

 **SAP ECC to Microsoft Power BI Integration for Enterprise-Wide Decisions**

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WHO WE ARE

“ UB Technology Innovations is a leading provider of Power BI services, offering expertise in crafting exceptional dashboards. Our expertise assists clients in their digital transformation endeavors by streamlining the process and gaining a competitive advantage through rapid app deployment ”

WHAT WE DO

- Compliance and Security
- Enhance Productivity
- Improve Time to Market
- Reduce Operational Costs
- Maximize Profits
- Customer Experience



THE CLIENT

The client is a leading energy services provider in the GCC, with one of the region’s youngest and most modern drilling fleets. Over the years, the organization has expanded its capabilities through continuous investment in engineering solutions and advanced project management technologies. They support both national and international operators through long-term service engagements. Their steady growth has positioned them as a trusted partner for energy operators seeking modern, cost-effective field services.



CHALLENGES

The client was running their daily operations on SAP ECC, a system used by large organizations to handle business transactions. While it worked well for storing and processing data, it had some limitations when it came to reporting and analysis:

- Reports were hard to read: Key information like asset reports, HR updates, and finance billing details were only available as raw tables. Managers could not get a clear, visual view of what was happening in the organization.
- No direct way to connect with Power BI: Microsoft Power BI is one of the most effective visualization and reporting tools for enterprises. However, SAP ECC did not have a direct option to link with Power BI, making it difficult for the client to monitor performance across departments in one place.
- Too much manual effort: Every time they needed a report, teams had to run transaction codes (T-codes) in SAP, extract the results into Excel, and repeat this process for multiple reports. This took a lot of time and increased the chance of errors.





SOLUTION

The client approached us for a consultation on how to make their SAP ECC data accessible and more insightful through Power BI. After studying their setup, a tailored integration and reporting framework was built to meet their needs as follows:

- **Direct Connection to Power BI:** Since SAP ECC had no built-in connector, a third-party tool was used to link the two systems. This allowed SAP data to move directly into Power BI without any manual steps.
- **Automated Data Refresh:** Earlier, teams had to export reports manually. Now, with the web connector set up, the data refreshes automatically. Every time the database is updated in SAP ECC, the same changes appear in Power BI dashboards.
- **No Impact on Performance:** Even with multiple refreshes a day (up to eight times, as supported by Power BI), the system continued to work smoothly without slowing down operations.
- **Better Visualizations:** The raw SAP data was transformed into easy-to-understand dashboards using Power BI. Visuals like histograms, summary tables, and charts were designed using the client's branding colors, making the reports both professional and easy to read.



SOLUTION BENEFITS

The SAP ECC and Power BI integration made business reporting much simpler and faster for the client. Some of the key benefits were:

- **Faster Decision-Making:** Managers no longer rely on raw tables or manual Excel exports. With ready-to-use dashboards, they can view key metrics instantly and act swiftly.
- **Error-Free Reporting:** Automated data refresh reduced the risk of mistakes caused by manual data extraction and processing.
- **Centralized View Across Departments:** Asset, HR, and Finance reports are now available in one place, giving leaders a complete organizational view without switching tools.



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Conclusion:

The management team gained a complete view of the company's performance across departments by automating data refreshes and replacing raw tables with visuals like charts and summaries. The client was highly satisfied with the results, as decision-making became faster and more informed. UB Technology Innovations, Inc. continues helping oil and gas firms achieve transparency across business units by building impactful Power BI visualizations that provide real-time insights and an organization-wide perspective.



ABOUT US

UB Technology Innovations, Inc. (UBTI) is a leading global technology solution provider with over 3 decades of experience across all industries, specializing in Capital Markets (Asset Management), Logistics, and Healthcare. We are the preferred Microsoft Solutions Partner backed by a world-class team of Microsoft Certified experts with rich experience in Azure Cloud Platform and Data Analytics.



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