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Technology Group Partnership

MDSS has formed a technology partnership with Pacific Online. They act as our technology and information technology department. Based in Vancouver, Canada since 1995, Pacific Online has hosted web sites using the latest Microsoft technology. They currently host sites for thousands of customers in countries around the world. Among their customers are individuals, small businesses, charities, governments and the some of the world's largest companies.

Their committed and experienced team of Microsoft experts is dedicated to supporting the latest emerging technology. As a Microsoft Partner and member of the ASP.NET Hosting Advantage Program we work closely with Microsoft to ensure deployment of the latest software in a timely and secure manner.

They have reliable servers and great technology require outstanding support. That is why Pacific Online is dedicated to offering the best support in the hosting industry. We truly are committed their excellence in customer support, competitive prices and maximum uptime to security and attentive service. They are available to us and the client 24 hours a day, seven days a week.

Infrastructure and Server Datacenter

Pacific Online dedicated servers combine the world class Dell server technology with our state-of-the-art datacenter to offer the best overall value for your dedicated server solution. Every dedicated server includes initial OS installation, major service pack upgrades, critical patches, daily backups, reboots and OS re-imaging when necessary.

The server is configured with the following specifications:



Server	Dell PowerEdge 850
Chip	Pentium 4 2.8 GHz
Memory	4 GB
Hard Drive	360 GB
Software	Windows 2003 Server
SQL Server	2005 Standard

Our datacenter has been designed from the ground up to provide maximum uptime through the use of state-of-the-art technology. Extensive UPS and generator systems ensure a clean supply of uninterrupted power. Redundant air conditioners, with comprehensive environmental and climate monitoring, ensure provide reliable cooling and server friendly humidity levels. Security measures include closed circuit television monitoring, personalized access cards, highly secure man traps, and security officers on site. All door access is monitored, recorded and time stamped.

The Network Operations Centre is manned 24 hours a day, 7 days a week. Of course a world-class datacenter needs a world-class network to back it up. By connecting only with globally based Tier 1 Internet providers, public Network Access Points (NAPs), as well as hundreds of peering partners worldwide, our clients receive unsurpassed network performance that other carriers find difficult to match.

SQL Server 2005

All modules use Microsoft SQL Server 2005 as the database backbone. The following information is referenced from Microsoft's web site.

SQL Server 2005. 2007. Microsoft Corporation. July 23, 2007 <<http://www.microsoft.com/sql/prodinfo/overview/default.aspx>>.

Microsoft SQL Server 2005 is comprehensive, integrated data management and analysis software that enables organizations to reliably manage mission-critical information and confidently run today's increasingly complex business applications. SQL Server 2005 allows companies to gain greater insight from their business information and achieve faster results for a competitive advantage.



Key Capabilities

- **High Availability:** Ensure business continuity with the highest levels of system availability through technologies that protect your data against costly human errors and minimize disaster recovery downtime.
- **Performance and Scalability:** Deliver an infrastructure that can grow with your business and has a proven record in handling today's large amounts of data and most critical enterprise workloads.
- **Security:** Provide a secure environment to address privacy and compliance requirements with built-in features that protect your data against unauthorized access.
- **Manageability:** Manage your infrastructure with automated diagnostics, tuning, and configuration to reduce operational costs while reducing maintenance and easily managing very large amounts of data.
- **Developer Productivity:** Build and deploy critical business-ready applications more quickly by improving developer productivity and reducing project life cycle times.
- **Business Intelligence:** Gain deeper insight into your business with integrated, comprehensive analysis and reporting for enhanced decision making.

Enterprise Data Management

- **High Availability:** Failover clustering and database mirroring technology in SQL Server 2005 enables enterprises to deliver highly reliable, available applications to employees, customers, and partners.
- **Management Tools:** SQL Server 2005 introduces an integrated suite of management tools and management application programming interfaces (APIs) to provide ease of use, manageability, and support for operating large-scale SQL Server deployments.



Security Enhancements: SQL Server 2005 has been designed to help provide the highest level of security for enterprise data through features such as database encryption, more secure default settings, password policy enforcement, granular permissions control, and an enhanced security model.

- **Scalability:** Scalability advancements in SQL Server 2005 include table partitioning, replication enhancements, and 64-bit support.

Developer Productivity

- **Common Language Runtime (CLR) Integration:** SQL Server 2005 introduces the capability to develop database objects using any Microsoft .NET language.
- **Deep XML Integration:** SQL Server 2005 delivers a new XML data type, enabling the storage of XML fragments or documents in SQL Server databases.
- **Transact-SQL Enhancements:** New query types and the capability to use error handling in transactions provide developers with more flexibility and control in SQL Server query development.

Business Intelligence

- **Analysis Services:** Analysis Services provides a unified and integrated view of all your business data as the foundation for all of your traditional reporting, OLAP analysis, Key Performance Indicator (KPI) scorecards and data mining.
- **Integration Services:** SQL Server Integration Services (SSIS) is a next generation data integration platform that can integrate data from any source. SSIS provides a scalable and extensible platform that empowers development teams to build, manage, and deploy integration solutions to meet unique integration needs.



- **Reporting Services:** SQL Server Reporting Services is a comprehensive, server-based reporting solution designed to help you author, manage, and deliver both paper-based and interactive Web-based reports.
- **Data Mining:** SQL Server 2005 Analysis Services (SSAS) provides tools for data mining with which you can identify rules and patterns in your data, so that you can determine why things happen and predict what will happen in the future—giving you powerful insight that will help your company make better business decisions.

SQL Server Reporting Services and ReportServer

Microsoft SQL Server Reporting Services and ReportServer are included with the program. This allows the budget user to access pre-programmed customized reports and access real-time ad hoc reporting.

The following information is referenced from Microsoft's web site.

Reporting Services Overview. 2007. Microsoft Corporation. July 23, 2007 <<http://www.microsoft.com/sql/technologies/reporting/overview.msp>>.

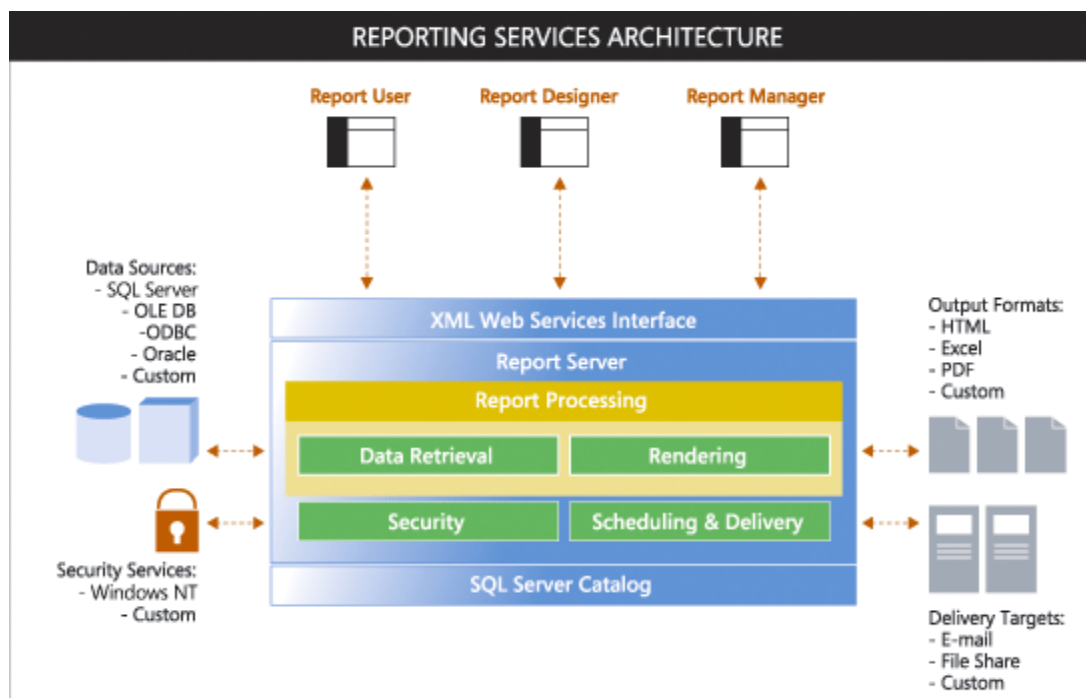
To be successful in today's competitive marketplace, organizations must extend information beyond the walls of their organization and seamlessly interact with customers, partners, and suppliers in real time. Microsoft SQL Server Reporting Services enables organizations to transform valuable enterprise data into shared information for insightful, timely decisions at a lower total cost of ownership.

SQL Server Reporting Services is a comprehensive, server-based solution that enables the creation, management, and delivery of both traditional, paper-oriented reports and interactive, Web-based reports. An integrated part of the Microsoft Business Intelligence framework, Reporting Services combines the data management capabilities of SQL Server and Microsoft Windows Server with familiar and powerful Microsoft Office System applications to deliver real-time information to support daily operations and drive decisions.

Integrated Architecture



SQL Server Reporting Services supports a wide range of common data sources, such as OLE DB and Open Database Connectivity (ODBC), as well as multiple output formats such as familiar Web browsers and Microsoft Office System applications. Using Microsoft Visual Studio .NET and the Microsoft .NET Framework, developers can leverage the capabilities of their existing information systems and connect to custom data sources, produce additional output formats, and deliver to a variety of devices.



Full Reporting Life Cycle Support

SQL Server Reporting Services supports the full reporting life cycle, including:

- **Report authoring.** Report developers can create reports to be published to a report server by using Microsoft or other design tools that use Report Definition Language (RDL), an XML-based industry standard used to define reports.



- **Report management.** Report definitions, folders, and resources are published and managed as a Web service. Managed reports can be executed either on demand or on a specified schedule, and are cached for consistency and performance. New in SQL Server 2005 Reporting Services, administrators can use SQL Server Management Studio to organize reports and data sources, schedule report execution and delivery, and track reporting history.
- **Report delivery.** SQL Server Reporting Services supports both on-demand (pull) and event-based (push) delivery of reports. Users can view reports in a Web-based format or in e-mail.
- **Report security.** SQL Server Reporting Services implements a flexible, role-based security model to protect reports and reporting resources. The product includes extensible interfaces for integrating other security models as well.

Key Reporting Scenarios

SQL Server Reporting Services combines a single, complete reporting platform with a scalable and extensible architecture to meet a wide variety of reporting needs, including:

- **Enterprise reporting.** Enterprises can use Reporting Services for their operational reporting or business intelligence applications. Using Reporting Services, corporate IT staff can design a variety of reports and deploy them to individuals throughout the enterprise.
- **Ad-hoc reporting.** SQL Server 2005 Reporting Services includes Report Builder, a new ad-hoc reporting tool that enables business users to create their own reports and explore corporate data. Report Builder incorporates a user-friendly business query model that enables users to build reports without deep technical understanding of the underlying data sources.
- **Embedded reporting.** Organizations can access predefined or ad-hoc reports from third-party applications that use Reporting Services and use these reports as-is, customize them, or create new ones for specific business needs.



- **Web-based reporting for partners and customers.** Organizations can deploy interactive Web-based reports to deliver information to customers or partners over extranets or the Internet. Reporting Services isolates report consumers from the complexity of the underlying data sources, while providing personalization and interactivity.

