

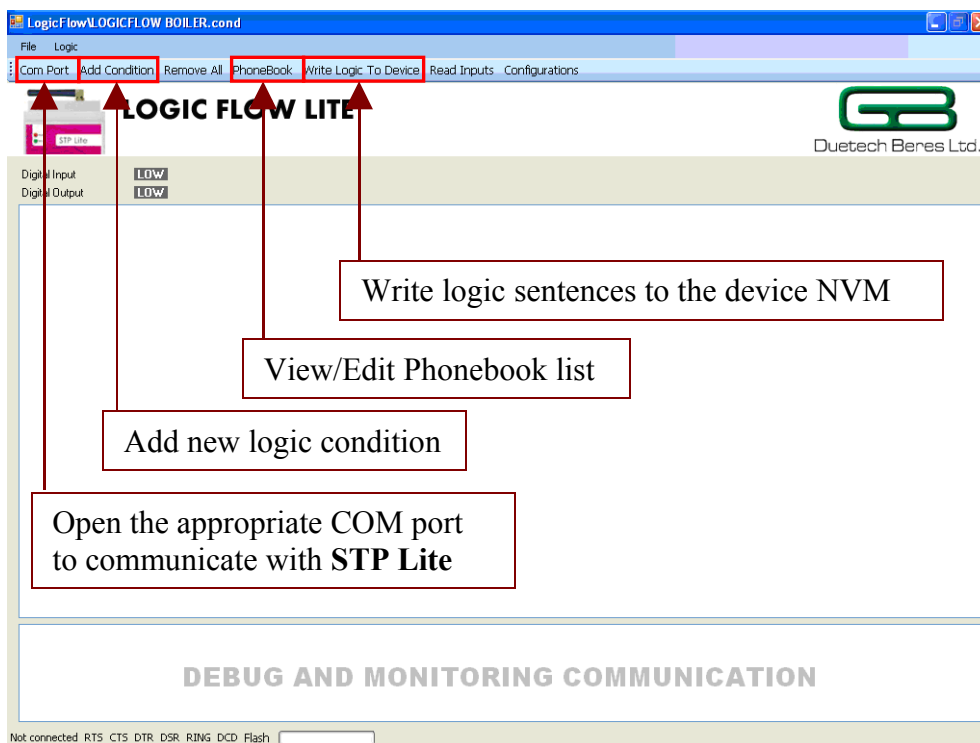
LogicFlow Lite Example

LogicFlow Lite is an easy to use Windows based application for **STP Lite** logic configuration. The following example shows the setup of a **boiler control** project to demonstrate **LogicFlow Lite** application.

STP Lite tasks in this demo:

- Define a group of users allowed to activate the boiler.
- When a group member calls the **STP Lite**, reject the incoming call, activate the output relay, start an internal timer and send a SMS to the caller.
- After 30 minutes, the **STP Lite** will deactivate the output relay.
- When Main power fails, send a predefined failure SMS message.
- When Main power is back active, send a predefined indication SMS message.

Step by step guide:



The screenshot shows the LogicFlow Lite application window titled "LogicFlow\LOGICFLOW BOILER.cond". The menu bar includes "File", "Logic", "Com Port", "Add Condition", "Remove All", "PhoneBook", "Write Logic To Device", "Read Inputs", and "Configurations". The main interface features a "LOGIC FLOW LITE" header, a "STP Lite" icon, and status indicators for "Digital Input" and "Digital Output" (both set to "LOW"). A "DEBUG AND MONITORING COMMUNICATION" section is at the bottom, showing "Not connected" and various signal indicators (RTS, CTS, DTR, DSR, RING, DCD, Flash).

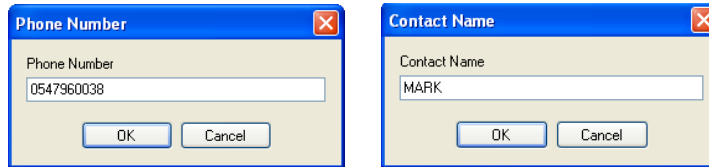
Red arrows point from callout boxes to specific menu items and interface elements:

- Open the appropriate COM port to communicate with **STP Lite** (points to "Com Port")
- Add new logic condition (points to "Add Condition")
- View/Edit Phonebook list (points to "PhoneBook")
- Write logic sentences to the device NVM (points to "Write Logic To Device")

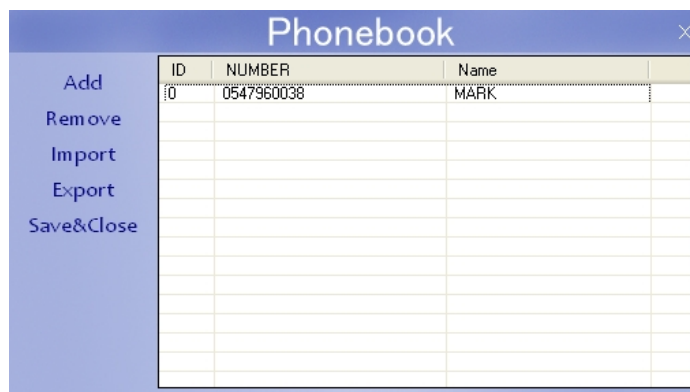
Step 1: (Define a group of users allowed to activate the boiler)

Click on **PhoneBook** located in the main toolbar.

Click **"add"** to add your group members' phone number.
 Enter the phone number and click OK, then enter the Contact name and click OK.



Click **"add"** to add more phone numbers to the group if required.
 After adding the above phone number to the group list, the phonebook will look like this:



Click on **Save&Close** to save the Phonebook list and close the Phonebook window.

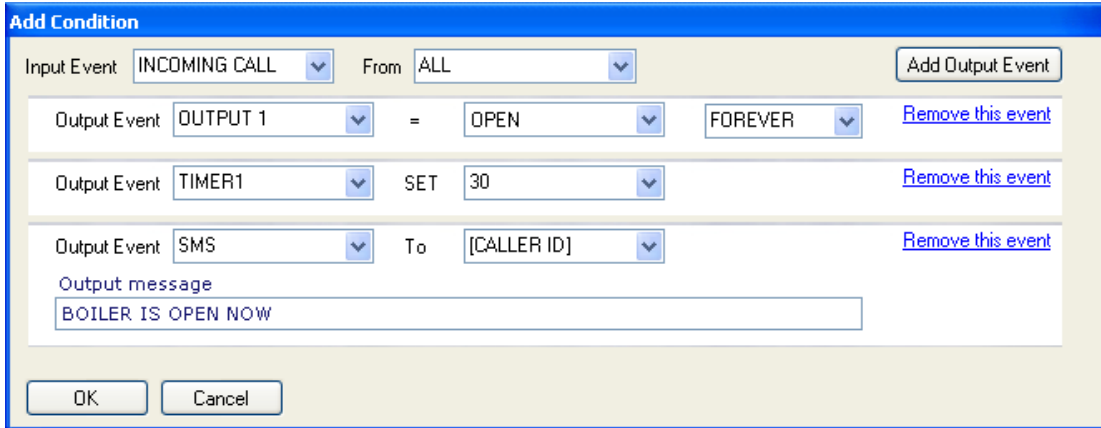
Step 2:

Click on **Add Condition** located in the main toolbar on the main application screen.

Step 3:

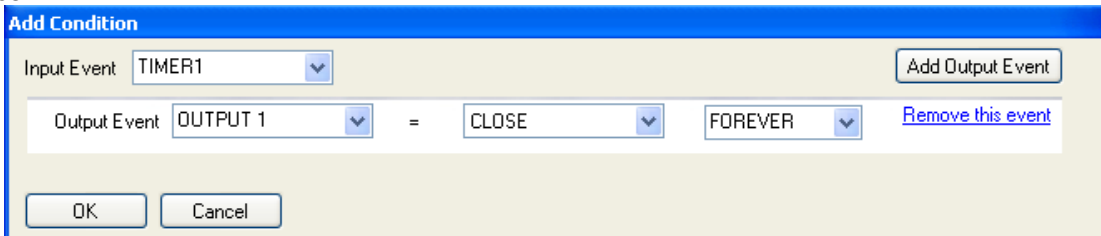
The following form will appear, choose the required input and output events.
 The following are 4 logic sentences as for the STP Lite demo tasks above.

Sentence '1':



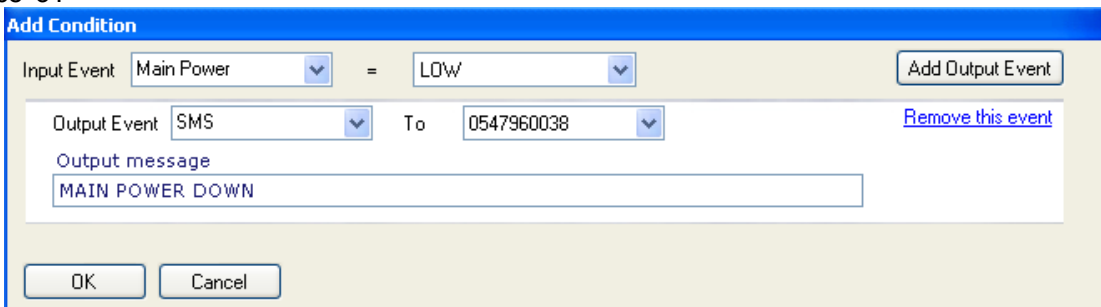
(When a group member calls STP Lite, reject the incoming call, activate an output relay, start an internal timer [30 minutes] and send a SMS to the caller.)

Sentence '2':



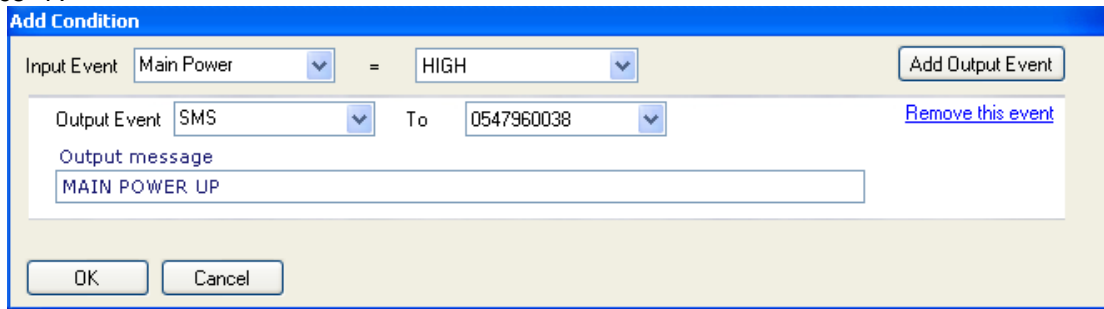
*(after 30 minutes, **STP Lite** will deactivate the output relay.)*

Sentence '3':



(In case of a power failure, send a predefined failure SMS message.)

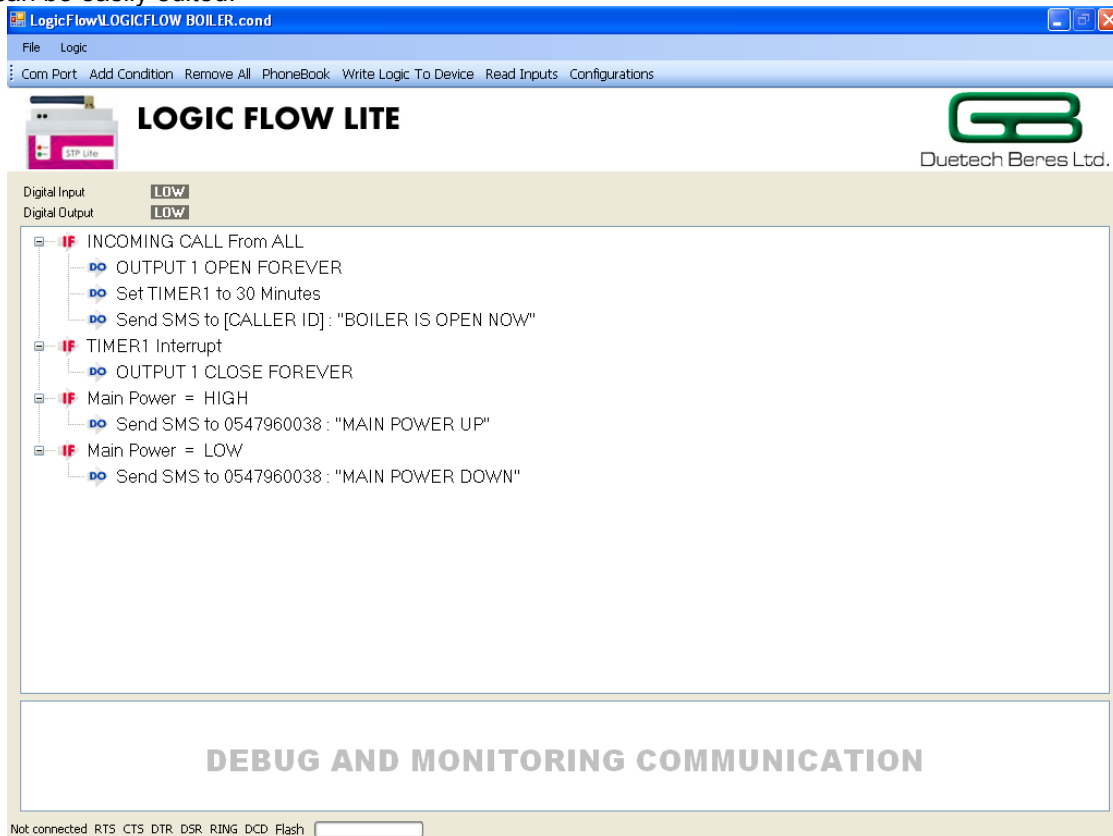
Sentence '4':



(When Main power is back active, send a predefined indication SMS message.)

Step 4:

After adding logic conditions, the application automatically creates clear and easy to understand sentences which can be easily edited.



Step 5:

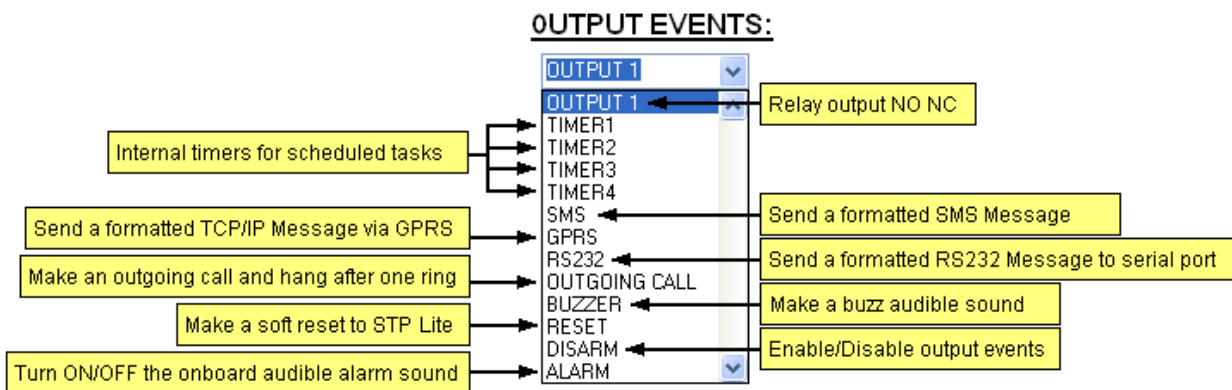
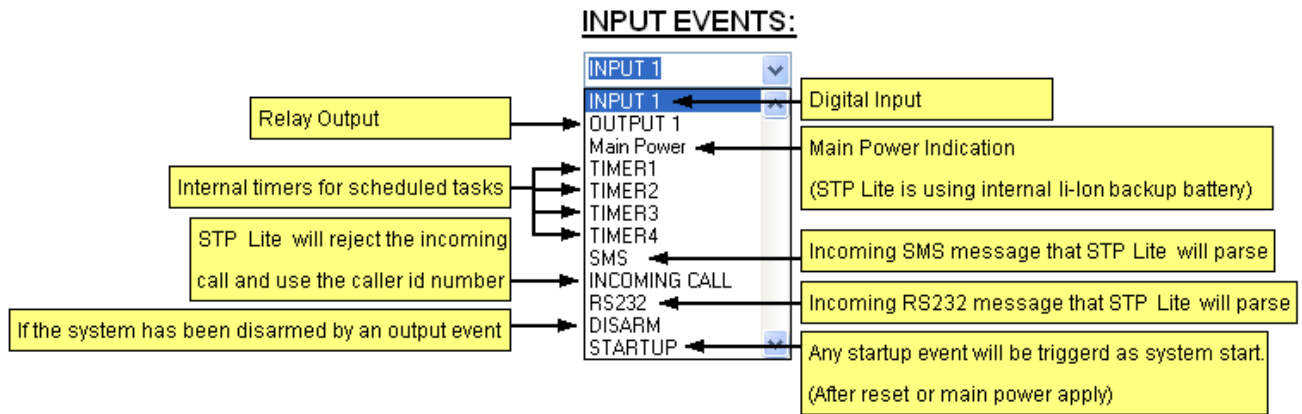
In this final step, all the logic data and phonebook list will be sent to STP Lite, click **Write Logic To Device** located in the main toolbar. A window with Success or Failure will show up. For troubleshooting please refer to STP Lite user manual.

That's all, your hardware is ready to do the required logic.

Appendix A.

Other logic functions for STP Lite.

As **LogicFlow Lite** has many other logic functions in addition to the above example, here is a brief overview of all possible input/output events:



SyWiTec

Systeme für Wissenschaft und Technik

Bamberg & Monsees GbR

Am Lesumdeich 7A

D-28719 Bremen

Fon : +49-(0)421-646775 Fax : +49-(0)421-646785



E-mail : info@sywitec.de