



# Object Library

---

## KONE IP COP Object

---

Copyright 2008  
**Johnson Controls, Inc.**  
All Rights Reserved

No part of this document may be reproduced without the prior permission of  
Johnson Controls, Inc.

These instructions are supplemental. Some times they are supplemental to  
other manufacturer's documentation. Never discard other manufacturer's  
documentation. Publications from Johnson Controls, Inc. are not intended to  
duplicate nor replace other manufacturer's documentation.

If this document is translated from the original English version by Johnson  
Controls, Inc., all reasonable endeavors will be used to ensure the accuracy of  
translation. Johnson Controls, Inc. shall not be liable for any translation errors  
contained herein or for incidental or consequential damages in connection with  
the furnishing or use of this translated material.

# KONE IP COP OBJECT

## INTRODUCTION

The KONE IP COP (Car Operation Panel) object represents KONE IP COP elevator in a KONE IP high level elevator integration. The KONE IP COP object must be a child of the KONE IP Controller object.

In a high level elevator integration, the access control system interfaces with the elevator control system through a communications protocol. Granting access to floors is achieved by sending telegrams to the elevator controller; reporting the pressed floor buttons is achieved by receiving telegrams from the elevator controller.

The arrows in the diagram show the message flow between the different components of the elevator interface.

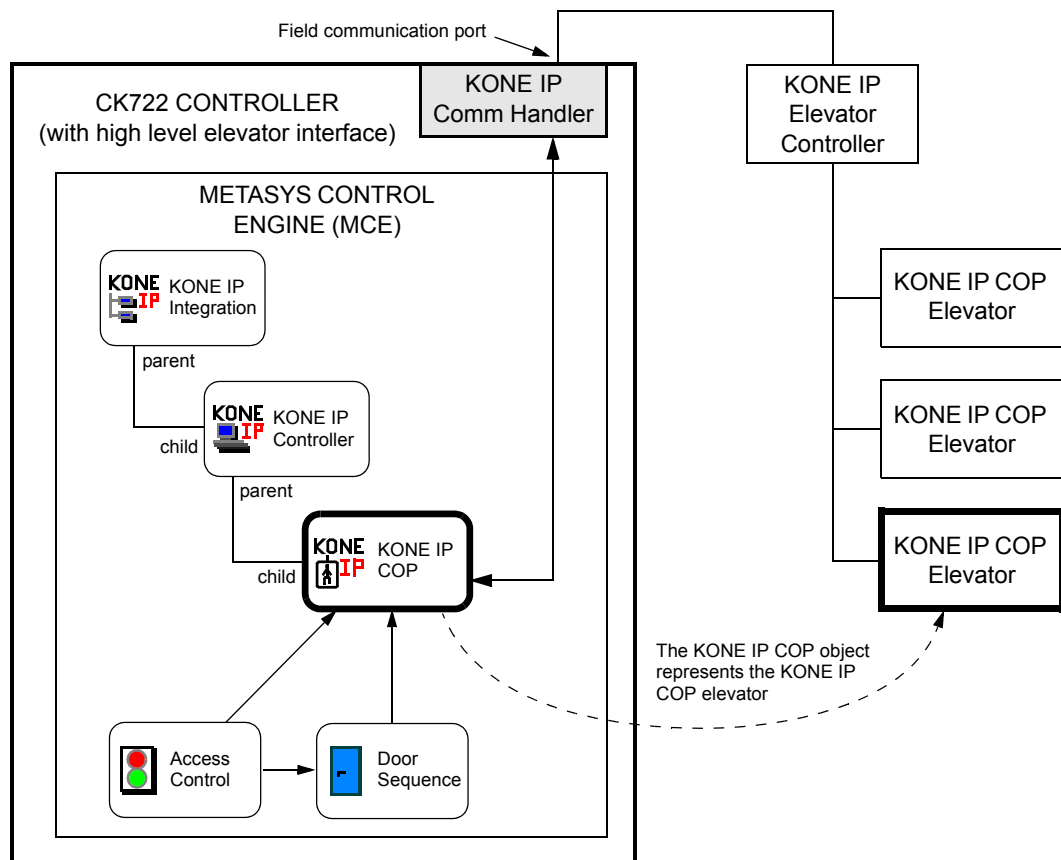


Figure 1: KONE IP COP Object

## ATTRIBUTES

This section describes visible attributes specific to the KONE IP COP object. This object also contains:

- Attributes common to all objects in the P2000 Security Management System. For details, see the *General Object Information* document.
- Internal attributes, which are invisible to the user and cannot be modified directly, but may be referred to throughout this document.

*Table 1: KONE IP COP Object Attributes*

Attribute Name	Attribute Number	Data Type	Notes	Initial Value	Values/Options /Range
<i>Access Control Object</i>	4072	Object Reference	WCAN	-	-
<i>Access Time</i>	2268	Unsigned16	WCA	5	1 to 1000 seconds
<i>Door Sequence Object</i>	3022	Object Reference	WCAN	-	-
<i>Elevator Address</i>	4077	Unsigned8	WCA	1	1 to 8
<i>Error Notification</i>	3040	Boolean	WCA	1	
<i>Floor List</i>	4073	List of Floor C	WCAN	-	Max. 512 entries
<i>Floor Tracking</i>	4074	Boolean	WCA	1	-
<i>Group Address</i>	871	Unsigned8	WCA	1	1 to 8
<i>Notification Class</i>	17	Unsigned32	WCA	1	-
<i>Notify Priority</i>	3644	Unsigned8	WCA	-	-

A - Archive, C - Configurable, N - Value not required, W - Writable

**Access Control Object** – Specifies which Access Control object the Elevator object shall use to obtain input from the reader(s).

**Access Time** – Specifies how long the elevator accepts floor button presses after elevator access was granted.

**Door Sequence Object** – Specifies which Door Sequence object the Elevator object shall consult for elevator override status.

**Elevator Address** – Specifies the numerical address of the elevator cab.

**Error Notification** – Specifies whether the Elevator object sends out extra notifications every time a error is encountered, such as missing data records or objects. These error notifications are in addition to all other notifications the Elevator object may generate.

**Floor List** – Specifies the elevator’s floor configuration. Only floors that are contained in the *Floor List* attribute of the object’s KONE IP Integration grandparent object are allowed. Only floors that are actually served by the elevator need to be entered. There is no requirement to adhere to a certain order of the floor entries. See “Floor C Data Type” on page 1-3 for details.

**Floor Tracking** – Specifies whether pressed floor buttons shall be reported to the host.

**Group Address** – Specifies the group number of the elevator cab.

**Notification Class** – Specifies which Security Notification Class object the Elevator object shall use to send its notifications.

**Notify Priority** – Specifies the Priority parameter of all notifications generated by the Elevator object.

## FLOOR C DATA TYPE

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

*Table 2: Floor C Data Type*

Floor	Data Type	Values/Options/Range
<i>Floor Number</i>	Unsigned16	1 - 512
<i>Public Access Attribute</i>	Attribute reference	-
<i>Public Access 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.

**Public Access Attribute** – Specifies a numerical attribute that enables public access to this floor when equal to 1. This attribute member may be left blank if no public access is desired.

**Public Access When Disconnected** – Specifies whether the floor should be in public access when the security controller is disconnected from the elevator controller in the KONE IP integration.

## COMMANDS

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

*Table 3: KONE IP COP Object Commands*

Command Name	Description
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 COP object. This screen also allows you to set the values of configurable attributes. For more information refer to the *System Configuration Tool (SCT)* manual.

Configuration	
Edit	
Attribute	Value
<b>Object</b>	
Name	C0002-00030-KONE-IP-COP
Description	
Object Type	Elevator
Object Category	General
Partition	Super User
Public	<input type="checkbox"/>
<b>Engineering Values</b>	
Access Control Object	<b>Object Name:</b>
	<b>Reference:</b>
Door Sequence Object	<b>Object Name:</b>
	<b>Reference:</b>
Access Time	5 seconds
Floor Tracking	<input checked="" type="checkbox"/>
Group Address	1
Elevator Address	1
Floor List	Listof[0]
<b>Notification</b>	
Notification Class	1
Notify Priority	0
Error Notification	<input checked="" type="checkbox"/>

Figure 2: Configuration View

## DESCRIPTION OF OPERATION

### Access Output

Every change to the list of floors on public access is sent to the elevator controller task. Similarly, every change to the list of floors on elevator access is sent to the elevator controller task. That task is responsible for sending this information to the elevator controller in the appropriate format.

### Floor Button Input

In a high level elevator integration the pressed floor button is reported to the access controls system via a telegram sent from the elevator controller.

