Johnson Controls

Object Library

KONE IP Controller Object

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KONE IP CONTROLLER OBJECT

INTRODUCTION

The KONE IP Controller object represents a single controller (a KONE PC group controller or a KONE KIC).

The KONE IP Controller object serves as the interface to set the configuration parameters related to the elevator controller, as well as the interface to monitor the status of the elevator controller and its communication with the CK722 controller.

The KONE IP Controller object must be a child of a KONE IP Integration object.

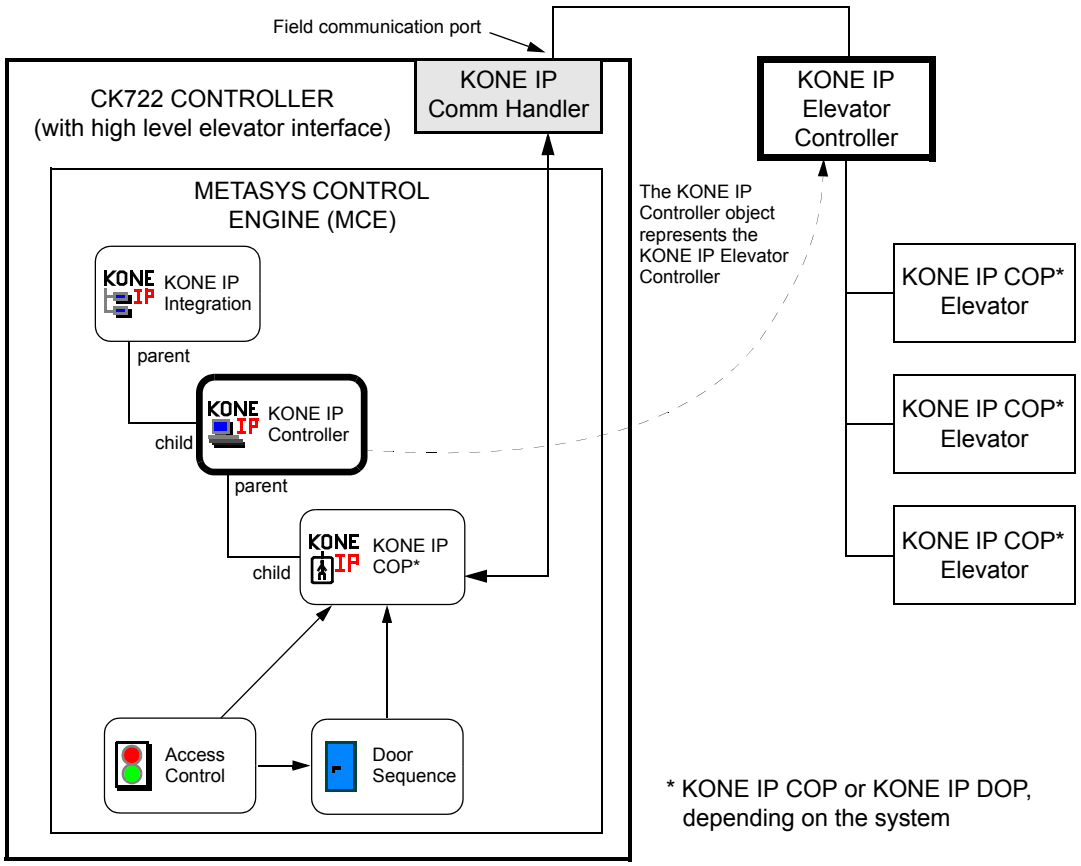

Figure 1: KONE IP Controller Object

ATTRIBUTES

The KONE IP Controller object contains attributes common to Metasys system objects. For details, see the *General Object Information* document. Table 1 lists only the attributes specific to the KONE IP Controller object.

Table 1: KONE IP Controller Object Attributes

Attribute Name	Attribute Number	Data Type	Notes	Initial Value	Values/Options /Range
Acked Transitions	0	BACnetEvent TransitionBits	-	-	Refer to the *BACnet Standard 12.19.19*
Clear Statistics	2427	Boolean	W	-	-
Connection Attempts Made	4230	Unsigned32	-	-	-
Connections Aborted	4234	Unsigned32	-	-	-
Connections Failed	4231	Unsigned32	-	-	-
Connections Succeeded	4232	Unsigned32	-	-	-
Connections Timed Out	4233	Unsigned32	-	-	-
COP Access Closed Msgs Received	4221	Unsigned32	-	-	-
COP Global Default Msgs Sent	4215	Unsigned32	-	-	-
COP Open Access Msgs Sent	4219	Unsigned32	-	-	-
COP Specific Default Msgs Sent	4217	Unsigned32	-	-	-
Date	548	Date	-	-	-
Disconnect Msgs Received	4225	Unsigned32	-	-	-
Disconnect Msgs Sent	4224	Unsigned32	-	-	-
DOP Access Closed Msgs Received	4220	Unsigned32	-	-	-
DOP Access Denied Msgs Sent	4228	Unsigned32	-	-	-
DOP Global Default Msgs Sent	4214	Unsigned32	-	-	-
DOP Open Access Msgs Sent	4218	Unsigned32	-	-	-
DOP Specific Default Msgs Sent	4216	Unsigned32	-	-	-
Event Enable	35	BACnetEvent TransitionBits	-	1,1,1	Refer to the *BACnet Standard 12.19.18*

Table 1: KONE IP Controller Object Attributes

Attribute Name	Attribute Number	Data Type	Notes	Initial Value	Values/Options /Range
Event State	36	Enumeration	F	-	0 = Normal 1 = Fault 2 = Off-Normal
Event Time Stamps	130	BACnetAR-RAY[3] of BACnet-TimeStamp	-	-	Refer to the *BACnet Standard 12.19.21*
Fault Cause	2896	Enumeration	F	-	0 = None 1 = Port 2 = Task
Heartbeat Msgs Received	4223	Unsigned32	-	-	-
Heartbeat Msgs Sent	4222	Unsigned32	-	-	-
IP Address	1135	Array[4] of Unsigned8	WCA	-	IP address
Latch Statistics	2426	Boolean	W	-	-
Lockings Ignored Msgs Sent	4229	Unsigned32	-	-	-
Notification Class	17	Unsigned32	WCA	1	Refer to the *BACnet Standard 12.19.15*
Notify Priority	3644	Unsigned8	WCA	-	-
Notify Type	72	Enumeration	WCA	-	Refer to the *BACnet Standard 12.19.20*
Offlines	3744	Unsigned32	-	-	-
Present Value	85	Enumeration	F	-	0 = Not Initialized 1 = Operational 2 = Offline 3 = Fault
Reset Date	1141	Date	-	-	-
Reset Time	1140	Time	-	-	-
Status Response Msgs Received	4227	Unsigned32	-	-	-
Status Response Msgs Sent	4226	Unsigned32	-	-	-
Time	547	Time	-	-	-
Type	3060	Enumeration	WCA	-	0 = KIC 1 = Primary PC Group Controller 2 = Back-up PC Group Controller

A - Archive, C - Configurable, N - Value Not Required, W - Writable

Acked Transitions – Refer to the *BACnet Standard 135-2001 12.19.19*.

Clear Statistics – When written to "True," this attribute resets the statistics of the KONE IP Controller object.

Connection Attempts Made – Indicates the number of times the connection was attempted to establish session with the KONE IP elevator controller.

Connections Aborted – Indicates the number of times the session was aborted due to network error.

Connections Failed – Indicates the number of times the connection attempt failed.

Connections Succeeded – Indicates the number of times the connection attempt succeeded.

Connections Timed Out – Indicates the number of times the session timed out due to idle activity timer expiring.

COP Access Closed Msgs Received – Indicates how many "Access Closed for COP" messages were received from the KONE IP elevator controller.

COP Global Default Msgs Sent – Indicates how many "COP Global Default Access Masks" messages were sent to the KONE IP elevator controller.

COP Open Access Msgs Sent – Indicates how many "COP Open Access" messages were sent to the KONE IP elevator controller.

COP Specific Default Msgs Sent – Indicates how many "COP Specific Default Access Masks" messages were sent to the KONE IP elevator controller.

Date – Indicates the local date when the KONE IP Controller object's statistics were last updated.

Disconnect Msgs Received – Indicates how many "Disconnect" messages were received from the KONE IP elevator controller.

Disconnect Msgs Sent – Indicates how many "Disconnect" messages were sent to the KONE IP elevator controller.

DOP Access Closed Msgs Received – Indicates how many "Access Closed for DOP" messages were received from the KONE IP elevator controller.

DOP Access Denied Msgs Sent – Indicates how many "Access Denied" messages were sent to the KONE IP elevator controller.

DOP Global Default Msgs Sent – Indicates how many "DOP Global Default Access Masks" messages were sent to the KONE IP elevator controller.

DOP Open Access Msgs Sent – Indicates how many "DOP Open Access" messages were sent to the KONE IP elevator controller.

DOP Specific Default Msgs Sent – Indicates how many "DOP Specific Default Access Masks" messages were sent to the KONE IP elevator controller.

Event Enable – Refer to the *BACnet Standard 135-2001 12.19.18*.

Event State – Indicates the event related status of the KONE IP Controller object, which is determined as follows:

- Off-Normal - The *Present Value* attribute is set to Offline or the last To-Offnormal notification has not yet been acknowledged.
- Fault - The *Present Value* attribute is set to Fault or the last To-Fault notification has not yet been acknowledged.
- Normal - All other conditions.

Event Time Stamps – Refer to the *BACnet Standard 135-2001 12.19.21*.

Fault Cause – Indicates the reason why the KONE IP Controller object is in the fault state. If multiple reasons apply, the state with the higher enumeration value is shown. The options are:

- None - No fault detected.
- Port - The controller's was not able to open network port (socket) for communicating with the KONE IP elevator controller is not working correctly.
- Task - The controller's KONE IP elevator integration task is not working correctly.

Heartbeat Msgs Received – Indicates how many "Heartbeat" messages were received from the KONE IP elevator controller.

Heartbeat Msgs Sent – Indicates how many "Heartbeat" messages were sent to the KONE IP elevator controller.

IP Address – Specifies the IP address of the PC group controller or KIC.

Latch Statistics – When written to "True," this attribute updates the statistics of the KONE IP Controller object.

Lockings Ignored Msgs Sent – Indicates how many "Lockings Ignored" messages were sent to the KONE IP elevator controller.

Notification Class – Specifies which Security Solutions Notification Class object should be used by the KONE IP Controller object to send its notifications.

Notify Priority – Specifies the Priority parameter of all notifications generated by the KONE IP Controller object.

Notify Type – Specifies the notify type of the KONE IP Controller object. For more details, refer to the *BACnet Standard 135-2001 12.19.20*.

Offlines – Indicates how many times the KONE IP elevator controller transitioned from the online into the offline state.

Present Value – Indicates the principal condition that the KONE PC group controller is in. The options are:

- Not initialized - The KONE IP elevator controller's condition is not yet determined. This state is used only as the initial state.
- Operational - The KONE IP elevator controller is up and running.
- Offline - The KONE IP elevator controller is offline to the controller that this object resides on.
- Fault - The KONE IP elevator task is in the fault state. The *Fault Cause* attribute contains details about the reason of the fault condition.

Reset Date – Indicates the local date when the KONE IP Controller object's statistics were last reset.

Reset Time – Indicates the local time when the KONE IP Controller object's statistics were last reset.

Status Response Msgs Received – Indicates how many “Status Response” messages were received from the KONE IP elevator controller.

Status Response Msgs Sent – Indicates how many “Status Response” messages were sent to the KONE IP elevator controller.

Time – Indicates the local time when the KONE IP Controller object's statistics were last updated.

Type – Specifies the type of elevator controller that the KONE IP Controller object represents. This attribute governs which other objects may be defined as “children” and “grandchildren” of the KONE IP Integration object. The options are:

- KIC - Only one KIC can be defined. Primary and Back-up PC Group controllers cannot be defined.
- Primary PC Group Controller - Only one Primary and one Back-up PC Group Controller can be defined. A KIC cannot be defined.
- Back-up PC Group Controller - Only one Primary and one Back-up PC Group Controller can be defined. A KIC cannot be defined.KONE IP COP or KONE IP DOP objects cannot be added as “children” of a Back-up PC Group Controller.

COMMANDS

This section describes commands that can be issued to this object from SCT.

Table 2: KONE-IP Integration Object Commands

Command Name	Description
`Latch Statistics`	Writes the *Latch Statistics* attribute to "True."
`Clear Statistics`	Writes the *Clear Statistics* attribute to "True."
`Change Attribute`	See the description below.

The `Change Attribute` is a generic command available for writing the attributes of an object. It is mainly used to change an attribute value from those features which work only with commands. For the sole purpose of giving a generic example, there is no command defined to change the *Notify Priority* attribute of an object. `Change Attribute` could, therefore, be used to change the *Notify Priority* attribute through an interlock or multiple command, both features which require commands to be entered. The `Change Attribute` command requires two parameters:

- Attribute - This parameter specifies which attribute of the object is to be written. Only writable attributes may be changed by this command.
- New value - This parameter specifies new value to be written and must be the same data type as the attribute. The only data types allowed in this command are those allowed as command parameters. A command priority can be specified if the attribute to be changed is a prioritized attribute.

VIEWS

This section illustrates how the System Configuration Tool displays properties of the KONE-IP Integration object. This screen also allows you to set the values of configurable attributes. For more information refer to the *System Configuration Tool (SCT)* manual.

The view displays the *Floor Number* in the form of the corresponding floor name string, as defined by the host.

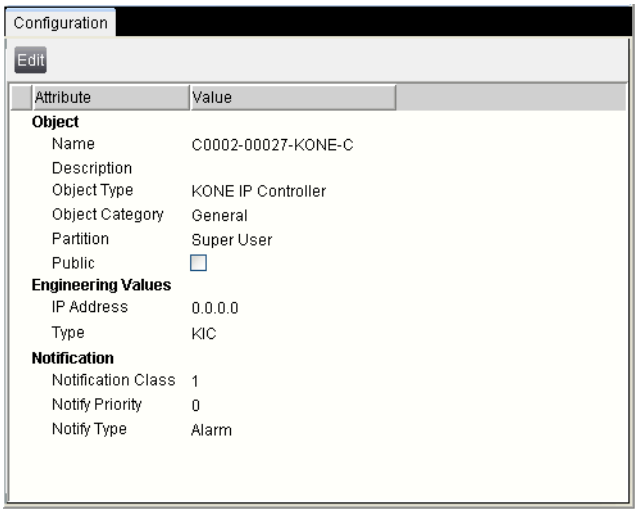

Figure 2: Configuration View