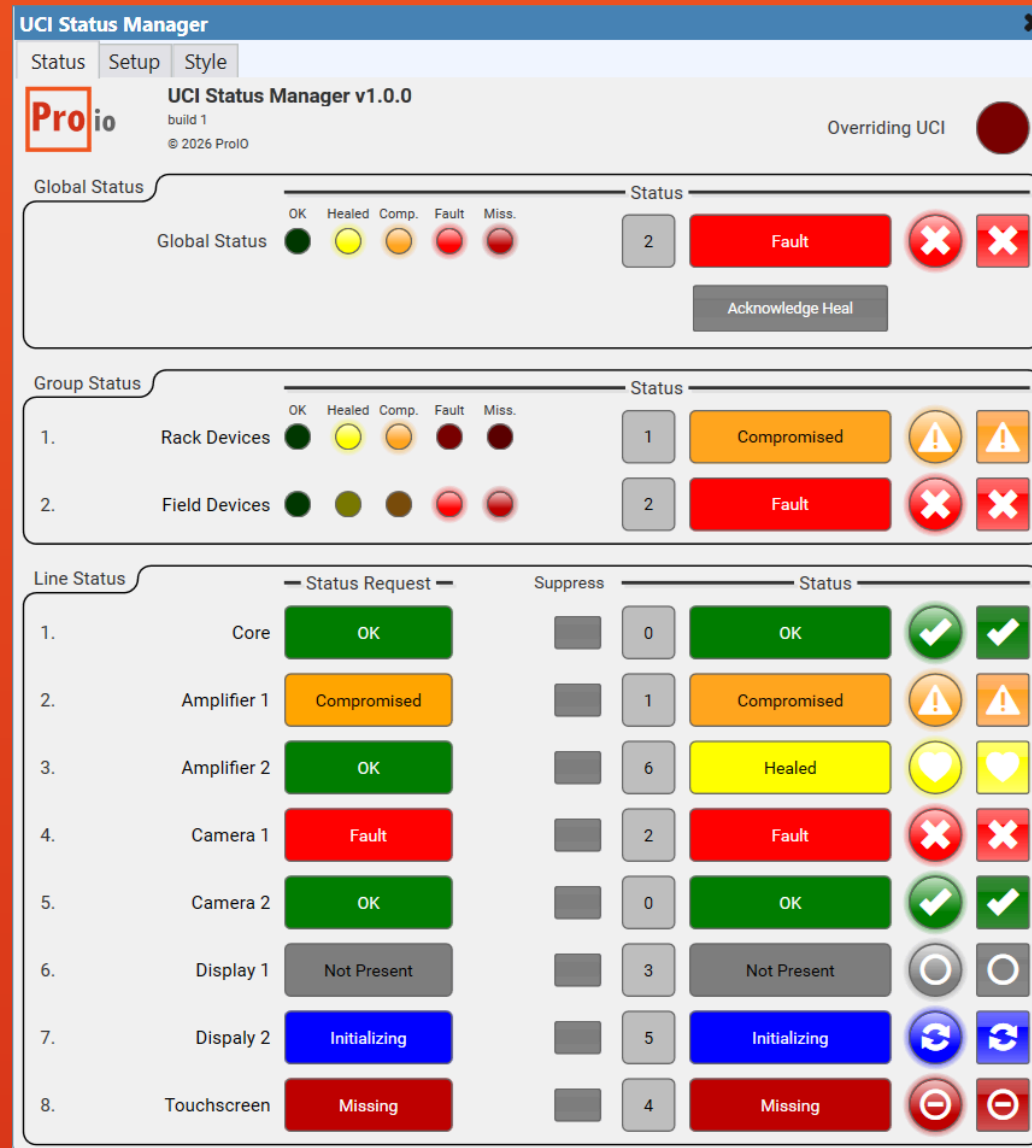






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Introduction

UCI Status Manager is a status aggregation and UCI indicator translation plugin for Q-SYS. It collects status reports from any number of individual lines (inputs, devices, feeds, etc.), rolls them up into optional Groups, and produces an overall Global status, all using a consistent, prioritized status model. All status indications for each input, group, and global status are translated into customizable icons with optional text to improve accessibility for users with color differential deficiency and to increase readability at a glance.

The plugin supports optional "latching" on a per-line, per-status basis: when a line recovers from a Compromised, Fault, Not Present, or Missing state, it can be held in a distinct Healed state until an operator manually acknowledges it, ensuring intermittent faults aren't silently missed. A Global Override mode allows any line, group, or the system as a whole to be manually forced to a specific displayed status regardless of its actual reported state. Full color and icon customization is available for every status level, and every indicator is designed to be dropped directly onto a UCI for at-a-glance operator visibility.



Features

Prioritized Status Aggregation

Group and Global statuses are automatically calculated from their member lines using a fixed worst-status-wins priority, so a single fault is never masked by healthy neighbors.

Optional Group Rollup

Lines can be assigned to a Group via a per-line combo box, and each Group's status is rolled up independently of the Global status.

Healed-State Latching

Latching can be enabled individually for the Compromised, Fault, Not Present, and Missing statuses on a per-line basis. A latched line that recovers is held at a distinct "Healed" indication until acknowledged, rather than silently reverting to OK.

Manual Acknowledge

A single button clears all outstanding Healed flags across every line, returning each one to its currently requested status.

Global Override Mode

Any line, group, or the global status can be assigned an override value that displays instead of the evaluated status whenever override mode is active. Useful for demos, commissioning, or temporarily silencing a known issue.

Full Visual Customization

Each of the seven status levels (OK, Compromised, Fault, Not Present, Missing, Initializing, Healed) has independently configurable color (RGB or hex), icon, legend text, and visibility.

UCI-Ready Indicators

Status LEDs, buttons, and text controls are provided for lines, groups, and the global status, ready to be placed directly on a User Control Interface.



Control Capabilities

Line Status Inputs

Each line accepts a requested status value from anywhere in the design — typically wired from a device's health/fault feedback — and evaluates it against the latching and override rules.

Line Grouping

Each line can optionally be assigned to a numbered Group via a combo box, which determines which Group status it contributes to.

Named Overrides

Any line, group, or the global status can be given an override status string that takes effect while Global Override is active.

Status Indicators

LED and button controls are provided per line, per group, and globally, each showing the current color, icon, and text legend for that status level.

Acknowledge and Override Buttons

Dedicated buttons allow an operator to acknowledge healed lines or toggle override mode from a UCI.



Properties

Indicators

Sets the number of individual line indicators the plugin manages. This should match the number of devices or feeds being monitored.

Groups

Sets the number of Groups available for lines to be assigned to. Lines not assigned to a group do not contribute to any Group status, only to the Global status.



Controls

Status Page

This page is read-only and shows live status at a glance. Each row also displays a raw numeric status code (0–6) in its own field, positioned between the health LEDs and the status text. This applies to Global, Group, and Line rows alike.

Global Status

A single row showing the system-wide status: a text readout, a status button, and four individual health LEDs (OK, Healed, Compromised, Fault).

Group Status

For each Group: a text readout, a status button, and the same four health LEDs (OK, Healed, Compromised, Fault), plus the Group's label.
Note: one row per Group, if any Groups are configured.

Line Status

For each Line: its label, its current status request, a status text readout, a status LED, and a status button. Note: one row per Line.

Setup Page

This page is where labels, grouping, latching, and overrides are configured.

Global Setup

- **Acknowledge Heal button:** clears every outstanding Healed indication across all lines.
- **Enable Override toggle:** turns Global Override on or off.
- **Global Override dropdown:** sets the status to display globally while override is active.

Group Setup

- **Label:** names the group.
- **Override dropdown:** sets the status to display for that group while override is active.



Controls

Line Setup

- **Label:** names the line.
- **Group:** assigns the line to a Group.
- **Latch Healed After:** **Compromised / Fault / Not Present / Missing:** four toggles controlling which recovered statuses should hold at "Healed" until acknowledged.
- **Override dropdown:** sets the status to display for that line while override is active.

Style Page

This page controls the appearance of each of the seven status levels (OK, Compromised, Fault, Not Present, Missing, Initializing, Healed). For each status level:

- **Color:** Hex field plus Red/Green/Blue sliders, and a Reset button to restore the factory color.
- **Options:** Hide toggle (whether that status is shown at all).
- **Icon:** a dropdown of built-in icons, or a Custom SVG field to supply your own.
- **Legend:** the text label shown for that status.
- **Preview:** a live LED showing exactly how that status will appear once configured.

About Page

Displays plugin information (currently a placeholder page with no additional controls).

Header

- Plugin name and version/build number.
- **Overriding UCI indicator:** lights up whenever Global Override is active, visible regardless of which page is open.



Getting Started

Sizing the Plugin

1. In the plugin's Properties, set Indicators to the number of lines you need to monitor.
2. Set Groups to the number of groups you want available, or leave it at zero if you don't need grouping.

Naming Your Lines and Groups

1. Go to the Setup page.
2. Under Line Setup, give each line a Label so it's identifiable at a glance.
3. If you're using Groups, do the same under Group Setup.

Wiring Line Inputs

1. Wire each device or feed's health feedback into the corresponding line's status request control.
2. Confirm the values map correctly to the six status levels: OK, Compromised, Fault, Not Present, Missing, and Initializing.

Assigning Lines to Groups

1. On the Setup page, under Line Setup, use each line's Group dropdown to assign it to a Group.
2. Leave a line's Group set to blank if it should only contribute to the Global status.

Configuring Latching

1. Under Line Setup, for any line where an intermittent fault should stay visible until acknowledged, enable the appropriate Latch Healed After toggle (Compromised, Fault, Not Present, and/or Missing).
2. Use the Acknowledge Heal button on the Setup page whenever you're ready to clear outstanding healed indications.

Setting Up Overrides

1. On the Setup page, set an Override value for any line, group, or the global status.
2. Use the Enable Override toggle to turn override mode on or off. The header's Overriding UCI indicator will confirm when it's active, from any page.



Getting Started

Customizing Appearance

1. Go to the Style page.
2. For each status level, set its color using the Hex field or the Red/Green/Blue sliders — or click Reset to restore the factory color.
3. Choose an icon from the dropdown, or select Custom and supply your own SVG.
4. Set the Legend text, and toggle Hide as needed.
5. Use the Preview LED next to each row to confirm how the status will actually look.

Monitoring Live Status

1. Go to the Status page to see live readouts for the global system, each group, and each line — all in one place.



Changelog

v1.0.0 – October 25, 2026

Original release