#5 | *THE OPEN GROUP OSDU™ FORUM QUARTERLY NEWSLETTER*

1Q 2022

The Open Group OSDU™ Forum delivers an open source, standards-based, technology-agnostic data platform for the energy industry that stimulates innovation, industrializes data management, and reduces time-to-market for new solutions.

Energistics® Becomes an Affiliate of The Open Group Following Completion of Governance Transition

SAN FRANCISCO, January 4, 2022 – Effective January 1, Energistics Consortium, Inc. is now an affiliate of The Open Group, a global consortium that enables the achievement of business objectives through technology standards. Energistics remains a separate entity, with The Open Group assuming control of Energistics operations in a move that will enable broader community access, more efficient collaboration, and stronger standards evolution in line with the global energy transition.

> *"The relationship between Energistics and The Open Group has been a long and fruitful one, and this is the right next step for our organizations. Bringing the knowledge and capabilities of The Open Group OSDU Forum and the Energistics SIGs closer together means that we will continue to lead the charge in data exchange standards for the industry, while also opening doors to a broader community for both organizations. We are committed to ensuring that the Energistics standards continue to evolve, thrive, and enable cross-discipline integration of industry data."*
>
> Steve Nunn, President & CEO, The Open Group

Having proudly served the industry for over 30 years, Energistics is also a long-standing member of The Open Group OSDU™ Forum, and in October 2018 became the first non-operator company to be invited to join the Forum. Its WITSML™, RESQML™, PRODML™, and ETP standards have become universal in the industry and form a critical component of the OSDU Data Platform.

Development will continue in Energistics Special Interest Groups (SIGs) to ensure the standards remain a vibrant part of the Energy community. Most recently, Energistics Transfer Protocol v1.2 was released in September 2021, and a consolidated Release Candidate for new versions of WITSML, RESEQML, and PRODML was made available in December 2021. This work will support both the wider industry and the ongoing development of the OSDU Data Platform and standards for analyzing legacy subsurface energy data, as well as new energy data from wind, geothermal, hydrogen, photovoltaic sources, and carbon capture, utilization, and storage data sources.

"3,500 upstream subject matter experts, from over 115 member companies have contributed to its development over the last 30 years," said Ross Philo, CEO of Energistics. "We are also particularly grateful to our operational staff, who have served the industry with outstanding dedication. They have ensured a smooth transition for our members, and we wish them all the best in their next adventure."

Today's transition of governance reflects the significant overlap between Energistics and The Open Group OSDU Forum, with 42 of the 220 current Forum members also being Energistics members. Retaining its own board, the work of Energistics will now be overseen by members of both organizations alongside The Open Group itself.

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EMERSON™ CONTRIBUTES OPEN SOURCE CODE FOR RESERVOIR DDMS

Emerson is Committed to the OSDU™ Forum

As one of the earliest software providers to join in 2018, Emerson drove the launch of the Reservoir sub-committees in May 2020 with Energistics® and Equinor™. The main goal of this initiative is for the OSDU Data Platform to support multi-disciplinary integrated reservoir workflows, from interpretation and geomodeling to flow simulation.

Emerson is contributing its Reservoir Domain Data Management Services (DDMS) based on the reservoir data standard RESQML™ to improve the efficiency of reservoir modelers and reservoir engineers. The Reservoir DDMS allows users to store all of their Earth Model data, from seismic interpretation to flow simulation results, that are currently covered by the RESQML data standard from Energistics. RESQML is a mature standard which allows an open description of reservoir data, capturing complex data relationships and associated metadata.

> *"The Emerson Open Source reservoir data ecosystem contribution is a major milestone in our long-standing commitment to the success of the OSDU Forum. It will unlock significant potential for our customers to further break down traditional E&P data silos, implement multi-disciplinary subsurface workflows like never before, and dramatically accelerate operations turnarounds"*
>
> Matthieu Quinquet, VP Strategy, Product Management, Marketing at Emerson Exploration and Production Software

The Reservoir DDMS can be consumed by geoscience and reservoir engineering applications and workflows for interpreting structural, stratigraphic, and basin model data; reservoir grids and simulation data; and any current and future application or workflow which can save its artifacts in RESQML format. The Emerson Reservoir DDMS open source code contribution contains an Open ETP[1] Server in C++ which communicates with the backend database. It contains a list of domain libraries, such as ETP APIs and RESQML file I/O library in C++ and REST APIs (being finalized) in typescript. Based on the APIs used, Reservoir DDMS can be used in two modes:

1. A library mode through a set of REST APIs, covering ETP capabilities with a simpler technology stack and simplified list of parameters.

2. An interactive mode using the full ETP capabilities. More than optimized, granular data search and queries, Reservoir DDMS in this mode allows full interaction, with a notion of temporary dataspace (equivalent to a project) where multi-users and applications will interact and contribute data before publishing to the OSDU core architecture (or indexing system). Interactive mode will enable users to perform interactive and integrated reservoir workflows. Also, the use of ETP allows better support for long-running workflows, by providing transaction and notification capabilities.

Reservoir DDMS will be integrated into the OSDU Data Platform along with indexing and entitlement, and will enable a RESQML file ingestion workflow through DDMS library mode. The Reservoir data definition group will also merge its schema to master (planned for M10), allowing Reservoir DDMS to index its reservoir metadata. Additional effort is required from the community for full integration to the platform. Please contact Laurent Deny (Laurent.Deny@emerson.com) or Marcus Apel (maap@equinor.com) for information on the Reservoir DDMS development backlog.

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[1] ETP: Energistics Transfer Protocol – websocket from Energistics.

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Home   >   Press Release   >   Gazprom Neft to develop digital oil production services in conjunction with Schlumberger

PRESS RELEASE

Gazprom Neft to develop digital oil production services in conjunction with Schlumberger

Gazprom Neft and Schlumberger have signed a Memorandum of Cooperation on developing digital services to improve efficiency in oil production, under a document signed by Andrey Belevtsev, Chief Digital Officer, Gazprom Neft and Rustam Biktimirov, Vice President for Digital Technologies and Integration, Schlumberger Russia and Central Asia.

The two companies have agreed to start joint activities in localising Schlumberger's technological solutions on the Russian market, and to develop software for well-design and drilling. They will also develop advanced data-analytics tools for geological prospecting and hydrodynamic simulations Another key area for cooperation will be enhanced oil recovery (EOR) technologies for use under complex geological conditions. Other companies to be recruited in implementing this project include Nedra (an oil-production solutions developer and integrator, and part of Gazprom Neft's contractors' "ecosystem"), the Moscow Research Centre (a Moscow-government R&D agency) and Schlumberger's Tyumen Competency Centre.

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IBM, AWS Partner to Help Energy Companies Solve Global Data Silo Challenges

November 23, 2021 by Todd R. Weiss

Large global energy companies have a seriously challenging technology problem – due to varying compliance and data residency regulations around the world, they have business data that must be maintained in diverse ways in multiple locations.

That results in critical business data being stored in separate silos, making it much harder to find needed data from among multiple repositories in various nations around the globe.

And if these energy companies have any hopes of finding ways to stay competitive and eventually

Business Capability Management (BCM) Charter

Objective – Establish an overview of the current business capability of the OSDU™ Data Platform, and a product value roadmap framework to allow for a continuous input to prioritization of the efforts of the OSDU Forum.
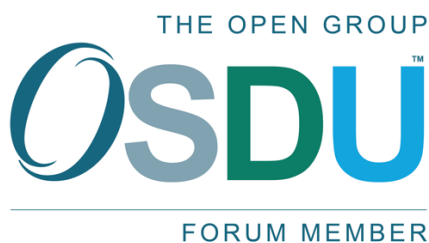
Scope – Clarify the capability footprint of the Mercury Release, its existing roadmap, and expectations for the future.

Deliverables:

- Product value roadmaps of "what can the OSDU Data Platform do for me now?" depending on perspective: operator, service provider, IT integrator, CSP, etc.

- A framework to define the business value and "minimum lovable capability" allowing for the forum to stay flexible/Agile

- A Forum survey providing insights /data points to determine value/product domains of priority

- A "data driven" proposal for a "wide & shallow" *versus* "focused & deep" strategy based on the Forum survey
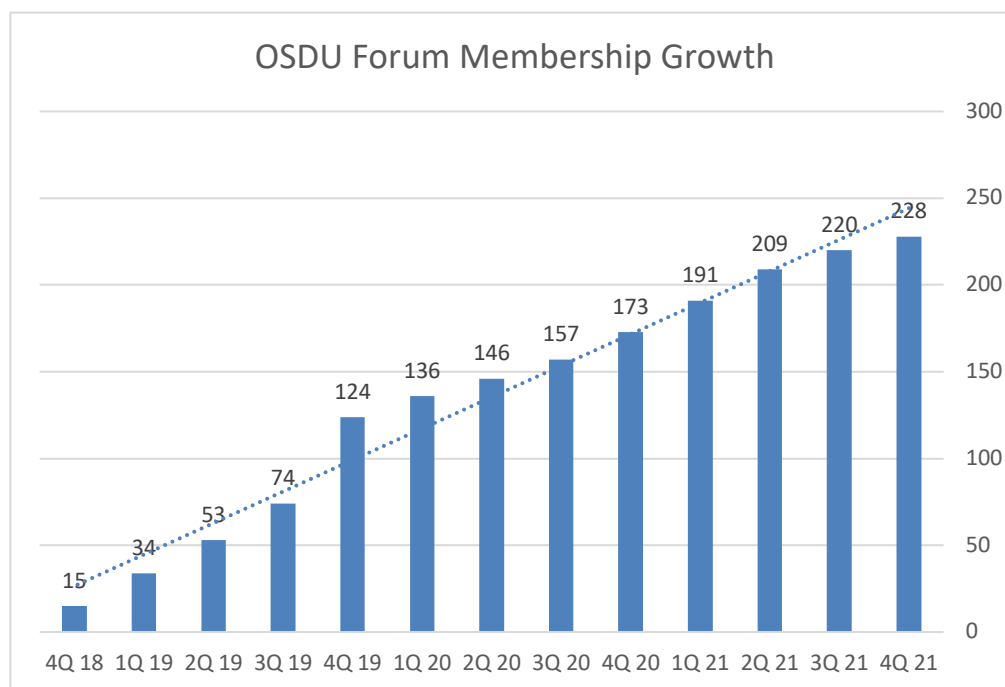

If you are interested in getting involved in the Business Capability Management (BCM) Working Group, then your organization needs to be a member of the OSDU Forum.

If your organization is not yet a member of the OSDU Forum and would like to get involved, please email: membership@opengroup.org.
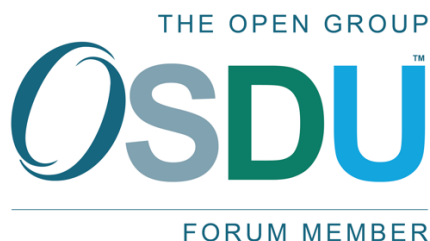
The OSDU™ Forum was founded in 2018, and membership has steadily increased every quarter since then.

OSDU Forum Membership Growth

As of January 2022, there are 258 member organizations of The Open Group currently entitled to participate in the OSDU Forum, with 228 active OSDU Forum member companies.

There are approximately 1,800 individuals from member organizations participating in OSDU Forum activities.

THE OPEN GROUP

OSDU™

FORUM MEMBER

If your organization is not yet a member of the OSDU Forum and would like to get involved, please email: membership@opengroup.org.

New organizations which became members of the OSDU Forum in 3Q, 2021 were:

New organizations which became members of the OSDU Forum in 4Q, 2021 were:

"The OSDU™ Data Platform Mercury Release represents an important achievement by the OSDU Forum in a very short space of time. Established in 2018, the OSDU Forum has accumulated over 200 member organizations who are collaborating together to accelerate innovation and reduce costs in the energy sector. With a standard data platform, energy companies will be able to drive innovation by integrating digital technologies and utilizing open standards for better decision-making.

Looking ahead, it will be imperative to meet the world's increasing energy demands while reducing greenhouse gas emissions."

Steve Nunn
President & CEO, The Open Group

"Data is at the heart of bp's transformation into an integrated energy company. We believe that the future of the energy industry will be data-driven and dependent on its ability to manage data in a manner that promotes data sharing with partners, innovation through data science, and rapid decision-making throughout the lifecycle of the energy value chains. Being a founding member of the OSDU Forum, bp has had an opportunity to be part of an organization that is fundamentally changing the data landscape for our industry. By integrating energy organizations, cloud service providers, and software vendors, the OSDU Forum is providing an opportunity for collaboration that will be beneficial for all involved. We are very excited about the release of OSDU Mercury and look forward to expanding this approach into engineering, emissions, and new energy."

David Eyton
EVP Innovation & Engineering, bp

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THE Open GROUP

About The Open Group

Leading the development of open, vendor-neutral technologystandards and certifications

The Open Group is a global consortium that enables the achievement of business objectives through technology standards. Our diverse membership of more than 850 organizations includes customers, systems and solutions suppliers, tool vendors, integrators, academics, and consultants across multiple industries.

Vision

Boundaryless Information Flow™ achieved through global interoperability in asecure, reliable, and timely manner.

Mission

The mission of The Open Group is to drive the creation of BoundarylessInformation Flow™ achieved by:

- Working with customers to capture, understand, and address current and emerging requirements, establish policies, and share best practices

- Working with suppliers, consortia, and standards bodies to develop consensus and facilitate interoperability, to evolve and integrate specifications and open source technologies

- Offering a comprehensive set of services to enhance the operational efficiency of consortia

- Developing and operating the industry's premier certification service and encouraging procurement of certified products

Keys facts include:

- Over 850 Member organizations, with 43,000+ participants in The Open Group activities from 126 countries

- Our Platinum Members are DXC Technology, Fujitsu, HCL, Huawei, IBM, Intel, Micro Focus, Oracle, and Philips

- Developing and operating the industry's premier certification service and encouraging procurement of certified products

- Services provided include strategy, management, innovation and research, standards, certification, and test development

- Over 115,000 TOGAF® 9 certifications worldwide

Further information on The Open Group can be found at www.opengroup.org.

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