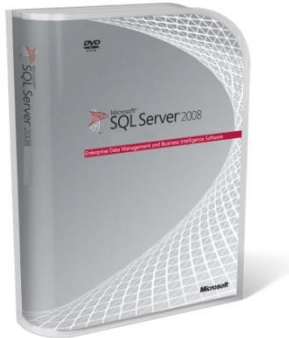




Microsoft® SQL Server® 2008

ADO.NET Data Services



The Microsoft® ADO.NET Data Services framework provides a first-class infrastructure for the next wave of dynamic internet applications by enabling Web applications to expose data as REST-based data services that can be consumed by client applications in corporate networks and across the internet.

<http://msdn.microsoft.com/en-us/data/bb931106.aspx>

TOP NEW FEATURES

- Publish data services that can be consumed by rich internet applications (RIA) through a simple, uniform URI syntax
- Use Web technologies such as AJAX and Microsoft Silverlight to consume data services in highly interactive applications
- Build data services solutions quickly by using a comprehensive set of Microsoft .NET libraries and client components.

SIMPLE AND WEB-FRIENDLY

Build rich Internet applications (RIA), separating data from presentation, by using Web technologies to easily and effectively create data services.

Build data services for the Web

Build solutions that publish and consume data services using URIs to address data. Perform data operations using standard HTTP verbs such as GET, POST, PUT, and DELETE and leverage rich application services such as sorting, filtering, and paging.

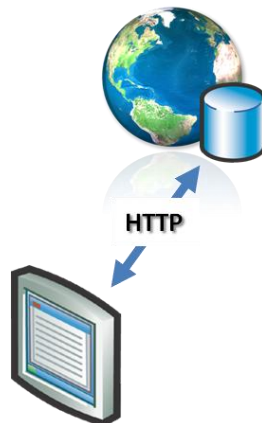
Use a stateless, REST-style application architecture and standard Web infrastructure for caching and authentication.

Simplify data services development

Build data services quickly and easily using a comprehensive set of Microsoft .NET Framework libraries. Take advantage of a pluggable data provider layer that enables any data source to be exposed as a data service. Build secure data services using a flexible authorization model.

Add powerful data services to rich Internet applications

Combine the power of Microsoft ADO.NET Data Services with existing Web development technologies such as AJAX and Microsoft Silverlight to build rich Internet applications that integrate data services into a highly interactive user experience. Present a natural, object-based programming model for your data services, based on a minimum footprint .NET Framework and Silverlight client library.



ADO.NET Data Services

Take advantage of support for:

- Identity Resolution and Association traversal
- Microsoft Language Integrated Query (LINQ)
- Synchronous and asynchronous data operations

Create ASP.NET solutions using ADO.NET Data Services by using:

- A new ASP.NET AJAX library
- ASP.NET data source controls that enable data binding to a data service

FORMAT AND STORAGE-INDEPENDENT

Represent data in any store as data services, using simple open formats.

Expose Data as a Service

Build data services for relational data sources, such as Microsoft SQL Server®, MySQL, DB2, and Oracle, using the built-in support for the ADO.NET Entity Framework. Expose data services using any data store using the pluggable provider model based on LINQ interfaces.

Present a Conceptual View of Data

Translate HTTP requests for data entities identified by URIs to the appropriate executable expressions for the underlying data store.

Abstract the data source to provide generic data services that can be used by any client application.

Deliver Data in Well-Known Formats

Take advantage of support for a range of data formats, such as:

- JSON
- ATOM/APP

Build data services that can provide data in the most appropriate format for the technology used to develop the client applications.

UNIFORM URI SYNTAX

Identify data entities with a URI and use standard HTTP verbs to operate on the resource.

Identify Data Entities using Simple URIs

Build client applications that access data entities through uniform URI syntax.

All customers in the data store

`http://server/dataservice.svc/Customers`

The customer identified by the key '1'

`http://server/dataservice.svc/Customers(1)`

All the orders made by customer number 1

`http://server/dataservice.svc/Customers(1)/Orders`

Uniform URI Syntax

Use a Flexible Addressing Scheme to Perform Data Operations

Perform advanced data operations such as sorting and paging, and execute data service-specific operations such as validation and business logic simply by specifying URI parameters.

The 3rd and 4th Order (when sorted by Order ID) for Customer #1

`Customers(1)/Orders?$orderby=ID&$top=2&$skip=2`

The GetOrders method with the *month* parameter value 11, and the results sorted by CustomerName

`GetOrders?month=11&$orderby=CustomerName`

Perform data operations using URI syntax.

For more information about the ADO.NET Data Services, visit <http://msdn.microsoft.com/data>. For the latest developer news and more information on Microsoft's broad range of resources for developers, including support programs, events, training, and the MSDN Library Online, visit MSDN Online at <http://msdn.microsoft.com/>.

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