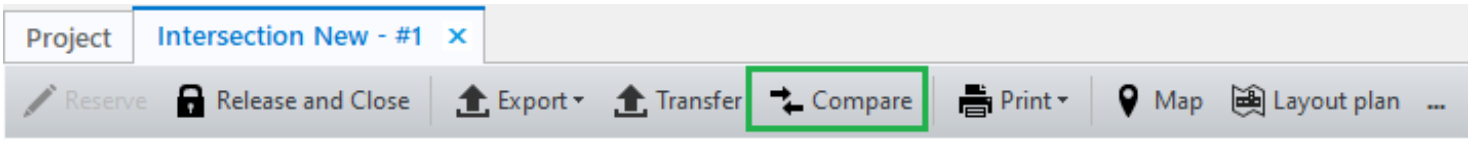
Introduction

The sX Config Comparer tool allows users to compare configurations of sX controllers, highlighting any differences between the archived and running configurations. This functionality assists users in ensuring consistency and accuracy in the controller settings.

How to Start

Run from Yutraffic Office

The tool can be launched directly from Yutraffic Office using the **Compare** button located on the sX Advanced tab for each intersection version with an sX controller type. The configuration of the intersection version is automatically populated as the initial configuration for comparison.



Standalone

The tool can also be launched as a standalone application. Users can start the application by executing the **Sitraffic.Tools.sX.Comparer.exe** file located in the installation directory. Additionally, the tool is accessible from the standard Windows Start Menu under the name **sX Config Comparer**.

Select Configurations to Compare

Users can compare configurations using archived files, such as **.sxa** files, or by downloading the configuration directly from the sX controller. The latter option requires authentication via username and password or a certificate.

Compare Configuration Files (.sxa)

To compare configuration files, select the desired **.sxa** file using the file selection dialog. When launching the tool from Yutraffic Office, only the second file can be selected for comparison, as the first configuration is pre-selected automatically.

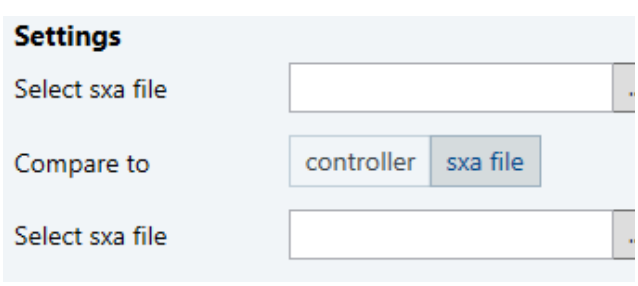


Figure 1: Standalone

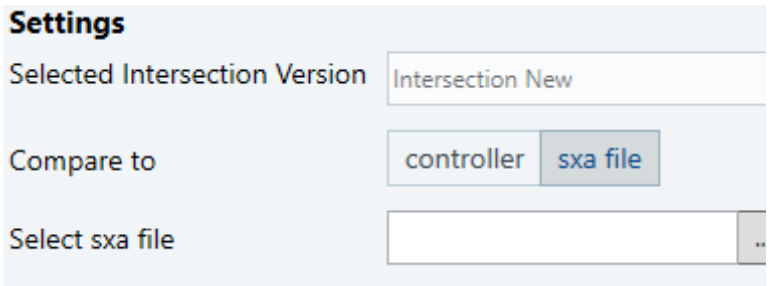
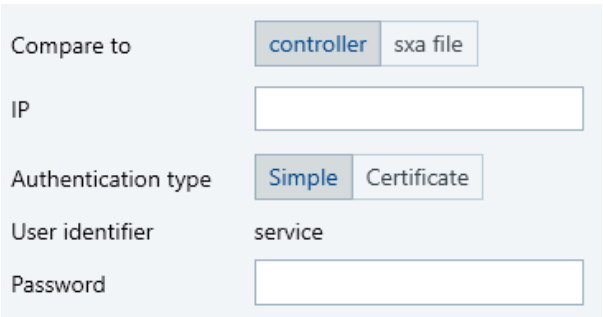


Figure 2: From Yutraffic Office

Compare with a Configuration from Controller

Enter the IP address of the target controller and select the authentication method: **Simple** (using password) or **Certificate**. Note that the authentication method must be configured on the controller.



Results

The results of the comparison are displayed on the right side of the window, categorized into **Metadata**, **Traffic actuation files** and **Controller configuration** differences.

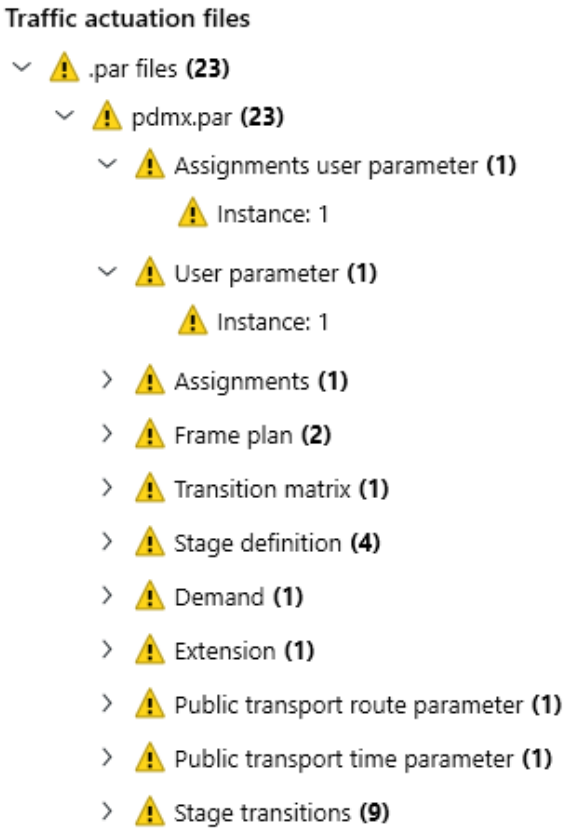
Metadata

This section contains overview of the **Metadata** for each section of the sX supply data (if present). Metadata contains information about **Modification date**, **Editor** and **Version**.

Metadata	Source	Target
.cod file		
sl.cod		
Modification date	5/2/2019 10:12:51 AM	7/25/2024 8:41:47 AM
Editor	jaenicke	martina
Version	0.6.1	0.6.1
.par files		
sl.par		
Modification date	4/1/2022 8:25:17 AM	7/25/2024 8:44:52 AM
Editor	z0045dbm	martina
Version	0.6.1	0.6.1
Configuration		
Modification date	4/1/2022 8:25:17 AM	7/25/2024 8:44:52 AM
Editor	z0045dbm	martina
Version	0.6.1	0.6.1

Traffic actuation files

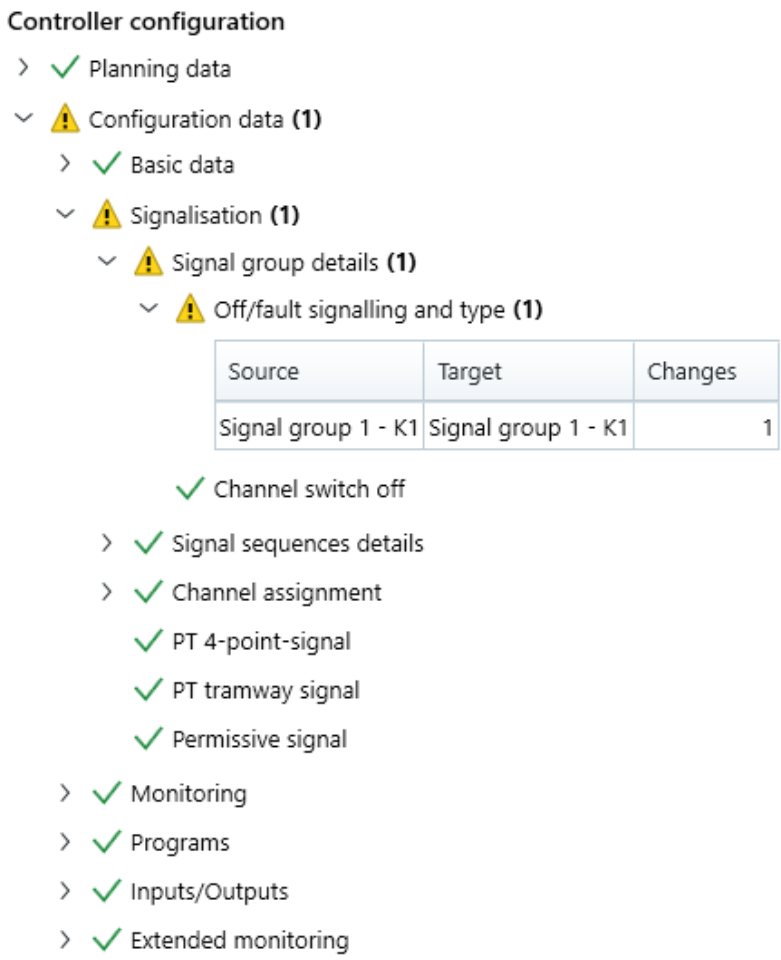
This section contains overview of changes in the Traffic actuation files. Differences for some of the Traffic actuation logics (**pdmx**, **sl** or **vsplus**) are shown on the **instance** level, for all the other logics the differences are shown only on **file** level.



Example of differences overview for pdmx

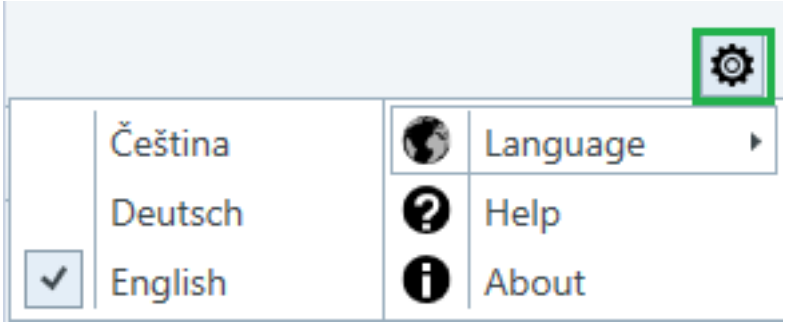
Controller configuration

The configuration data are presented hierarchically in a tree structure, with changes highlighted for each traffic object.



Settings

The Settings icon in the upper right corner provides access to options for changing the language, viewing Help, and About information.



Please note that the language can only be changed when using the standalone tool. In the Office-based tool, the language is determined by the language settings of Yutraffic Office. If the language from Yutraffic Office is not supported, the tool defaults to English.

Printing

The comparison report can be printed to a **.docx** file by clicking the printing icon  in the upper right corner.

In the subsequent dialog, users can choose the folder to save the **.docx** file and rename it if desired (by default, the file name is composed of the names of the compared intersections). After saving, the **.docx** file opens automatically.