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Elevator/Lift Voice Announcer : 140.61



LONMARK[®]

Functional Profile:

Vertical/Conveyer Transportation

Elevator/Lift Voice Announcer

Overview

This document describes the Functional Profile of a Voice Announcer Object. Use of the standard Node object is implied. This profile applies to announcers objects pre-programmed with specific messages.

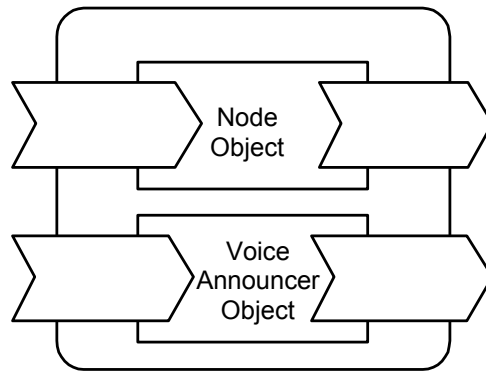


Figure 1 Node Concept

Example Usage

The Elevator control sends out the required announcements when they are required, and in the correct order.

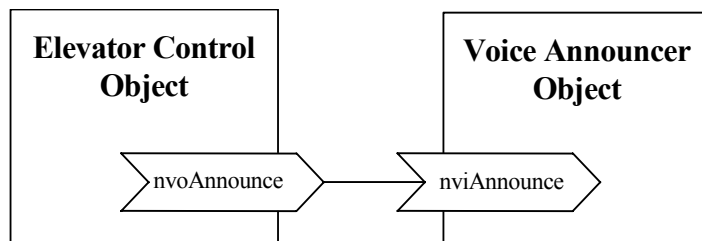


Figure 2 Example Usage of the Voice Announcer Object.

Object Details

Figure 3 Object Details

Table 1 SNVT Details

NV # (M/O)*	Variable Name	SNVT Name	SNVT Index	Description
1 (M)	nviAnnounce	SNVT_count	8	Required announcement Number
2 (O)	nviCarDown	SNVT_switch	95	Indicates car is moving down.
3 (O)	nviCarUp	SNVT_switch	95	Indicates car is moving up.

* M = mandatory, O = optional

Table 2 SCPT Details

Man. Opt. *	SCPT Name NV Name Type or SNVT	SCPT Index	Associated NVs **	Description
Opt	SCPTlocation nciLocation SNVT_str_asc (36)	17	Entire Object	Used to provide physical location of the node
Opt	SCPTobjMajVer nciObjMajVer unsigned short	167	Entire Object	Defines the major version number of the Object
Opt	SCPTobjMinVer nciObjMinVer unsigned short	168	Entire Object	Defines the minor version number of the Object
Opt	SCPTnwrkCfg nciNetConfig SNVT_config_src	25	Entire Object	Defines the source of network configuration information
Opt	SCPTaudibleLevel nciDirVolume SNVT_switch	228	Entire Object	Defines volume of announcement as % of max.
Opt	SCPTaudibleLevel nciAnnVolume SNVT_switch	228	Entire Object	Defines volume of announcement as % of max.

* Man = mandatory, Opt = optional

** List of NVs to which this configuration property applies.

Mandatory Network Variables

nviAnnounce

```
network input sd_string("@p|1") SNVT_count  
nviAnnounce;
```

This input network variable is used to allow an external node to request the announcement of a particular phrase.

Valid Range

0 .. 65,535

0 = no announcement, cancel existing requests.

Message programming with number allocation is done on a per-job basis.

Default Value

0 = no announcement

Configuration Considerations

None.

Optional Network Variables

nviCarUp

```
network input sd_string("@p|3") SNVT_switch nviCarUp;
```

This input network variable requests the node to append a “going up” announcement to a particular floor announcement.

Valid Range, ON-OFF

Value	State	Action
ANY	0	None
0	1	None
>0	1	Append 'UP' announcement
ANY	0xFF	Undefined, No Action

Message programming done on a per-job basis.

Default Value

state = 0 value=0

Configuration Considerations

None

nviCarDown

```
network input sd_string("@p|2") SNVT_switch  
nviCarDown;
```

This input network variable requests the node to append a "going down" announcement to a particular floor announcement.

Valid Range, ON-OFF

Value	State	Action
ANY	0	None
0	1	None
>0	1	Append 'DOWN' announcement
ANY	0xFF	Undefined, No Action

Message programming done on a per-job basis.

Default Value

state = 0 value=0

Configuration Considerations

None

Configuration Properties

Location Label (Optional)

```
network input config sd_string("&l,p,0\x80,17")
SNVT_str_asc nciLocation;
```

This configuration property can be used to provide the location of the Object/node, where *p* is the Object index. The above code declaration is for providing the location of the Object. If it is preferred, the location of the node can be represented with the following code declaration:

```
network input config sd_string("&0,,0\x80,17")
SNVT_str_asc nciLocation;
```

Valid Range

Any NULL-terminated ASCII string up to 31 bytes of total length (including NULL). The string must be truncated if the length does not allow the 31st character to be the NULL (0x00).

Default Value

The default value is an ASCII string containing all zeroes.

Configuration Requirements/Restrictions

This CP has no modification restrictions (no_restrictions). It can be modified at any time.

SCPT Reference

SCPTlocation (17)

Object Major Version (Optional)

```
network input config sd_string("&1,p,0\x84,167")
unsigned short nciObjMajVer;
```

This configuration property can be used to provide the major version number of the Object when implemented on a device.

Valid Range

Any integer number from 1 to 255. Only 1-byte of information is accepted.

Default Value

The default value is one (1).

Configuration Requirements/Restrictions

This CP is a constant (const_flg). It is not to be modified except that it is allowable to modify the value in a download of new code to the device.

SCPT Reference

SCPTobjMajVer (167)

Object Minor Version (Optional)

```
network input config sd_string("&1,p,0\x84,168")
unsigned short nciObjMinVer;
```

This configuration property can be used to provide the minor version number of the Object when implemented on a device.

Valid Range

Any integer number from 0 to 255. Only 1-byte of information is accepted.

Default Value

The default value is zero (0).

Configuration Requirements/Restrictions

This CP is a constant (const_flg). It is not to be modified except that it is allowable to modify the value in a download of new code to the device.

SCPT Reference

SCPTobjMinVer (168)

Network Configuration Source (Optional)

```
network input config sd_string("&1,p,0\x80,25")
SNVT_config_src nciNetConfig;
```

All nodes that support self-installation must provide this configuration property to allow a network tool to also install the node.

Valid Range

When a node is self-installed this variable should be set to CFG_LOCAL when the node is manufactured. A variable set to CFG_EXTERNAL signifies that a network tool will assign network addresses for the node.

Default Value

For a self-installed node the default value is CFG_LOCAL.

Configuration Requirements/Restrictions

This CP has no modification restrictions (no_restrictions). It can be modified at any time. If a change is made from External to Local (unlikely), the node will need to be reset.

SCPT Reference

SCPTnwrkcnfg(25)

Announcement Volume (Optional)

```
network input config sd_string("&1,p,0\x80,228")
SNVT_switch nciAnnVolume;
```

This configuration property can be used to adjust the volume of the announcement.

If this property is not implemented, the volume can simply be adjusted by a manual setting.

Valid Range

Value	State	Action
ANY	0	Audio OFF
0	1	Audio OFF
>0	1	Minimum Volume, (0.5% to 100%)
200	1	Maximum Volume, (100%)
ANY	0xFF	Undefined, No Action

Default Value

not defined

Configuration Requirements/Restrictions

This CP has no modification restrictions (no_restrictions). It can be modified at any time.

Direction Volume (Optional)

```
network input config sd_string("&1,p,0\x80,228")
SNVT_switch nciDirVolume;
```

This configuration property can be used to adjust the volume of the direction announcement.

If this property is not implemented, the volume can simply be adjusted by a manual setting.

Valid Range

Value	State	Action
ANY	0	Audio OFF
0	1	Audio OFF
>0	1	Minimum Volume, (0.5% to 100%)
200	1	Maximum Volume, (100%)
ANY	0xFF	Undefined, No Action

Default Value

not defined

Configuration Requirements/Restrictions

This CP has no modification restrictions (no_restrictions). It can be modified at any time.

Key for Unresolved References

p is this Object's index relative to the node `sd_string` declaration, when implemented.

Power-up State

There is no immediate network action on Power-up State.

There will be no indication until an input is received.

Boundary and Error Conditions

None specified.

Additional Considerations

None specified.

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