Next Gen HMI

Next Gen HMI is CCC's advanced web-based interface for managing turbomachinery, offering a user-friendly experience for operators and engineers. Built on HTML5 and MQTT, it ensures seamless connectivity and intuitive control.

Overview

Feedback

Empowering the Connected World with Advanced Turbomachinery HMI

Overview

With the shifting workforce demographics and workstyles, having an intuitive and easily accessible HMI is more important than ever. Next Gen HMI is built on HTML5 and MQTT technologies to simplify the aggregation, visualization, and analysis of data coming from multiple turbomachinery control systems – enabling you to have a centralized view of critical turbomachinery operations.

What Is It

Next Gen HMI is CCC's advanced Human Machine Interface solution, empowering operators and engineers with a user-friendly interface for managing turbomachinery processes. It is a web-based system built on HTML5 and MQTT technologies, ensuring seamless connectivity and intuitive control.

How Does It Work?

The software utilizes lightweight MQTT protocol as the backbone of bi-directional data exchange between multiple controllers and the HMI. Any data received through MQTT is immediately historized and distributed through REST API for its clients to consume. The user interface is built in HTML5 with no requirement to install any desktop client applications – simply open the URL, as easy as that. The HMI provides many advanced features for users including whole HMI data playback, light/dark theme toggles, embeddable widgets, in-browser editing, role-based access controls, and two-factor authentication. All the while support for Docker containerization allows for more seamless software updates and expansions in the future.

What Problems Does It Solve?

- Improves User Experience: The intuitive and customizable interface enhances the ease of use, allowing operators to interact more effectively with control systems.

- Reduces Training Time: The user-friendly design and customizable features reduce the learning curve for new operators, resulting in shorter training times and faster onboarding.

- Reduces Process Downtime: Better alarm management and whole HMI playback allows operators and engineers to collaborate in detecting and responding to anomalies – leading to reduced time to resolution.

For more details and CCC support, please contact: Al Mukhtar Energy Division; Email: energy@almukhtarqatar.com, Tel: 44552583 Extn: 255
Mr. Althaf Rahiman, Customer Support Engineer, Email: althaf@almukhtarqatar.com, Mob: (+974) 39911922, Tel: 44552583 Extn: 320
Mr. Muhammed Shuaib, Energy Division Manager, Email: shuaib@almukhtarqatar.com, Mob: (+974) 66144027, Tel: 44552583 Extn: 253