UCS TECHNICAL FIELD GUIDE

Connected-Building Technology Guide

NiagaraMods Reflow · Neeve AI · Blue Ridge Lighting

— Field-earned, not brochure-deep —

JULY 2026

Prepared for owners, facility teams, consulting engineers, IT/OT teams and project partners

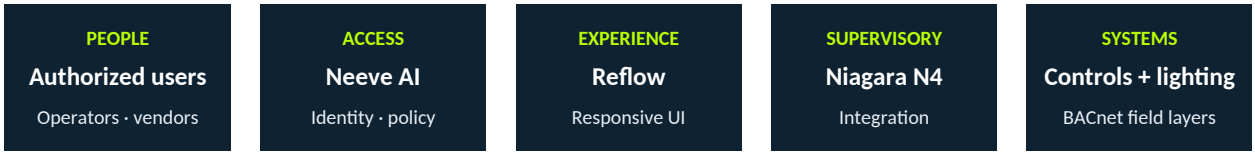
NIAGARA SUPERVISION · OWNER ADVOCACY · SUPPORTABLE FIELD CONTROL

Three different jobs in one connected-building strategy

These products complement one another because they solve different problems. Keeping the roles distinct makes the system easier to secure, commission and support.

TECHNOLOGY	PRIMARY JOB	SITS WHERE	DOES NOT REPLACE
NiagaraMods Reflow	Operator experience	Inside Niagara	Native controller programming
Neeve AI	Secure identity and access	At the OT access boundary	BAS hardening or backups
Blue Ridge M3	Lighting control	BACnet-connected field system	Electrical design or code compliance

Combined conceptual stack



This is a responsibility model, not a literal single-path wiring diagram. Each project's security and network design must be developed with the owner's IT/OT stakeholders.

UCS DEPLOYMENT STANDARD

UCS purchases an appropriate NiagaraMods Reflow project license for each Reflow deployment. Graphics are organized around equipment, operator decisions and service workflows—not decoration.

NiagaraMods Reflow

UCS partner and standard Niagara operator interface.

Conceptual role in the architecture

PEOPLE	EXPERIENCE	PLATFORM	INTEGRATION	FIELD
Operators	**Reflow**	**Niagara N4**	**Drivers**	**Controllers**
Desktop · mobile	Dashboards · views	Security · station	BACnet · systems	Equipment

Current published requirements identify Niagara N4.6+; confirm the exact Reflow and Niagara versions at project start.

Value and boundaries

WHERE IT IS STRONG

- Responsive operator experience across desktop and mobile.
- Equipment views, histories, alarms, schedules and point actions.
- Runs inside the owner's Niagara strategy.
- Licensed project-by-project by UCS.

DESIGN CONSIDERATIONS

- Good graphics still depend on correct points, tags, sequences and naming.
- Native controller engineering remains outside Reflow.
- Version compatibility must be confirmed before upgrades.
- Operator workflow needs discovery; a template alone is not a finished user experience.

ROLE CLARITY

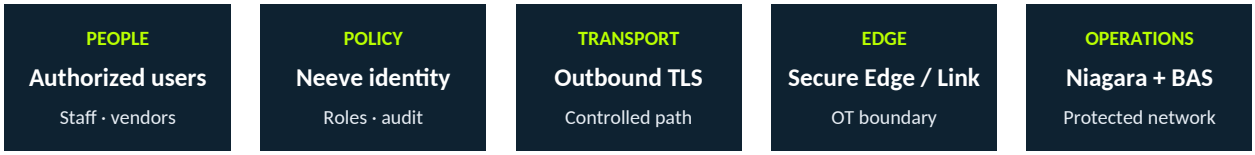
Reflow is the experience layer. Niagara remains the supervisory platform, and native controller tools remain responsible for field logic.

Manufacturer references: niagaramodules.com/products/reflow and /products/reflow/tech-specs

Neeve AI

Zero-trust identity, policy and secure-edge access around the operational-technology network.

Conceptual role in the architecture



Inline, behind or controlled-path placements create a stronger enforcement point than a device installed merely beside a controls network.

Value and boundaries

WHERE IT IS STRONG

- OT-focused zero-trust access model.
- Central identity, policy and audit context.
- Can reduce broad VPN exposure.
- Supports governed multi-site remote service.

DESIGN CONSIDERATIONS

- Requires early IT routing and identity coordination.
- Architecture must prevent bypass of the secure path.
- Outbound connectivity and recurring service are operating dependencies.
- Does not replace Niagara hardening, backups or network segmentation.

ROLE CLARITY

Neeve governs who and what may reach the OT environment. Niagara and Reflow still operate the building.

Manufacturer references: neeve.ai; docs.neeve.ai/docs/deployment-architecture; neeve.ai/product-selector

Blue Ridge Lighting Solutions

Blue Ridge Technologies M3 lighting control integrated with Niagara through native BACnet.

Conceptual role in the architecture

PEOPLE	EXPERIENCE	SUPERVISORY	LIGHTING	FIELD
Facility teams	**Reflow**	**Niagara N4**	**Blue Ridge M3**	**CANbus I/O**
Shared operations	Useful lighting views	Schedules · context	BACnet control	Sensors · loads

Final architecture must meet electrical code, listing requirements, emergency-lighting rules and the defined electrical/BAS division of work.

Value and boundaries

WHERE IT IS STRONG

- Native BACnet integration.
- Modular M3 architecture.
- Can coordinate schedules and occupancy with HVAC.
- Retrofit options can reduce disruption.

DESIGN CONSIDERATIONS

- Electrical, lighting and BAS scope boundaries must be explicit.
- Expose only points that support an owner workflow.
- Commission local lighting and supervisory integration together.
- Life-safety, UL and energy-code needs remain project-specific.

ROLE CLARITY

Blue Ridge owns purpose-built lighting control. Niagara provides cross-system context and selected supervisory workflows; it does not replace the electrical design.

Manufacturer references: brtint.com/m3_platform and BRT M3 Platform Data Sheet (2024)

Commissioning and ownership checklist

- Name the system of record for schedules, occupancy commands and alarm acknowledgement.
- Define who owns Niagara, Reflow, Neeve and Blue Ridge licenses and renewal decisions.
- Deliver native source files, station backups, graphics resources, certificates and recovery instructions.
- Test remote access from outside the owner network using the approved identity path.
- Verify local equipment and lighting operation when the supervisory or internet connection is unavailable.
- Document point naming, tags, network addressing, firewall rules and support contacts.
- Train operators on normal use, exception response and who to call before bypassing a security control.

Responsibility prompts

USE CASE	FIT	FIELD NOTE
Operator UI	**UCS / Reflow scope**	Define pages, actions, trends, alarms and mobile workflows.
Remote access	**Owner IT + UCS + Neeve**	Define identity, approval, routing, logs and break-glass access.
Lighting	**Electrical + lighting + UCS**	Define sequences, local control, BACnet points and commissioning.

Disclaimer: This document is a conceptual planning aid, not a stamped network, electrical, cybersecurity or controls design. Final architecture must be engineered for the specific project and approved by the owner and responsible design professionals.