

# **SIEMENS**

## **OPC Interface Specifications V7**

### **DF8000 system**

Document No. A6V11371065\_en\_a\_70  
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## DF8000 system

This workbook describes the objects provided by the Siemens OPC Data Access Server to represent the DF8000 system

### Legend

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

### 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						
DF8000-0010	DF8000 BACnet device	BACnet device representing the communication characteristics of the DF8000 system.						
		States			Commands on OPC Item Mode			
		OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
		0-Quiet	1-Normal	Normal				

ID	Object Model	Description				
DF8000-0020	DF8000 Balanced Input	One single balanced input.				
<b>States</b>			<b>Commands on OPC Item Mode</b>			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Quiet	1-Normal	Normal				
7-Active	1-Normal	Activated				
8-Tamper	1-Normal	Normal				

ID	Object Model	Description																																	
DF8000-0030	DF8000 CPU	Either a DF8003 or a CF9003 CPU unit.																																	
<table border="1"> <thead> <tr> <th data-bbox="415 355 520 371">States</th> <th colspan="4" data-bbox="1098 355 1350 371">Commands on OPC Item Mode</th> </tr> <tr> <th data-bbox="205 423 394 440">OPC Item PresentValue</th> <th data-bbox="436 423 604 440">OPC Item Mode</th> <th data-bbox="667 423 814 440">Result State</th> <th data-bbox="961 423 1045 440">\</th> <th data-bbox="1108 423 1192 440">\</th> <th data-bbox="1255 423 1339 440">\</th> <th data-bbox="1423 423 1507 440">\</th> </tr> </thead> <tbody> <tr> <td data-bbox="205 492 394 508">0-Quiet</td> <td data-bbox="436 492 604 508">1-Normal</td> <td data-bbox="667 492 814 508">Normal</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="205 518 394 534">3-Fault</td> <td data-bbox="436 518 604 534">1-Normal</td> <td data-bbox="667 518 814 534">Fault</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td data-bbox="205 544 394 560">267-Non Default Mode</td> <td data-bbox="436 544 604 560">10-Disconnected</td> <td data-bbox="667 544 814 560">Disconnected</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					267-Non Default Mode	10-Disconnected	Disconnected				
States	Commands on OPC Item Mode																																		
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\																													
0-Quiet	1-Normal	Normal																																	
3-Fault	1-Normal	Fault																																	
267-Non Default Mode	10-Disconnected	Disconnected																																	

ID	Object Model	Description				
DF8000-0040	DF8000 Digital Input	One single digital input.				
			States		Commands on OPC Item Mode	
			OPC Item PresentValue	OPC Item Mode	Result State	
			\	\	\	\
			0-Quiet	1-Normal	Normal	
			7-Active	1-Normal	Activated	

ID	Object Model	Description				
DF8000-0050	DF8000 Digital Output	One single digital output.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	269-Activate	276-Deactivate	1-Pulse On	0-Pulse Off
0-Quiet	1-Normal	Normal	X		X	
7-Active	1-Normal	Activated		X		X

ID	Object Model	Description				
DF8000-0060	DF8000 Power Supply	Power supply of a DF8000 system.				
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																			
DF8000-0070	DF8000 System via COM port	A DF8000 system connected via a COM port.																			
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\															
0-Quiet	1-Normal	Normal																			

ID	Object Model	Description																			
DF8000-0080	DF8000 System via I2C Bus	A DF8000 system connected via the I2C bus.																			
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\															
0-Quiet	1-Normal	Normal																			

ID	Object Model	Description				
DF8000-0090	DF8020	One single DF8020 unit.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Quiet	1-Normal	Normal				

ID	Object Model	Description					
DF8000-0100	DF8040	One single DF8040 unit.					
States			Commands on OPC Item Mode				
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\	
0-Quiet	1-Normal	Normal					

ID	Object Model	Description				
DF8000-0110	DF8045	One single DF8045 unit.				
States			Commands on OPC Item Mode			
OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
0-Quiet	1-Normal	Normal				

ID	Object Model	Description																			
DF8000-0120	DF8046	One single DF8046 unit.																			
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OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\															
0-Quiet	1-Normal	Normal																			

ID	Object Model	Description						
DF8000-0130	DF8090	One single DF8090 unit.						
		States			Commands on OPC Item Mode			
		OPC Item PresentValue	OPC Item Mode	Result State	\	\	\	\
		0-Quiet	1-Normal	Normal				X

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