



TANGO
Device
Server

Vrif device server. User's Guide

Vrif Class

Revision: - Author: vedder
Implemented in C++ - CVS repository: ESRF

Introduction:

This class handles VRIF board that perform checks on VME bus, through Fbus.

Class Inheritance:

- Tango::Device_4Impl
 - Vrif

Properties:

Device Properties		
Property name	Property type	Description
Path	Tango::DEV_STRING	This is the path to the FieldBus.
Node	Tango::DEV_LONG	This is the node/adress number of the VRIF board on Fbus path/channel.

Device Properties Default Values:

Property Name	Default Values
Path	No default value
Node	No default value

There is no Class properties.

Attributes:

Scalar Attributes			
Attribute name	Data Type	R/W Type	Expert
Voltage	DEV_DOUBLE	READ	No
SysResetCounter: Count occurences of SYS_RESET.	DEV_SHORT	READ	No
RemoteResetCounter: Count occurences of REM_RESET.	DEV_SHORT	READ	No
VmeAdress: This string represent Vme Adress in Hexadecimal.	DEV_STRING	READ	No

Commands:

More Details on commands....

Device Commands for Operator Level		
Command name	Argument In	Argument Out
Init	DEV_VOID	DEV_VOID
State	DEV_VOID	DEV_STATE
Status	DEV_VOID	CONST_DEV_STRING
Reset	DEV_VOID	DEV_VOID
SetAdressStrobe	DEV_SHORT	DEV_VOID
ReadVmeState	DEV_VOID	DEVVAR_STRINGARRAY
ResetEventCounter	DEV_VOID	DEV_VOID
ReadAll	DEV_VOID	DEVVAR_STRINGARRAY
SetMonitorOnBusError	DEV_VOID	DEV_VOID
SetMonitorOnBusErrorAndDTack	DEV_VOID	DEV_VOID

1 - Init

- Description:** This commands re-initialise a device keeping the same network connection. After an Init command executed on a device, it is not necessary for client to re-connect to the device. This command first calls the device *delete_device()* method and then execute its *init_device()* method. For C++ device server, all the memory allocated in the *nit_device()* method must be freed in the *delete_device()* method.
 The language device desctructor automatically calls the *delete_device()* method.
- Argin:**
DEV_VOID : none.
- Argout:**
DEV_VOID : none.
- Command allowed for:**

2 - State

- Description:** This command gets the device state (stored in its *device_state* data member) and returns it to the caller.
- Argin:**
DEV_VOID : none.
- Argout:**
DEV_STATE : State Code

- **Command allowed for:**

3 - Status

- **Description:** This command gets the device status (stored in its *device_status* data member) and returns it to the caller.
- **Argin:**
DEV_VOID : none.
- **Argout:**
CONST_DEV_STRING : Status description
- **Command allowed for:**

4 - Reset

- **Description:** This command will sent a reset on the VME on fbus at path:node
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

5 - SetAdressStrobe

- **Description:** This parameter allows to modulate the number of LED which indicate the traffic on the VME bus.
- **Argin:**
DEV_SHORT :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

6 - ReadVmeState

- **Description:** Return a description of the VME state.
- **Argin:**
DEV_VOID :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

7 - ResetEventCounter

- **Description:** This command will reset these counters: -SYS_RESET -REM_RESET -WD_RESET (unused)
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

8 - ReadAll

- **Description:** This command will read all 22 Registers of the Vrif card, and return them in hexadecimal format.
- **Argin:**
DEV_VOID :
- **Argout:**
DEVVAR_STRINGARRAY :
- **Command allowed for:**

9 - SetMonitorOnBusError


- **Description:** This command write 1 in vrif adress 0. This select the monitor to stop on bus error.
- **Argin:**
DEV_VOID :
- **Argout:**

DEV_VOID :

- **Command allowed for:**

10 - SetMonitorOnBusErrorAndDTack

- **Description:** This command write 0 in vrif adress 0. This select the monitor to stop on bus error and DTack.
- **Argin:**
DEV_VOID :
- **Argout:**
DEV_VOID :
- **Command allowed for:**

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