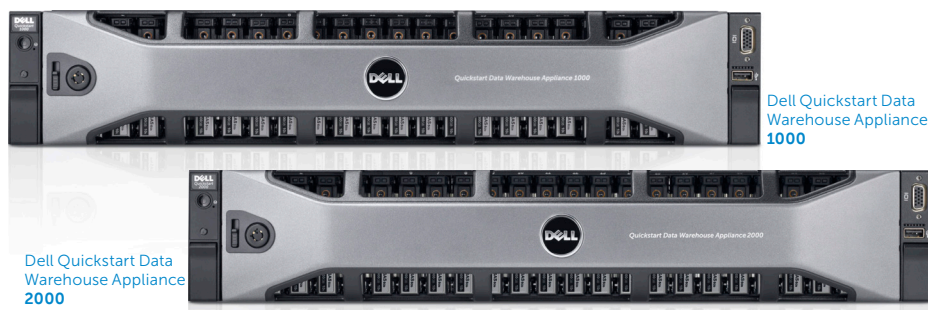




Dell Quickstart Data Warehouse Appliance



To stay competitive, organizations must become increasingly adept at managing and analyzing data to identify trends, measure return on investment, increase efficiency and minimize risks. Historically, organizations contemplating data warehouse projects have faced several key challenges, including large hardware, software and maintenance investments, training to develop new skill sets, and the need to integrate disparate data sets. This has been especially demanding for mid-market organizations with limited resources.

To address this challenge, Dell and Microsoft have partnered to develop a family of affordable and low-risk data warehouse solutions. The Dell Quickstart Data Warehouse Appliance is designed specifically for mid-sized companies and departmental users within large enterprises. This integrated solution is optimized and validated on the established Microsoft SQL Server 2012 Fast Track Data Warehouse Reference Architecture for maximum reliability and established data warehouse performance. The solution includes everything needed to get up and running quickly, including key consulting services and training — all at a competitive price.

Dell Quickstart Data Warehouse Appliance helps reduce risk through preconfigured hardware and software, tuned for optimal performance and designed to ensure high availability. With two models to choose from, the appliance provides storage options to support 5 TB or up to 12 TB of user data and includes tools to enable easy integration of data from any source: on-premises, SaaS, or cloud.

Quickstart Data Warehouse Appliance	1000	2000
User Data	Up to 5 Terabytes	Up to 12 Terabytes
Hardware	High-performance Dell PowerEdge 12 th generation Hardware	
Software	Microsoft SQL Server 2012 Data Warehouse Appliance Edition	
Data Integration	1-year subscription to Dell Boomi for data integration	
Services	Built-in startup, training and quarterly Healthcheck services	

Data ready solutions to improve organizational decision-making with innovative business intelligence solutions

Key Benefits

- Help **reduce total cost of ownership** with a **complete solution** that integrates hardware + software + services + support
- **Right sized for your data** with storage options to meet your data demands
- **Fast time to value** with rapid deployments via simplified and automated setup
- **Reduced risk** through pretested configurations, designed in partnership by two experienced technology vendors — Dell and Microsoft
- **Optimized Data Warehouse performance** based on tested and validated Fast Track reference architecture
- **Centralized support** for technical issues through Dell's global support service

Dell Quickstart Data Warehouse Appliance

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Dell Boomi

Microsoft® SQL Server® 2012

Dell PowerEdge 12G Server

Data Integration, Data Mgmt, Warehouse creation software

Data Warehouse Management / Database Software

Server and Storage HW

Services

Services include:

Deployment & Setup

StartUp Foundation pack

DW Health Check

HW & SW ProSupport

Dell Services can accelerate business intelligence

Take IT to the next level.

Additional IT consulting services can provide the foundation for planning, designing and implementing an efficient business intelligence solution:

- Business Intelligence Advisory Services
- Business Intelligence Design and Plan
- Business Intelligence Implementation
- Business Intelligence Manage and Support

A pre-configured solution from Dell and Microsoft

The Dell Quickstart Data Warehouse Appliance solution includes:

- High-performance Dell PowerEdge **12th generation hardware**
- Microsoft SQL Server 2012 Data Warehouse Appliance Edition 1- year subscription to **Dell Boomi** for data integration
- Built-in startup, training and quarterly Healthcheck services
- Simplified appliance support from Dell
- 1000 Model storage up to 5 TB of user data
- 2000 Model storage up to 12 TB of user data

Each hardware, software and services component was chosen to help ensure simple installation and the best performance at an affordable price.

Dell PowerEdge 12th Generation Platform

Performance is critical for organizations implementing business intelligence solutions, and Dell's PowerEdge 12th generation servers help you turn data into insights quickly by offering high performance and I/O scalability for demanding business intelligence workloads. The Dell Quickstart Data Warehouse Appliance is built on a Dell PowerEdge server configured with third generation PCI Express slots to help provide fast throughput and PowerEdge RAID Controller (PERC) cards for fast disk I/O. Data protection features are also built in; database, logs and OS/System drives, are configured in mirrored pairs to help ensure availability, and the appliance includes two global hot spare disk drives that will automatically provide redundancy in the event of drive failure.

Microsoft SQL Server 2012

The Dell Quickstart Data Warehouse Appliance is based on the Fast Track for SQL Server 2012 Data Warehouse Reference Architecture and optimized to handle the large data sets used in data warehouse workloads.

In addition, Microsoft's latest SQL Server 2012 Data Warehouse Appliance Edition license provides enhanced data warehouse features, including:

- The SQL Server 2012 database engine, specifically optimized for data warehouse query performance and high levels of data compression
- The x Velocity ColumnStore index, capable of improving query performance dramatically
- Partitioned tables that scale up to 15,000 partitions
- Integration options for Microsoft and third-party business intelligence tools, including Microsoft Excel®, for simplified analysis and reporting
- Remote BLOB Storage (RBS) that allows you to store binary large objects outside of the database in a dedicated storage location

Dell Boomi

Dell Boomi simplifies data integration by facilitating the connection of cloud and on-premise data sources at a fraction of the time and cost of conventional integration solutions.

Benefits of the Dell Boomi cloud-based service include:

- No additional hardware or software to install and maintain
- Intuitive visual design interface that requires no coding
- Suggestion engine for easy and fast data mapping
- Centralized Web management and monitoring of all integration processes

Dell Quickstart Data Warehouse Appliance

Implementation Services

Dell is with you each step of the way to get your data warehouse up and running quickly. The Dell Quickstart Data Warehouse Appliance includes several built-in services:

Dell Quickstart Data Warehouse Foundation Pack —

Comprehensive installation services which include post installation education by a Dell Data Warehouse Solution Architect who will educate you on everything you need to know to extract value from your data warehouse solution. Dell's experts will deliver hands-on training and help with implementing your real use case.

Training topics covered include:

- Data warehouse concepts
- Leading practice reference patterns
- Use and customization of Dell Boomi
- SQL Server 2012 features

Dell Quickstart Data Warehouse Healthchecks —

Also included is one year of quarterly data warehouse system performance assessments — including a review of data warehouse designs, software, firmware and bios settings to help ensure ongoing success.

Centralized Support —

Dell's Global Support team will handle all of your hardware and software technical support needs. Dell's world class support organization is your single point of contact for all Quickstart Data Warehouse Appliance software and hardware components.

If you need further assistance planning, designing and implementing your data warehouse, business intelligence and advanced analytics applications, additional Dell DW Consulting Services are available.

Available Configurations: The Dell Quickstart Data Warehouse Appliance is an integrated solution built on the Dell PowerEdge 12th generation server platform. The solution is optimized to deliver outstanding data warehouse performance.

Component	Details
CPU	1000 Model: (1) Intel® Xeon® E5-2643 CPU @3.3GHz (HT Enabled) 2000 Model: (2) Intel® Xeon® E5-2643 CPU @3.3GHz (HT Enabled)
Number of sockets used	1
Total Number of CPU Cores	1000 Model: 4 2000 Model: 8
Memory	1000 Model: 96GB RAM (4 X 16GB DDR3 DIMMs @1333MHz, 4 X 8GB DDR3 DIMMs @1333MHz) 2000 Model: 128GB (8x 16GB RDIMMS 1600MHz)
Internal Hard Drives	1000 Model: 22x 300GB 10K 2.5" SAS (18 Data, 4 Logs), 2x 600GB 10K 2.5" SAS (2 Hot Spares) 2x 600GB 10K 2.5" SAS (2 drives OS) Rear Bay 2000 Model: 22x 900GB 10K 2.5" SAS (18 Data, 4 Logs), 2x 900GB 10K 2.5" SAS (2 Hot Spares) 2x 900GB 10K 2.5" SAS (2 drives OS) Rear Bay
Internal Controller	PERC H710P
Operating System	Microsoft Windows® 2008 R2 SP1 Enterprise Edition
Database Software	Microsoft SQL Server 2012 Data Warehouse Appliance Edition
Server Management	Dell iDRAC7 Enterprise Edition
Data Integration	Dell Boomi (1 year subscription) <ul style="list-style-type: none">• 5 standard connections• Parallel Processing• 5 test connections• Advance Workflow• Molecule

For more information about the Dell Quickstart Data Warehouse Appliance with SQL Server 2012, visit dell.com/quickstartdw.



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