

Ads Tango Cpp Class

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Ads Class Identification :

Contact : at desy.de - thorste.kracht
Class Family : Communication
Platform : Unix Like
Bus : Not Applicable
Manufacturer : none
Manufacturer ref. :

Ads Class Inheritance :

- [Tango::DeviceImpl](#)
 - Ads

Ads Class Description :

an implementation of the Beckhoff ADS protocol

Ads Properties :

There is no class properties

Device Properties			
Name	Description	Type	Default Value
HostName	PLC hostname	String	none
PortNo	PLC port number, e.g.: 801	int	801
SimulationMode	0 real mode, 1 simulation mode	int	none

Ads Class Commands				
Name	Input type	Output type	Level	Description
State	DEV_VOID	DEV_STATE	OPERATOR	This command gets the device state (stored in its <i>device_state</i> data member) and returns it to the caller.
Status	DEV_VOID	CONST_DEV_STRING	OPERATOR	This command gets the device status (stored in its <i>device_status</i> data member)

				and returns it to the caller.
ReadChar	DEVVAR_STRINGARRAY	DEV_LONG	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, a char is read from the PLC and stored in argout
ReadDouble	DEVVAR_STRINGARRAY	DEV_DOUBLE	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, a double (8B) is read from the PLC and stored in argout
ReadFloat	DEVVAR_STRINGARRAY	DEV_FLOAT	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, a float (4B) is read from the PLC and stored in argout
ReadLong	DEVVAR_STRINGARRAY	DEV_LONG	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, a long is read from the PLC and stored in argout

ReadShort	DEVVAR_STRINGARRAY	DEV_LONG	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, a short is read from the PLC and stored in argout
WriteChar	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, the last string contains the char that is written to the PLC
WriteDouble	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, the last string contains the double that is written to the PLC
WriteFloat	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, the last string contains the float that is written to the PLC
				IndexGroup and

WriteLong	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	IndexOffset are stored in an array of strings, the last string contains the long that is written to the PLC
WriteShort	DEVVAR_STRINGARRAY	DEV_VOID	OPERATOR	IndexGroup and IndexOffset are stored in an array of strings, the last string contains the short that is written to the PLC

Command State :

This command gets the device state (stored in its *device_state* data member) and returns it to the caller.

State Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::DEV_STATE	State Code
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command Status :

This command gets the device status (stored in its *device_status* data member) and returns it to the caller.

Status Definition		
Input Argument	Tango::DEV_VOID	none.
Output Argument	Tango::CONST_DEV_STRING	Status description
DisplayLevel	OPERATOR	..
Inherited	true	..
Abstract	true	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadChar :

IndexGroup and IndexOffset are stored in an array of strings, a char is read from the PLC and stored in argout

ReadChar Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..

Command allowed for	All states	..
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Command ReadDouble :

IndexGroup and IndexOffset are stored in an array of strings, a double (8B) is read from the PLC and stored in argout

ReadDouble Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_DOUBLE	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		-
Command allowed for	All states	..

Command ReadFloat :

IndexGroup and IndexOffset are stored in an array of strings, a float (4B) is read from the PLC and stored in argout

ReadFloat Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_FLOAT	
DisplayLevel	OPERATOR	..
Inherited	false	..

Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadLong :

IndexGroup and IndexOffset are stored in an array of strings, a long is read from the PLC and stored in argout

ReadLong Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command ReadShort :

IndexGroup and IndexOffset are stored in an array of strings, a short is read from the PLC and stored in argout

ReadShort Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	

Output Argument	Tango::DEV_LONG	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command allowed for	All states	..

Command WriteChar :

IndexGroup and IndexOffset are stored in an array of strings, the last string contains the char that is written to the PLC

WriteChar Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command allowed for	All states	..

Command WriteDouble :

IndexGroup and IndexOffset are stored in an array of strings, the last string contains the double that is written to the PLC

WriteDouble Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command allowed for	All states	..

Command WriteFloat :

IndexGroup and IndexOffset are stored in an array of strings, the last string contains the float that is written to the PLC

WriteFloat Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
		..
Command allowed for	All states	..

Command WriteLong :

IndexGroup and IndexOffset are stored in an array of strings, the last string contains

the long that is written to the PLC

WriteLong Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

Command WriteShort :

IndexGroup and IndexOffset are stored in an array of strings, the last string contains the short that is written to the PLC

WriteShort Definition		
Input Argument	Tango::DEVVAR_STRINGARRAY	
Output Argument	Tango::DEV_VOID	
DisplayLevel	OPERATOR	..
Inherited	false	..
Abstract	false	..
Polling Period	Not polled	..
Command allowed for	All states	..

There is no attribute defined.

There is no dynamic attribute defined.

There is no state defined