

Data Maps and File Management

1. Introduction

Data Maps (also referred to as Tunes) are the user-defined settings stored in the device. These maps can be saved to a PC as files for backup, reuse, or duplication of configurations.

Maps are used to:

- Back up a working setup
 - Transfer settings between devices
 - Prepare configurations offline
 - Restore a system after failure
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2. Saving a Map to PC



To save a map from the device:

1. Connect the device to the software and ensure it is **online (live)**
 2. Use one of the following methods:
 - File → Save As
 - Save Map button on the toolbar
 3. Enter a file name and select a save location
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File Naming Recommendation

Use a structured name for easy identification:

Device_Engine_Version_Description

Example:

Badger_2JZ_V1.2_BaseTune

Badger_1UZ_2Coil_V1.2_DynoMap_John_Smith

3. Loading a Map from PC



To open a saved map:

1. Select one of the following:
 - File → Open
 - Open button on toolbar
 - Open Recent (for previously used maps)
 2. Select the map file from your PC
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Important

- Opening a map will place the software in **offline mode**
 - Unsaved changes in the current session will prompt a save warning
- You can now edit and save the map offline if required.
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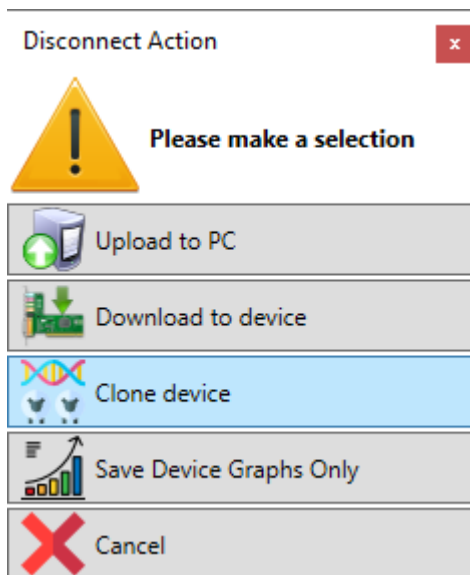
4. Downloading a Map to a Device



To load a map into a device:

1. Open the required map (offline)
2. Connect to the device
3. Select one of the connect options

You will be presented with the following options:



Upload to PC

- Discards the open map
 - Loads the current device map into the software
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Download to Device

- Writes the open map to the device
- Does **not include critical setup data** unless previously saved

👉 Use this when updating tuning values only

Clone Device (Dolly)

- Copies all data including setup and configuration
- Makes the device identical to the source

⚠ Important:

- Disconnect output harness before powering
- Verify setup before running the engine

Cancel

- Cancels the operation
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5. Import and Export (Graph / Matrix)

The system supports two tuning methods:

- Graph-based tuning
- Matrix-based tuning

To transfer specific data between maps:

Export

1. Open the source map (offline)
 2. Right-click on the graph or matrix
 3. Select: Task → Export Excel
 4. Save the file
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Import

1. Open the target map or connect to the device
 2. Right-click on the same graph or matrix
 3. Select: Task → Import Excel
 4. Select the saved file
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Notes

- Existing data can be replaced or kept
 - LED will flash yellow to indicate changes
 - Save to device or file to confirm changes
 - Microsoft Excel is required
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6. Map Recovery Features

Auto Save

The software automatically saves maps at intervals.

To access:

- File → Auto Saves

File format:

#SerialNumber_DateTime_Map Name.MapType

Examples:

#001123131237_20251206134013906_Normal.spiecu

#000084134230_20241022202825195_Spinning ECU.spiecu

Notes

- The latest file is typically the most recent working version
- These files can be used to restore lost configurations
- The Map Name is included in the file name for easier identification
- It is recommended to assign a meaningful Map Name before saving
- This helps when locating and restoring maps later

Tune/Map Information	
Name	Spinning ECU
Model	Startup Map

Device Save

Each time a map is saved to a device, a backup is stored.

To access:

- File → Device Saves

File format:

~SerialNumber_DateTime_Map Name.MapType

Examples:

~001123131237_20251210145736139_Startup Map.spiecu

~000084134230_20241022202815434_Spinning ECU.spiecu

Notes

- The latest file is typically the most recent working version
- These files can be used to restore lost configurations
- The Map Name is included in the file name for easier identification
- It is recommended to assign a meaningful Map Name before saving
- This helps when locating and restoring maps later

Tune/Map Information	
Name	Spinning ECU
Model	Startup Map

7. File Locations

Saved files are stored in the software installation directory on the C:>.

Auto-save and device-save folders can be accessed directly from within the software or via the file system.

8. Map Conversion

Map files can be converted between compatible systems by changing the file extension. However, differences in firmware and software versions may result in missing or altered settings.

Compatible Conversion (Same Version)

Map formats between different brands of the **same software version** can be used with minor adjustments.

Example: Spitronics to ecuDIY (Version 1.1 or 1.2)

Change file extension:

.spiecu → .dtecu

Important Notes

- Not all settings may transfer correctly
 - Some features may differ between firmware versions
 - Always review the map in **offline mode** before loading to a device
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Recommended Procedure

1. Open the converted map in offline mode
 2. Check all critical settings:
 - Inputs
 - Outputs
 - Sensor calibration
 - Ignition and fuel settings
 3. Correct any mismatched or missing values
 4. Only then download the map to the device
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Incompatible Conversion (Different Versions)

Map files from different software versions or older products cannot be used directly.

Recommended Method

1. Open the old map in its original software
 2. Open a new map in the current software
 3. Compare settings manually
 4. Transfer required data
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Graph and Matrix Transfer

Use the Import / Export feature to transfer:

- Fuel maps
- Ignition maps
- Other graph or matrix data