

Roadmap Explained

MOTORIZATION IN PLAIN ENGLISH

A roadmap is the route from a fabric and track specification to a motor that behaves correctly when the customer presses a Lutron button. Motor power, control signals and track mechanics are separate parts of that route.

1**Drapery and track**

We establish weight, length, shape, stacking and the right motor.

2**Lutron and interface**

The integrator confirms the Lutron system and selects a supported device that can send the required commands.

3**Motor behavior**

The correct input wiring and stop logic turn those commands into movement.

4**Testing and handover**

A representative sample proves the route before the full installation is specified.

Forest offers dry-contact and compatible serial routes. Heavy-duty direct drive offers a route to larger drapery loads and particular curved layouts, subject to engineering and sample testing.

Signals and wiring terms

TECHNICAL INTEGRATION ROADMAP

Term	Plain-language meaning
Dry contact	An isolated switch closure. It tells the motor what to do; it does not power the motor.
NO / NC	Normally open / normally closed: the contact's resting state before an output changes.
Common	The shared return connection for the control signals. It is not automatically mains neutral or earth.
CCI / CCO	Contact-closure input receives a switch action. Contact-closure output sends one.
Pulse / continuous	A brief command versus a command held while movement is needed.
Pinout	The exact job of each connector terminal. Plug appearance alone does not identify the wiring.
Stop logic	The specific contact action the motor needs to stop. Forest and heavy-duty 475 differ.
QS link	Lutron's system communication / power link; separate from a Forest RS485 motor bus.

Electrical ratings, physical connector orientation and interface setup belong in the technical roadmap and matching original source sheet.

Serial, scenes and feedback

TECHNICAL INTEGRATION ROADMAP

Term	What it means for the project
RS485	A wired serial communication method. Commands are messages rather than simple switch closures.
Address	A motor's individual name on a serial bus; unique addresses allow individual control and queries.
Gateway / controller	A device programmed to translate between control systems and the motor's command language.
Scene	A stored or programmed action such as opening curtains for a presentation.
Feedback	A reply telling the controller a position or status. A sent command alone does not confirm that the curtain moved.
RF / wireless	Radio commands. An RF bridge is an alternative route to verify, not automatic Lutron pairing.
Commissioning	Setting limits, validating wiring / timing and proving the final behavior.
Bench test	Testing a sample motor, track and interface together before the site installation.

With Forest serial position values, 00 means closed and 99 means open in the supplied reference. Dry-contact control does not itself provide that position reply.

Track geometry and responsibilities

TECHNICAL INTEGRATION ROADMAP

Item	Why it matters
Hanging weight	The actual fabric / lining / heading load carried by the track.
Span / draw	Track length and whether the fabric draws to one side or from the center.
Radius / bend	The curve's size and shape. More demanding layouts can reduce permitted loads.
Stacking	Space occupied by the curtain when open; it affects clear opening and track layout.
Double track	Two parallel drapery paths requiring checked spacing, motor placement and clearance.
Plumridge	Specify fabrication, heading, track geometry, weights, stacking and the sample hardware.
Lutron integrator	Confirm system and interface compatibility; program outputs / scenes and validate motor behavior.
Shared sign-off	Agree the sample test and retain the final approved drawings and command schedule.

For Roman shades, Plumridge can fabricate the shade around the specified Lutron Roman shade kit after the exact kit, dimensions, lift layout and fabric requirements are confirmed. Roller shade kits likewise require the correct tube / drive and finished specification.