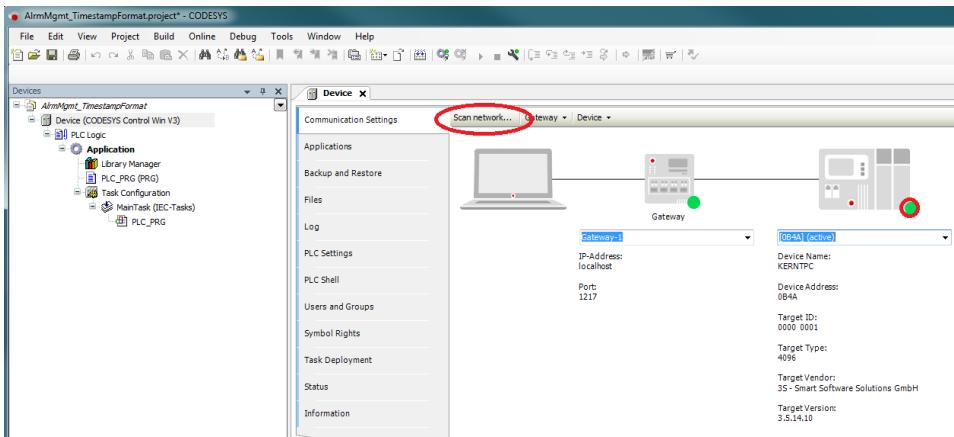


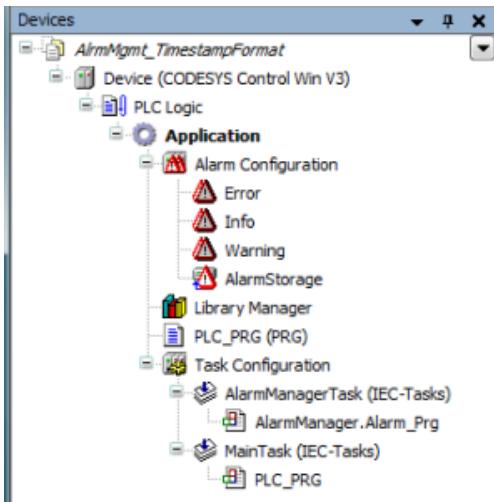
Visu, Alarm Management: Formatting the Time Stamp

- 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:

Name	Namespace	Effective version
_3SLicense = 3SLicense, 3.5.14.0 (3S - Smart Software Solutions GmbH)	_3S_LICENSE	3.5.14.0
AlarmManager = AlarmManager, 3.5.14.0 (Intern)	AlarmManager	3.5.14.0
BreakpointLogging = Breakpoint Logging Functions, 3.5.5.0 (3S - Smart Software Solutions GmbH)	BPLog	3.5.5.0
ToStandard = IoStandard, 3.5.13.0 (System)	IoStandard	3.5.13.0
Standard = Standard, 3.5.14.0 (System)	Standard	3.5.14.0

- Edit the *PLC_PRG* POU as follows:

Declaration

```

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

```

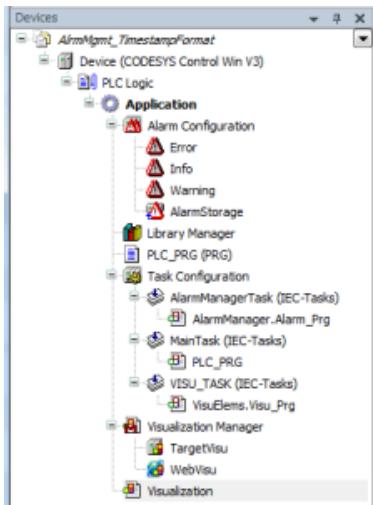
Implementation

```

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

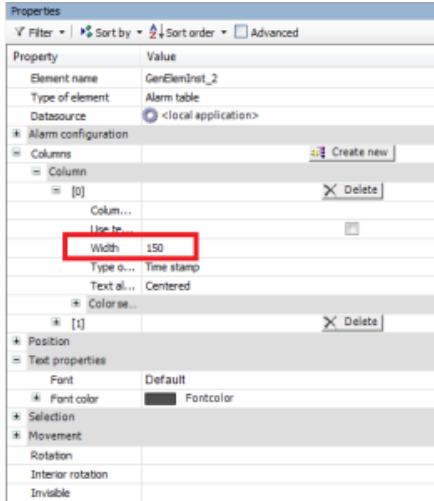
```

- 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.

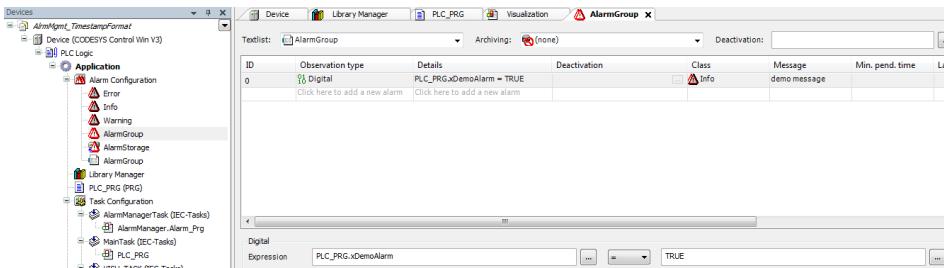


- In the *Visualization*, set an element of type *Alarm Table* and configure the element as follows:

	Timestamp	Message
0		
1		
2		
3		
4		+
5		
6		
7		
8		
9		



- 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.

Expression	Type	Value
xDemoAlarm	BOOL	TRUE
sDateFormat	STRING	'yyyy/MM/dd'
sTimeFormat	STRING	'HH:mm tt'

Milliseconds can be specified with "ms":

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

