

E-Mail

Purpose

The purpose of this script library is to add functions for automatically sending an e-mail when an alarm in the system is activated. The function can be filtered on alarm severity.

Prerequisities

Import the script library, *scExtensions.zip*, under script libraries in Ethiris Admin. Import the script library, *scMail.zip*, under script libraries in Ethiris Admin. Create an e-mail in Ethiris Admin, called 'Mail1'. Requires Ethiris 14 or later.

License requirements

The solution requires the license function "Script libraries". Check the Kentima license model on Kentimas website for further information.

Script library with explanation

scMail is an autonomous scriptlibrary which means that the user should not call the script from the main script, instead the parameters below should be changed inside the script library where they are located.

```
9
        //Initialize variables
10
        var MAILNAME
                                   = "Mail1";
       var SEVERITY
                                  = 10:
11
       var CHECK_INTERVAL = 10000;
var ACTIVATEDMAILHEADER = "\n\nThe following alarms have been activated:\n";
12
13
       var INACTIVATEDMAILHEADER = "\n\nThe following alarms have been inactivated:\n";
14
                                   = "\n\n\n\n nnThe following alarms are active:\n";
        var ACTIVEMAILHEADER
15
                                    = new Array();
        var alarms
```

- *Line 10*: A constant which will contain the script name of the e-mail you want to use.
- Line 11: A constant which will contain the severity you want to filter alarms on.
- Line 12: A constant which will contain how often, in milliseconds, to check for new alarms.
- Line 13: A constant which will contain the header for activated alarms, in the e-mail body.
- Line 14: A constant which will contain the header for inactivated alarms, in the e-mail body.
- Line 15: A constant which will contain the header for active alarms, in the e-mail body.
- *Line 16*: A variable, of data type Array, which will contain a list of the alarms which will trigger an e-mail.



```
// Check for existance of E-mail '<MAILNAME'
if(typeof DataStore[MAILNAME] == "undefined")
{
throw new Error("E-Mail '" + MAILNAME + "' is missing from the configuration");
}

// Check for existance of script library 'scExtensions'
if(typeof scExtensions == "undefined")
{
throw new Error("Script library 'scExtensions' is missing."); //Script library is missing, we can't continue
}
```

Line 19: A check to see if the e-mail name entered in constant *MAILNAME actually exists*. **Line 25**: A check to see if the required script library *scExtensions* actually exists.

```
30  // Select ONE of the following options for finding alarms.
31  scExtensions.FindAllAlarms(alarms, "", DataStore);
32  //scExtensions.FindAllAlarms(alarms, "", DataStore, SEVERITY);
```

Line 31: Use function *FindAllAlarms*, which is defined in the script library *scExtensions*. The function till return all alarms defined in the system. Optionally you can enter the parameter *SEVERITY* to filter alarms on a specific sverity.

```
// Create a cyclic timer for sending e-mails, interval is set in the constant <CHECK_INTERVAL>
this.timer = new Timer(CHECK_INTERVAL, true);
```

Line 31: Define a timer object, using constant *CHECK_INTERVAL* as timeout parameter. The value 'true' means it will start and run cyclically.



```
// On timeout, check if any slarm has been activated
this.timer.onTimeout = function()
{

try
{

construction to the construction of the construct
```

Line 38: Define *onTimeout* function, which will be triggered each time *CHECK_INTERVAL* runs out.

Line 48: Go through list of alarms and build the corresponding e-mail body, based on current alarms states.

Line 51: Check if any alarms were activated since last check.

Line 59: Check if any alarms were inactivated since last check.

Line 68: Check if any alarms were already active since last check.

Line 81: Check if there are any activated alarms and execute e-mail SEND() method on **line** 84.

Line 88: Check if there are any inactivated alarms and execute e-mail SEND() method on line 91.

Line 94: *Try/catch* is used catch any exceptions thrown by the script code and print it to the *Debug Output Panel*, in Ethiris Admin.