

# PSS®SINCAL Merge

Lifecycle management of PSS®SINCAL network models

## At a glance

The PSS®SINCAL Merge application helps to manage differences between two PSS®SINCAL network models with minimal user intervention.

## The challenge

A PSS®SINCAL network model is a snapshot of an actual network modeled in an external source. When work is done on the same network model by both the external system and within the PSS®SINCAL application, the network models become increasingly different. When extracting a modified PSS®SINCAL network from the external source it will not contain the modeling work done in PSS®SINCAL.

## Our solution

PSS®SINCAL Merge allows users to easily combine the network model changes from the external source with the modeling work done in PSS®SINCAL. Typically the network model would need to be manually re-worked to merge changes - by using this application users can ensure changes are not lost, and continue working with an up-to-date model.

## Keeping your model synchronized with an external source

In case the PSS®SINCAL network model is created by an external source like a GIS system, the working process starts

with the data conversion from the external source. After the conversion, over time there will usually be changes in the PSS®SINCAL network and also in the source system.

At this point the PSS®SINCAL Merge application compares the actual content of the external source (PSS®SINCAL database S2a) with the user-modified network model (PSS®SINCAL database S1b), as shown in Figure 3. It then creates one PSS®SINCAL network model with the user modifications and the changes from the source system.

In this way it is possible to synchronize a PSS®SINCAL network model with the network model created from various source systems, such as GIS, ERP, or other network planning tools like PSS®E.

## Keeping your team work synchronized

When a team works on different versions of the same base network model, the models will often differ over time. The PSS®SINCAL Merge tool offers the possibility to compare and update both network models so that the modeling work performed within the team is not lost.

## Identification of elements

The identification of the PSS®SINCAL elements is essential for the successful

PSS®SINCAL database merge. The application supports the following PSS®SINCAL element properties for identification:

- Name
- Master resource
- Extended data (node / element)

The identification property has to be filled and remain unchanged under the lifecycle of the PSS®SINCAL database. The identification rules are defined in an XML format file.

## The graphical user interface

PSS®SINCAL Merge application is independent of the PSS®SINCAL user interface and has its own graphical user interface (GUI). The easy-to-use GUI allows you to merge PSS®SINCAL network models with only a couple of mouse clicks.



Figure 1: GUI of the Merge application

## The results

The main result of the merge process is the merged PSS®SINCAL network model representing the combination of both source network models. The resulting PSS®SINCAL network model also includes:

- Merge description: The merge process creates a database description entry with the update process information (as update history).
- Network element groups: The PSS®SINCAL Merge application allows you to create new grouping elements for easy identification of the modified elements.

During the merge process a set of log files are creating including detailed information on the logging process and processed difference. This allows users to easily analyze the merger process.

## Benefits

- **Time saving:** No more waste of precious time by manually reworking changes in separately maintained network models. Save large amounts of time by keeping network models in sync with PSS®SINCAL Merge.
- **Multifunctional:** Use PSS®SINCAL Merge to manage the network modeling within a team or maintain network models created from external sources like GIS or other software in a highly effective way.
- **Flexible:** The merging process can be flexibly parameterized towards your individual needs.
- **Easy to use:** With the easy-to-use graphical user interface you can merge two PSS®SINCAL networks with a couple of mouse clicks.

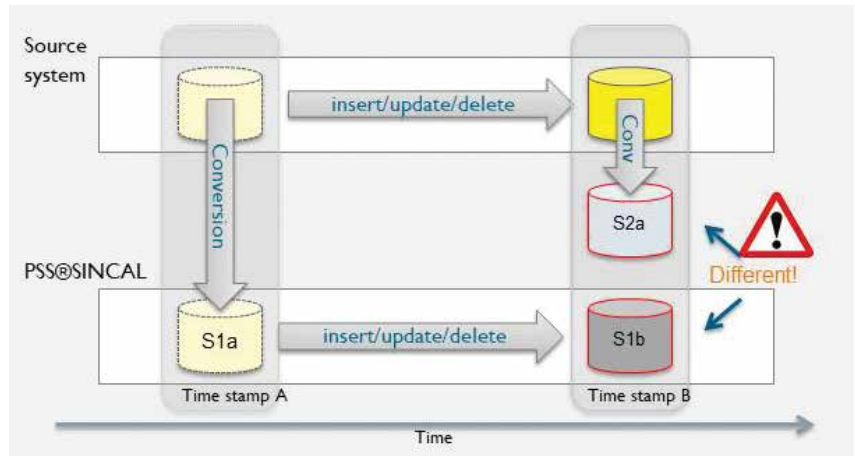


Figure 2: External source scenario, PSS®SINCAL network model and external source will be different over time

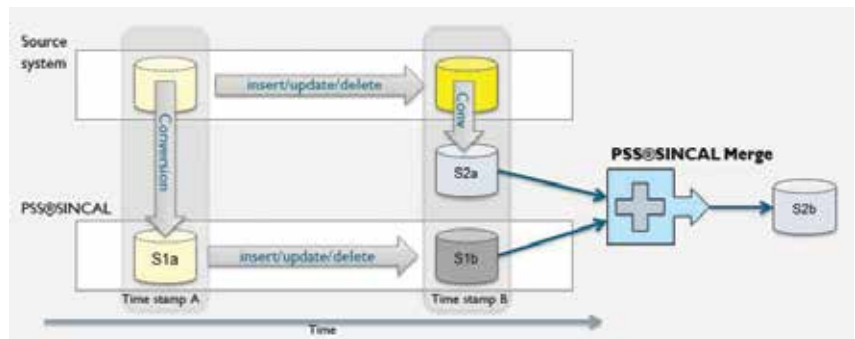


Figure 3: Merging user modified database with actual content of an external source

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