

Metric Configuration Tool - Adding a New Metric

This guide illustrates how to use the Metric Configuration Tool to add new metrics to the metric metadata. The exercise walks through adding a new High School Transportation metric as an example. This is a precursor step to writing metric calculation code (which is covered in detail in the [ETL Developers' Guide - Coding](#) section).

MCT Guide Contents

Read more about the Metric Configuration Tool:

Step-by-Step Guide

It is recommended that the latest Dashboard Types CSV files get imported before editing. The metric configuration tool assumes the file versioning is managed via source control and checked in after every edit.

A high-level overview of the steps is as follows:

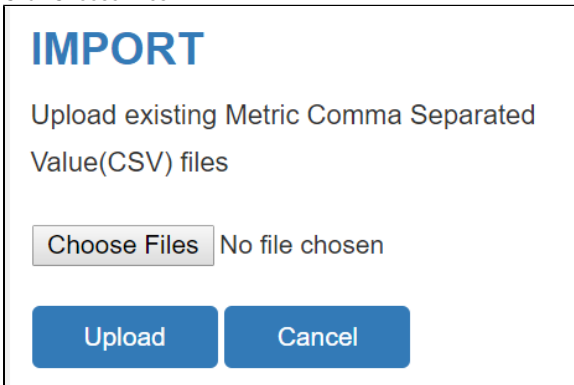
- [Step 1. Import the Existing Dashboard Type CSV Files](#)
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Each step is described in detail, below.

Step 1. Import the Existing Dashboard Type CSV Files




















Start by importing (i.e., uploading) the existing Dashboard Type CSV files. Worth noting is that all files must be imported as there are interdependencies between files, and the file names must match the original file names in the as-shipped code.

- Click Choose Files.



- Navigate to the Dashboard Type CSV files. By default, the files can be found under \Ed-Fi\Etl\src\EdFi.Runtime\Reading\Queries\{ODS version}\DashboardTypes

Name

-  DashboardExport.DomainEntityType.csv
-  DashboardExport.Metric.csv
-  DashboardExport.MetricAction.csv
-  DashboardExport.MetricActionType.csv
-  DashboardExport.MetricAssessmentAcademicSubject.csv
-  DashboardExport.MetricAssessmentCategoryType.csv
-  DashboardExport.MetricAssessmentReportingMethod.csv
-  DashboardExport.MetricAssessmentRollupMapping.csv
-  DashboardExport.MetricAssessmentTranslator.csv
-  DashboardExport.MetricCellMetadata.csv
-  DashboardExport.MetricCellTypeMetadata.csv
-  DashboardExport.MetricColumnMetadata.csv
-  DashboardExport.MetricFootnoteDescriptionType.csv
-  DashboardExport.MetricNode.csv
-  DashboardExport.MetricState.csv
-  DashboardExport.MetricStateType.csv
-  DashboardExport.MetricType.csv
-  DashboardExport.MetricVariant.csv
-  DashboardExport.MetricVariantType.csv

- Click Upload. Progress messages are shown on-screen.

IMPORT

- Database tables emptied.
- Imported file DashboardExport.DomainEntityType.csv
- Imported file DashboardExport.Metric.csv
- Imported file DashboardExport.MetricAction.csv
- Imported file DashboardExport.MetricActionType.csv
- Imported file DashboardExport.MetricAssessmentAcademicSubject.csv
- Imported file DashboardExport.MetricAssessmentCategoryType.csv
- Imported file DashboardExport.MetricAssessmentReportingMethod.csv
- Imported file DashboardExport.MetricAssessmentRollupMapping.csv
- Imported file DashboardExport.MetricAssessmentTranslator.csv
- Imported file DashboardExport.MetricCellMetadata.csv
- Imported file DashboardExport.MetricCellTypeMetadata.csv
- Imported file DashboardExport.MetricColumnMetadata.csv
- Imported file DashboardExport.MetricFootnoteDescriptionType.csv
- Imported file DashboardExport.MetricNode.csv
- Imported file DashboardExport.MetricState.csv
- Imported file DashboardExport.MetricStateType.csv
- Imported file DashboardExport.MetricType.csv
- Imported file DashboardExport.MetricVariant.csv
- Imported file DashboardExport.MetricVariantType.csv

Step 2. Add a New Transportation Category for the Metric

- Go to Edit Metric Navigation, click Edit.

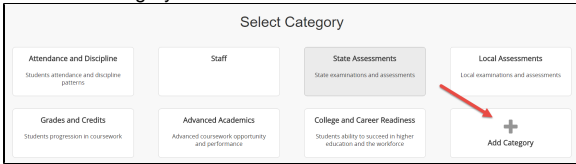
EDIT METRICS

The Metric Tree page will show the current structure of the Metric Tree that is defined by the DashboardExport.MetricNode.csv file.

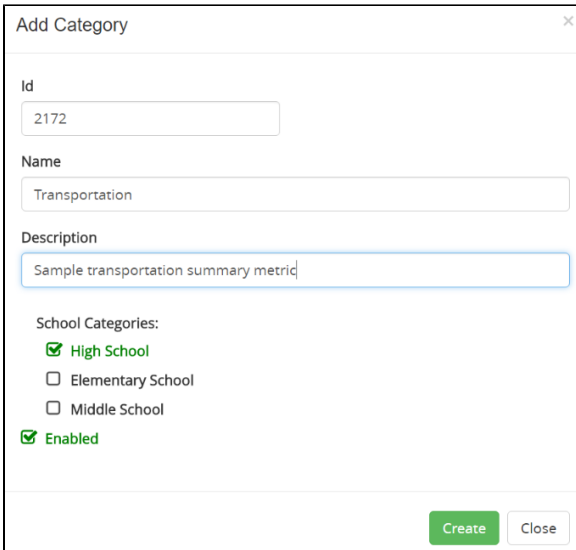
Edit

- Navigate to the School Hierarchy Node.

- Click Add Category.

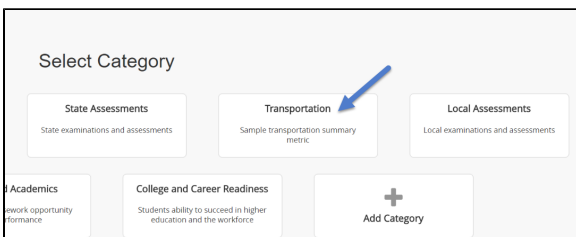


- The Id value will be automatically assigned to the next available number. The other values for this walkthrough are:
 - Name: Transportation
 - Description: Sample transportation summary metric
 - School Categories: High SchoolT21
 - Enabled: Yes
- When you've entered the values, click Create.

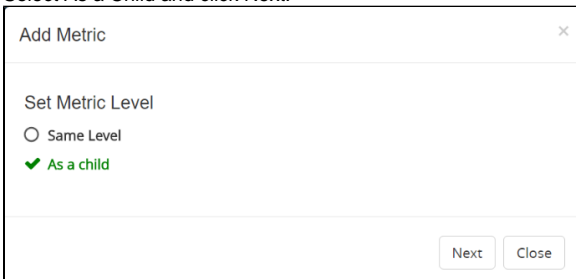


Step 3. Add a new Aggregate Metric to the Transportation Category

- Click on the new Transportation Category



- Add a new Aggregate Metric by clicking the Add Metric button.
- Select As a Child and click Next.



- Select High School Category and click Next.

- The Basic Information for this walk through is:
 - Id: 2174
 - Name: Transportation Method Rate
 - Metric Type: Container
 - Enabled: Yes

- Click Create.

Step 4. Add a New Granular Metric

Now we'll add a new granular metric as a child of the Transportation Method Rate we just created.

- Click on the newly created Transportation Method Rate.

- Click Add Metric.
- Set Metric Level - As a child.
- Select Categories - High School.
- The Basic Information for this walkthrough is:
 - Id: 2175
 - Name: To and From School Transportation Method
 - Type: GranularMetric
 - Enabled: Yes

Add Metric ✕

Basic Information

Id

Name

Type

Format

List Format

Enabled

- Click Create.

At this point, you should have a new "To and From School Transportation Method" metric. You'll see a screen that looks something like this:

Home / School / Transportation / To and From School Transportation Method

← Back

Transportation High School

To and From School Transportation Method (Transportation Method Rate)

Find A Metric: Go

Transportation Method Rate

To and From School Transportation Method	
Overview	Edit Details
Metric Name	To and From School Transportation Method
Metric Display Name	To and From School Transportation Method
Metric Description	
Metric Id	2175
Metric Variant Id	2175
Domain	School
Tooltip	
Metric Variant Type	CurrentYear
Enabled	True
Actions: Configure	
Count:	0
States: Configure	
Count:	0

i An optional step is to add prior year metrics. When added, prior year metrics allow the dashboard to show/hide the value recorded as part of [Creating a Year-End Snapshot](#) for the previous year. Because this is a special type of metric that follows a convention, the tool configures this when created via the UI.

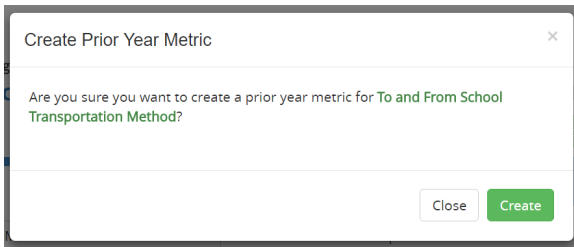
- To add a prior year metric, click on "Create Prior Year Metric".

High School

To and From School Transportation Method (Transportation Method Rate)

To and From School Transportation Method	
Overview	Edit Details
Metric Name	To and From School Transportation Method
Metric Display Name	To and From School Transportation Method
Metric Description	
Metric Id	2175
Metric Variant Id	2175
Domain	School

- A confirmation message will appear for the prior year metric that is about to be created. Click **Create**.



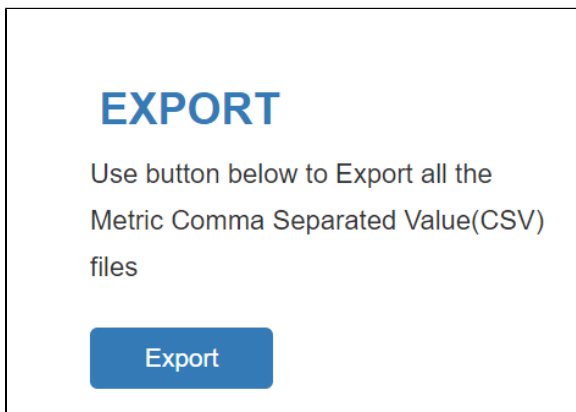
- Prior Year To and From School Transportation Method metric should be added to the tree.

Transportation	
Find A Metric	Go
High School	
Prior Year To and From School Transportation Method	
Overview Edit Details Actions States Nodes	
Metric Name	Prior Year To and From School Transportation Method
Metric Display Name	Prior Year To and From School Transportation Method
Metric Description	
Metric Id	2175
Metric Variant Id	200002175
Domain	School
Tooltip	
Metric Variant Type	PriorYear
Enabled	True

Step 5. Export the Updated CSV Files

Exporting the updated files is easy:

- Go back to the Home page.
- Click **Export**.



Step 6. Replace the Dashboard Types Files

- Replace the Dashboard Types files under the `Ed-Fi/Etl/src/EdFi.Runtime/Reading/Queries/3.1/DashboardTypes/`. The updated files should be picked up on the next ETL run and the dashboard should reflect the new transportation metrics (though without calculations at this point).