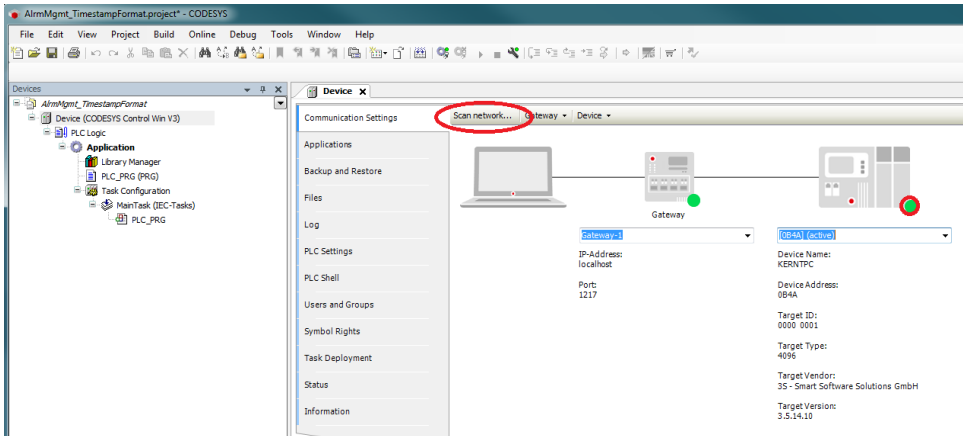


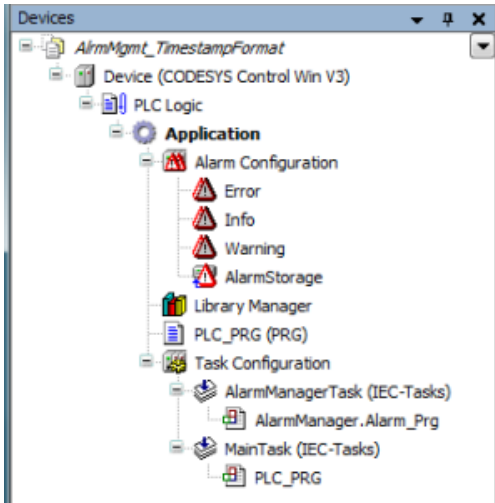
# Visu, Alarm Management: Formatting the Time Stamp

- Create a "Standard project" and select *CODESYS Control Win V3* as the device.
- Define the target system by means of the *Network scan*.

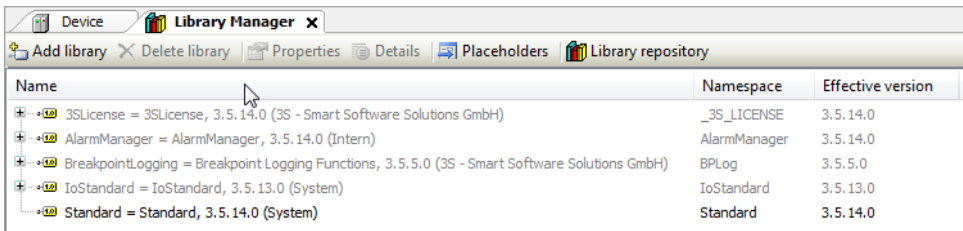


- Insert an Alarm configuration in the device tree.

Here, the *Error*, *Info* and *Warning* alarm classes are created automatically, as well as the *AlarmStorage* object. In addition, another *AlarmManager Task* is created.



Moreover, the *AlarmManager* library is added to the Library Manager:



- Edit the *PLC\_PRG* POU as follows:

Declaration

```

VAR
  xDemoAlarm    : BOOL;
  sDateFormat   : STRING := 'dd.MM.yyyy';
  sTimeFormat   : STRING := 'HH:mm:ss';
END_VAR

```

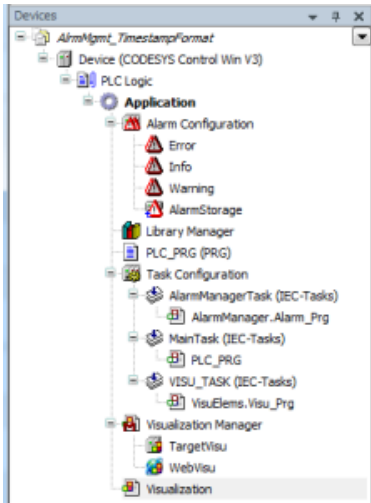
**Implementation**

```

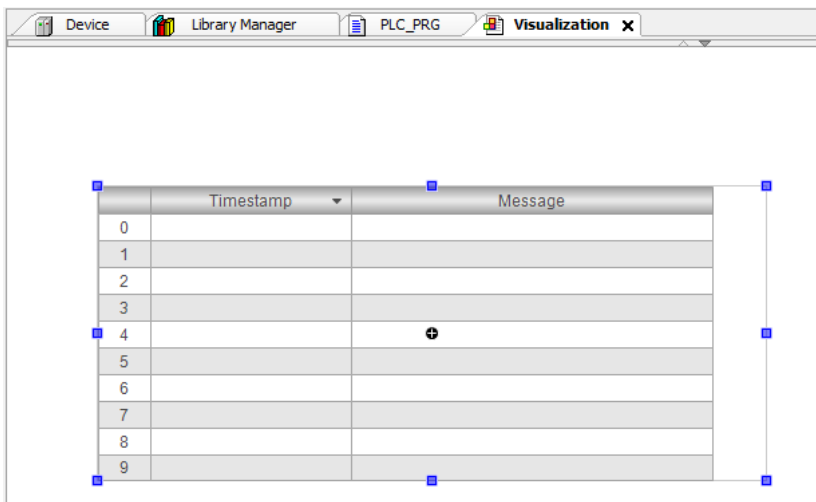
AlarmManager.g_sDateFormat := sDateFormat;
AlarmManager.g_sTimeFormat := sTimeFormat;

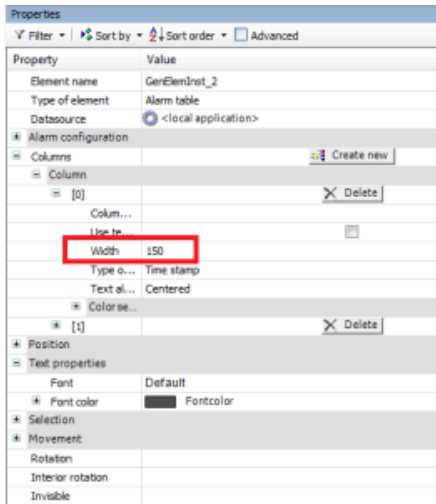
```

- Insert a visualization in the device tree. Then the *Visualization Manager* is inserted automatically with the *TargetVisu* and *WebVisu* visualization types. In addition, another *VISU\_TASK* is created.

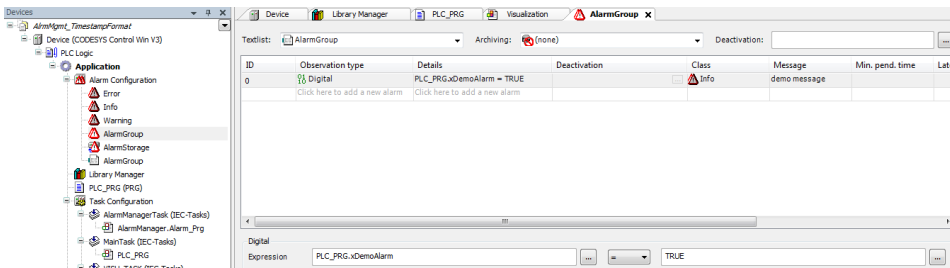


- In the *Visualization*, set an element of type *Alarm Table* and configure the element as follows:





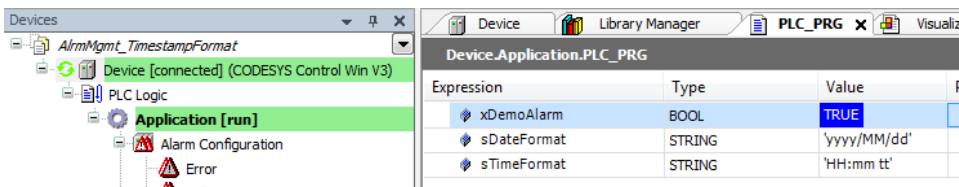
- Insert an alarm group in the *Alarm configuration* and configure an alarm as follows:



- Start the project and set the variable `xDemoAlarm` to `TRUE`.

	Timestamp	Message
0	08.03.2019 09:11:37	demo message

Now, if you change the formatting of the constants, the default will be accepted when the alarm is triggered **again**. The 'yyyy/MM/dd' and 'HH:mm tt' specifications result in a rotated date and a time display without seconds in English style.



	Timestamp	Message
0	2019/03/08 09:03 AM	demo message

Milliseconds can be specified with "ms":

	Timestamp	Message
0	12.03.2019 09:14:25:436	demo message

