

OCTAWARE TECHNOLOGIES

THE BRIDGE TO PRODUCTIVITY



White Paper:

SharePoint 2013: It's implementation in *Oil & Gas Industry*

Microsoft SharePoint 2013

SHARE

- Put Social to Work
- Share your stuff
- Take SharePoint on the go

ORGANIZE

- Keep projects on the track
- Keep your team connected
- Store and sync your docs

DISCOVER

- Find experts you never knew existed
- Discover insights and answers
- Find what you're looking for

BUILD

- Build apps in the cloud
- Publish apps in the SharePoint store
- Build eye-catching sites

MANAGE

- Manage costs
- Manage risk
- Manage your time

Overview

Microsoft SharePoint 2013 provides solutions to Oil & Gas sector in its three different segments.

The *upstream segment* requires a lot of workflow to gather data for exploration, drilling and production. SharePoint provides effective workflows customized as per requirement.

The *midstream segment* deals with management of projects. SharePoint provides project management features reducing costs and increasing operational efficiency.

Distribution and retailing of oil and gas in the *downstream segment* requires effective order management. SharePoint provides effective way of integration across its value chain for efficient distribution and retailing.

Oil & Gas Industry

It is no doubt that the oil and gas sector is considered as the world's largest industry. According to the Department of Energy (DoE), fossil fuels (including coal, oil and natural gas) makes up more than 85% of the energy consumed in the US as of 2008. Oil supplies 40% of US energy needs.

The oil and gas industry are usually divided into three major sectors, *upstream*, *midstream* and *downstream*.

1. *Upstream segment*: It includes the process of exploration, drilling of exploratory wells and as well as production, subsequently requiring drilling and operating the wells that recover crude oil and gas.
2. *Midstream segment*: It involves shipping and storage of crude oil and gas. It is part of the process of retrieving from upstream segment in crude form and getting it to the downstream segment for processing.
3. *Downstream segment*: The downstream segment of the oil and gas involves refining of the crude oil and gas and as well as distribution, marketing and selling of the obtained products to the consumers.



Microsoft SharePoint 2013 is one of the leading portal technologies. It has been around since its inception in 2001. SharePoint is a scalable, extensible and customizable portal solution for enterprises of any size. It consists of tools and technologies that support the collaboration and sharing of information within teams, throughout the enterprise, and on the web.

Challenges

The oil and gas industries face many challenges. Following are some of the typical challenges faced by oil and gas sector:

1. Collaboration solutions that permit asset partners and trading partners to share vital information getting suppliers, engineers, production and maintenance communities all working better together. The result is quicker and improved mutual decision making.
2. Large-scale project management
3. There's a need for clear communication with partners and specialists to explore, produce, transmit and distribute energy.
4. Need for greater efficiency through business process optimization and system consolidation.
5. Need to preserve corporate knowledge as the experienced and senior expertise retire.
6. It is essential to meet the requirements for regulatory compliance.

SharePoint 2013 as a benefit to Oil & Gas industries

Key SharePoint 2013 features which can benefit to oil and gas sector are as follows:

1. **Collaboration and Information Management:** SharePoint 2013 contains some significant social features to help collaborate asset partners, suppliers, engineers, production and maintenance communities. Social features include microblogs, Yammer integration, newsfeeds, community sites, etc. These features will help personnel collaborate, communicate and access up-to-date content. This will help boost productivity as knowledge is shared across the organization amongst employees.
2. **Large-scale project management:** By using Project Server 2013 on top of SharePoint 2013 will extend capabilities of Microsoft Project for managing large-scale projects.
3. **Collaboration with trading partners:** Web Content Management (WCM) is a SharePoint 2013 feature which will help you collaborate, communicate and share ideas and content outside your organization such as your trading partners.
4. **Business process management:** Workflows along with SharePoint Designer 2013 and Visio 2013 will help build efficient business processes and system consolidation. Visio 2013 provides powerful platform to create pictorial representation in the form of diagrams.
5. **Documents and Records Management:** Records management is done to maintain and manage project documents, CAD drawings, office documents, etc.
6. **Asset Information Management:** Asset information management, aggregated data reporting to management, technical and executive teams, business intelligence are such areas in oil and gas sector that provides a foundation for growth for global players. With SharePoint 2013, these factors can be presented logically and effectively.
7. **Web Portals for Oil & Gas:** With functionalities of SharePoint like collaboration, search, notification, workflows, content management and personalization, the oil and gas companies can make a key differentiator that can give clients the visibility and accountability they demand.
8. **Mobility:** To help improve communication and collaboration among the team members, SharePoint also provides with mobility features. This rapidly delivers actionable information and increases efficiency.
9. **Integration of Geospatial Intelligence Applications:** The web parts for SharePoint-based solutions allow other third party applications like OSIssoft or ESRI to integrate with SharePoint to quickly and easily create composite solutions. By integrating geospatial software into existing GIS workflows, professionals can quickly produce, update and share complex information amongst team members, anywhere and anytime.

About Microsoft SharePoint 2013:

Microsoft SharePoint 2013 is one of a leading portal technologies. It has been around since 2001. It is a browser-based collaboration, content management and extensible platform from Microsoft.

SharePoint provides collaboration, websites, social networks, intranet and extranet portals, document & file management, enterprise search, websites and business intelligence. It also has system integration, process integration and workflow automation capabilities.

Features of Microsoft SharePoint 2013



About OCTAWARE Technologies

Octaware Technologies is a highly experienced offshore outsourcing company with its offices in USA, Middle East and India. The efficient project management and technical support services at customer's location guarantees the successful execution of each project.

The services provided are variant and adapted to the satisfaction and style of the clients. To support the increasing needs of clients and partners, the company has geared up an assortment of professional analysts, designers, developers, and quality assurance engineers.

Depending on the ever-changing requirements, we come up with the essential and up-to-date tools and skills to enhance the clients' confidence in us. Octaware - we believe it as an expression of our creative, innovative and ground-breaking ideas and experience.

Octaware Technologies

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