# DocumentDB SDK

[AZURE.SELECTOR] - [.NET SDK](/documentation/articles/documentdb-sdk-dotnet) - [Node.js SDK](/documentation/articles/documentdb-sdk-node) - [Java SDK](/documentation/articles/documentdb-sdk-java) - [Python SDK](/documentation/articles/documentdb-sdk-python)

## DocumentDB .NET SDK

**Download**

[NuGet](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/)

**Documentation**

[.NET SDK Reference Documentation](https://msdn.microsoft.com/library/azure/dn948556.aspx)

**Samples**

[.NET Code Samples](https://github.com/Azure/azure-documentdb-dotnet/tree/master/samples/code-samples)

**Get Started**

[Get started with the DocumentDB .NET SDK](/documentation/articles/documentdb-get-started)

**Current Supported Framework**

[Microsoft .NET Framework 4.5](https://www.microsoft.com/download/details.aspx?id=30653)

## Release Notes

### [1.7.1](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.7.1)

* Added an overload to Uri based ExecuteStoredProcedureAsync method that takes RequestOptions as a parameter.

### [1.7.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.7.0)

* Added time to live (TTL) support for documents.

### [1.6.3](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.6.3)

* Fixed a bug in Nuget packaging of .NET SDK for packaging it as part of a Azure Cloud Service solution.

### [1.6.2](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.6.2)

* Implemented [partitioned collections](/documentation/articles/documentdb-partition-data) and [user-defined performance levels](/documentation/articles/documentdb-performance-levels).

### [1.5.3](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.5.3)

* **[Fixed]** Querying DocumentDB endpoint throws: ’System.Net.Http.HttpRequestException: Error while copying content to a stream.

### [1.5.2](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.5.2)

* Expanded LINQ support including new operators for paging, conditional expressions and range comparison.
  + Take operator to enable SELECT TOP behavior in LINQ
  + CompareTo operator to enable string range comparisons
  + Conditional (?) and coalesce operators (??)
* **[Fixed]** ArgumentOutOfRangeException when combining Model projection with Where-In in linq query. [#81](https://github.com/Azure/azure-documentdb-dotnet/issues/81)

### [1.5.1](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.5.1)

* **[Fixed]** If Select is not the last expression the LINQ Provider assumed no projection and produced SELECT \* incorrectly. [#58](https://github.com/Azure/azure-documentdb-dotnet/issues/58)

### [1.5.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.5.0)

* Implemented Upsert, Added UpsertXXXAsync methods
* Performance improvements for all requests
* LINQ Provider support for conditional, coalesce and CompareTo methods for strings
* **[Fixed]** LINQ provider –> Implement Contains method on List to generate the same SQL as on IEnumerable and Array
* **[Fixed]** BackoffRetryUtility uses the same HttpRequestMessage again instead of creating a new one on retry
* **[Obsolete]** UriFactory.CreateCollection –> should now use UriFactory.CreateDocumentCollection

### [1.4.1](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.4.1)

* **[Fixed]** Localization issues when using non en culture info such as nl-NL etc.

### [1.4.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.4.0)

* ID Based Routing
  + New UriFactory helper to assist with constructing ID based resource links
  + New overloads on DocumentClient to take in URI
* Added IsValid() and IsValidDetailed() in LINQ for geospatial
* LINQ Provider support enhanced
  + **Math** - Abs, Acos, Asin, Atan, Ceiling, Cos, Exp, Floor, Log, Log10, Pow, Round, Sign, Sin, Sqrt, Tan, Truncate
  + **String** - Concat, Contains, EndsWith, IndexOf, Count, ToLower, TrimStart, Replace, Reverse, TrimEnd, StartsWith, SubString, ToUpper
  + **Array** - Concat, Contains, Count
  + **IN** operator

### [1.3.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.3.0)

* Added support for modifying indexing policies
  + New ReplaceDocumentCollectionAsync method in DocumentClient
  + New IndexTransformationProgress property in ResourceResponse for tracking percent progress of index policy changes
  + DocumentCollection.IndexingPolicy is now mutable
* Added support for spatial indexing and query
  + New Microsoft.Azure.Documents.Spatial namespace for serializing/deserializing spatial types like Point and Polygon
  + New SpatialIndex class for indexing GeoJSON data stored in DocumentDB
* **[Fixed]** : Incorrect SQL query generated from linq expression [#38](https://github.com/Azure/azure-documentdb-net/issues/38)

### [1.2.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.2.0)

* Dependency on Newtonsoft.Json v5.0.7
* Changes to support Order By
* LINQ provider support for OrderBy() or OrderByDescending()
* IndexingPolicy to support Order By
* \*\*NB: Possible breaking change\*\*   
    
  If you have existing code that provisions collections with a custom indexing policy, then your existing code will need to be updated to support the new IndexingPolicy class. If you have no custom indexing policy, then this change does not affect you.

### [1.1.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.1.0)

* Support for partitioning data by using the new HashPartitionResolver and RangePartitionResolver classes and the IPartitionResolver
* DataContract serialization
* Guid support in LINQ provider
* UDF support in LINQ

### [1.0.0](https://www.nuget.org/packages/Microsoft.Azure.DocumentDB/1.0.0)

* GA SDK

[AZURE.NOTE] There was a change of NuGet package name between preview and GA. We moved from **Microsoft.Azure.Documents.Client** to **Microsoft.Azure.DocumentDB**

### [0.9.x-preview](https://www.nuget.org/packages/Microsoft.Azure.Documents.Client)

* Preview SDKs [Obsolete]

## Release & Retirement Dates

Microsoft will provide notification at least **12 months** in advance of retiring an SDK in order to smooth the transition to a newer/supported version.

New features and functionality and optimizations are only added to the current SDK, as such it is recommend that you always upgrade to the latest SDK version as early as possible.

Any request to DocumentDB using a retired SDK will be rejected by the service.

[AZURE.WARNING] All versions of the Azure DocumentDB SDK for .NET prior to version **1.0.0** will be retired on **February 29, 2016**.

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| Version | Release Date | Retirement Date |
| [1.7.1](#1.7.1) | May 06, 2016 | — |
| [1.7.0](#1.7.0) | April 26, 2016 | — |
| [1.6.3](#1.6.3) | April 08, 2016 | — |
| [1.6.2](#1.6.2) | March 29, 2016 | — |
| [1.5.3](#1.5.3) | February 19, 2016 | — |
| [1.5.2](#1.5.2) | December 14, 2015 | — |
| [1.5.1](#1.5.1) | November 23, 2015 | — |
| [1.5.0](#1.5.0) | October 05, 2015 | — |
| [1.4.1](#1.4.1) | August 25, 2015 | — |
| [1.4.0](#1.4.0) | August 13, 2015 | — |
| [1.3.0](#1.3.0) | August 05, 2015 | — |
| [1.2.0](#1.2.0) | July 06, 2015 | — |
| [1.1.0](#1.1.0) | April 30, 2015 | — |
| [1.0.0](#1.0.0) | April 08, 2015 | — |
| [0.9.3-prelease](#0.9.x-preview) | March 12, 2015 | February 29, 2016 |
| [0.9.2-prelease](#0.9.x-preview) | January , 2015 | February 29, 2016 |
| [.9.1-prelease](#0.9.x-preview) | October 13, 2014 | February 29, 2016 |
| [0.9.0-prelease](#0.9.x-preview) | August 21, 2014 | February 29, 2016 |

## FAQ

[AZURE.INCLUDE [documentdb-sdk-faq](../includes/documentdb-sdk-faq.md)]

## See Also

To learn more about DocumentDB, see [Microsoft Azure DocumentDB](https://azure.microsoft.com/services/documentdb/) service page.