NICOR MCU

SPECIFICATION SHEET

Master Control Unit

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NICOR

NICORLIGHTING.COM/**SOLUTIONS/IMS**

MCU — Master Control Unit

Centralized management platform for IMS DALI lighting systems

The MCU (Master Control Unit) is a software application and solution designed to unify and manage IMS lighting control systems across individual floors, entire buildings, campus environments, and enterprise-scale network deployments. With the ability to aggregate multiple systems into a common intelligent network, the MCU provides facility managers with operational visibility, real-time controls, network reporting, and enhanced commissioning capabilities.

Via a centralized network database, the MCU is responsible for capturing data from network controllers, fixtures and luminaires, occupancy sensors, group and zone settings, and user configuration preferences of local override switches. Control devices that are synchronized within the MCU can provide real time reporting, system wide configuration, capability to program and configure individual devices, and offer complete operational visibility from a single interface.

The MCU allows facility managers to consolidate and synchronize multiple IMS controllers into a single network. In doing so, controllers, networks, zones, fixtures, and input devices can be strategically organized via a hierarchy including local rooms and offices, individual floors, and entire buildings within one lighting control interface.

01 · SYSTEM ARCHITECTURE

Centralized System Management

The MCU consolidates multiple IMS controllers into a single management platform. Controllers, networks, zones, fixtures, and input devices can be organized hierarchically by building, floor, or area to simplify large-scale system administration.

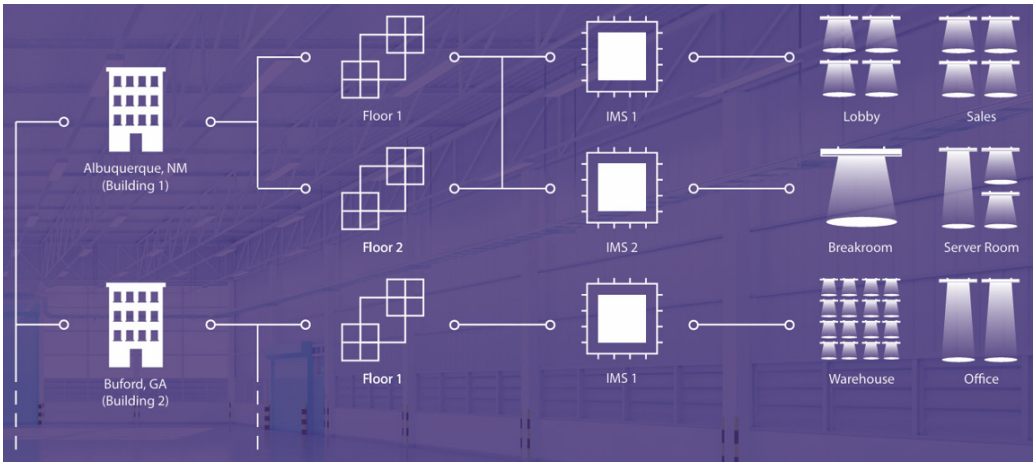


Fig. 1 — Graphical layout view of a commissioned test area

02 · DEVICE COMPATIBILITY

Network Integration, Including DALI Devices

Compatible with a broad range of industry-standard devices:

- DALI-1 and DALI-2 devices
- DALI LED drivers & luminaires
- 0–10V fixtures (with converter)
- Occupancy / motion sensors
- Photosensors
- Push-button & dry-contact inputs
- Relay and plug-load control devices

Supported Features

- Multi-instance DALI-2 devices
- Scene control
- Daylight harvesting
- Occupancy-based control
- Device event monitoring
- Real-time device diagnostics

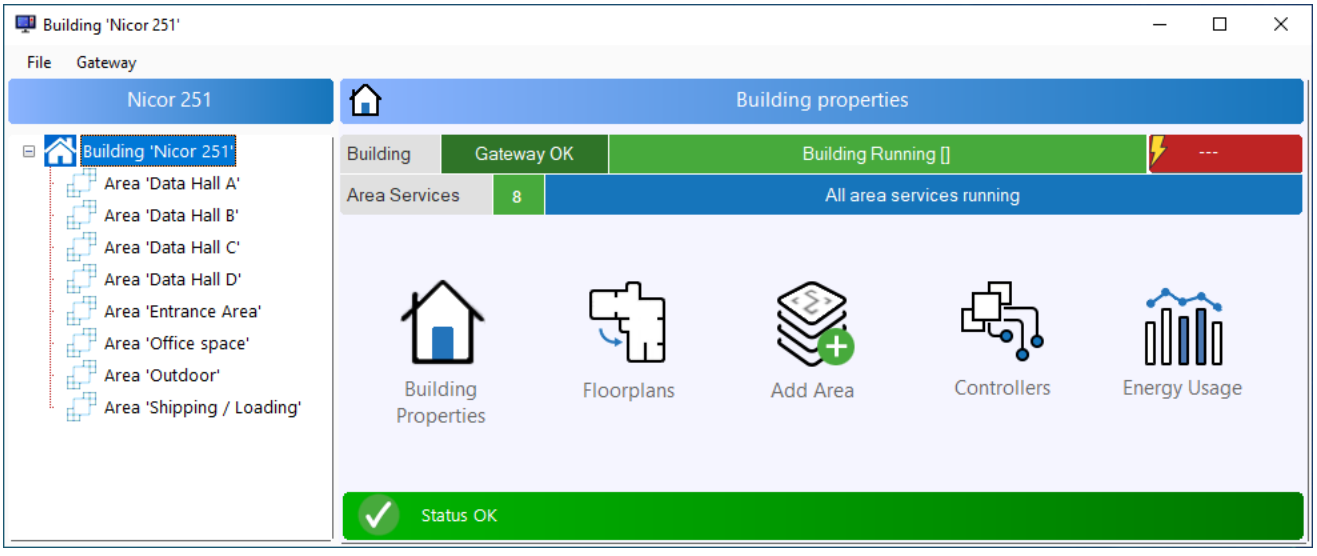


Fig. 2 — Building hierarchy: areas, gateway and services status

03 · USER INTERFACE

Visualization & User Interface

- Drag-and-Drop Graphical Editor
- Digital Floorplan and Layout Drawing import tool – PNG, JPG, PDF
- Live Status of Devices
- Zone and Fixture Control in Real-Time
- Customized Views and Grouping Features
- Direct control for Relay and AC Plug Load Devices

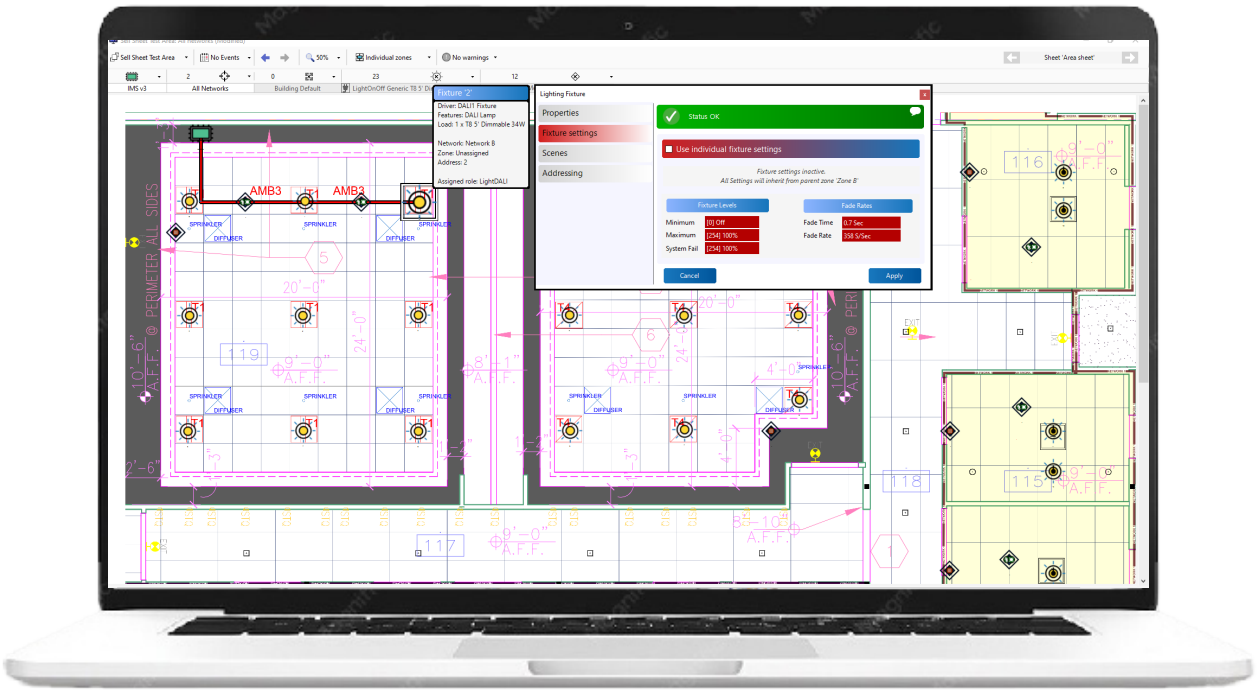


Fig. 3 — Live layout editor with per-fixture setting controls

04 · COMMISSIONING & MAINTENANCE

Commissioning & Maintenance

Commissioning Features

- Automatic device discovery
- Real-time addressing tools
- Physical device identification
- Zone assignment tools
- Sensor validation and testing
- Zone templates for quick setup
- Pre-commissioning of the lighting control system

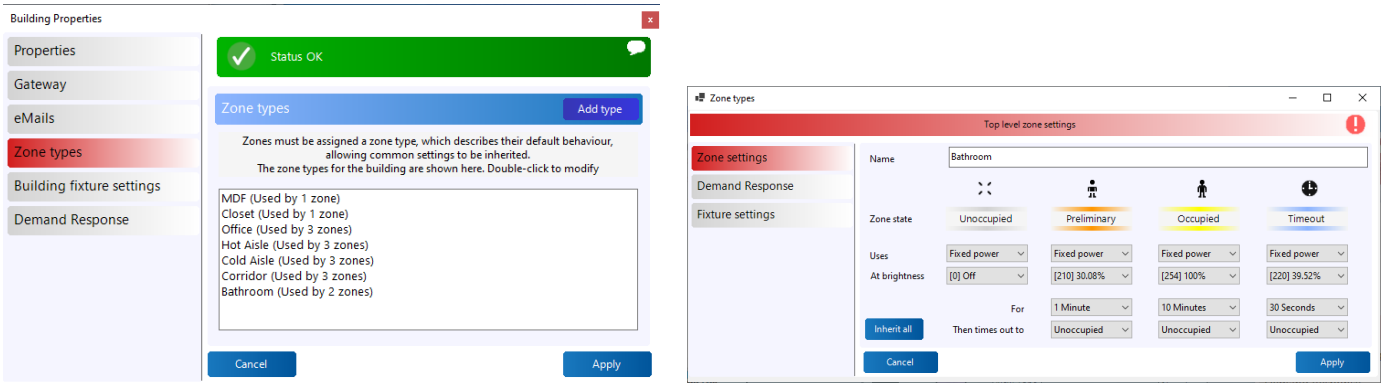


Fig. 4 — Zone type library and inheritable zone-state settings

Maintenance Features

- Real-time diagnostics
- Gateway and system logs
- Device fault reporting
- Email alert notifications*
- Historical activity tracking

*Requires upgraded software license.

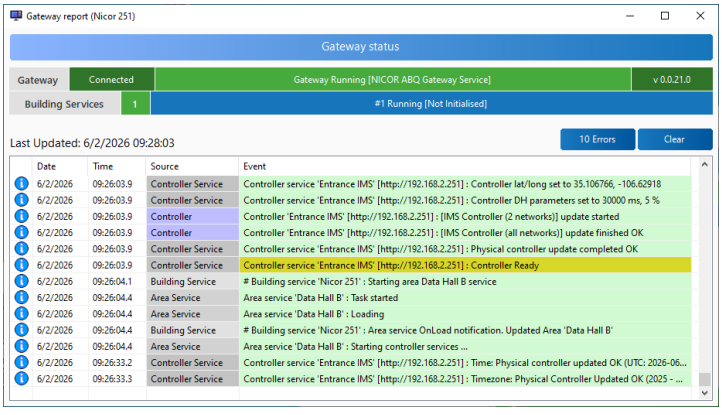


Fig. 5 — Gateway status and event log

06 · AUTOMATION

Scheduling

- Time clock based scheduling
- Sunrise / Sunset scheduling
- Schedule templates
- Daily, weekly, or annual scheduling
- Holiday and special-events scheduling
- Building-wide or zone-based automation
- Priority rankings for overlapping events

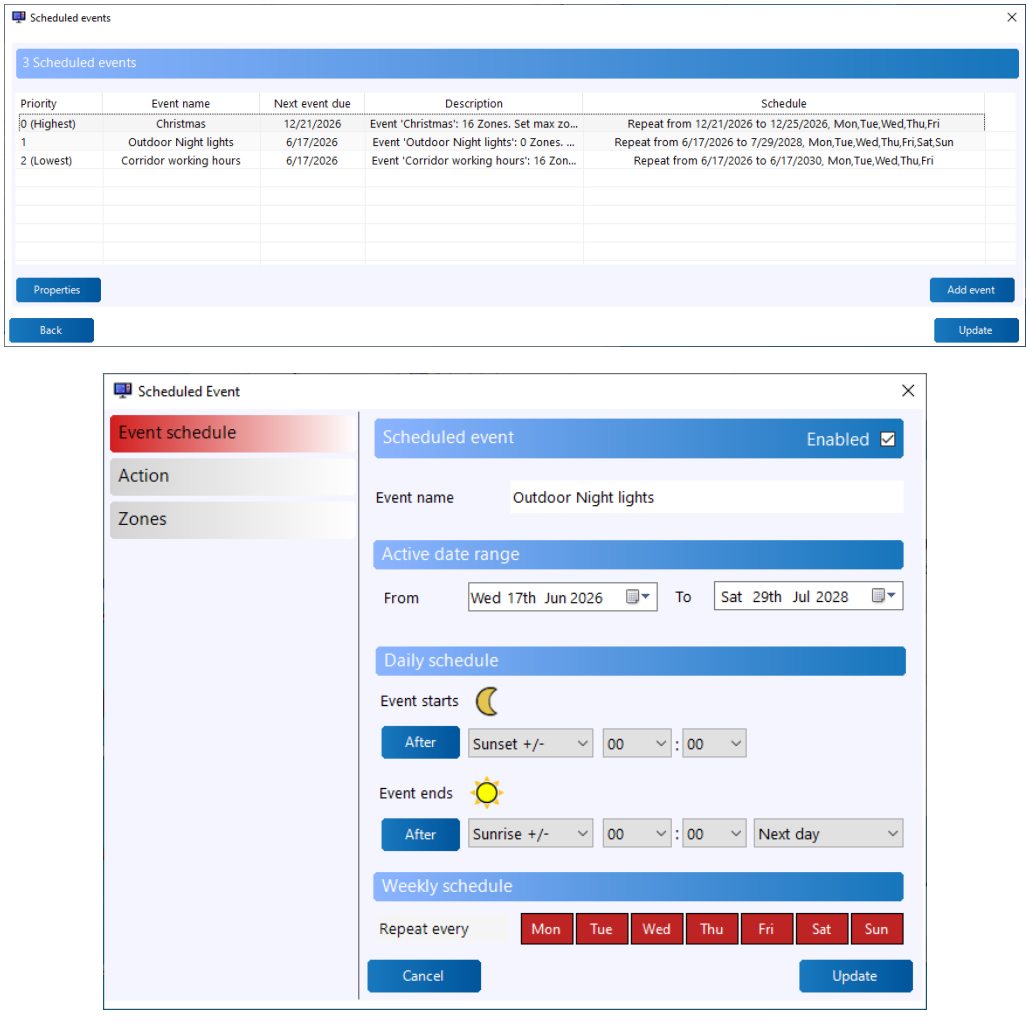


Fig. 6 — Scheduled events list and event editor

07 · BUILDING MANAGEMENT INTEGRATION

- BACnet/IP gateway support (optional, license based)
- Demand response integration (optional, license based)

08 · TECHNICAL SPECIFICATIONS

Technical Specifications

Specification	Details
Supported Protocols	DALI, DALI-2, BACnet/IP
Controller Integration	Multi-controller aggregation
User Interface	Windows-based application
Database	Centralized, real-time database
User Authentication	Role-based access control
Scheduling	Fixed or astronomical
Energy Monitoring	Real-time estimated energy tracking
Logging	System, user, and gateway logging
Deployment	On-premise server
Device Discovery	Automatic
Real-Time Synchronization	Supported
Multi-Tenant Support	Supported
Floorplan Import	Supported
Scene Control	Supported
Daylight Harvesting	Supported
Email Notifications	Supported

09 · SYSTEM REQUIREMENTS

System Requirements

- Ethernet network connectivity
- Installed IMS controllers
- Server or dedicated machine deployment environment

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10 · SUPPORT & SERVICES

Support & Services

- Remote software updates
- Technical support
- Commissioning assistance
- System integration services
- Training and onboarding available

ORDERING INFORMATION Example: **MCU2EUENBNADR**

SERIES	VERSION	OPTION CODE 1	OPTION CODE 2	OPTION CODE 3	OPTION CODE 4
MCU	2	**EU** — Energy Use Dashboard	**EN** — Email Notification	**BN** — BACnet	**ADR** — Automated Demand Response

Build the catalog number by combining the series, version, and selected option codes in order, e.g. **MCU** + **2** + **EU** + **EN** + **BN** + **ADR** = **MCU2EUENBNADR**.

OPTIONAL SERVICES

CODE	SERVICE
VSU	Virtual Software Updates