



Object Library

KONE IP Integration Object

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KONE IP INTEGRATION OBJECT

INTRODUCTION

The KONE IP Integration object is used to configure KONE IP integration-wide settings, and provides KONE IP integration-wide communication statistics.

The network protocol supported by the KONE IP Integration object is documented in the *KONE Group Controller Access Control Interface Specification Rev 1.5*.

There are different rules when interfacing to a KONE KIC as opposed to a Primary or Back-up PC Group Controller. KONE KIC controllers do not support Destination Operation Panels (DOPs).

Also, KONE KIC controllers may control elevator groups with different layouts of KONE levels. As the mapping of P2000 floor numbers to KONE levels is done inside the KONE-IP Integration object, it may be necessary to use several supervisory controllers to communicate with the same KIC.

A single KONE-IP Integration object can be used for all groups that map the same P2000 floor to KONE level and vice versa. Groups are allowed to cover a subset of that mapping scheme.

To allow for a greater number of groups to be handled by a single supervisory controller, some attribute values of the KONE-IP Integration object are ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

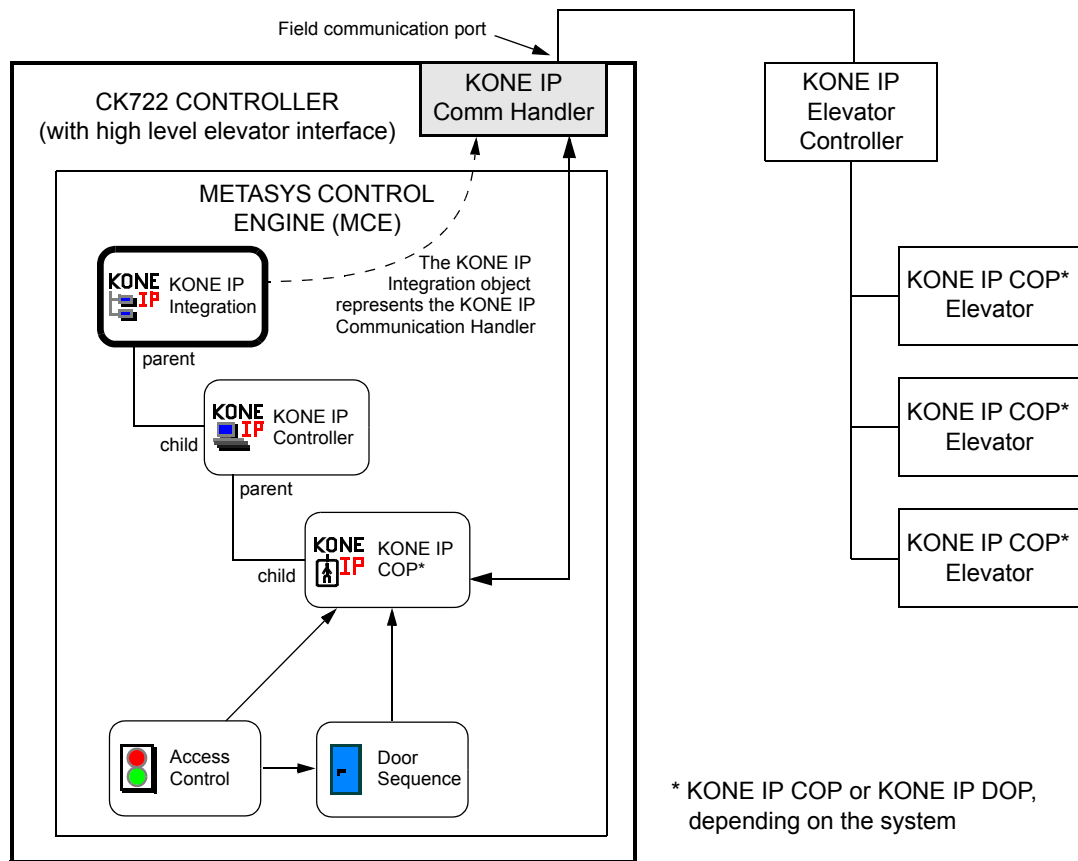


Figure 1: KONE IP Integration Object

Definition of terms

DOP – KONE Destination Operation Panel.

COP – KONE Car Operation Panel.

ATTRIBUTES

The KONE IP Integration 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 Integration object.

Table 1: KONE IP Integration Object Attributes

Attribute Name	Attribute Number	Data Type	Notes	Initial Value	Values/Options /Range
<i>Clear Statistics</i>	2427	Boolean	W	-	-
<i>Connection Attempts Made</i>	4230	Unsigned32	-	-	-
<i>Connections Aborted</i>	4234	Unsigned32	-	-	-
<i>Connections Failed</i>	4231	Unsigned32	-	-	-
<i>Connections Succeeded</i>	4232	Unsigned32	-	-	-
<i>Connections Timed Out</i>	4233	Unsigned32	-	-	-
<i>COP Access Closed Msgs Received</i>	4221	Unsigned32	-	-	-
<i>COP Global Default Msgs Sent</i>	4215	Unsigned32	-	-	-
<i>COP Open Access Msgs Sent</i>	4219	Unsigned32	-	-	-
<i>COP Specific Default Msgs Sent</i>	4217	Unsigned32	-	-	-
<i>Date</i>	548	Date	-	-	-
<i>Disconnect Msgs Received</i>	4225	Unsigned32	-	-	-
<i>Disconnect Msgs Sent</i>	4224	Unsigned32	-	-	-
<i>DOP Access Closed Msgs Received</i>	4220	Unsigned32	-	-	-
<i>DOP Access Denied Msgs Sent</i>	4228	Unsigned32	-	-	-
<i>DOP Global Default Msgs Sent</i>	4214	Unsigned32	-	-	-
<i>DOP Open Access Msgs Sent</i>	4218	Unsigned32	-	-	-
<i>DOP Specific Default Msgs Sent</i>	4216	Unsigned32	-	-	-
<i>Floor List</i>	4073	List of KONE IP Floor	WCAN	-	Max. 512 entries
<i>Heartbeat Interval</i>	4252	Unsigned8	WCA	5	5 - 15 seconds

Table 1: KONE IP Integration Object Attributes

Attribute Name	Attribute Number	Data Type	Notes	Initial Value	Values/Options /Range
<i>Heartbeat Msgs Received</i>	4223	Unsigned32	-	-	-
<i>Heartbeat Msgs Sent</i>	4222	Unsigned32	-	-	-
<i>Latch Statistics</i>	2426	Boolean	W	-	-
<i>Lockings Ignored Msgs Sent</i>	4229	Unsigned32	-	-	-
<i>Offlines</i>	3744	Unsigned32	-	-	-
<i>Reset Date</i>	1141	Date	-	-	-
<i>Reset Time</i>	1140	Time	-	-	-
<i>Status Response Msgs Received</i>	4227	Unsigned32	-	-	-
<i>Status Response Msgs Sent</i>	4226	Unsigned32	-	-	-
<i>TCP Port</i>	4253	Unsigned16	WCA	2005	-
<i>Time</i>	547	Time	-	-	-

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

Clear Statistics – When written to “True,” resets the statistics of the KONE IP Integration object and all of the “children” objects of its KONE IP Controller object.

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

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 controllers.

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

COP Open Access Msgs Sent – Indicates how many “COP Open Access” messages were sent to the KONE IP elevator controllers.

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

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

Disconnect Msgs Received – Indicates how many “Disconnect” messages were received from the KONE IP elevator controllers.

Disconnect Msgs Sent – Indicates how many “Disconnect” messages were sent to the KONE IP elevator controllers.

DOP Access Closed Msgs Received – Indicates how many “Access Closed for DOP” messages were received from the KONE IP elevator controllers.

DOP Access Denied Msgs Sent – Indicates how many “DOP Access Denied” messages were sent to the KONE IP elevator controllers.

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

DOP Open Access Msgs Sent – Indicates how many “DOP Open Access” messages were sent to the KONE IP elevator controllers.

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

Floor List – Specifies which floors are defined for all KONE IP elevators underneath the KONE IP Integration object. It also specifies which floors are permanently on public access as a COP or DOP destination, or a DOP source. This attribute must contain all floors that are served by any COP or DOP underneath the KONE IP Integration object, and must not contain any floors that are not served by any COP or DOP underneath the KONE IP Integration object. See “KONE IP Floor Data Type” on page 1-6 for details.

Heartbeat Interval – Indicates the regular interval at which the heartbeat message is sent.

Heartbeat Msgs Received – Indicates how many “Heartbeat” messages were received from the KONE IP elevator controllers.

Heartbeat Msgs Sent – Indicates how many “Heartbeat” messages were sent to the KONE IP elevator controllers.

Latch Statistics – When written to “True,” updates the statistics of the KONE IP Integration object and all of the “children” objects of its KONE IP Controller object.

Lockings Ignored Msgs Sent – Indicates how many “Lockings Ignored” messages were sent to the KONE IP elevator controllers.

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

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

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

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

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

TCP Port – TCP port number of KONE IP group controllers.

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

KONE IP Floor Data Type

The KONE IP Integration object uses KONE IP Floor for its *Floor List* attribute.

Table 2: KONE IP Floor Data Type

Floor	Data Type	Values/Options /Range
<i>Floor Number</i>	Unsigned16	1 - 512
<i>Level Number</i>	Unsigned16	1 - 256
<i>Side</i>	Enumeration	0 = Any 1 = Front 2 = Rear
<i>COP Destination When Connected</i>	Boolean	-
<i>COP Destination When Disconnected</i>	Boolean	-
<i>DOP Destination When Connected</i>	Boolean	-
<i>DOP Destination When Disconnected</i>	Boolean	-
<i>DOP Source When Connected</i>	Boolean	-
<i>DOP Source When Disconnected</i>	Boolean	-

Floor Number – Specifies the 1 based floor descriptor as defined by the P2000 host. At the SCT (System Configuration Tool) this floor descriptor is displayed as the floor name defined at the P2000 host.

Level Number – Specifies the 1 based floor descriptor as defined by the KONE equipment.

Side – Specifies the side of the elevator cab through which the selected floor is accessible. This attribute can be used for both DOP (Destination Operation Panel) and COP (Car Operation Panel).

COP Destination When Connected – Specifies whether the selected floor is publicly accessible as a COP destination when the PC group controller is online. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

COP Destination When Disconnected – Specifies whether the selected floor is publicly accessible as a COP destination when the PC group controller is offline. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

DOP Destination When Connected – Specifies whether the selected floor is publicly accessible as a DOP destination when the PC group controller is online. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

DOP Destination When Disconnected – Specifies whether the selected floor is publicly accessible as a DOP destination when the PC group controller is offline. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

DOP Source When Connected – Specifies whether the selected floor is publicly accessible as a DOP source when the PC group controller is online. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

DOP Source When Disconnected – Specifies whether the selected floor is publicly accessible as a DOP source when the PC group controller is online. This value is ignored when the KONE-IP Controller object's *Type* attribute is set to KIC.

COMMANDS

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

Table 3: KONE IP Integration Object Commands

Command Name	Description
Latch Statistics	Writes the <i>Latch Statistics</i> attribute to "True."
Clear Statistics	Writes the <i>Clear Statistics</i> 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.

Attribute	Value
Object	
Name	C0002-00018-KONE-IP-I
Description	
Object Type	KONE IP Integration
Object Category	System
Partition	Super User
Public	<input type="checkbox"/>
Engineering Values	
Heartbeat Interval	5 seconds
TCP Port	2005
Floor List	Listof[0]

Figure 2: Configuration View