

CASE STUDY • Delta Controls + Hyatt Hotels

Hyatt Graphics Legacy Interface Reimagined

HYATT

How Partners can Leverage PDS for legacy graphics modernization

Project Background

Power Engineering Solutions (PES), a trusted Delta Controls Partner, was asked to modernize the graphics interface for a Hyatt hotel operating on Delta's legacy graphics platform. Rather than take on the technical lift in-house, PES turned to Delta Controls' Professional Development Services (PDS) Graphics Division to execute the upgrade on their behalf.

This approach allowed PES to preserve their direct relationship with the customer while delivering a high-quality result backed by the Delta Controls brand. From the client's perspective, PES provided a seamless, professional experience along with the desired modernized graphics solution.



Objectives

- Replace outdated OrcaView graphics with intuitive enteliVIZ screens.
- Eliminate the need for client-side software by shifting to web-based graphics through enteliWEB.
- Preserve all critical system behaviors, including data points, alarms, and navigation logic.
- Minimize disruption by performing a live, behind-the-scenes transition.
- Maintain partner visibility by enabling PES to remain the primary point of contact.

Execution Strategy

Delta PDS handled the technical piece of the project from start to finish using secure remote access and the site's original project files to rebuild all graphics in enteliVIZ. The PDS team leveraged its vast and vetted internal graphic template library to efficiently replicate the functionality of the original system while improving visual clarity and responsiveness.

All design, testing, and validation were completed without disrupting hotel operations. This remote workflow ensured both speed and system stability, delivering a polished result without burdening the partner or the client.

Hyatt Main Directory

Air Handlers
Air Handler Units

Central Plant
Central Plant

Boiler Plant
North Tower Exhaust

Exhaust Fans
North Tower Exhaust

Chicago River

Photo: Redmond

[illegible]

The screenshot displays a comprehensive industrial control system (ICS) interface for a water treatment plant. The interface is organized into several key functional areas:

- Cooling Tower:** This section on the left provides real-time monitoring of two cooling towers. It includes data for 'Outside Air' (62.2 °F), 'Lead Tower' (56.7 %), and 'Tower 2' (58.2 %). Below this, the status of 'Chiller 1 System' and 'Chiller 2 System' is shown, with temperatures ranging from 74.6 °F to 73.2 °F. Each chiller has associated status, command, and alarm indicators.
- Plant Mode:** This central-top area displays 'Thermal Storage Status' and 'Calculated Tonnage' (0.0 Tons). It also includes a 'Thermal Mode' section.
- Valves:** A central section dedicated to 11 valves. Each valve entry shows its status (e.g., 'Valve 11 Status: In Hand'), command, and alarm. The interface uses color-coding: green for normal, yellow for alarm, and red for critical status.
- Pumps:** The right side of the interface features controls for five pumps. Each pump entry displays status, command, speed, and water level. For example, 'Pump 5' shows a status of 'In Hand' and a speed of 58.0 %.
- Scheduling:** A 'SCHEDULE' section is present, including a 'Tank Setpoint' and a 'SCHEDULE Tank Setpoint' table. The table lists various setpoints and their corresponding values.
- Navigation:** At the bottom, a navigation bar includes a 'Main Menu' button, a 'Previous' button, and a 'Reopen Page' button.

The interface is designed for real-time monitoring and control, with a clear visual hierarchy and color-coded alerts to ensure operators can quickly identify and respond to system changes or faults.

The screenshot displays the Honeywell Forge HMI interface for a building's HVAC system. The central 3D schematic shows an air handling unit with a fan, coils, and dampers. Surrounding the schematic are several data panels:

- Outside Air Panel (Top Left):**
 - Temperature: 65.5 °F
 - Humidity: 38.3 %
- Return Air Panel (Bottom Left):**
 - Status: Command 100.0
 - In Hand
 - Return Damper:
 - Status: Command
 - In Hand
 - Return Air:
 - Temperature: 70.3 °F
 - Humidity: 50.0 %
- Supply Air Panel (Right):**
 - Supply Fan:
 - Status: Command
 - Fan Speed: 91.1 %
 - In Hand
 - Chilled Water:
 - Command: 40.1 %
 - In Hand
 - Supply air:
 - Temperature: 63.2 °F
 - Static Pressure: 1.2 inH₂O
- Setpoints Panel (Bottom Center):**
 - Supply Static SP: 1.2 inH₂O
 - Return Temp: 70.0 °F
 - Supply Air max: 63.0 °F
 - Supply air min: 61.0 °F
 - Supply air max: 64.0 °F
- Legend (Bottom Left):**
 - 0 Actual
 - 0 Command
 - 0 Setpoint
- Navigation and Status (Bottom):**
 - Buttons: Previous, Schedule, Multi-Trend, TrendLogs
 - System Status: Air Handler - Schedule Required, Economizer Mode
 - Additional Panels: Supply temp, Supply SP, Supply fan

The screenshot shows the Hyatt Regency website's search results for 'Hyatt Regency, Seattle, WA'. The search bar at the top shows the query and filters for 'Seattle, WA' and '10/10/2019 - 10/11/2019'. Below the search bar, a list of hotels is displayed, including the Hyatt Regency Seattle, which is highlighted. The hotel details for the Hyatt Regency Seattle are shown, including the address '1400 6th Avenue, Seattle, WA 98101' and the phone number '(206) 464-1234'. The website also features a 'Book Now' button and a 'View Details' link.

The screenshot displays the Hyatt Regency software interface, which is a complex piping and control system diagram. The interface is divided into several sections:

- Top Left:** Contains the 'Hyatt Regency' logo and the text 'Control Room'.
- Left Sidebar:** A vertical menu with various navigation options, including 'Control Room', 'Piping', 'Equipment', 'Reports', and 'System'. The 'Control Room' option is currently selected.
- Main Display Area:** A large, detailed schematic of a process unit. It features numerous tanks, pumps, and control valves, all interconnected by a network of pipes. The diagram is color-coded (blue, green, yellow, red) to represent different components or states. Various data points, status indicators, and control parameters are displayed throughout the diagram.
- Right Panel:** A vertical column of control parameters and status indicators. It includes sections for 'Status', 'Control', and 'Alarm'. The 'Status' section shows 'ON' or 'OFF' for various components. The 'Control' section shows 'ON' or 'OFF' for various components. The 'Alarm' section shows 'ON' or 'OFF' for various components.
- Bottom Panel:** A horizontal row of control parameters and status indicators, similar to the right panel, showing 'ON' or 'OFF' for various components.

The diagram illustrates a complex industrial process, likely related to water treatment or chemical processing, with multiple tanks, pumps, and control valves. The interface is designed to allow operators to monitor and control the system in real-time.

Outside Air Damper

Status	0.0%
Temperature	0.0°F
Control	0.0%

Return Air Damper

Status	0.0%
Temperature	0.0°F
Control	0.0%

Supply Fan

Status	ON
Temperature	0.0°F
Control	ON
Run Speed	0.0%
Lock Scale	ON

Outside Air Temp

Status	0.0%
Temperature	0.0°F
Control	0.0%

Supply Air Temp

Status	0.0%
Temperature	0.0°F
Control	0.0%

Return Air Temp

Status	0.0%
Temperature	0.0°F
Control	0.0%

Additional Information

AFU Required	ON
Exhaustion Mode	ON
AFU Schedule	ON
AFU Main Trend	ON

Settings

Supply Temp	0.0°F
Return Temp	0.0°F
Calculated Supply	0.0°F
Supply Air Flow	0.0%
Supply Air Flow	0.0%

Air Handling Unit enteliVIZ

Results

- Partner Enablement: PES delivered a high-value service without needing to build their own internal graphics team.
- Modern Interface: Enhanced navigation and operator experience through clean, responsive enteliVIZ graphics.
- Zero Downtime: Entire upgrade performed with no impact to hotel operations.
- Efficient Turnaround: Completed in approximately 70 hours over a four-week timeline.
- Portfolio Expansion: Success led to repeat engagements across additional Hyatt locations.

Deliverables

- Redesigned enteliVIZ graphics for AHUs, VAVs, FCUs, and system navigation.
- Branded layouts and screens tailored to Hyatt property aesthetic.
- Post-deployment support for minor adjustments and punch list item.

Conclusion

This project highlights how Delta Controls PDS empowers partners to deliver sophisticated modernization projects without increasing internal workload. Through refined workflows, prebuilt templates, and remote execution, PDS enables seamless graphics upgrades that preserve system integrity and improve the user experience.

For partners like PES, it's a scalable model. For clients like Hyatt, it's a frictionless path to system modernization.



About PDS

Professional Development Services is a key strategic initiative for the Delta Controls family. Along with the integration tools and platforms, Delta Partners no longer have to say no when a client needs to differentiate themselves. We dare our end users to think differently and not compromise with off-the-shelf solutions.

Work with the experts

The Professional Development Services team is comprised of a diverse group of individuals, each with their own expertise. We have the skills required from graphics design and system integration to low level programming. Each Engineering Service Specialist has direct access to the designers and developers within Delta – enabling them to go right to the source of the system.

Leverage our experience

Since its inception, PDS has worked with the Delta partnership to complete many projects, large and small. Whether you are looking for some assistance with a new product you have not used before, or just need a hand getting some last minute work completed on schedule, Professional Development Services is the solution.

pds.deltacontrols.com

About Delta Intelligent Building Technologies

At the forefront of building automation systems, Delta Intelligent Building Technologies provides global solutions through its network of Partners in 80+ countries. Focusing on innovation and sustainability has made the company industry leaders for over 40 years.

Delta Intelligent Building Technologies manufactures all products in Metro Vancouver, Canada, offering dependable, user-friendly control solutions for buildings in the commercial, healthcare, hospitality, education, and leisure markets. As part of Delta Electronics, Delta Intelligent Building Technologies is committed to leading building automation into a sustainable future.

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