

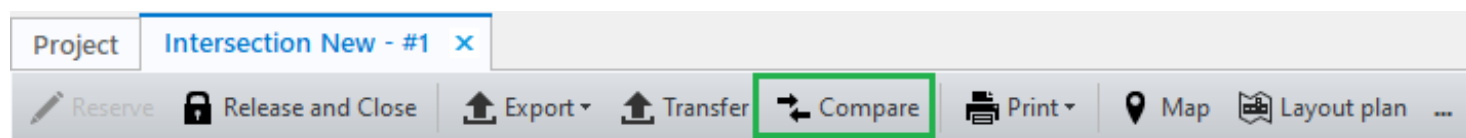
Introduction

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 Yutrafic Office

The tool can be launched directly from Yutrafic 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

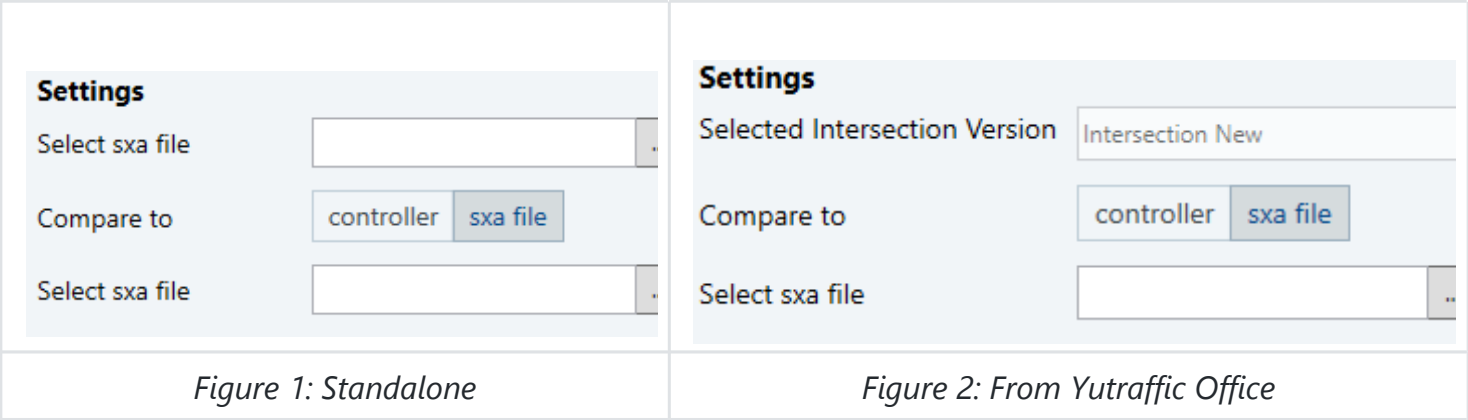
The tool can also be launched as a standalone application. Users can start the application by executing the **Sittraffic.Tools.sX.Comparer.exe** file located in the installation directory. Additionally, the tool is accessible from the standard Windows Start Menu under the name **sX Config Comparer**.

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 Yutrafic Office, only the second file can be selected for comparison, as the first configuration is pre-selected automatically.



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.

Compare to	<div>controller sxa file</div>
IP	<input type="text"/>
Authentication type	<div>Simple Certificate</div>
User identifier	service
Password	<input type="password"/>

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.

Traffic actuation files

- ▼ ⚠️ .par files (23)
 - ▼ ⚠️ pdmx.par (23)
 - ▼ ⚠️ Assignments user parameter (1)
 - ⚠️ Instance: 1
 - ▼ ⚠️ User parameter (1)
 - ⚠️ Instance: 1
 - > ⚠️ Assignments (1)
 - > ⚠️ Frame plan (2)
 - > ⚠️ Transition matrix (1)
 - > ⚠️ Stage definition (4)
 - > ⚠️ Demand (1)
 - > ⚠️ Extension (1)
 - > ⚠️ Public transport route parameter (1)
 - > ⚠️ Public transport time parameter (1)
 - > ⚠️ Stage transitions (9)

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.

Controller configuration

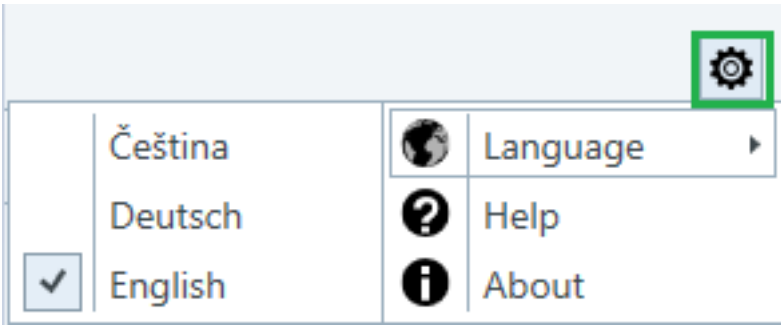
- > ✓ Planning data
- ▼ ⚠ Configuration data (1)
 - > ✓ Basic data
 - ▼ ⚠ Signalisation (1)
 - ▼ ⚠ Signal group details (1)
 - ▼ ⚠ Off/fault signalling and type (1)

Source	Target	Changes
Signal group 1 - K1	Signal group 1 - K1	1

- ✓ Channel switch off
- > ✓ Signal sequences details
- > ✓ Channel assignment
 - ✓ PT 4-point-signal
 - ✓ PT tramway signal
 - ✓ Permissive signal
- > ✓ Monitoring
- > ✓ Programs
- > ✓ Inputs/Outputs
- > ✓ Extended monitoring


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 Yutrafic Office. If the language from Yutrafic 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.