

taghub - Life Cycle Information (LCI) Single Source of Truth (SSOT) Collaboration Platform

This document explains why taghub is the digital backbone that makes Industry 4.0 possible in the oil and gas industry by laying a robust foundation for the adoption of future innovative technologies. taghub delivers best-in-class life cycle information (LCI) management, providing a true single source of truth (SSOT) and an effective and secure collaboration platform for complex, multi-stakeholder industrial environments.

The objective of taghub is to establish a complete equipment and system life cycle information platform that covers all relevant cross-company LCI data.

1. A Single Source of Truth That Works Across Company Boundaries

Single source of truth systems are traditionally managed and applied within internal, single-organization boundaries. When SSOT concepts are applied across companies, data typically needs to be duplicated, re-keyed, and re-interpreted.

taghub enables a true cross-company SSOT by assigning each physical equipment item a unique, global digital identity. This physical-digital equipment identity remains stable throughout the entire equipment life cycle and is shared consistently by all involved parties, including suppliers, contractors, and operators.

2. Item-Centric by Design

taghub is fundamentally item-centric, rather than document-, system-, or workflow-centric. All data, such as certificates, inspection results, events, status changes, and equipment history, is anchored directly to the digital identity of the physical item.

This allows multiple companies and contributors to add relevant information over time to the same physical item, while preserving full provenance and maintaining a complete history of changes. Instead of chasing documents across systems, users have immediate, accurate access to all relevant information at any time.

3. Federated, Role-Based Collaboration

The core taghub business case is enabling collaboration between companies without enforcing central ownership or control by a single organization. Each company retains ownership of its own equipment data and decides what to share, with whom, and for what purpose.

Each equipment owner and information stakeholder operates within clearly defined roles and responsibilities (R&R), including delivery requirements and timelines. The taghub platform

visualizes these work processes in a shared operational view, ensuring that stakeholder expectations are transparent, aligned, and trusted.

4. Built for Real-World Operational Complexity

From a life cycle perspective, industrial operations must remain dynamic and adaptable to rapid change:

- Asset scope evolves
- New technologies and digital opportunities emerge, including industry 4.0
- Responsibilities shift
- Data quality improves over time

taghub enables the practical realisation of Industry 4.0 (The Fourth Industrial Revolution) in the oil and gas industry by connecting physical equipment to persistent digital identities and federated life cycle data across company boundaries. By providing the essential infrastructure for advanced digital twins, analytics, automation, and other data-driven innovations, taghub is designed to handle real-world operational complexity. The platform supports incomplete and evolving data, tracks life cycle and state transitions, and maintains full traceability throughout the equipment life cycle, explicitly managing temporary uncertainty and future change through the taghub system.

SSOT + Collaboration + Governance: A Rare Combination

taghub delivers single source of truth, collaboration, and governance simultaneously, a rare combination that explains why it succeeds where many other platforms fail:

- Operators trust it because consistency, provenance, and accountability are built in
- Suppliers like it because they retain control of their own data and are not forced into another party's system whilst laying the foundation of a digital future
- Regulators support it because of strong traceability, auditability, and clear responsibility
- Engineers use it because the data is item-centric, contextual, and operationally relevant

Most platforms deliver only two of these three capabilities, resulting in trade-offs that undermine trust, adoption, or compliance.

Capability Matrix: Why Most Platforms Fall Short

Platform Type	SSOT	Collaboration	Governance	Typical Outcome
ERP / PLM systems	Yes (internal only)	Limited	Strong (internal)	Breaks down across company boundaries
Document management systems	No	Partial	Weak	Version conflicts and manual control
Generic collaboration tools	No	Yes	Minimal	Fast sharing, low trust and accountability
Integration-heavy data platforms	Partial	Partial	Complex	High cost, fragile ownership models
taghub	Yes (cross-company, item-based)	Yes (native, role-based)	Yes (by design)	Trusted shared digital infrastructure

Conclusion

taghub at its fundament is item-centric, the digital identity provides immediate operational and technology friendly data visibility and enables consistent cross-company alignment, collaboration, and trust.

Rather than optimizing isolated company workflows, taghub optimizes value creation through real-time, cross-company collaboration around the same physical equipment item.