fi** > **Common**.

   If you are configuring a Wi-Fi profile for TP9600, just select **Wi-Fi** > **Common**.
2. To add a Wi-Fi profile, select **Add**.
3. Select **SSID** > Enter the SSID of the Wi-Fi access point.
4. Select **OTAP Profile** > Select the OTAP profile you created.
5. Select **Security Mode** > **WPA2 PSK** to access a personal Wi-Fi network or 801.1x EAP for enterprise W-iFi.
6. Select **Pre-shared Key** > Enter the key to match that of the Wi-Fi access point.

Configure Station Mode Settings

1. Select **Global Features** > **Wi-Fi** > **Station** > **Address Assignment**.

   If you are configuring station mode settings for TP9600, just select **Wi-Fi** > **Station** > **Address Assignment**.
2. Select **DHCP** to get an address automatically or set the address statically with these fields:
   - Select **IP Address** > Enter the static IP address of the radio's Wi-Fi bearer.
   - Select **Subnet Mask** > Enter the subnet mask for the Wi-Fi network.
   - Select **Gateway IP Address** > Enter the IP address of the Wi-Fi access point or router.

EAP Authentication Settings

If you are using 802.1x EAP authentication:

1. Select **Global Features** > **Wi-Fi** > **Station** > **EAP Options**.

   If you are configuring authentication settings for TP9600, just select **Wi-Fi** > **Station** > **EAP Options**.
2. Enter these details:
   - Authentication method
   - Anonymous identity
   - Inner authentication
   - Username
   - Password

Configuring a New Radio

To do a job on a radio that is not known to EnableFleet and give the radio its first configuration, see "Configure Radio with Programming Application" on the previous page.

Once you have read the radio's serial number, use the search field to find the correct configuration data for the radio. EnableFleet has not been given this information yet.

Once the job has completed successfully and synchronized with EnableFleet Manager, the device details page for this device contains the radio's serial number.

Update a Radio Configuration

When you change a group configuration (for example new firmware, or radio programming settings for all group members) and it is approved, you need to update the configuration for each group member:

1. In EnableFleet Client, select **Read radio serial number**.

   When the radio provides the serial number, the Client populates the Radio ID fields and any other information from its local data store.

2. To start deploying the new configuration, select **Go**.

   A green tick shows beside each step in the process as it completes successfully.

   When the process is complete, the Client shows **Terminal upgrade complete**.

   > **WARNING! Do not unplug or dislodge the programming cable during radio configuration.**

3. To confirm the job is finished, select **Complete**.

Providing Photos

You can take photos during any wired job and give these to EnableFleet Client. For example, you might want to photograph the installed radio.

When the job is complete, the Client sends the photographs to EnableFleet Manager for auditing and reporting. For more information, see the EnableFleet Client Help.

Doing a Job with OTAP

Once a radio has undergone an initial wired job using the EnableFleet Client and is loaded with compatible firmware, you can complete subsequent updates remotely using OTAP.

ⓘ To receive OTAP updates, devices must be configured with an OTAP license or have one available in EnableFleet.

OTAP jobs are initiated directly from EnableFleet Manager and don't require any action from EnableFleet Client.

Once a new configuration is approved in EnableFleet Manager, the OTAP Agent automatically generates the files required to patch the radio. During this process, the radio's **Device State** shows **In Progress**, and the **OTAP State** shows **Available for OTAP**.

When the device shows **Available for OTAP**, an **Initiate OTAP** button appears in the **OTAP State** field on the **Device Details** and **OTAP Registration** pages.

Do a Job with OTAP

1. Go to the **Device Details** page of the radio you want to update using OTAP.

   Alternatively, you can find this radio on the **OTAP Registrations** page.
2. To queue the radio for an OTAP update, select **Initiate OTAP**.

   You can see queued radios and their current progress on the **OTAP Agent Queue** page under the agent servicing them.

   ⓘ Once you select **Initiate OTAP**, the button changes to **Cancel OTAP**. Select this button if you want to cancel the remote update and remove the radio from the queue.

   Once the update completes successfully, the **Device State** of the radio shows **Up to Date** and the **OTAP Status** shows **Up to Date - OTAP Supported**.

   You can see details of the OTAP job on the **Jobs** list.

   ⓘ The **OTAP Registrations** page lists the radios registered with the OTAP Agent from most to least recent. This is useful when initiating OTAP updates because it shows how recently radios were active on the network and how likely they are to be available for a remote update. You can initiate OTAP directly from the **OTAP Registrations** page.

5 Managing Devices

Fleets change over time. New devices are added, some devices need to be reconfigured for other purposes, and others might be lost, stolen, or damaged.

There are several different procedures in EnableFleet Manager and EnableFleet Client for giving a device the appropriate configuration and updating the EnableFleet database with the status of the devices it manages. This section introduces these procedures and describes relevant scenarios.

ⓘ **Important**! Because configurations are group-based, any changes you make to the members of a group are only downloaded to Clients once the group configuration is approved. If you change group members and don't want to change the group configuration, you can approve a new configuration that is the same as the old one. This renders only the group members you have changed out of date. You then only need to do a job for a member if you updated their configuration.

Add a New Device to a Group

If you have added devices to the fleet, you need to create a device record for them in EnableFleet:

1. Select **Groups** > Locate the group you want to put the device in.
2. In the row for that group, select **View Devices**.
3. Select **Create New**.
4. Fill in the editable fields in the **Configuration** and **Custom Fields** tabs.
5. Select **Save**.

   An EnableFleet Client can now give the new device its configuration.

   ⓘ EnableFleet automatically gives a new device a Device ID. This uniquely identifies the device in the EnableFleet database and is used in OTAP communications. Device IDs are automatically assigned to prevent duplicate values.

   GridLink and Tait Unified Vehicle devices cannot be imported. To see a list of known devices not assigned to a group, select **Group** > **Discovery**.

Move a Device Into a Group

You can move a device from the group it's in to another group – for example, from the **Spares** group to an operational group:

1. Select **Groups** > Find the group the device is in.
2. In the row for that group, select **View Devices**.
3. Select the checkbox beside the row for the device.

   You can select more than one device at a time.
4. Select **Change Group**.
5. Select the group in the drop-down list > Select **OK**.

   The device shows in the devices list for the old and new groups. You must approve the group's draft configuration to confirm the move. The device then only shows in the new group.

Handling Spares in EnableFleet

Networks generally have a stock of spare devices ready for deployment if a device needs replacing or an additional device is needed.

To show these devices in EnableFleet:

1. Create a **Spares** group.
2. Give it a default configuration.
3. Deploy that configuration to the members of the group.

A Client user can take a spare and give it the configuration of the device being replaced. Because the spare device already has a known configuration, you will need to reassign the configuration. For more information, see "Reassign a Configuration" on the facing page.

If spares don't need to be visible in EnableFleet, don't give them a known configuration. The Client user can then replace the radio to give the spare the configuration of the device being replaced.

Replacing a Device

If a device is lost, stolen, or has failed, you need to give a new device the same configuration as the old one. If the new device is not known to EnableFleet (if EnableFleet hasn't given it a configuration), use the Client's Replace radio procedure.

EnableFleet's configuration record now has the serial number of the replacement radio instead of the original radio. EnableFleet still has a record for the original device but has no information about its configuration. (This is because the Replace radio procedure breaks the EnableFleet mapping between the configuration and the original radio.)

Find a Device Record in EnableFleet Manager

1. Select **Feature License Keys**.
2. Filter on the device's serial number.

   ⓘ **Important!** The original radio still has the configuration, but this is no longer visible to EnableFleet.

Reassign a Configuration

If a device already has a configuration and a Client user wants to assign it a different configuration, use the Reassign procedure to take an unused device configuration and deploy it to the device. You can then deploy the device's original configuration to another device.

You can also use the Reassign procedure to deploy a configuration to a new device that already has one. For example, if a device is lost, stolen, or has failed, the Client user needs to give its configuration to a new device. If that new device is known to EnableFleet (if EnableFleet has already given it a configuration), use the Client's Reassign procedure.

Reassigning gives the replacement radio the configuration of the original radio. EnableFleet then has a record of the original radio which isn't linked to any configuration, and a configuration for a spare that is no longer linked to a radio.

To reassign a configuration in the Client:

1. Select **Options** > **Reassign**.
2. Follow the procedure in the Help.

Cloning a Configuration

You can give a new device the same configuration as an existing device. For example, a mobile might need to be installed in a truck that will replace an existing truck.

Because this procedure results in two devices with the same configuration, it triggers EnableFleet's duplicate detection, but this doesn't mean anything is wrong.

Cloning copies the whole configuration except the serial number and the Device ID, which uniquely identifies the configuration.

ⓘ Make sure both devices aren't on at the same time as this causes network problems. Switch the existing device off before you switch the new device on.

Clone a Configuration in EnableFleet Manager

1. Open the devices list for the group.
2. Select the device > Select **Clone**.

   A Client user now needs to do a job on a new device to deploy the cloned configuration.

Decommissioning Devices

If a device must be taken out of service, you need to decommission it. This tells EnableFleet the device is no longer part of a group.

When you decommission a device, EnableFleet retains a record of the configuration and the device's serial number, but severs the link between them.

You can decommission a device in EnableFleet Manager or in EnableFleet Client. See the Help for more information.

6 Support for Harris Portable Radios

EnableFleet 3.5 added support for managing these portable radio:

- XG series
- XL series

To apply configuration changes, program a radio using a wired connection to the EnableFleet Client.

Configure EnableFleet to Program Harris Radios

1. Upload the installer for Harris Radio Personality Manager 2 (RPM2) as a supporting application.

   We recommend version R6 or later.
2. Upload the Harris firmware files to be used:
   - Harris XG radios use *.CMP files
   - Harris XL radios use *.HPK files
3. Use RPM2 to create a personality file (*.PRSX) to assign to each EnableFleet group as the programming file.
4. Create groups for each logical group of Harris radios, using the appropriate type of device (either Harris XG Series or Harris XL Series):
   a. Select the firmware file you uploaded in step 2.
   b. Upload the programming file you created in step 3.
   c. Choose **RPM2** as the programming application.
5. Approve the group configuration.
6. Install and launch the EnableFleet Client and log in.

   Wait for it to synchronize with the server and download the required programming files.

   When ready, the status bar shows **Sync Status: Idle**.
7. Connect the Harris radio you are programming with a standard Harris USB or serial programming cable.
8. If a Harris XL radio is connected, it will automatically be selected from the programming port drop-down at the top of the EnableFleet Client window.

   If you are using a Harris XG radio over a serial connection, you might need to manually select the correct port from the drop-down.
9. Select the **Read Radio Serial Number** button to interrogate the radio.

   If RPM2 is not installed on the computer, you will be prompted to install it.

   Follow the steps on the setup wizard to choose where to install it.

   Once RPM2 is installed, you can connect your Advanced Access Control dongle to the computer or run the **AAC Administrator** application to enter your license key.

   Once RPM2 is installed and licensed, select the **Read Radio Serial Number** button again to use RPM2 to interrogate the radio.
10. Start the programming job as normal by selecting the **Go** button in the EnableFleet Client.

    Note that:
    - To program Harris radios, all computers running the EnableFleet Client **must** have an Advanced Access Control license key or dongle for RPM2.

- To install a license key, run the **AAC Administrator** application from the Start Menu once RPM2 is installed. This license is separate from the licenses used by EnableFleet.
- OTAP and feature key management are **not** supported for Harris radios.

7 Support for GridLink

EnableFleet supports the discovery of GridLink terminals from the SCADA Gateway:

1. Make sure an OTAP Agent has been configured to use **GridLink SCADA Gateway Integration**.

   This setting is under **Admin** > **OTAP Agents** > **Node integration**.
2. Create a new EnableFleet group for the GridLink devices.
3. Select the **Discover** button.
4. Choose from the list of Divisions to determine which terminals will be imported into the current EnableFleet group.

   ⓘ This process is a one-time operation. If terminals are added or removed from the Division on the SCADA Gateway, those changes will not update the EnableFleet group. This lets EnableFleet groups represent devices that share the same configuration, while Divisions on the SCADA Gateway might be defined differently.

   You can run the import feature again any time to pull in new terminals.

GridLink SCADA Gateway Integration

If you are managing GridLink terminals, you should use the SCADA Gateway Integration mode and enter the address of the SCADA Gateway and credentials to access it.

The SCADA Gateway will be used for importing GridLink terminals into an EnableFleet group, and for pushing updates to GridLink terminals.

GridLink functionality won't be available if there are no OTAP Agents configured to use SCADA Gateway integration.

Device Applications

To manage applications installed on Tait radios, select **Configuration** > **Device Applications**.

You can use this page to upload and manage available GridLink patches. These are supplied as a .GZ file.

When an OTAP job is initiated, patches will automatically be pushed to the SCADA Gateway and terminal.

Device Discovery

GridLink and Tait Unified Vehicle devices cannot be imported.

To see a list of known devices not assigned to a group, select **Group** > **Discovery**.