

Network Management System (NMS V4.2)



A X E Z E

RFID Access Control Products



Overview

The Axeze Network System is a hardware and software package that is used to setup, maintain and monitor an access control system using the Axeze KEN range of products. It uses a distributed processing system where each access point has its own controller which is capable of working completely independently of the host PC and even the network itself (with minor restrictions).

Controllers

There are two type of controller that can be used with this system:

1. The Axeze KEN-OL2 series of controllers which use 80 bit protocol with Axeze readers and
2. The Axeze KEN-OLW series of controllers which use Standard 26 bit Wiegand readers.

Minimum network requirements

Item	Part Number
Controller	KEN-OL2
Reader	AAA-03
Software Suite CD	NMS
RS-232 to RS-485 Converter	ANC-02
Programming Reader	APR
Universal Interface	AUI

Additional items required for installation

Hardware Lock (Dongle)	AHL
Reader Configuration Software	KENCFG

Optional Items

Reader	WPA-04
Card transponder	AT-C
Fob transponder	AT-KF
16 Channel Input/Output unit.	KEN-IO
C-Bus Interface module	ACI
Wristband transponder	WB-06/08
Wiegand Controller	KEN-OLW

Network Topology

Daisy chain

Network Medium

UTP (CAT5) cable

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Network Parameters

Speed	9600 baud (Slew rate limited)
Parity	None
Data Bits	8
Stops Bits	1
Handshaking	None

Network Protocol

Axeze Network Reader Protocol

Number of nodes per Network

1	Network Converter (ANC)
1	Universal Interface (AUI) or C-Bus interface (ACI)
62	Addressable units consisting of Controllers and KEN-IO units

Number of networks 32

Network Support module

The Universal Interface or C-Bus interface will provide essential network management functionality when the NMS software is not running.

Software Features

NMS Updater utility retrieves and installs the latest updates from the Axeze FTP Site.

Automatic Data Recovery

Two backups refreshed every 60 seconds.

TCP/IP Interfaces:

Remote administration. & monitoring - 128 bit encrypted command shell

Interface to 3rd party software - Event notification broadcast

Access Control

Anti-Passback - Validate out before revalidate in

Passback - Delay before revalidation

Readers Access - Group, Individual and Lock held open
All by Day of Week, Public Holiday and/or Time of day

Cards Access - Group, Individual or Reader Access with additional time control

Open immediately - Unlocks door for preset time

Low-level lift control is available as an option.

Floors 48

Lifts up to 992 (8 floors and 32 networks fully dedicated to lift control)

Individual card access may be granted to any combination of floors.

Lobby call and floor enable for visitor access

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Access Control (cont.)

- Zones
- Create zones by any number of entry & exit readers
 - Allows full anti-passback controls on accessing zoned areas
 - Allows events based on first in, last out and anti-passback of zones
 - view occupancy of zones

Network Events that can be handled by KENMON:

Access Request Invalid
Access Request Valid
Door Closed (after door left open or door forced)
Door Forced
Door Left Open
First In
Last Out
Press to Exit
Reader Off-line

Network Events may be used to set/clear/pulse relay outputs in KEN-IO2 units on any network in the system when in on-line mode. In off-line mode Network Events may be used to set/clear relay outputs on the same network only.

Door left open alarm:

This is triggered the second time a door left open is sensed by the software giving tenants time to close a door after the local warning has been triggered without setting a system alarm.

Send Off-line Access Controls:

The sending Off-line Access Controls can be initiated in a number of ways. In general the software will try to prevent a user accidentally turning off the NMS whilst a controller does not have an up to date off-line database. If the software is shut down whilst one or more controllers is not up to date it will prompt the user to update controllers with a "Not up to date" status or to update all controllers. The sending of off-line controls can also be initiated from the menu. Here the user can choose all controllers or just the selected one. NMS maintains an image of the access controls in each controller and only downloads new or changed controls.

Off-line Access

Off-line access rules (1000 per reader)

Day of week
Hour
Minute
Public Holidays

Retrieve Events

Last 1000 off-line events stored in a controller can be up-loaded from readers. These events are tagged in the log to indicate the event occurred off-line.

Automatic logging

Selectable time intervals of 12 hours, 1 day and 7 days

Log Viewer

Open, View, Sort and Export archived logs as Tab delimited text files.

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Defaults

Expiry (Time, Date and/or Year)
Access
Reader
Network

User profile

Name
Address
Phone number
E-mail address
Photograph (optionally display photograph when card badged on-line)
Department
Company
Shift rotation
Activation date
Expiry date
Access Groups
Reader Access
Floor access (for Lift Control version)

Reporting

All database details exportable in comma-delimited files and HTML.
Timesheets created manually and automatically when logs are created.

Password

Service Manager	Full control
Administrator	Full control
Assistant	May issue new cards but not change system settings
Monitor	May monitor activity only
None	Password control turned off

Holidays Can be added in advance to the year 2037

Card Expiry Warning email

Additional Software available

Graphical User Interface KEN-GUI
Used for remote administration using TCP/IP interface.

Time Management Software KEN-TMS
Uses log files for reporting time and attendance information.

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Addition data

See the following datasheets for more detail

Reader/Controller	KEN-OL2
Reader/Controller	KEN-OL-DA
Wiegand Controller	KEN-OLW
Network Converter	ANC-02-TB
Card Transponder	AT-C-01
Disk Transponder	AT-D-01
Key Fob Transponder	AT-KF-01

For more software features refer to:

What's new in NMS 4.2
NMS Operations Manual V4.2

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