

Oracle Data Provider for .NET – Microsoft .NET Core and Entity Framework Core

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Oracle Data Provider for .NET

Oracle Data Provider for .NET (ODP.NET) features optimized ADO.NET data access to the Oracle database from Microsoft .NET Framework. It allows developers to take advantage of advanced Oracle database functionality, including Real Application Clusters, pluggable databases, and Oracle Database Cloud.

ODP.NET consists of three drivers:

- ODP.NET, Managed Driver
- ODP.NET, Unmanaged Driver
- ODP.NET Core

ODP.NET, Managed Driver is a fully managed ADO.NET provider, consisting of fewer DLLs and smaller install size than ODP.NET, Unmanaged Driver. The managed driver has the same exact application programming interfaces (APIs) as ODP.NET, Unmanaged Driver. However, the managed driver's APIs are a subset of the Unmanaged Driver's APIs. Currently, managed and unmanaged ODP.NET support .NET Framework on Windows only.

ODP.NET Core is a cross-platform ADO.NET provider currently in beta.

Microsoft .NET Core


Microsoft .NET Core is an open source, cross-platform version of .NET Framework with support for Microsoft Windows, Apple macOS, and a number of Linux distributions.

Microsoft Entity Framework Core

Microsoft Entity Framework (EF) Core is an open source, cross-platform version of the Entity Framework data access technology. EF Core consists of an object-relational mapper for .NET developers to work with a database using .NET objects.

ODP.NET Statement of Direction for Microsoft .NET Core and Entity Framework Core

Oracle released a beta version of ODP.NET Core in February 2018. Oracle plans to release a production version of ODP.NET Core during the third quarter of 2018 at the same time as Oracle Data Access Components (ODAC) 18c.



This production version will support NuGet and xcopy deployment. It will be certified with Microsoft Windows, Oracle Linux, and Red Hat Enterprise Linux. Oracle will continue to evaluate certification for other operating system distributions.

ODP.NET Core beta requires Microsoft .NET Core 2.0.2 or higher. .NET Core 2.0 added application-programming interfaces that are required for ODP.NET Core to work properly. The ODP.NET Core production release may have different minimum .NET Core version requirements than the beta.

Oracle will release a beta for Microsoft EF Core approximately in the third quarter of 2018 shortly after ODP.NET Core's production release.



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