



Microsoft® SQL Server® 2012

SQL Server 2012 Fast Track Data Warehouse for Dell

Highlights

- **Any Data, Anywhere**
- **Fastest Time to Solution at the Lowest Cost**
- **Immersive Insight, Wherever You Are**
- **Optimized Configuration on Latest Dell Server and Storage Systems**

The world of data is changing in unimaginable – and seemingly unmanageable – ways. Far beyond traditional internal data volumes, new data sources such as web logs, social media and sensor networks are creating a vast array of image files and unstructured data that demand consideration as decisions are being made. As the amount of data available to organizations continues its exponential growth, IT professionals are under increasing pressure to unlock and provide

access to the insights offered by this changing dynamic, while still lowering their overall spend.

Fast Track Data Warehouses from Dell and Microsoft meet these needs by providing a reference architecture data warehouse that can scale DW workload requirements up to 20TBs. These are certified by Dell to offer the optimal performance on industry standard hardware, embrace complex data types and non-traditional sources with integration to Big Data, and have familiar tools to empower everyone in the organization to analyze the data, without breaking the IT budget.

With SQL Server 2012 Fast Track Data Warehouse for Dell, organizations receive a data platform that processes any data, anywhere, with the fastest time to solution at the lowest cost, and

with immersive insight, wherever you are.

Any Data, Anywhere

Next-generation Performance

- SQL Server 2012 Fast Track Data Warehouse for Dell features xVelocity in-memory technologies that deliver a generational leap in performance (10-100x times) for single query execution and measured workload throughputs at double the rates for Fast Track for SQL Server 2008 R2.

"By using SQL Server 2012 xVelocity, we were able to extract about 100 million records in 2 or 3 seconds versus the 30 minutes required previously."

- Atsuo Nakajima, Assistant Director, Bank of Nagoya

In partnership with



Fastest Time to Solution at the Lowest Cost

While many vendors in this market have concentrated on expensive and complex data warehouse solutions, SQL Server 2012 Fast Track Data Warehouse for Dell in contrast has been recognized by customers for a strategy that delivers one of the best value propositions with a highly favorable price/performance ratio. Customers have saved hundreds of thousands of dollars a year in maintenance and total cost of ownership (TCO) by migrating their existing DW solution to a Fast Track Data Warehouse solution.

Time to Solution

- SQL Microsoft SQL Server 2012 Fast Track Data Warehouse for Dell is a guided-build reference architecture, which means it delivers a pre-certified best practices guide to build the server and storage configuration and setup/tune the software for an optimized configuration between Microsoft SQL Server 2012 and Dell. This eliminates complex hardware and software balancing and takes guesswork out of system configuration by removing the need to separately plan, tune,

configure, test and reevaluate configurations – getting things right the first time.

Rich BI and EIM ecosystem

- Other data warehouse offerings in the market require incremental licenses to take advantage of loosely coupled BI and enterprise information management (EIM) tools. With SQL Server 2012 database licensing costs compare favorably with other vendors; furthermore, companies get the major components of an integrated BI and EIM infrastructure at no extra cost. Microsoft BI/EIM tools are built for, and tightly integrated with a Microsoft enterprise application stack that runs seamlessly across desktop and enterprise server.

Immersive Insight, Wherever You Are

The top barriers to BI adoption across the enterprise are complexity of the solution and cost. Microsoft BI eliminates both by providing BI capabilities in the familiar Excel and SharePoint tools. BI is no longer the sole domain of savvy analysts and top-level decision-makers; but for everyone in the organization.

Microsoft SQL Server is the only major Data Warehouse offering that ships with major components of an integrated BI and EIM platform as a core part of the database license.



Figure 1: SQL Server Report Builder 3.0

Big Data

- By integrating unstructured data from a Hadoop cluster, SQL Server 2012 Fast Track Data Warehouse deployments can gain new insights using new types of relevant data in the analysis.

Optimized Configuration on Latest Dell Server and Storage Systems

The Dell reference architecture brings together the right mix of technology and software, integrating the powerful Dell PowerEdge server line, robust Dell storage array options, end to end services capabilities and the data warehouse capabilities of SQL Server 2012 Enterprise.

The Dell solution offers choice for customers - capacity ranging from 5TB to 20TB, direct attached and SAN storage, iSCSI and Fibre Channel networking.

CPU Specifications

- The SQL Server 2012 Fast Track Data Warehouse for Dell is built on the Intel® Xeon® E5 processors.

Storage Configuration

- The current release of SQL Server 2012 Fast Track Data Warehouse for Dell is built on the PowerVault™ line of storage arrays. Choices include direct attached, iSCSI and Fibre Channel solutions.

Dell PowerEdge Servers

- The SQL Server 2012 Fast Track Data Warehouse for Dell is built on state-of-the-art 2 socket PowerEdge™ Rack servers. These servers offer outstanding performance, superb manageability, and extensive expansion capabilities.

today to learn if this offering is right for you.

Additional Resources

SQL Server Fast Track Data Warehouse

<http://www.microsoft.com/sqlserver/en/us/solutions-technologies/data-warehousing/fast-track.aspx>

Dell Fast Track Data Warehouse

<http://content.dell.com/us/en/enterprise/sql-server-architectures.aspx>

Microsoft Big Data Solution

<http://www.microsoft.com/sqlserver/en/us/solutions-technologies/business-intelligence/big-data-solution.aspx>

Microsoft Business Intelligence

<http://www.microsoft.com/bi>

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Summary

SQL Server 2012 Fast Track Data Warehouse for Dell builds on the success of earlier Fast Track offerings with the ability to process any data, anywhere, provide the fastest time to solution at the lowest cost, and with immersive insights. Contact Microsoft or Dell

February 7, 2013