SPT Event Logger

Last updated by | Nick Higgins | Sep 22, 2022 at 2:31 PM EDT

Contents

- Overview
- Functions
 - F_ClearAllEventsInClass
 - F CreateAllEventsInClass
 - F_GetMaxSeverityRaised
 - F_RaiseAlarm
 - F_RaiseAlarmAndSetFlags
 - F_RaiseAlarmWithStringParameters
 - F_RaiseAlarmWithStringsAndFlags

Overview

Contain helper functions for interacting with the Tc3_EventLogger library.

Functions

F_ClearAllEventsInClass

```
FUNCTION F_ClearAllEventsInClass
VAR_IN_OUT
    Alarms : ARRAY[*] OF FB_TcAlarm; //! Array of Alarms to be defined
END VAR
```

Clears any events within Alarms that may have been raised.

$F_Create All Events In Class$

F_GetMaxSeverityRaised

```
FUNCTION F_GetMaxSeverityRaised : TcEventSeverity //! Maximum severity
VAR_IN_OUT
    Alarms : ARRAY[*] OF FB_TcAlarm; //! Events to compare against
END_VAR

VAR_INPUT
    CurrentSeverity : TcEventSeverity; //! Current severity of module alarm
END_VAR
```

Returns the highest severity level of any events currently raised within Alarms.

F_RaiseAlarm

```
FUNCTION F_RaiseAlarm
VAR_IN_OUT
    Alarm : FB_TcAlarm; //! Alarm to be raised
END VAR
```

Raises event associated with Alarm.

F_RaiseAlarmAndSetFlags

```
FUNCTION F_RaiseAlarmAndSetFlags

VAR_IN_OUT

Alarm : FB_TcAlarm; //! Alarm to be raised

ErrorFlag : BOOL; //! Error flag to set (VAR_IN_OUT, put the variable you want the function to SET h

ErrorID : UDINT; //! Error ID to set (VAR_IN_OUT, put the variable you want the function to SET her

END_VAR
```

Raises event associated with Alarm, sets ErrorFlag to TRUE, and copies the eventID associated with Alarm into ErrorID.

$F_Raise Alarm With String Parameters$

```
FUNCTION F_RaiseAlarmWithStringParameters
VAR_IN_OUT
    Alarm : FB_TcAlarm; //! Alarm to be raised
END_VAR

VAR_INPUT
    String_1 : STRING; //! First string parameter
    String_2 : STRING; //! Second string parameter
    String_3 : STRING; //! Third string parameter
END_VAR
```

Raises event associated with Alarm and passes string_n as arguments for contextual information.

$F_Raise Alarm With Strings And Flags$

Raises event associated with Alarm, sets ErrorFlag to TRUE, and copies the eventID associated with Alarm into ErrorID. String_n are passed as arguments for contextual information.