

# Smart Access Server – BACnet Spezifikation

Im folgenden Dokument werden die BACnet Spezifikationen zum Smart Access Server von IBSYS erläutert.

## 1. Smart Access Server BACnet Spezifikationen

- BACnet Device Profile: BACnet Building Controller (B-BC)
- BACnet Protocol Revision: 16
- Device Name: IBSYS\_Smart\_Access\_Server
- Device ID: 8400

## 2. BACnet Objektmodell

### 2.1. Standard

Der Smart Access Server stellt standardmässig die folgenden Objekte pro Türe zur Verfügung:

BACnet Object Type	Object Type ID	Smart Access Event	Present Value
Multi-State Value	19	OperationID	Siehe Operation IDs

#### 2.1.1. Object Properties

- Object Name: Name der Türe, z.B. «EG\_A\_001»
- Description: z.B. «Operation der Türe»
- Object ID: Fortlaufend, beginnend bei 0

### 2.2. Option

Der Smart Access Server kann optional folgende Objekte pro Türe zur Verfügung stellen:

BACnet Object Type	Object Type ID	Smart Access Event	Present Value
Analog Value	2	OperationID	Siehe Value, Operation IDs
Binary Value	5	isExit	true/false
Multi-State Value	19	OperationID	Siehe Operation IDs

Falls optional zum Standardobjekt eines der hier beschriebenen Objekte verwendet wird, sind die Objectnames bzw. Descriptions wie folgt:

BACnet Object Type	Objectname	Description
Analog Value	Tür Namen, z.B. «EG_A_001_OID»	«OperationID der Türe»
Binary Value	Tür Namen, z.B. «EG_A_001_IE»	<i>Keine Beschreibung</i>
Multi-State Value	Tür Namen, z.B. «EG_A_001»	«Operation der Türe»

## 2.3. Unterstützte Object Properties

Folgend sind die unterstützten BACnet Object Properties beschrieben:

### 2.3.1. Analog Value

- Present\_Value
- Description
- Out\_Of\_Service

### 2.3.2. Binary Value

- Present\_Value
- Description
- Out\_Of\_Service
- Inactive\_Text
- Active\_Text

### 2.3.3. Multi-State Value

- Present\_Value
- Description
- Out\_Of\_Service
- State\_Text

## 3. BACnet Events/Alarms

Standardmässig sind auf dem Smart Access Server keine Events bzw. Alarme konfiguriert. Diese können jedoch Optional programmiert werden.

### 3.1. Object Properties

Folgende Object Properties sind pro BACnet Object zusätzlich verfügbar.

- Event Detection: Enabled
- Notify Type: Event/Alarm

### 3.2. Notification Value

Die Werte, beim welchen eine Notification ausgelöst werden soll, können pro Object definiert werden.

## 4. Operation IDs

Value	State Text
1	None
2	New Renovation Code For Key Online
3	Door Opened Inside Handle
4	Door Opened Key
5	Door Opened Key And Keypad
6	Door Opened Multiple Guest Key
7	Door Opened Unique Opening
8	Door Opened Switch
9	Door Opened Mechanical Key
10	Door Opened Ppd
11	Door Opened Keypad
12	Door Opened Spare Key
13	Door Opened Online
14	Door Most Probably Opened Key And Pin
15	Start Of Office Mode Keypad
16	End Of Office Mode Keypad
17	Door Closed Key
18	Door Closed Key And Keypad
19	Door Closed Keypad
20	Door Closed Switch
21	Key Inserted Energy Saving Device
22	Key Removed Energy Saving Device
23	Room Prepared Energy Saving Device
24	Start Of Privacy
25	End Of Privacy
26	Duress Alarm
27	Communication With The Reader Lost
28	Communication With The Reader Reestablished
29	Start Of Office Mode
30	End Of Office Mode
31	Hotel Guest Cancelled
32	Locked
33	Unlocked
34	Door Programmed With Spare Key
35	New Hotel Guest Key
36	Start Of Emergency Opening Online
37	End Of Emergency Opening Online
38	Start Of Emergency Closing Online
39	End Of Emergency Closing Online
40	Alarm Intrusion
41	Alarm Tamper
42	Door Left Opened
43	End Of Door Left Opened
44	End Of Intrusion Alarm
45	Start Of Office Mode Online
46	End Of Office Mode Online
47	End Of Tamper Alarm

48	Automatic Change
49	Key Updated In Out Of Site Mode Online
50	Expiration Extended Offline
51	Access Point Updated
52	Key Updated Online
53	Key Deleted Online
54	Communication With The Server Lost
55	Communication With The Server Established
56	Opening Not Allowed Key No Activated
57	Opening Not Allowed Key Expired
58	Opening Not Allowed Key Out Of Date
59	Opening Not Allowed Invalid Key
60	Opening Not Allowed Out Of Time
61	Opening Not Allowed Key Does Not Override Privacy
62	Opening Not Allowed Old Guest Key
63	Opening Not Allowed Invalid Key Due To Cancel Key Or Check Out
64	Opening Not Allowed Antipassback
65	Opening Not Allowed Second Double Key Not Presented
66	Opening Not Allowed No Authorization
67	Opening Not Allowed Invalid Pin
68	Opening Not Allowed Door In Emergency State
69	Opening Not Allowed Key Cancelled
70	Opening Not Allowed Unique Opening Key Already Used
71	Opening Not Allowed Incompatible Renovation Number
72	Warning Key Has Not Been Completely Updated
73	Opening Not Allowed Run Out Of Battery
74	Opening Not Allowed It Is Not Possible To Audit Opening
75	Opening Not Allowed Locker Occupancy Timeout
76	Opening Not Allowed Refused By Host
77	Key Deleted
78	Opening Not Allowed Key With Data Manipulated
79	Closing Not Allowed Door In Emergency State
80	New Renovation Code For Door
81	Ppd Connection
82	Daylight Saving Time
83	Low Battery Level
84	Open Close Operation Not Completed
85	Lock Restarted
86	Bolt Out
87	Bolt Inside
88	Locker Taken
89	Locker Released
90	Communication With The Device Reestablished
91	Communication With The Device Lost
92	Guest New Key
93	Guest Copy Key

## Kontakt

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