Consultant Applescript Howto

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Sensors

This document is a guide to using Applescript with ConsultantX software from Control Plus.

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Before you begin.

AppleScript is a scripting language that makes possible direct control of scriptable applications and of many parts of the Mac OS. A scriptable application is one that makes its operations and data available in response to AppleScript messages, called Apple events. With scriptable applications, users can write scripts to automate operations.

Applescript Editor.

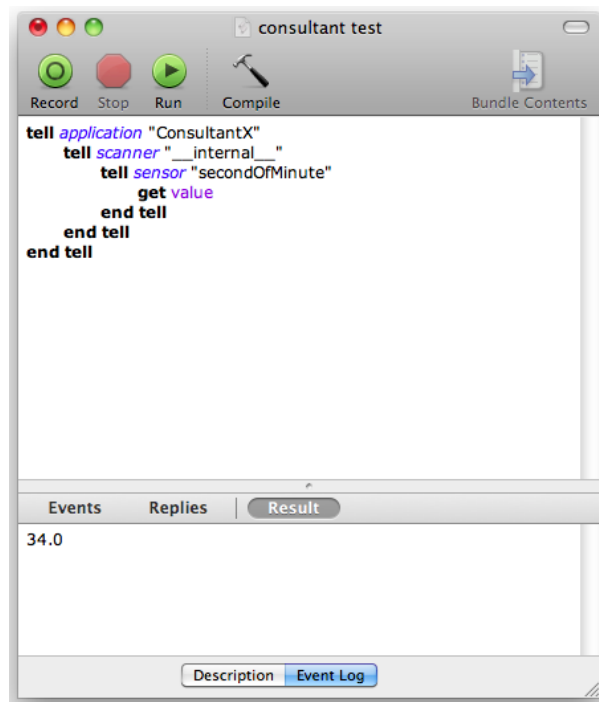To create Applescripts use the Applescript editor located in Applications/Utilities.

This document is not a guide to using Applescript which is a very powerful language. It will give you simple examples of how to use Applescript with ConsultantX.

Getting Sensor Data.

Using Applescript you can get the current value of a sensor in real time. This data can then be used to do just about anything with MacOSX.

The following script gets the current value of scanner __internal__ sensor secondOfMinute, which is the current clock seconds from your Mac's internal clock.

```
tell application "ConsultantX"
     tell scanner "__internal__"
          tell sensor "secondOfMinute"
               get value
          end tell
     end tell
end tell
```

You will notice that the value of the sensor is returned in the lower part of the applescript window.
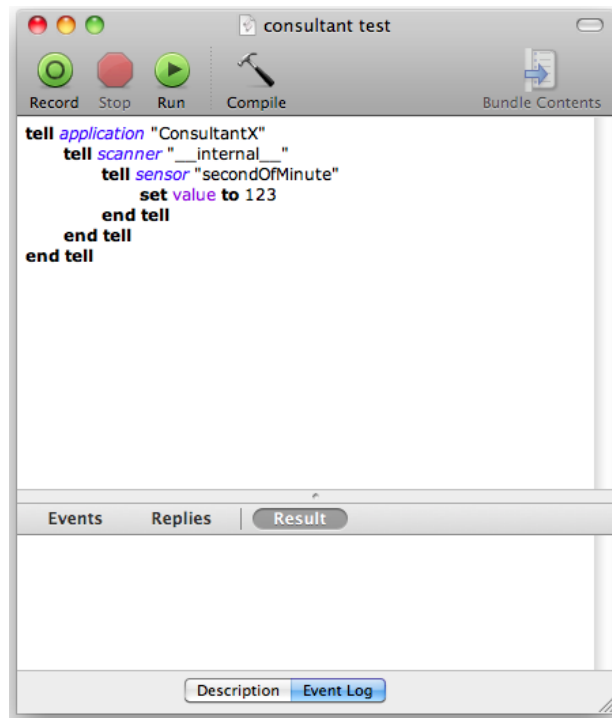
Setting Sensor Data.

Data can also be written to sensors.

CAUTION. This applescipt function writes data to the memory locations in the PLC. Be very careful as this function could alter your machines state.

NOTE. This function is only available in a registered version of ConsultantX.

```
tell application "ConsultantX"
    tell scanner "__internal__"
        tell sensor "secondOfMinute"
            set value to 123
        end tell
    end tell
end tell
```

In the above example nothing will actually happen because "secondOfMinute" is a read only sensor. Also not all hardware or protocols are supported.

Howto's

To learn more about ConsultantX refer to the other ConsultantX howto's