

MagIC Net Method adaption guide

Step by step instructions for adapting a method to different instruments or language and what to take care of when modifying the component names

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1 Introduction

There are very easy ways to adapt a method to different instruments without having to reprogram all time program steps. In this document, you will find an easy step by step guideline for this (see chap. 3).

Also, there is a short description how the language of the method can be adapted (see chap. 4).

Additionally, some hints for changing the components in a method will be given (see chap. 5).

2 Requirements

You'll need an example method which has to be modified, an instrument list (either in configuration or on paper) with the exact instrument version and MagIC Net.

3 Changing instrument version/type in a method

Starting from an example method or a method extracted out of an application work, it is common that the instrument type or name needs to be adapted e.g. changing from a 940 Professional IC Vario to a 930 Compact IC Flex.

In case the new instrument has a different device type than the one currently in the method, the device has to be exchanged for the correct one. For this, follow all steps of chap. 3.

If the device type does not change, even though the name of the instrument is different, only chap. 3.1 needs to be followed. The other two chapters are not necessary in this case.

3.1 Renaming the instrument

1. Write down the new instrument name.

Typically, the names are:

930 Compact IC Flex 1

940 Professional IC Vario 1

942 Extension Module Vario 1

858 Professional Sample Processor 1

919 IC Autosampler Plus 1

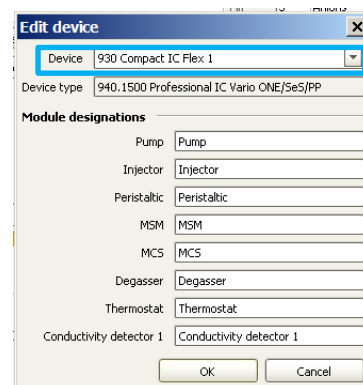
889 IC Sample Center 1

863 Compact Autosampler 1

Check this in the Configuration of MagIC Net under *Devices*:

	Device name ▲	Device type	Device serial n...	Status	Set to work
▶ 1	815 Robotic USB Sample Processor XL 1	815 Robotic USB Sample Pr...	9999999	not ok	2015-01-13
2	850 Anion MCS IDAC	850.2030 Professional IC A...	22122	not ok	2014-01-06
3	850 Professional IC 2	850.1050 Professional IC C...	02119	not ok	2015-01-13
4	858 Professional Sample Processor	858.0030 Professional Sam...	05777	not ok	2015-09-11
5	858 Professional Sample Processor 1	858.0020 Professional Sam...	04591	not ok	2014-01-06
6	872 Extension Module 1	872.0120 Extension Module...	00003	not ok	2015-01-13
7	881 Compact IC pro	881.0030 Compact IC pro -...	05149	not ok	2014-04-22
8	919 IC Autosampler plus	919.0020 IC Autosampler plus	02122	not ok	2015-09-11
9	919 IC Autosampler plus 1	919.0020 IC Autosampler plus	02102	not ok	2014-04-09
10	930 Compact IC Flex	930.2560 Compact IC Flex ...	18110	not ok	2015-09-11
11	930 Compact IC Flex 1	930.2460 Compact IC Flex ...	03108	not ok	2014-04-09

2. Open the method which has to be changed.
3. In the *Devices* subcategory, right click on the instrument in question, choose *Edit* and rename the one currently loaded in the method with the name of the newly to be included instrument on your list:



4. Confirm with *OK*.

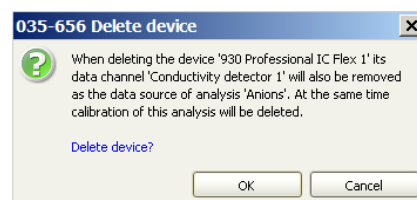
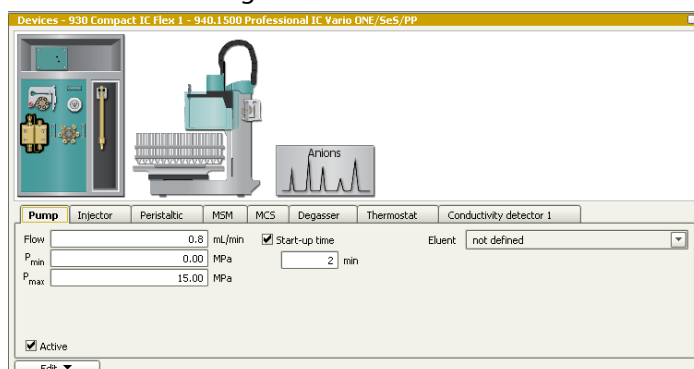
- This will change all the names in the time program which are linked to this instrument.

Time program						
Main program						
Time	Device	Module	Command	Parameter	Comment	No.
	858 Professional Sample Processor 1	Rack	Move (Rack)	Sample position		1
	858 Professional Sample Processor 1	Tower	Lift	Work position		2
0.0	940 Professional IC Vario 1	Injector	Fill			3
0.0	858 Professional Sample Processor 1	Peristaltic	On/Off	On, Rate=3	Sample transfer	5
3	858 Professional Sample Processor 1	Peristaltic	On/Off	Off		6
3	940 Professional IC Vario 1	Injector	Inject			7
3	Anions		Start data acquisition			8
	858 Professional Sample Processor 1	Rack	Move (Rack)	Special beaker 1	Move to special position for ...	9
	858 Professional Sample Processor 1	Tower	Lift	Work position		10
0.0	858 Professional Sample Processor 1	Peristaltic	On/Off	On, Rate=3	Rinsing	11
2	858 Professional Sample Processor 1	Peristaltic	On/Off	Off		12

- Repeat these steps for all devices which have a different name than your current instruments.

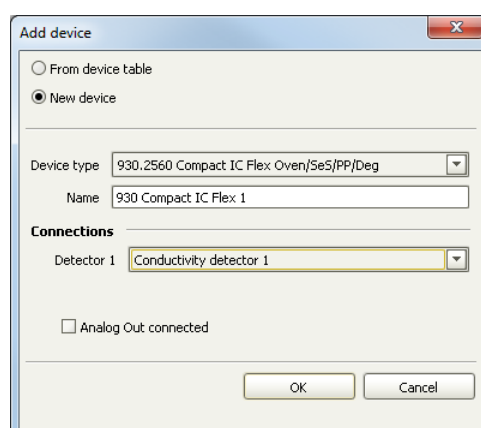
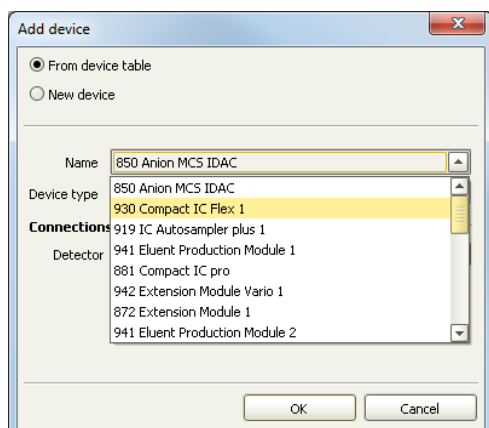
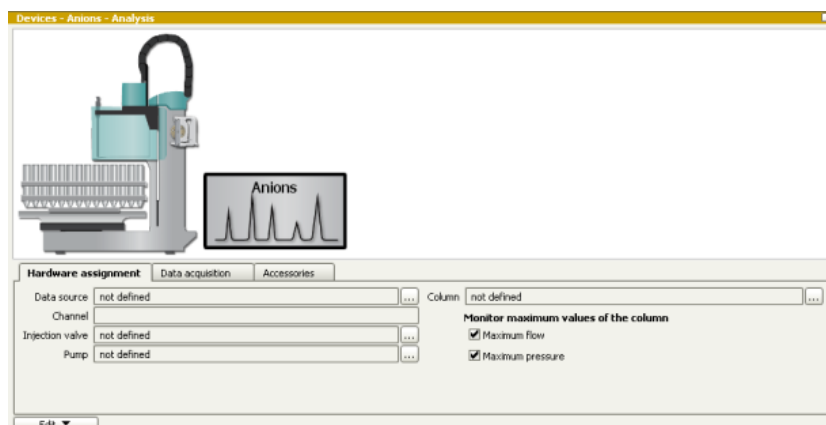
3.2 Remove the original instrument from the method

- Note all start parameters (e.g. flow rate, temperature of oven, ...) of the ion chromatograph and further instruments which have been renamed. This information as well as the data source linkage in the analysis will be deleted when removing the instrument and will have to be re-established later on (see chapt. 3.4).
- Then, delete the renamed instrument(s) from the method by performing a right click with the mouse on the instrument and choosing *remove*.
- Confirm the message with *OK*.



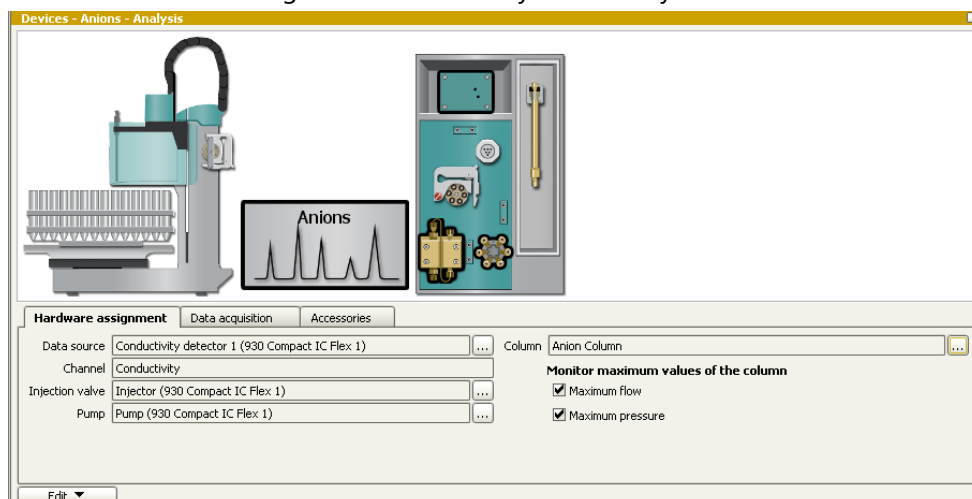
3.3 Add the correct device

- Add your instrument to the method: *Edit/Add devices/From device table*.
- If the instrument has not yet been imported into your configuration, you can also simply chose Edit/Add devices/New device, chose the required instrument type and name it with the name chosen in chap. 3.1.



3.4 More

1. Adapt all start parameters of the IC to the ones originally in the method or corresponding to your column/application.
2. Link the hardware assignment of the analysis correctly.



3. Perform a method check:
4. Save the method.



4 Changing the language of a method

MagIC Net has been translated into many languages in order to make the daily work for customers more convenient. Unfortunately, only the command itself is translated automatically into the language MagIC Net is running on when opening an example method. The names of the modules stay as they were in the original method because those are user-specific and thus need to be changed manually. The easiest and fastest way to do so is to edit the instrument:

4.1 Automatic change

1. Command names are automatically transferred into the chosen language.


Zeitprogramm							Time program						
Hauptprogramm							Main program						
Zeit	Gerät	Modul	Befehl	Parameter	Kommentar	Nr.	Time	Device	Module	Command	Parameter	Comment	No.
	858	Turm	Drehen (Rack)	Probenposition		1		858	Turm	Move (Rack)	Sample position		1
	858	Turm	Lift	Arbeitsposition		2		858	Turm	Lift	Work position		2
0.0	940	Injektor	Füllen			3	0.0	940	Injektor	Fill			3
0.0	940	MSM	Weitersehen			4	0.0	940	MSM	Step			4
*							*						

4.2 Manually necessary changes

1. Change of the module names: Click on the instrument, Go to *Edit/Edit*.
2. A dialogue opens where the module names can be changed.
3. Change the module names.

Example here: from German to English

Devices - 940 Professional IC Vario 1 - 940.1500 Professional IC Vario ONE/SeS/PP



Edit device

Device: 940

Device type: 940.1400 Professional IC Vario ONE/SeS

Module designations

Pump	Pumpe
Injektor	Injektor
MSM	MSM
MCS	MCS
Degasser	Degasser
Thermostat	Thermostat

OK Cancel

Edit device

Device: 940

Device type: 940.1400 Professional IC Vario ONE/SeS

Module designations

Pump	Pump
Injektor	Injektor
MSM	MSM
MCS	MCS
Degasser	Degasser
Thermostat	Thermostat

OK Cancel

Edit device

Device: 858

Device type: 858.0020 Professional Sample Processor

Module designations

Tower	Turm
Rack	Rack
Peristaltic	Peristaltik
Peripherals tower	Peripherie Turm
General	Allgemein

OK Cancel

Edit device

Device: 858

Device type: 858.0020 Professional Sample Processor

Module designations

Tower	Tower
Rack	Rack
Peristaltic	Peristaltic
Peripherals tower	Peripherals Tower
General	General

OK Cancel



Time program							
Main program							
	Time	Device	Module	Command	Parameter	Comment	No.
		858	Tower	Move (Rack)	Sample position		1
		858	Tower	Lift	Work position		2
	0.0	940	Injector	Fill			3
	0.0	940	MSM	Step			4
*							

5 Changing components in a method

Quite often a component name is adapted or translated in a method. It is therefore important to know which elements of the method are changed automatically after such an adaption and which have to be modified manually.

This part is mainly important for more complex methods, where user-defined variables and/or calculation commands in the time program are used.

5.1 Automatic change

1. Adapt the name of the component in the component list:

Component table				
	Name	Time [min]	Window [%]	Reference
▶ 1	Nitrito	4.248	5.0	none
2	Nitrato	5.610	5.0	none
*				

Component table				
	Name	Time [min]	Window [%]	Reference
1	Nitrite	4.248	5.0	none
▶ 2	Nitrate	5.610	5.0	none
*				

2. All linked names in the method e.g. in the standards or calibration subwindow are immediately changed.
3. Names of the monitored components and variables linked to the limits will automatically change to the new names.

Result name		Limit	
1	RS.Anions.Nitrito.AREA	Lower limit	0.0 (µS/cm) × min
▶ 2	RS.Anions.Nitrate.AREA	Upper limit	= 'RS.Anions.Standard 50.Nitrato.AREA' (µS/cm) × min
*			

Result name		Limit	
1	RS.Anions.Nitrite.AREA	Lower limit	0.0 (µS/cm) × min
▶ 2	RS.Anions.Nitrate.AREA	Upper limit	= 'RS.Anions.Standard 50.Nitrate.AREA' (µS/cm) × min
*			

4. Names of the variables used in the user-defined results are changed **automatically**, not the programmed names (see chapter 5.2).
(RS.Anions.Nitrito.AREA => RS.Anions.Nitrite.AREA)

5.2 Manually necessary changes

1. Result name and text strings of the **user-defined** results need to be changed **manually** as they are not linked to the component name but are given individually.
(in green the parts with are changed automatically, red indicates the manual changes)

2. Unfortunately, the variables used in the time program have to be changed manually, but at least the method test indicated the faulty time program command.