



Cumulus
DIGITAL SYSTEMS



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Ocyan Partners With Cumulus To Accelerate Digital Transformation at Petrochemicals Facility

The Challenge

Ocyan, an industry-leading provider of solutions for the offshore oil and gas industry in Brazil and abroad, selected Cumulus for an initial digitization project at a leading petrochemicals facility. An avid proponent for the use of technology to streamline manual work, Ocyan wanted to implement a digital system to track work quality, adherence to procedures, and overall progress.

Historically, industrial facilities have been reliant on physical paperwork to document work completions. This can lead to a lack of visibility into the work being completed. Ocyan decided to surpass this obstacle by implementing a digital system during an outage at a customer's facility, a large petrochemical complex located in Camacari, Bahia. Their goal was to improve work quality, productivity, and—most importantly—safety for workers and the environment.

The Solution

Partnering with Cumulus, Ocyan implemented a digital system to track and manage work completions. The system created a real-time connection between field and office teams in three steps:

1

Connect. Ocyan converted their standard operating procedures into digital workflows, connected to a digital tool suite, then used the Cumulus mobile app to guide workers with step-by-step instructions.

2

Collect. Using wireless Bluetooth-enabled tools, Ocyan was able to collect real-time field data to verify work quality and progress, detect any over torques. Digital checklists and photographic evidence were captured from the field using tablet computers.

3

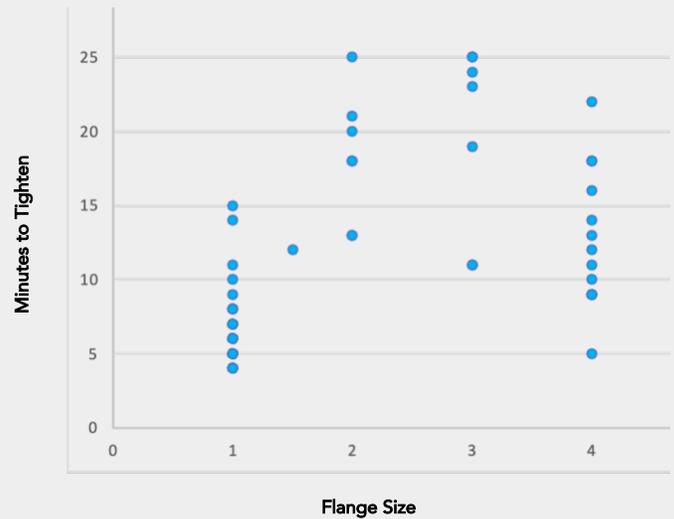
Confirm. Using the Cumulus Control Center a cloud-based web application, Ocyan can verify that work was done correctly, then automatically generate digital work completions and securely store them on the cloud.

The Results

Ocyan leveraged Cumulus technology to connect offline work with the online world, allowing them to digitally track detailed work data, such as tightening time by flange size.

This increased productivity and transparency.

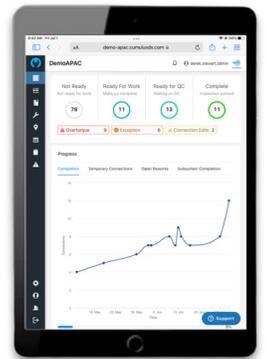
Minutes to Tighten By Flange Size



Granular-level tracking was successfully enabled at the petrochemical facility.

Using Cumulus technology, Ocyan was able to track the following data points for each work completion and then generate a digital report without ever having to use paper:

- ✔ Complete Flange Specifications
- ✔ Minutes to Tighten
- ✔ Target vs. Achieved Torque
- ✔ Tool Calibration
- ✔ Checklists and measurements
- ✔ Photographic Work Evidence



Additionally, each connection was verified by a QC engineer, which was captured and validated via a digital checklist configured to the site's specific flange management procedures.

The questionnaire captured data points such as:



Are the flange faces free from damage and gouging?



Do you have the correct gasket as indicated on the drawing?



Are the studs and nuts lubricated with the proper lubricant?



Was the correct gasket installed?

Partnering with Cumulus, Ocyan was able to save an average of 2-4 hours per joint on paperwork, while empowering the facility with greater work transparency, accountability and productivity.