

A Dokumenteninformationen

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B Änderungsübersicht

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¹ bei umfangreichen Änderungen ggf. ein separates Kapitel einfügen und von hier aus verweisen.

C Dokumentenstatus

Version	Datum	Status
1.0	17.02.2021	Ersterstellung

D Bezugsdokumente

Dokument	Bezeichnung	Ablage

1 Tabelle Anforderung an BACnet Objekttypen

1.1 Anforderungen an den Objekttyp Analog-Input

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W ²
28	Description	W
31	Device_Type	O
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
118	Update_Interval	R
117	Units	R
69	Min_Pres_Value	R
65	Max_Pres_Value	R
106	Resolution	R
22	COV_Increment	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
45	High_Limit	W
59	Low_Limit	W
25	Deadband	W
52	Limit_Enable	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 1: Anforderungen an den Objekttyp Analog-Input

² Schreibbar wenn Out_of_Service=TRUE

1.2 Anforderungen an den Objekttyp Analog-Output

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
31	Device_Type	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
117	Units	R
69	Min_Pres_Value	R
65	Max_Pres_Value	R
106	Resolution	R
87	Priority_Array	R
104	Relinquish_Default	R
22	COV_Increment	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
45	High_Limit	W
59	Low_Limit	W
25	Deadband	W
52	Limit_Enable	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 2: Anforderungen an den Objekttyp Analog-Output

1.3 Anforderungen an den Objekttyp Analog-Value

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
117	Units	R
87	Priority_Array	R
104	Relinquish_Default	W
22	COV_Increment	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
45	High_Limit	W
59	Low_Limit	W
25	Deadband	W
52	Limit_Enable	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 3: Anforderungen an den Objekttyp Analog-Value

1.4 Anforderungen an den Objekttyp Binary-Input

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W ³
28	Description	W
31	Device_Type	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
84	Polarity	W
46	Inactive_Text	R
4	Active_Text	R
16	Change_Of_State_Time	R
15	Change_Of_State_Count	W
115	Time_Of_State_Count_Reset	R
33	Elapsed_Active_Time	O
114	Time_Of_Active_Time_Reset	O
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
6	Alarm_Value	R
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 4: Anforderungen an den Objekttyp Binary-Input

³ Schreibbar wenn Out_of_Service=TRUE

1.5 Anforderungen an den Objekttyp Binary-Output

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
31	Device_Type	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
84	Polarity	R
46	Inactive_Text	R
4	Active_Text	R
16	Change_Of_State_Time	R
15	Change_Of_State_Count	W
115	Time_Of_State_Count_Reset	R
33	Elapsed_Active_Time	O
114	Time_Of_Active_Time_Reset	O
66	Minimum_Off_Time	W
67	Minimum_On_Time	W
87	Priority_Array	R
104	Relinquish_Default	R
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
40	Feedback_Value	R
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 5: Anforderungen an den Objekttyp Binary-Output

1.6 Anforderungen an den Objekttyp Binary-Value

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
46	Inactive_Text	R
4	Active_Text	R
16	Change_Of_State_Time	R
15	Change_Of_State_Count	W
115	Time_Of_State_Count_Reset	R
33	Elapsed_Active_Time	O
114	Time_Of_Active_Time_Reset	O
66	Minimum_Off_Time	W
67	Minimum_On_Time	W
87	Priority_Array	R
104	Relinquish_Default	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	W
6	Alarm_Value	R
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 6: Anforderungen an den Objekttyp Binary-Value

1.7 Anforderungen an den Objekttyp Calendar

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
85	Present_Value	R
23	Date_List	W
168	Profile_Name	O

Tabelle 7: Anforderungen an den Objekttyp Calendar

1.8 Anforderungen an den Objekttyp Device

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
112	System_Status	R
121	Vendor_Name	R
120	Vendor_Identifier	R
70	Model_Name	R
44	Firmware_Revision	R
12	Application_Software_Version	R
58	Location	W
28	Description	W
98	Protocol_Version	R
139	Protocol_Revision	R
97	Protocol_Services_Supported	R
96	Protocol_Object_Types_Supported	R
76	Object_List	R
209	Structured_Object_List	R
62	Max_APDU_Length_Accepted	W
107	Segmentation_Supported	R
167	Max_Segments_Accepted	W
122	VT_Classes_Supported	O

Property Nr.	PROPERTY IDENTIFIER	Vivantes
5	Active_VT_Sessions	O
57	Local_Time	R
56	Local_Date	R
119	UTC_Offset	R
24	Daylight_Savings_Status	R
1	APDU_Segment_Timeout	W
11	APDU_Timeout	W
73	Number_Of_APDU_Retries	W
55	List_Of_Session_Keys	O
116	Time_Synchronization_Recipients	R
64	Max_Master	W
63	Max_Info_Frames	W
30	Device_Address_Binding	R
155	Database_Revision	R
154	Configuration_Files	R
157	Last_Restore_Time	R
153	Backup_Failure_Timeout	R
152	Active_COV_Subscriptions	R
172	Slave_Proxy_Enable	O
170	Manual_Slave_Adress_Binding	O
169	Auto_Slave_Discovery	O
171	Slave_Address_Binding	R
196	Last_Restart_Reason	R
203	Time_Of_Device_Restart	R
202	Restart_Notification_Recipients	R
206	UTC_Time_Synchronization_Recipients	R
204	Time_Synchronization_Interval	R
193	Align_Intervals	R
195	Interval_Offset	R
168	Profile_Name	R

Tabelle 8: Anforderungen an den Objekttyp Device

1.9 Anforderungen an den Objekttyp Event Enrollment

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
37	Event_Type	R
72	Notify_Type	R
83	Event_Parameters	W
78	Object_Property_Reference	R
36	Event_State	R
35	Event_Enable	W
0	Acked_Transitions	R
17	Notification_Class	W
130	Event_Time_Stamps	R
168	Profile_Name	O

Tabelle 9: Anforderungen an den Objekttyp Event Enrollment

1.10 Anforderungen an den Objekttyp File

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name ⁴	R
79	Object_Type	R
28	Description	R
43	File_Type	R
42	File_Size	R
71	Modification_Date	R
13	Archive	W
99	Read_Only	R
42	File_Access_Method	R
141	Record_Count	O
168	Profile_Name	O

Tabelle 10: Anforderungen an den Objekttyp File

⁴ Im Objekt_Name darf beim FILE-Objekt ein vom AKS abweichender Name verwendet werden

1.11 Anforderungen an den Objekttyp Loop

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	R
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
118	Update_Interval	R
82	Output_Units	R
60	Manipulated_Variable_Reference	R
19	Controlled_Variable_Reference	R
21	Controlled_Variable_Value	R
20	Controlled_Variable_Units	R
109	Setpoint_Reference	R
108	Setpoint	R
2	Action	R
93	Proportional_Constant	W
94	Proportional_Constant_Units	R
49	Integral_Constant	W
50	Integral_Constant_Units	R
26	Derivative_Constant	W
27	Derivative_Constant_Units	R
14	Bias	W
61	Maximum_Output	W
68	Minimum_Output	W
88	Priority_For_Writing	R
22	COV_Increment	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	R
34	Error_Limit	W
25	Deadband	W
35	Event_Enable	W

0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 11: Anforderungen an den Objekttyp Loop

1.12 Anforderungen an den Objekttyp Multistate-Input

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W ⁵
28	Description	W
31	Device_Type	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
74	Number_Of_States	R
110	State_Text	R
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	R
7	Alarm_Values	W
39	Fault_Values	R
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 12: Anforderungen an den Objekttyp Multistate-Input

⁵ Schreibbar wenn Out_of_Service=TRUE

1.13 Anforderungen an den Objekttyp Multistate Output

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
31	Device_Type	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
74	Number_Of_States	R
110	State_Text	R
87	Priority_Array	R
104	Relinquish_Default	R
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	R
40	Feedback_Value	R
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 13: Anforderungen an den Objekttyp Multistate-Output

1.14 Anforderungen an den Objekttyp Notification-Class

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
17	Notification_Class	R
86	Priority	R
1	Ack_Required	R
102	Recipient_List	W
168	Profile_Name	O

Tabelle 14: Anforderungen an den Objekttyp Notification Class

1.16 Anforderungen an den Objekttyp Program

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
92	Program_State	R
90	Program_Change	W
100	Reason_For_Halt	R
29	Description_Of_Halt	R
91	Program_Location	R
28	Description	W
48	Instance_Of	R
111	Status_Flags	R
103	Reliability	R
81	Out_Of_Service	R
168	Profile_Name	O

Tabelle 15: Anforderungen an den Objekttyp Program

1.17 Anforderungen an den Objekttyp Schedule

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	R
28	Description	W
32	Effective_Period	W
123	Weekly_Schedule	W
38	Exception_Schedule	W
174	Schedule_Default	R
54	List_Of_Object_Property_References	W
88	Priority_For_Writing	R
111	Status_Flags	R
103	Reliability	R
81	Out_Of_Service	W
168	Profile_Name	O

Tabelle 16: Anforderungen an den Objekttyp Schedule

1.18 Anforderungen an den Objekttyp Multistate-Value

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
85	Present_Value	W
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
74	Number_Of_States	R
110	State_Text	R
87	Priority_Array	R
104	Relinquish_Default	W
113	Time_Delay	W
356	Time_Delay_Normal	W
17	Notification_Class	R
7	Alarm_Values	W
39	Fault_Values	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 17: Anforderungen an den Objekttyp Multistate-Value

1.19 Anforderungen an den Objekttyp Trendlog

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
133	Enable	W
142	Start_Time	W
143	Stop_Time	W
132	Log_DeviceObjectProperty	R
134	Log_Interval	W
128	COV_Resubscription_Interval	W
127	Client_COV_Increment	W
144	Stop_When_Full	W
126	Buffer_Size	W
131	Log_Buffer	R
141	Record_Count	W
145	Total_Record_Count	R
137	Notification_Threshold	W
140	Records_Since_Notification	R
173	Last_Notify_Record	R
36	Event_State	R
17	Notification_Class	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
168	Profile_Name	O
197	Logging_Type	W
193	Align_Intervals	W
195	Interval_Offset	W
205	Trigger	W
111	Status_Flags	R
103	Reliability	R

Tabelle 18: Anforderungen an den Objekttyp Trendlog

1.20 Anforderungen an den Objekttyp Pulse-Converter

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
85	Present_Value	R
181	Input_Reference	O
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
81	Out_Of_Service	W
117	Units	R
188	Scale_Factor	R
176	Adjust_Value	W
177	Count	R
189	Update_Time	R
179	Count_Change_Time	R
178	Count_Before_Change	R
22	COV_Increment	W
180	COV_Period	W
17	Notification_Class	R
113	Time_Delay	W
356	Time_Delay_Normal	W
45	High_Limit	W
59	Low_Limit	W
25	Deadband	W
52	Limit_Enable	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 19: Anforderungen an den Objekttyp Pulse-Converter

1.21 Anforderungen an den Objekttyp Eventlog

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
133	Enable	W
142	Start_Time	W
143	Stop_Time	W
144	Stop_When_Full	W
126	Buffer_Size	R
131	Log_Buffer	R
141	Record_Count	W
145	Total_Record_Count	R
137	Notification_Threshold	W
140	Records_Since_Notification	R
173	Last_Notify_Record	R
17	Notification_Class	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
168	Profile_Name	O

Tabelle 20: Anforderungen an den Objekttyp Eventlog

1.22 Anforderungen an den Objekttyp Trendlog-Multiple

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
133	Enable	W
142	Start_Time	W
143	Stop_Time	W
197	Log_DeviceObjectProperty	R
197	Logging_Type	R
134	Log_Interval	W
193	Align_Intervals	R
195	Interval_Offset	R
205	Trigger	W
144	Stop_When_Full	W
126	Buffer_Size	R
131	Log_Buffer	R
141	Record_Count	W
145	Total_Record_Count	R
137	Notification_Threshold	W
140	Records_Since_Notification	R
173	Last_Notify_Record	R
17	Notification_Class	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
168	Profile_Name	O

Tabelle 21: Anforderungen an den Objekttyp Trendlog-Multiple

1.23 Anforderungen an den Objekttyp Load-Control

Property Nr.	PROPERTY IDENTIFIER	Vivantes
75	Object_Identifier	R
77	Object_Name	R
79	Object_Type	R
28	Description	W
85	Present_Value	R
222	State_Description	R
111	Status_Flags	R
36	Event_State	R
103	Reliability	R
218	Requested_Shed_Level	W
142	Start_Time	W
219	Shed_Duration	W
213	Duty_Window	W
133	Enable	W
215	Full_Duty_Baseline	R
214	Expected_Shed_Level	R
212	Actual_Shed_Level	R
221	Shed_Levels	W
220	Shed_Levels_Descriptions	R
17	Notification_Class	R
113	Time_Delay	W
356	Time_Delay_Normal	W
35	Event_Enable	W
0	Acked_Transitions	R
72	Notify_Type	R
130	Event_Time_Stamps	R
351	Event_Message_Text	W
168	Profile_Name	O

Tabelle 22: Anforderungen an den Objekttyp Load Control