

Cloud optimized

Device optimized

Cross Platform

Openness



### Services

- S OSS ASP.NET Web API (Cloud optimized)
- S OSS ASP.NET SignalR (Cloud optimized)
- S OSS WCF
- S OSS WCF Data Services
- S OSS LightSwitch OData Services
- S OSS OData Lib
- S OSS Service Bus for Windows Server Lib
- S OSS Service Bus for Microsoft Azure Lib

### Windows Store Apps

- S OSS Universal Windows Apps
- S OSS .NET Native
- S OSS WinRT XAML/.NET Windows Store SDK
- S OSS p&p Prism for Windows Runtime
- S OSS p&p Unity for Windows Store Apps

### Windows Phone Store Apps

- S OSS Universal Windows Apps
- S OSS .NET Native
- S OSS Windows Phone SDK

### Cloud Apps

- S OSS Microsoft Azure .NET SDKs
- S OSS Microsoft Azure Storage Lib
- S OSS Microsoft Azure Configuration Manager Lib
- S OSS Microsoft Azure Media Services .NET SDK
- S OSS Microsoft Azure Mobile Services
- S OSS p&p Autoscaling App Block
- S OSS p&p Transient Fault Handling App Block

### Core

Get the .NET technology guide

- .NET Runtimes
- .NET Compiler Platform ("Roslyn")
- Languages (C#, VB, F#)
- Base Class Library

### Partners Cross Device Apps

- S OSS Xamarin
- S OSS ITR-Mobility iFactr
- S OSS Citrix Mobile SDK for Windows Apps

### Internet of Things (IoT)

- S OSS .NET Micro Framework
- S OSS .NET Compact Framework

### Web Apps

- S OSS ASP.NET MVC (Cloud optimized)
- S OSS ASP.NET Web Pages (Cloud optimized)
- S OSS ASP.NET Web Forms
- S OSS LightSwitch HTML5 Client

### Desktop Apps

- S OSS Windows Presentation Foundation
- S OSS Windows Forms
- S OSS p&p Prism for WPF

### .NET Extension Libs

- S OSS Async
- S OSS HttpClient
- S OSS Immutable Collections
- S OSS TPL Dataflow
- S OSS Rx (Reactive Extensions)
- S OSS Ix (Interactive Extensions; Ix-Async)
- S OSS Fsharp Core
- S OSS WF Activities Extensions
- S OSS p&p Semantic Logging App Block
- S OSS Portable Class Libraries
- S OSS p&p EntLib - Validation App Block
- S OSS p&p EntLib - Exception Handling App Block
- S OSS p&p EntLib - Logging App Block
- S OSS Compression

### Data Access

- S OSS Entity Framework
- S OSS ADO.NET
- S OSS ASP.NET Universal Providers
- S OSS .NET Map Reduce API for Hadoop
- S OSS .NET API for Hadoop WebClient
- S OSS Linq to Hive
- S OSS Linq to Sql
- S OSS p&p Data Access App Block

### DI and IoC Containers

- S OSS Composition (MEF2)
- S OSS MEF (Managed Extensibility Framework)
- S OSS p&p Unity

### Security

- S OSS ASP.NET Identity
- S OSS DotNetOpenAuth
- S OSS Windows Identity Foundation
- S OSS Authorization Manager (AzMan)
- S OSS Web Protection Library
- S OSS OWIN Authentication Middleware
- S OSS Microsoft Azure AD

NET Technology Guide

Today technology use is in the mode of a shift toward multi-device experiences powered by services in the cloud. However, the next generation of device- and service-oriented applications will need to be built on a foundation of established application patterns. The two patterns that every application developer can use are:

- Established application patterns:** These are applications developed using technology patterns such as desktop or web applications optimized for the desktop.
- Emerging application patterns:** Patterns such as multi-devices and the cloud are emerging as technology enablers for new applications. They complete the application patterns by extending the capabilities to be delivered on the web.

NET Technology Guide

Applications help you overcome the challenges of building distributed systems, providing a comprehensive reference for the latest technologies available for building the next generation of applications. It also provides a guide to the business and technical requirements for building distributed systems, and how to use the available technologies for evaluating and implementing them. The guide is designed to help you understand the concepts and technologies available for building distributed systems, and how to use them effectively for your business needs.

NET Technology Guide for Business

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