

SIEMENS

OPC Interface Specifications Version 4.0

NK823x

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NK823x

This workbook describes the objects provided by the Siemens OPC Data Access Server to represent the NK823x

Legend

ID	Object Model	Description
<ID>	<Object Model>	<Description>
	States	
	OPC Item PresentValue	OPC Item Mode
	0-Quiet	1-Normal
	1-Pre Alarm	1-Normal
	16-Abnormal	1-Normal
	2-Alarm	1-Normal
	Result State	
	Normal	
	Pre Alarm	
	Anomaly	
	Alarm	
	Commands on OPC Item Mode	
	1 - Activate	2 -
	5 -	6 -
	X	

Notes

The Object Model defines the states and commands of all instances of that type. In particular, an Object Model virtualizes a class of physical objects (devices and points in the system) by means of specific properties.

In the OPC interface, the physical object is represented by an instance of an Object Model that contains *PresentValue* and *Mode* properties represented by two VT_UI4 OPC Items. An appropriate combination of these two values defines the real state of the instance (result state). When a command is issued, it acts on the Mode property only. This results in changing the state of the instance.

To identify the Object Model of each object instance, open the CSV export file with a spreadsheet program and refer to the Object Model column (See also *Example of Exported CSV File* in section *OPC Server* of the online help).

ID	Object Model	Description				
NK823x-0010	NK823x	NK823x system object.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			0-Quiet	1-Normal	Normal	

ID	Object Model	Description																										
NK823x-0020	NK823x BACnet client	Any of the clients (up to 4) connected to the NK823x via the BACnet protocol.																										
<table border="1"> <thead> <tr> <th>States</th> <th colspan="4">Commands on OPC Item Mode</th> </tr> <tr> <th>OPC Item PresentValue</th> <th>OPC Item Mode</th> <th>Result State</th> <th>\</th> <th>\</th> <th>\</th> <th>\</th> </tr> </thead> <tbody> <tr> <td>0-Quiet</td> <td>1-Normal</td> <td>Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3-Fault</td> <td>1-Normal</td> <td>Fault</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			States	Commands on OPC Item Mode				OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\	0-Quiet	1-Normal	Normal					3-Fault	1-Normal	Fault				
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																						
0-Quiet	1-Normal	Normal																										
3-Fault	1-Normal	Fault																										

ID	Object Model	Description																					
NK823x-0030	NK823x BACnet device	BACnet device representing the communication characteristics of the NK823x unit.																					
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0-Quiet	1-Normal	Normal																					

ID	Object Model	Description			
NK823x-0040	NK823x BACnet protocol	BACnet protocol configuration object.			
		States		Commands on OPC Item Mode	
		OPC Item PresentValue	OPC Item Mode	Result State	
		0-Quiet	1-Normal	Normal	

ID	Object Model	Description																										
NK823x-0050	NK823x COM	Any of the COM ports (up to 4) of the NK823x unit.																										
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0-Quiet	1-Normal	Normal																										
3-Fault	1-Normal	Fault																										

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NK823x-0060	NK823x EPSS	External power supply of the NK823x unit.																																										
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3-Fault	1-Normal	Fault																																										
16-Abnormal	1-Normal	Battery Low																																										

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NK823x-0070	NK823x Ethernet	Any of the two ETH port of the NK823x unit.																										
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																						
0-Quiet	1-Normal	Normal																										
3-Fault	1-Normal	Fault																										

ID	Object Model	Description				
NK823x-0080	NK823x Event Enrollment	BACnet Event Enrollment object for the Output object.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	\
			0-Quiet	1-Normal	Normal	
			7-Active	1-Normal	Active	

ID	Object Model	Description																			
NK823x-0090	NK823x Expansion Board	Expansion board of the NK823x unit holding two additional COM ports (#3 and #4).																			
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\															
0-Quiet	1-Normal	Normal																			

ID	Object Model	Description	
NK823x-0100	NK823x I2C	DF8000 subsystem folder.	
		States	Commands on OPC Item Mode
	OPC Item PresentValue	OPC Item Mode	Result State
	0-Quiet	1-Normal	Normal
	3-Fault	1-Normal	Fault

ID	Object Model	Description																												
NK823x-0110	NK823x Input	Any of the Inputs (up to 3) connected to the NK823x unit.																												
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																								
0-Quiet	1-Normal	Normal																												
7-Active	1-Normal	Active																												

ID	Object Model	Description				
NK823x-0120	NK823x IO	I/O folder.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			0-Quiet	1-Normal	Normal	

ID	Object Model	Description				
NK823x-0130	NK823x License	Current status of the license of the NK823x unit.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Quiet	1-Normal	Normal				
3-Fault	1-Normal	Invalid license				

ID	Object Model	Description																																
NK823x-0140	NK823x Logging	Current status of the logging of the NK823x unit.																																
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																												
0-Quiet	11-Enabled	Normal																																
267-Non Default Mode	12-Disabled	Disabled																																
3-Fault	11-Enabled	Fault																																

ID	Object Model	Description							
NK823x-0150	NK823x Output	Current status of the Output object of the NK823x unit.							
			States		Commands on OPC Item Mode				
			OPC Item PresentValue	OPC Item Mode	Result State	269-Activate	276-Deactivate	\	\
			0-Quiet	1-Normal	Normal	X			
			7-Active	1-Normal	Active			X	

ID	Object Model	Description																																
NK823x-0160	NK823x Software	Current configuration consistency of the NK823x unit.																																
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3-Fault	1-Normal	Fault																																

ID	Object Model	Description							
NK823x-0170	NK823x Tamper	Tamper object of the NK823x unit.							
			States		Commands on OPC Item Mode				
			OPC Item PresentValue	OPC Item Mode	Result State	11-Enable	12-Disable	\	\
			0-Quiet	11-Enabled	Normal			X	
			8-Tamper	11-Enabled	Tamper alarm			X	
			267-Non Default Mode	12-Disabled	Tamper disabled	X			

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