



**TANGO
Device
Server**

FirstInterlockZone User's Guide

FirstInterlockCell Class

**Revision: release_1_0_0 - Author: coquet
Implemented in C++**

Introduction:

retrieves the cell number of the storage ring the were the 1rst interlock occured retrieves the information from anyone of the data block of interlock in the word of offset 30 needs PLCServer to work

Class Inheritance:

- Tango::Device_3Impl
 - FirstInterlockCell

Properties:

Device Properties		
Property name	Property type	Description
Url	Tango::DEV_STRING	Tango name of the PLCServer device
DBNumber	Tango::DEV_LONG	DB number the data are in
InputOffset	Tango::DEV_LONG	Input Offset of the data in bytes in the DB Default value normally fits Default : 4
InputLength	Tango::DEV_LONG	length of input data in 16-bit short the default value fits normally default : 5
OutputOffset	Tango::DEV_LONG	offset in bytes of the output data in the DB The default value fits normally default : 0
OutputLength	Tango::DEV_LONG	length in 16-bit shorts of output data. The default value normally fits. default : 2
PLC_FM_Addresses	Array of short	tableau des adresses des FM de surveillance des interlocks de l'anneau, organise de la cellule 1 a la cellule 16 permet de retrouver le numéro de cellule ayant genere le premier de la forme : 232 (pour la cellule 01) 856 (pour la cellule 2) ... 456 (pour la cellule 12) ... 736 (pour la cellule 16

Device Properties Default Values:

Property Name	Default Values
Url	No default value
DBNumber	No default value
InputOffset	No default value
InputLength	No default value
OutputOffset	No default value
OutputLength	No default value
PLC_FM_Addresses	No default value

There is no Class properties.

Attributes:

Scalar Attributes

Attribute name	Data Type	R/W Type	Expert
cell_InFault: returns the number of the 1rst cell of the storage ring where an interlock occured or 0 in no interlock	DEV_SHORT	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

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:**

ESRF - Software Engineering Group



TANGO
Device
Server

FirstInterlockZone User's Guide

FirstInterlockCell Class

Revision: release_1_0_0 - Author: coquet
Implemented in C++

Introduction:

retrieves the cell number of the storage ring the were the 1rst interlock ocured retrieves the information from anyone of the data block of interlock in the word of offset 30 needs PLCServer to work

Class Inheritance:

- Tango::Device_3Impl
 - FirstInterlockCell

Properties:

Device Properties		
Property name	Property type	Description
Url	Tango::DEV_STRING	Tango name of the PLCServer device
DBNumber	Tango::DEV_LONG	DB number the data are in
InputOffset	Tango::DEV_LONG	Input Offset of the data in bytes in the DB Default value normally fits Default : 4
InputLength	Tango::DEV_LONG	length of input data in 16-bit short the default value fits normally default : 5
OutputOffset	Tango::DEV_LONG	offset in bytes of the output data in the DB The default value fits normally default : 0
OutputLength	Tango::DEV_LONG	length in 16-bit shorts of output data. The default value normally fits. default : 2
PLC_FM_Addresses	Array of short	tableau des adresses des FM de surveillance des interlocks de l'anneau, organise de la cellule 1 a la cellule 16 permet de retrouver le numéro de cellule ayant genere le premier de la forme : 232 (pour la cellule 01) 856 (pour la cellule 2) ... 456 (pour la cellule 12) ... 736 (pour la cellule 16

Device Properties Default Values:

Property Name	Default Values
Url	No default value
DBNumber	No default value
InputOffset	No default value
InputLength	No default value
OutputOffset	No default value
OutputLength	No default value
PLC_FM_Addresses	No default value

There is no Class properties.

Attributes:

Scalar Attributes

Attribute name	Data Type	R/W Type	Expert
cell_InFault: returns the number of the 1rst cell of the storage ring where an interlock occured or 0 in no interlock	DEV_SHORT	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

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:**

ESRF - Software Engineering Group

Frame Alert

This document is designed to be viewed using the frames feature. If you see this message, you are using a non-frame-capable web client.
[Link to Non-frame version.](#)



TANGO
Device
Server

FirstInterlockZone

Device Commands Description

FirstInterlockCell Class

Revision: release_1_0_0 - Author: coquet

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 *init_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:**
-

ESRF - Software Engineering Group