Get Moving with an Agile Data Mart from SAP

The Best-Run Businesses Run SAP™

It's a New World

In the digital era, your business has never been more dependent on accessing and analyzing data. Analytics solutions are not one-size-fits-all; your analytics needs are as unique as the challenges and opportunities your business faces. An agile data mart solution from SAP can get your business moving with targeted analysis to meet your most pressing business needs.

Using analytics to drive business success requires having a couple of very important things in place. You need to know exactly what data is required to support critical processes or drive decisions and you need timely and reliable access to that data. But that's just the beginning.

You need an analytics architecture that can accommodate the business reality you face. Today, analytics is not the domain of just top executives and analysts. There are multiple information consumers throughout the organization. Their numbers are growing as are their demands for what they need to do with the data. And those demands are not only growing in number, they are subject to frequent change. As the need for access to analytics grows wider and deeper throughout the organization, the need for new options for how to deliver analytics is growing even faster.

It's a new world

Beyond the Data Warehouse

Traditionally, the enterprise data warehouse (EDW) has been the gold standard for providing analytics access throughout the organization. But there are times when it's not the answer. Sometimes you need analysis that the data warehouse just can't support. New use cases such as customer behavior analysis, market basket analysis, and Internet of Things (IoT) analysis—to name a few—require access to big data assets that may not be part of, and may not be easy to incorporate into, the data infrastructure that supports your EDW. They may come from a data lake, for example. New analytics users, including business analysts, line managers, marketing staff, and others,

are creating new workloads that sometimes the existing infrastructure just can't support. (Sometimes it can't produce timely results; sometimes it can't handle the load at all.)

And then there are times when you need to make a new solution operational. For example, you may need to automate a new set of reports for customers, partners, and third parties. Or you need to feed a website or other external system or process. When your data warehouse isn't up to the task, that doesn't mean it is time to rip and replace. Maybe you just need a solution that extends and complements your existing EDW.
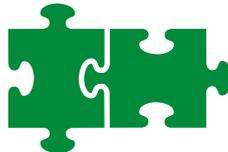
There are times when the data warehouse is not the answer

Meet the Agile Data Mart

The data mart has long been the go-to supplemental technology for those times when the data warehouse can't get the job done. Like the best traditional data mart solutions, an agile data mart operates independently from the EDW while participating in a larger logical environment. With an agile data mart, you can maintain consistency organization-wide while setting a path for introducing new capabilities.

The agile data mart takes on new workloads; however—in contrast with what often happens with a traditional data mart—the agile data mart is not an island. And moving data to it doesn't have to be a one-way journey. An agile data mart supports specialty or supplemental analytics use cases such as operational reporting, advanced analytics, and data aggregation while serving as the bridge between the EDW and new data sources, or the enterprise data lake. It is designed to be big data friendly, IoT friendly, and real-time friendly. It can take on new workloads and can rapidly change priorities without impacting production systems or the established analytics workflow.

The Agile Data Mart is not an island

SAP HANA Delivers Agility in Real Time

Beyond the Data Warehouse

Meet the Agile Data Mart

SAP HANA Delivers Agility in Real Time

Everything You need for an Agile Data Mart

SAP HANA is a leading-edge, industry-transforming platform for managing data in real time. A data mart built on HANA leverages in-memory data processing for real-time performance. HANA radically simplifies data management by combining processing of transactional data with data warehousing to enable business processes to run 1,000 to 100,000 times faster than in environments relying on traditional architectures. A HANA-based data mart is integrated with both the data warehouse and operational processing to an extent not achievable using any other kind of architecture. HANA also provides multiple options for integrating data from Hadoop and other external environments

Unite the data warehouse with operational processing

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Everything You need for an Agile Data Mart

SAP provides the full suite of technology you need to implement an agile data mart solution, from the data platform to the tools you need to visualize and explore the data. SAP HANA is the right foundation for an agile data mart solution. It simplifies your environment, integrating analysis and operations, and uniting in real time big data from the data lake with transactional data from enterprise systems. SAP Business Warehouse (BW) is a high-performing enterprise data warehouse system that is optimized for HANA and for SAP applications. SAP's comprehensive understanding of business process is built right into the BW environment. SAP BI delivers high-powered business intelligence and reporting capability to your agile data mart solution, including standard, ad-hoc reports and dashboards as well as self-service analytics. SAP Lumira provides powerful data visualization capability in support of data discovery.

Business process knowledge is built right in

Summary

An agile data mart solution from SAP can bridge the gap between your conventional EDW environment, your transactional systems, and your data lake. The agile data mart offloads new analytics use cases and workloads from established systems, allowing an expanded user base to pursue new lines of analysis using previously untapped data sources. Built on an in-memory database, the agile data mart accelerates analytics performance to real time. SAP provides a complete technology stack in support of implementing an agile data mart: SAP HANA provides the in-memory data platform, with multiple options for incorporating data form Hadoop and other external environments; SAP Business Warehouse provides full-featured EDW capability optimized for SAP applications; SAP Business Intelligence provides traditional business intelligence and reporting capability; and SAP Lumira supports advanced data visualization and data discovery.

Solution

- In-memory data platform to provide real-time data mart performance
- Enterprise data warehouse platform to support structured / transactional data
- Data lake to enable analysis of multistructured data in conjunction with analysis of structured data

Benefits

- Avoid slowdowns from overly taxing existing infrastructure
- Support new analytics use cases and workloads
- Expand analytics user base
- Maximize value of data in EDW, operational systems, and data lake

Learn more

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