



**TANGO**  
Device  
Server

# ESRF storage ring vacuum interlock User's Guide

## SRVacItlk Class

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

### Introduction:

this class implement the logic for calculating the state of the vacuum interlock in a storage ring vacuum cell. It takes in account both the state of the PLCVacuumValve device state and the corresponding state of GlobalVacItlk

### Class Identification:

- **Contact** : at esrf.fr - chaize
- **Class Family** : Vacuum (Specific Specific)
- **Platform** : Unix Like
- **Bus** : Not Applicable

### Class Inheritance:

- Tango::Device\_4Impl
  - SRVacItlk

## Properties:

<b>Class Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>Concentrator_name</b>	Tango::DEV_STRING	name of the tango device for the interlock concentrator

<b>Device Properties</b>		
<b>Property name</b>	<b>Property type</b>	<b>Description</b>
<b>Plcinterlock_name</b>	Tango::DEV_STRING	name of the tango device of the cellule interlock device
<b>Index</b>	Tango::DEV_SHORT	index in the SubDevicesStates

### Class Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
Concentrator_name	sr/v-itlk/all

### Device Properties Default Values:

<b>Property Name</b>	<b>Default Values</b>
Plcinterlock_name	sr/v-rvc/c2
Index	1

## Commands:

More Details on commands....

<b>Device Commands for Operator Level</b>		
<b>Command name</b>	<b>Argument In</b>	<b>Argument Out</b>
<b>Init</b>	DEV_VOID	DEV_VOID
<b>State</b>	DEV_VOID	DEV_STATE
<b>Status</b>	DEV_VOID	CONST_DEV_STRING
<b>Reset</b>	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:**
- **Argin:**  
DEV\_VOID :
- **Argout:**  
DEV\_VOID :
- **Command allowed for:**

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Device Servers : CVS repository on tango-ds project