



**Accelerating your
digital journey**

VERACITY
by DNV GL

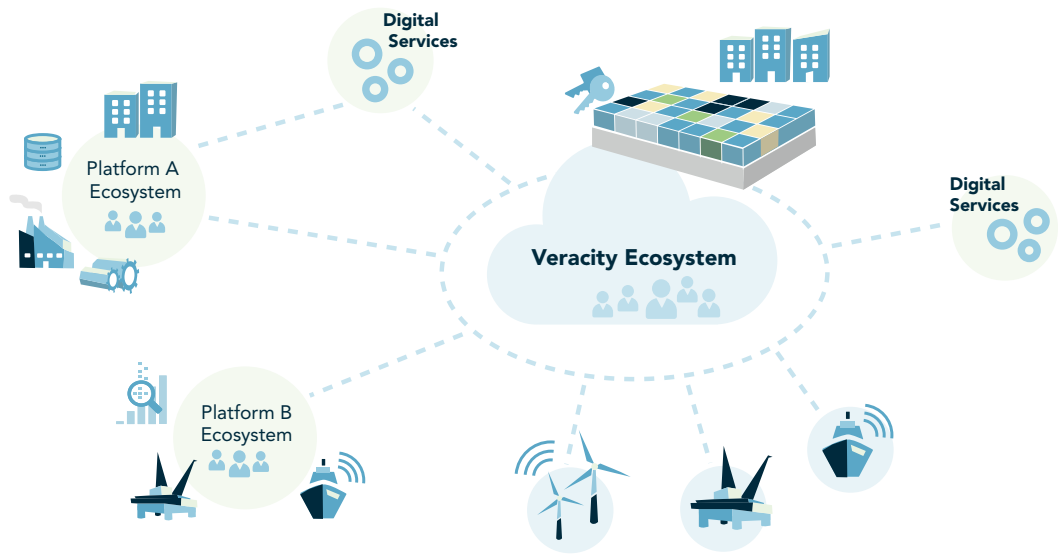
www.veracity.com

About us

In a world where everyone is hunting for reduced costs, new insights and solutions, Veracity by DNV GL provides secure connectivity between industry players.

Veracity is an eco-system that brings together all the key players in the maritime, oil & gas and energy industries, to drive business innovation and digital transformation.

We aim to drive down the cost of innovation and collaboration, as well as the cost of deploying new services and solutions.



Our maritime ambition

Ship operators, vessel designers, yards and component manufacturers are experiencing a major transformation as digital technologies are reshaping what is possible.

At Veracity by DNV GL we believe vessel operators can achieve smarter operations from connecting their vessel fleet and company to a virtual data space that supports

the secure exchange and the simple linking of data and applications in business eco-systems, based on standards and by means of common governance models.

That's why our ambition is to drive the establishment of Data Spaces with all industry stakeholders and reduce the cost of digital transformation in the Maritime industry.

160 000 users on Veracity

Users from thousands of companies are already using Veracity as an integral part of their daily work.

729 developers on Veracity

Fast track the deployment of your application in our developer community.

1.2 million subscriptions

Our growing industry eco-system has 1.2 million subscriptions to 173 applications

ISO 27001 certified

The Veracity data platform is ISO 27001 certified and secure data management is at the core of our platform.





Contextualized location services

The Norwegian Shipowners' Mutual War Risks Insurance Association has developed a system ("Raptor") for secure real time tracking and reporting of their 2700 ship customers. The potential use-cases go far beyond war insurance as the device can hook up with other data sources, for instance sensors or metocean data. DNK is partnering with Veracity to take advantage of Veracity's user base of 160,000+ users from 10,000+ companies, manage identities, terms and conditions.



Saving our oceans

Veracity partners with the Arctic Whale project, helping the project to investigate if the marine plastic problem has become part of the biological lifecycle of marine mammals that live in remote and pristine Arctic regions.

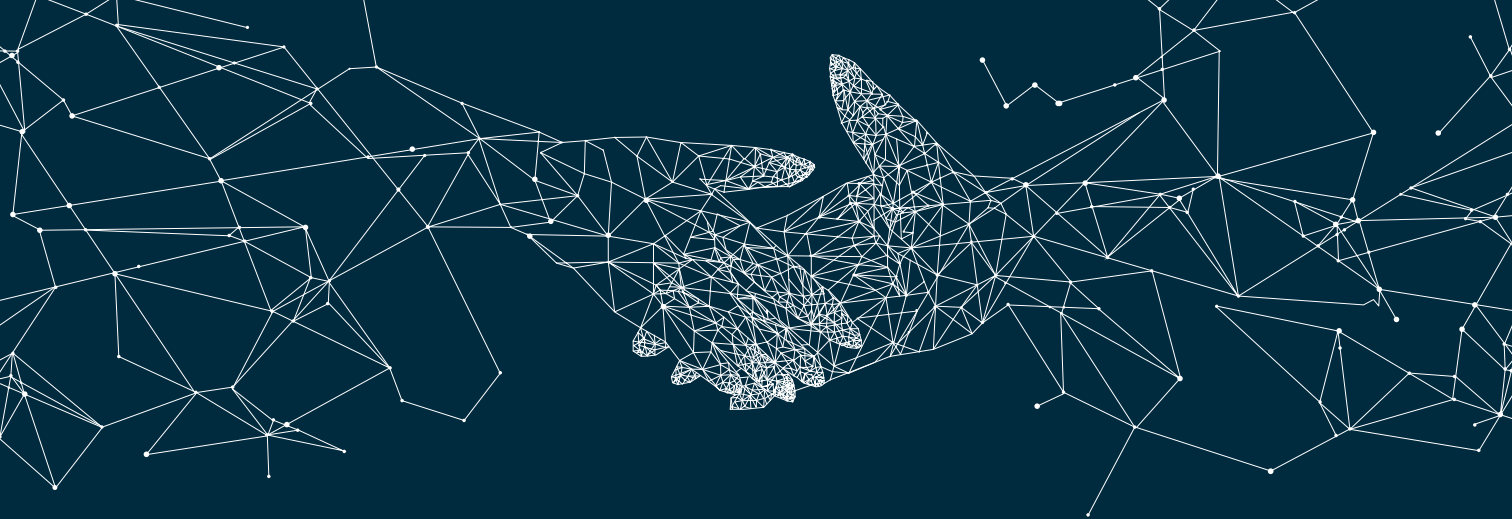
As part of the cooperation, the Arctic Whale project will feed its visual, marine and research data into Veracity and thereby facilitate exchange of datasets, APIs, applications and insights to help companies use the data for analytics and benchmarking.



Digital transformation through industry collaboration

DNV GL, Veracity by DNV GL and Arundo Analytics are partnering with Klaveness to help realize their ambitions relating to improving OPEX, port turn-around time and employee capacity through digital means. The Veracity Data Platform and Eco-System of service providers are used to access and unlock the potential of thousands of data points produced onboard Klaveness' fleet, focusing on enabling all relevant information available at the right time to the right person in standardized formats.





The possibilities

With Veracity you can take advantage of the multitude of applications & services from the eco-system, get value from your data, and build applications. Read more on the following pages.

Veracity Asset

Are you looking for a faster way to achieve a business goal using the data from your vessels?



Why this is of importance to you?

Having worked closely with many of our customers, we have learned about their pressing concerns and problems.

Veracity Asset aims to:

- Solve challenges with cross-fleet comparison
- Manage data from your assets
- Provide context to the collected data
- Give value to the data you have collected
- Have common understanding for decision making



Learn more on:

go.veracity.com/asset-ns

API to ingest and egress Data

Connect, query, push & pull data from your asset using our APIs.

Data Management

We provide a way for you to easily manage your data.

Standardizing ship sensor data

We map your sensors/tags to industry standards such as ISO 19847 and 19848.

Data Preparation and Quality

Data quality is key when it comes to getting value out of the data you collect and we have a dedicated team to help you.

Data Pipeline

We help you set up a data pipeline, all the way from a sensor/edge device - cloud - machine learning models.

EDGE DEVICES / SENSORS / INFRASTRUCTURE

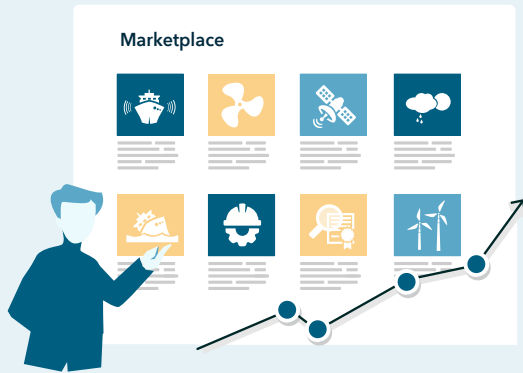


ANALYTICS & SERVICES



Marketplace

Reduce cost of sales by selling your digital services, data or APIs on a platform with global reach within the ocean space and energy sectors.



Are you facing these problems trying to commercialize your digital services?

As an owner of digital services, data or APIs going to market with your offering can be a challenge. How do you reach potential customers globally? And how do you scale your business efficiently? The Veracity Marketplace will help you:

- Reach a bigger and relevant market for your offering
- Achieve a fully digital marketing and sales process that scales
- Handle the financial transactions with your customers in different global locations with different VAT/tax rules and preferred payment methods
- Ensure a safe and timely delivery of the digital services, data or APIs to the customer
- Reduce legal cost with “click-accept” for terms and condition



Find out how to become a provider
Scan the QR-code or go to:

go.veracity.com/partner-ns

Visibility of your service

Service pages visible to the global eco-system on Veracity. Some easy mechanisms for showing licensing options to the customer.

Capture of leads

Leads for the service are passed on to the service provider.

Online contracting

Fully digital contracting between you as the provider and the customer.

Payment

The Marketplace is currently delivering invoicing and credit card payment for a selected subset of the services.

Digital marketing

Co-marketing as defined in our Partner program.

Delivery of the purchased service

Depending on the service type, how the service is delivered over Veracity and access models in the service, we offer different mechanisms for initiation of delivery of the service to the customer.

SOME OF OUR PROVIDERS ON MARKETPLACE



Deep Search

Dramatically cut time and effort spent looking for information.



Why use Deep search?

Veracity Deep Search is an enterprise secure-solution that allows you to:

- Perform search analysis of business sensitive data;
- Distill vast amounts of data, from text to imagery using Artificial Intelligence;
- Discover and present queried data and information within seconds.

If you are an owner or the operator of a vessel, chances are you have hundreds and thousands of documents to ensure safe and efficient operations. However you also most likely waste a lot of time trying to find relevant information buried in those documents when it comes to chartering a vessel and meeting compliance. What if you could simply search for the documents digitally rather than having to find them manually.

With Deep Search, you can simply upload all your documents including scanned files and have the information/documents available at your fingertips.



Secure Data Capture and Sharing

Easily capture data from many sources and store it in one central data lake and share with the team.



Data Discover

Connects knowledge workers to the right sources of information, allowing them to derive better insights and make better business decisions.



Make decisions faster

Dramatically cuts the time and effort spent looking for information, giving you back the time for more important activities.



Extract knowledge from the past

Image recognition technology makes it possible to revitalize and get access to historical knowledge in a way that previously has not been possible.



Make decisions more confidently

Surface information you may not have known to look for, resulting in better decisions while making you feel more empowered, confident, and productive.

Deep Search is offered as a private preview program, which means that we will work with you closely to get it all setup and engage with you for feedback regarding functionality.



How to get started

Scan the QR-code or go to:

go.veracity.com/deepsearch-ns

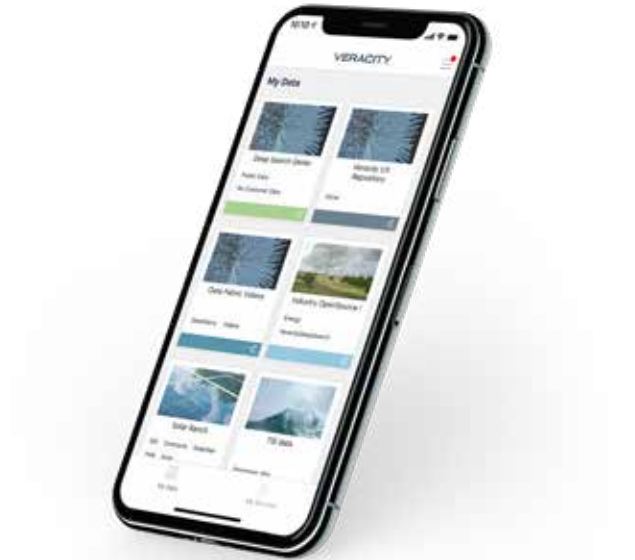
Veracity Mobile

Make decisions on the move with access to all your data and services wherever you are in the world.

What is your mobile strategy?

Every day, thousands of ships and heavy assets are subject to inspection of structures, components and systems. There are many stakeholders in inspections- classification societies, authorities, shipowners, insurers, cargo owners and more.

The Veracity mobile app solves this by acting as a “hub” towards mobile friendly services. Connecting stakeholders and giving you access in a secure and user friendly way. The app reduces the cost of inspections and make them both safer and more efficient.



How to get started

Scan the QR-code or go to:

go.veracity.com/mobile-ns

Secure data capture and sharing

Native access to Veracity Data Fabric for secure upload/ingest, download and sharing of unstructured data. Easily capture data from many disparate data sources and store it in one central data lake and share with the team.

Notification system

Instantly notify your peers or get notified when action is needed. Veracity provides pull/push notifications both on web and app (iOS and Android).

Capture data in the field and provide decision support

Capture video, photo, voice or movement using standard mobile sensors. Enable easy access to relevant mobile-friendly services for decision support, for instance video-editing, bookmarking and annotation or fleet status/information.

Make decisions faster

Find the information needed to make decisions faster. This dramatically cuts the time and effort spent looking for information, saving you time for more important activities.



Identity Trust Network

Reduce friction for business transactions leveraging a network of trusted digital identities within the ocean space and energy sectors.



Customer problem we help to solve

As an owner of data, services and information, being sure that you are sharing your information with the right person is imperative.

- How can you ensure that you know the identity of the users you share with?
- How do you know the connection between a user and a company in order to share sensitive information in a business-to-business context?
- How can you ensure that the authentication of the user is handled in a secure and reliable manner?
- How can you ensure that the authentication service have sufficient uptime for global and critical operations?

Digital identities of 160.000 people

Share your data, services, information with 160.000 persons within the maritime, oil & gas and energy industries that have a Veracity digital identity.

Modern identity technology

Using modern identity technology with high availability from Microsoft. The technology is supporting industry standard protocols and support a managed network of identity providers.

One identity service

The Veracity identity can be used both on web applications and on native mobile apps.

Federation

Veracity provides an identity trust network supporting federation to customers` own identity providers. Major companies within the target industries of Veracity have federated with the Veracity identity and more will follow. Federation brings quality to the identities and company connection but also ease of use for the employees in the federated companies.

Connection of user to company

Currently the Veracity Trust Network has 14 000 companies with user connections known to Veracity. This relationship adds an additional layer of security when collaborating in the Veracity Trust Network. This will be expanding with new data and mechanisms for quality assurance of data and new trust levels.



How to get started

Check out the technical details for how to onboard on the Veracity Identity Trust Network using the QR code or go to

go.veracity.com/identity-ns

Data Fabric

Fast track data driven innovation with secure exchange of data and insights between trusted parties.



Customer problem we help to solve

Having worked with many customers we noticed some common problems that Data Fabric aims to resolve:

- No easy way to collaborate and share data in an enterprise world between stakeholders
- No easy way to leverage advanced analytics techniques on data stored in separate silos to bring value to your company
- Handle all types of data (documents, images, videos, sensor data) in a data lake

Use Data Fabric for:

- Secure sharing of data with multiple parties
- Granular control of data access or time limited access
- Making data available for analytics or data enrichment, or combining it with other data
- Sharing data streams for real time analytics and monitoring applications



How to get started

Data Fabric is available on a monthly subscription. Scan the QR-code or go to:

go.veracity.com/datafabric-ns

Combine data with world class analytics tools

Data Fabric connects an eco-system of service providers and a wide variety of Analytics technologies. It makes it possible to securely share your data for advanced analytics with tools like Arundo Fabric, Azure Databricks, Azure HDInsight, Azure Machine Learning Studio etc.

Support any data types

Data of any type currently stored in files, database tables, data streams, objects, or sensor data can be amalgamated into a Veracity storage container.

Ledger

Activities related to stored data in the container by individuals or applications is tracked in the ledger.

Security and data protection

Sharing of data is done using SAS (shared access signature) keys which provide a way to granting and revoking access at any time. Keys can only be shared with other authorized platform users.

My services

Fast track service delivery with a secure and flexible channel for distributing your digital services to your users.



Customer problem we help to solve

As an owner of a digital service, you always have to put some thought and effort into safe distribution of the service to the users. With My Services, you can:

- Access an existing industry's populated "Identity Trust Network"
- Securely distribute the digital services to your users without building your own infrastructure
- Offer an easy solution for your users to access your digital service
- Send notifications and updates to your users
- Utilize one and the same platform for both distributing your services internally and to external customers
- Distribute web applications for mobile

Distribution of services

As an owner or provider of a digital service you can distribute the service directly to the end-user through APIs. For services sold on the Marketplace distribution can be done in connection with the sales process.

Security

The user accessing the service is always authenticated by the Veracity Identity service.

Dashboard tiles

Create enriched tiles to deliver a snapshot of the status or provide other valuable information that should be immediately available.

“My services” overview for the users

Users have their own customizable overview of the services they have access to through Veracity independent of who's the provider of the service.

Easy access to all services for the user

All services on the service overview are available with single sign on for the users. No need for numerous user accounts and passwords.

Easily add new users to your service

The APIs can also be used to invite new users and give them access to your service.

Notifications

Owners/providers can send notifications to their users through the Veracity notification APIs. This can be sent to single users or all users of a service. Each user decides their preferred delivery of the notifications whether on mail or web.

Veracity for Developers

Join the Veracity developer program to reduce the cost of developing, distributing and operating digital services



As a developer or provider of digital services in the ocean space and energy industries, we help you reach your customers and:

- Turn your ideas into solutions faster
- Provide the needed trust level to customers, so that they trust your products with their data
- Enable thousands of customers around the world to discover and buy your product
- Provide access to your product APIs in the maritime market through a secure platform



How to get started

Scan the QR-code or go to:

developer.veracity.com

Utilize advanced platform capabilities

Veracity developer program provides you access to cutting-edge Veracity technologies that will help you create useful and engaging user experiences. Integrate with the trusted Veracity network to enable a seamless single sign-on experience for your customers. It's free to get started!

Access to application analytics

Measure user engagement, marketing campaigns, and monetization for products with the provider dashboard. Make sure to be data driven in all stages of your development.

Manage and monetize your APIs

Veracity API Management offers a scalable API gateway for securing, publishing, and monetizing APIs. We offer a self-service developer portal with an auto-generated API catalog, documentation, and code samples.

Scalable notification engine

Send notifications to your users through the Veracity notification APIs. This can be sent to single users or all users of a service. Each user decides their preferred delivery of the notifications whether on mail or web.

Modern identity technology

Using modern identity technology with high availability from Microsoft, Veracity offers identity and access management in the cloud. To improve consumer connections, protect their identities and ensure GDPR compliance.

**Increase your market reach
as part of our industry
ecosystem.**

www.veracity.com

Veracity aims to create an ecosystem to bring together all the key players in the maritime, oil & gas and energy industries to drive business innovation and digital transformation. We aim to drive down the cost of innovation and collaboration, as well as the cost of deploying new services and solutions.



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OUR PARTNERS

