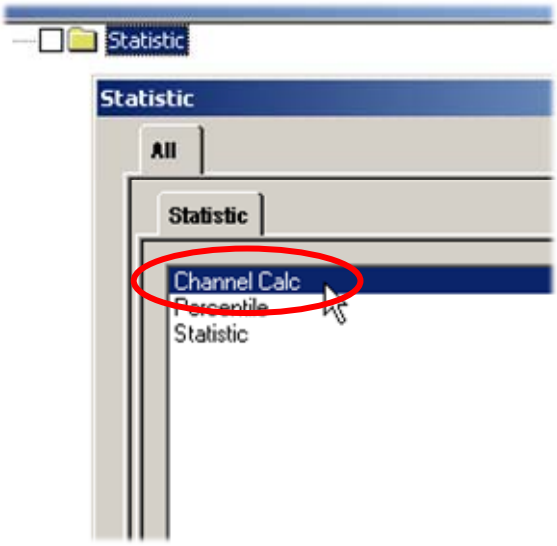
Functions of ATP 14

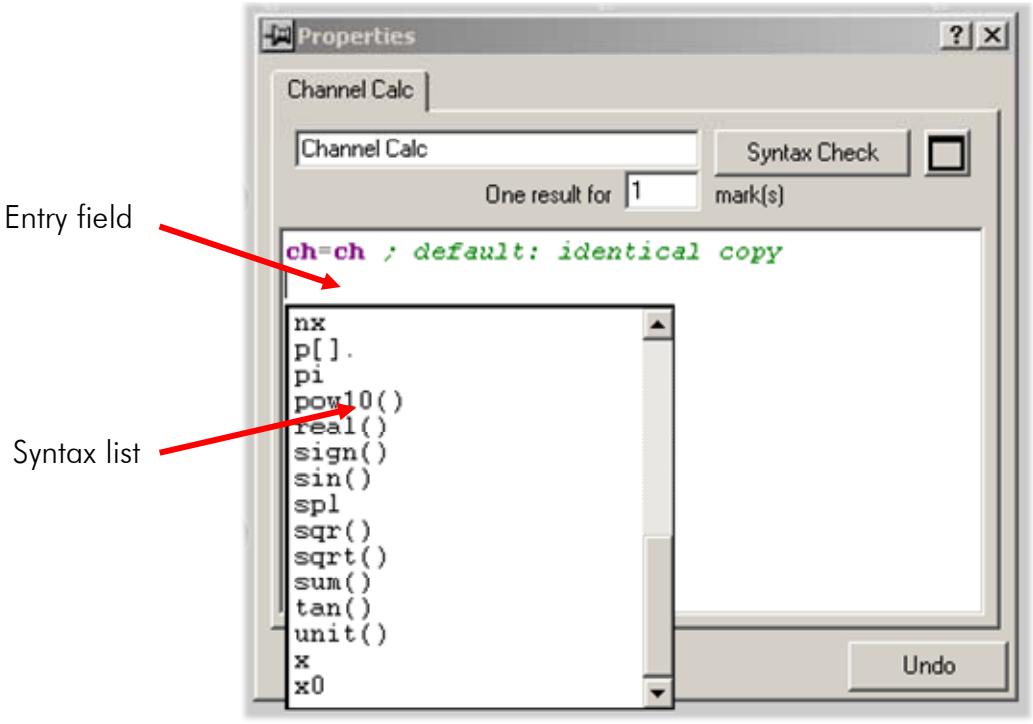


Channel Calc:

The Channel Calc function in the Statistic Pool allows channel-related operations to be performed.
The Channel Calc function can be started in the selection box of the Statistic Pool (right-click in the Pool -> "Insert").

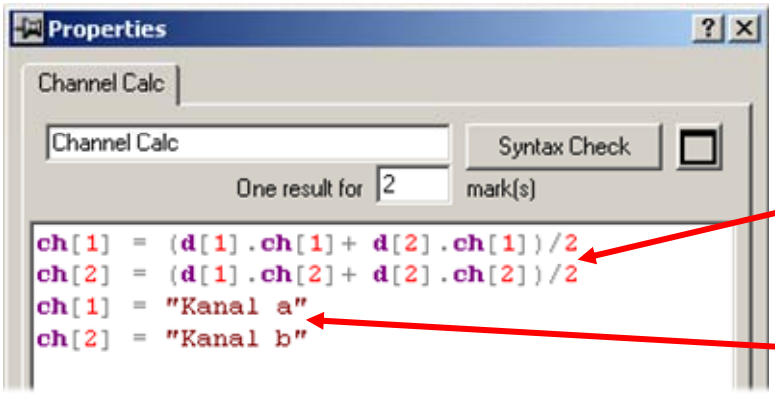
Properties Dialog of the Channel Calc Element:

In the Properties dialog of the Channel Calc element, the calculation rule is entered. With a right-click into the entry field, a syntax list with common functions can be opened.



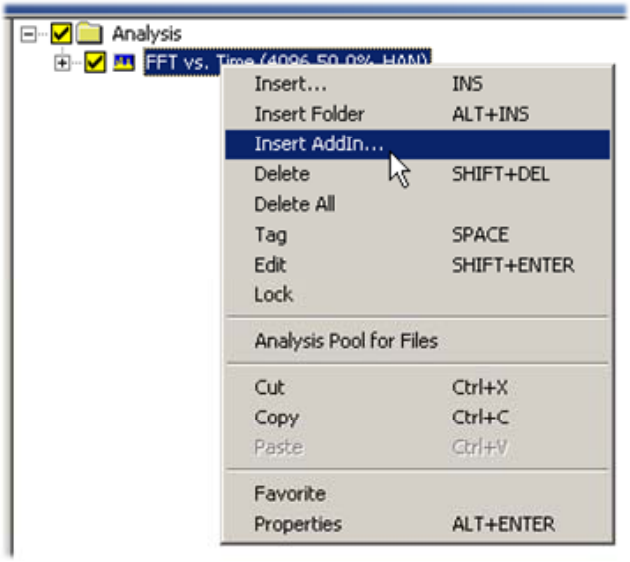
Example:

The calculation rules are entered as mathematical formulas in the entry field. With the placeholder "**d**", the respective data set is referred to, while the placeholder "**ch**" specifies the channel. The example shows a channel-based averaging of two sound files and the renaming of the channels.



Analysis AddIn:

In addition to the Channel Calc function, ATP 14 also allows the insertion of analysis AddIns. These AddIns can be inserted into the Analysis Pool as independent analyses, but also as an "AddIn Child", which can be used to perform a post-processing of an ArtemiS analysis.



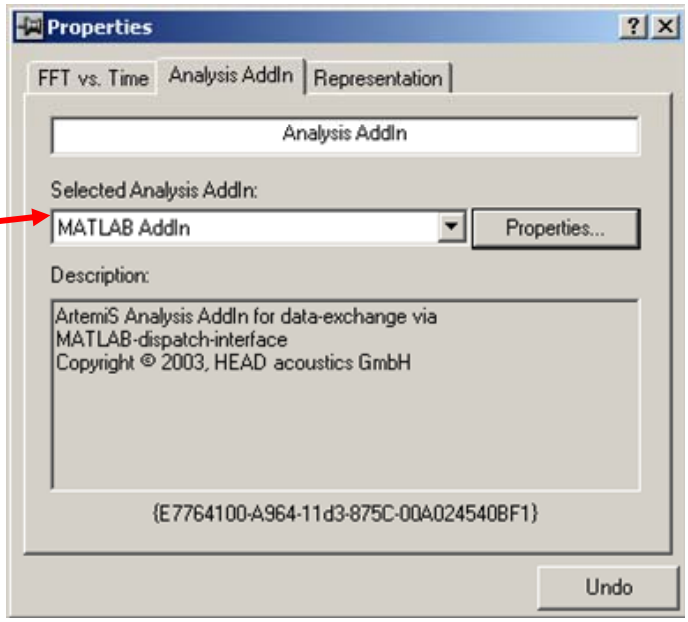
AddIn Child:
Right-click on an analysis in the Analysis Pool -> "Insert AddIn"

Independent AddIn:
Right-click on an empty area in the Analysis Pool -> "Insert AddIn"

Properties Dialog of an AddIn:

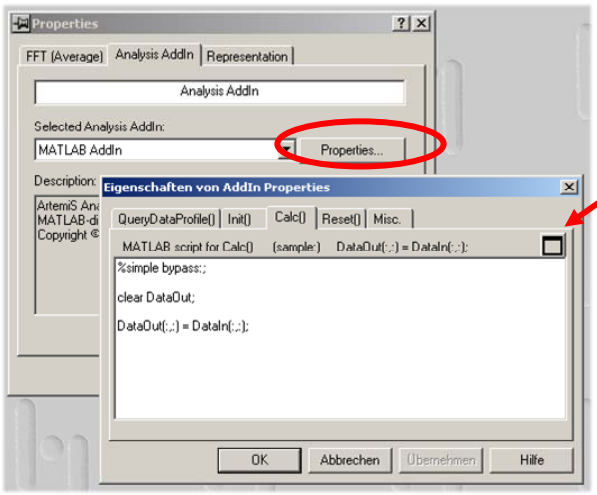
An ArtemiS analysis with an AddIn Child has an extended Properties dialog with an additional tab for the AddIn. This tab contains the same elements as the Properties dialog of the independent AddIn.

In the Properties dialog, a MATLAB® AddIn or an AddIn programmed with Visual C++ can be selected.
Using a MATLAB® AddIn is advantageous, because this is a ready-to-use implementation of a signal processing AddIn that provides a working interface for data exchange with MATLAB®.



Usage:

For example, after the configuration of the AddIn properties, the created MATLAB® script can be used as an analysis in ArtemiS.



Extended editor with syntax highlighting