

Convert to Insight JSON User Guide

24/08/2026

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Revision History				
Rev	**Date**	**Section**	**Change**	**Author**
1.0	27/09/23	All	Created	TAH
1.0	16/10/23		Typos	TAH
1.1	02/07/24	All	Added support for Houston Radar	TAH
1.2	25/11/24	All	Added support for simple volume-only CA DMP format files.	TAH
1.3	24/02/25		Added support for Q-Free DAT files	TAH/SL
1.4	19/11/25		Application will break large output into a series of smaller files.	TAH
1.6	06/03/25	Houston Radar	Added Armadillo Tracker and simplified export	TAH
	10/01/25	Install	Updated .NET installation screens	TAH
1.7	24/08/2026	All	Updated Installation guides	SAL

1 Introduction

Insight supports the importing of data files into devices. This is to allow users to use devices without communications or to pick up data from a device which has lost the ability to communicate for some reason.

This data can then be uploaded into Insight using either native format files or using an intermediate formats such as 'Insight JSON' or 'Binned JSON'.

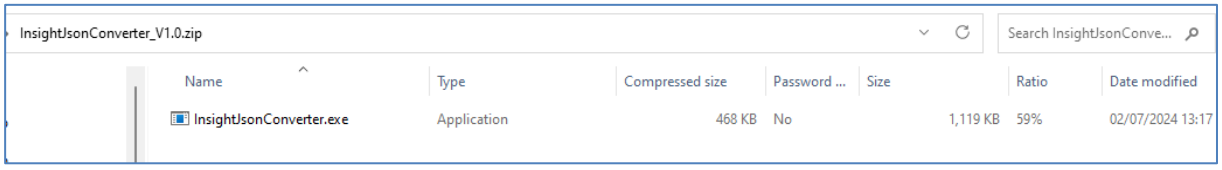
Device	File Format to import into Insight
M680, M720 (VBV or Binned)	Native M680 file format
Connex (Traffic or Active)	Connex JSON (perhaps created by the NDC2Connex tool)
Tagmaster EasyData	Insight JSON
CA Traffic simple DMP (volume only)	Binned JSON
Houston Radar	Insight JSON
Q-Free	Insight JSON

The intention is that Insight JSON will be the format used in most future devices for VBV data and Binned JSON for Binned data.

2 Insight JSON Converter

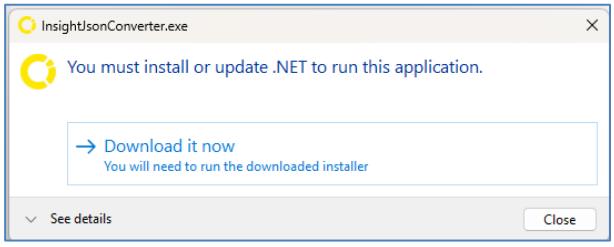
2.1 Install

Unzip the provided zip file and start the EXE.

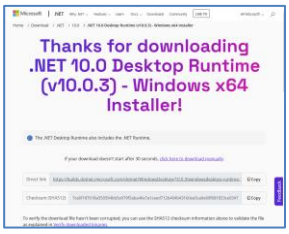


2.2 Run the Tool

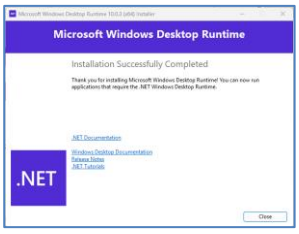
On first run, you may be required to install or update .NET. If required, you will get the popup below when you run the program.



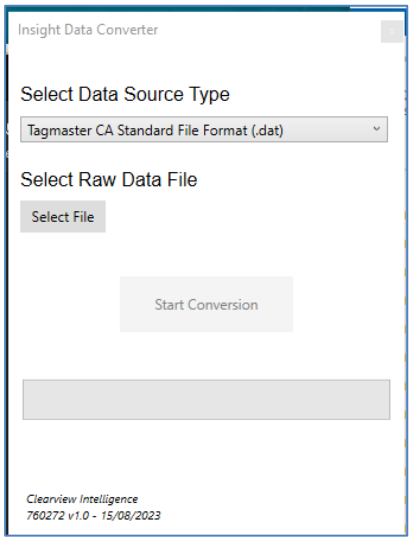
Clicking 'Yes' will open the webpage, shown below, and prompt the file download. Download the file and start the install process. The install process should be a single step







Once installed, run the InsightJsonConverter.exe program again, and it should open on the screen below.
Select files to be converted and then click 'Start Conversion'. For simplicity it may be best if all the files come from a single device and have the device's external ID as part of their filenames.



Select Data Source Type: chose between Tagmaster, CA DMP and Houston.

Select Raw Data File: use the file dialog to select files. The user may use ctrl-click or shift-click to select multiple files. The user may also use the button multiple times to select files from different folders.

External ID (Houston/ Q-Free Only): enter the Houston Silicon ID or Q-Free equipment number used as external identify when the device was setup in Insight. This is used to allow Insight Import to check that the data in the file belongs to the correct device.

Speed Unit (Houston Only): enter whether the device records speed in KPH or MPH. It is **vital** that this is entered correctly as it cannot be fixed after importing into Insight.

Optional site prefix text (DMP only): enter an optional prefix to add to the DMP site name to ensure the Insight site name is unique across all customers.

Start Conversion: the tool will convert the files and places them in a folder called 'Insight JSON'. The tool will automatically open the output folder. Files may be broken up into smaller ones and zipped as insight Import has a maximum individual file size.

2.3 Useful link on different Device data import

1. Import Data to a Marksman Device (M680 and M720)
2. Import data (including Temporary Site Survey)
3. Import Data in Houston Radar Device
4. Import Q-Free Data .DAT File Format

Note: The above links are only compatible with the insight 3.84 version and above.

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