



Achieving Efficient Reporting and Enhanced Analytics with Futuristic BI Solutions

A Case Study for a Photonics Equipment Manufacturer

Turning Raw Data from D365 ERP and other enterprise applications into real-time Insights with Microsoft Fabric and Power BI

About the Company

Our client has been a leading Photonics manufacturer for over 30 years, with a presence in 9 countries. It runs over 2100 manufacturing sites and has a vast portfolio of around 20,000 products. It needed a robust and reliable reporting system that integrates with its existing ERP application on D365 and generates faster and more accurate reports, with the ability to customize & deploy new reports rapidly.

Challenges

- The Client was migrating from Dynamics AX to Dynamics 365 as an ERP system which was integrated with third-party solutions with large number of SSRS reports. Within that technology stack, it faced the below challenges that impacted business operations.
- Poor data visualization, along with the need for a higher degree of technical complexity made analytical dashboards complex and inaccessible for novice users.
- The end-users had challenges with the existing velocity of reports deployment, which impacted operational readiness.
- Unstable reporting structure that failed to give the required visibility across the entire operations.
- Lack of real-time insights which were crucial for monitoring the current state of operations and devising a future strategy
- Integration issues with diverse applications often delay reports by days, with some inaccuracy.





The Solution

Korcomptenz leveraged its over two decades of experience in Data & Analytics, ERP consulting, implementation, and support to devise a comprehensive strategy to address the client's challenges, after a thorough pre-assessment phase. The strategy used Microsoft Fabric as a reporting and analytics tool set that can address the requirements with reliability and precision, all done without disrupting the client's data.

- ✔ Microsoft Fabric was integrated with the MS Dynamics ERP application and other third-party sources.
- ✔ Fabric replicated the tables & data and created a data lake that was set to refresh every ten minutes to provide access to real-time data in incremental steps through Synapse Link. Change data capture was done by leveraging Parquet files with Delta Lake model.
- ✔ The processing of data progressively across the various stages of raw to cleanse data layers was achieved by Spark, a Big Data programming language.
- ✔ Synapse was used to create an aggregated data layer from which reports were generated real-time.
- ✔ Custom dashboards were developed using Microsoft Power BI for real-time data visualization and analytics. Power BI paginated reports gave a similar look and feel as earlier report formats easing end user transition.
- ✔ The end-users were provided with comprehensive training to ensure seamless change management and optimal solution adaptability.
- ✔ Adequate support during the post-go-live phase ensured that any changes identified in real-time operations were effectively catered to.
- ✔ As Microsoft Fabric works by replicating incremental data, the client's ERP system was intact and secure without any performance disruptions.

Key Benefits

With the new Microsoft Fabric solution, the client accrued the below benefits.

- > Synapse was used to create an aggregated data layer from which reports were generated real-time.
- > Data-driven decision-making capabilities were enhanced, as users had access to better data visualization and real-time analysis without the need for complex technical skills.
- > The solution saved upfront costs, as Microsoft Fabric with flexible licensing tiers along with our FinOps strategies, ensured the client only paid for what they used.
- > Faster and more accurate reporting from what used to take days, our solution enabled the generation of reports within minutes, for around 200+ core reports in first phase as they went live with D365.
- > Data trends and patterns that were previously not included in the old platform were now precisely generated.



With the above transformation in the reporting strategy which completely met the set requirements, the client had chosen to move further with using Microsoft Fabric for all their enterprise data reporting & analytics, as well as leverage its AI/ML, Gen AI, and Power BI Copilot capabilities which are getting implemented in a phased manner.

Korcomptenz is your go-to partner for data solutions that drive business success. With our expertise in Microsoft Fabric, Power BI and AI, we transform data into actionable insights that propel your organization forward.



Korcomptenz

Korcomptenz is a total technology transformation provider that partners with clients to improve their digital experience and insight. We unlock the power of technology in the areas of ERP, CRM, infrastructure management, cloud, data and AI to empower our clients with intelligent and experiential solutions. We **#FocusOnYou**

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