

# Controlling Engineering Information Across a 40-Year LNG Asset Lifecycle

## Executive Summary

Large LNG capital projects depend on accurate, controlled engineering information throughout construction, handover and operations. A consortium developing a major LNG export terminal needed a secure and controlled environment to manage engineering and operational information throughout the asset's 40-year lifecycle.

Assai DMS provided a single controlled environment for engineering and operational information, giving project teams secure access, complete traceability and consistent information control throughout the asset lifecycle. The platform also established a strong foundation for future Digital Twin initiatives.

## The Challenge

Managing multiple production sites required engineers and maintenance teams to work across disconnected systems, making it difficult to obtain a complete operational picture.

- Multiple partners and remote sites operating under stringent regulatory oversight
- Fragmented systems led to duplication and version conflicts
- The project required a fully auditable framework to protect long-term asset integrity

The organisation needed a single engineering information environment that would support collaboration, maintain information integrity and provide complete traceability throughout the asset lifecycle.

## Results

| Area                                              | Outcome              |
|---------------------------------------------------|----------------------|
| Engineering information retrieval and review time | <b>60% faster</b>    |
| Rework due to version errors                      | <b>70% faster</b>    |
| Audit preparation effort                          | <b>65% reduction</b> |
| Return on investment                              | <b>&lt;12 months</b> |

## | The Assai Solution

Assai deployed the solution across all partner organisations within six months, replacing disconnected document management systems with a single controlled engineering information environment.

### **Key capabilities:**

- Structured workflows for revisions, approvals and transmittals
- Complete audit trail and traceability of engineering information
- Role-based permissions to safeguard information integrity
- Secure browser-based collaboration across all project locations
- Integration-ready architecture supporting CMMS and future Digital Twin initiatives

By establishing a controlled engineering information foundation, the organisation created a scalable platform that supports future Digital Twin initiatives while maintaining trusted engineering information throughout the asset lifecycle.

## | Project Insight

Engineering, construction and operations teams now work from the same trusted engineering information, reducing administrative effort, improving collaboration and enabling more efficient document reviews and project handovers throughout the project lifecycle.

## | Strategic Value

By establishing a controlled engineering information environment, the organisation created a scalable foundation for regulatory compliance, operational readiness and long-term asset management. Assai DMS continues to provide secure, traceable and trusted engineering information throughout every phase of the asset lifecycle.