

## AX.NET Fully Cloud Enabling Microsoft Dynamics AX

```
reference to AX.NE...
using ProISV.AX;
namespace AX.INQSAMPLE1
{
    class Program
    {
        static void Main(string[] args)
        {
            //Create and open connection
            using (AXConnection conn = new AXConnection(new AXEndpoint
            ("AX50Standard", "proisv-ws-kb", 2713, "Demo"), true))
            //Create instance of generated AOT from the AX.NET Ass
            using (AsmGenTest.MyAOT aot =
            aotv.CreateAOT<AsmGenTest.MyAOT>(conn))
            {
                //...
            }
        }
    }
}
```

# AX.NET

## AX.NET Fully Cloud Enables Microsoft Dynamics AX

**There is something new, yet familiar in the sky: AX.NET Fully Enables Microsoft Dynamics AX in the Cloud!**

Cloud computing is upon us and the world of software is changing rapidly. Even Microsoft itself has over the past years transformed itself gradually from a pure license and “on premise/on pc” based business and software delivery model. A few years ago the Microsoft strategy was dubbed “Software+Services”, implying a hybrid model between the soon-to-be antiquated “on premises/installed on pc” tradition coupled with services. This strategy was mostly perceived as “clever marketing” versus a real shift in technology in the Microsoft products.

However, in March of 2010 Steve Ballmer, CEO of Microsoft Corporation, announced a more aggressive **Microsoft Cloud computing strategy named “We’re all in”**.

With this announcement Microsoft is basically telling the world that Microsoft now is very strategically focusing on moving innovation in the direction of Cloud computing. Clearly, it will take a very long time for Microsoft to deliver and especially in the business application area in which, Cloud enablement not yet is in the horizon. Signs of the direction Microsoft is going in are very clear though: Microsoft Office as a “Live” service, various XBOX and Windows Mobile services will surface, and peripheral services as well to the business applications, such as a Cloud based payroll service for Microsoft Dynamics AX. Even so, the core Microsoft business is still Windows and its server products and those will not move to Cloud applications (anytime soon, if ever). In parallel, Microsoft still believes that ERP by large should be an on premise or partner hosted model in the traditional client/server sense.

This point of view is something ProISV challenges. We agree that there will continue to be demand for on premise ERP for some time, but we disagree about the timeline. We believe specifically that Microsoft Dynamics AX delivered in the Cloud will very rapidly be in high demand! Microsoft competition is quickly moving in this direction as well. Microsoft just does not have the technological answer to challenge the competition, therefore is stuck with its traditional client-server on premise / partner hosted business model.

**ProISV has therefore already made a giant leap in innovation by developing the technology necessary to enable Microsoft Dynamics AX to run in the Cloud!** Imagine the potential of running Microsoft Dynamics AX in the Cloud, such as the Microsoft Azure platform. Our technology is not limited to Azure, but we certainly believe Azure is the natural choice for Microsoft partners and customers.

AX.NET enables you to run your AX infrastructure in the Cloud, including SQL and AX itself. This means you are now able to access AX through a web browser. The product AX.NET Server is fully compatible with all the AX.NET features, meaning you can now develop any application in Visual Studio .NET, use AX business logic in your .NET application and then run your application in the Cloud, thereby delivering your software without having to install anything on the client side.

**The key advantages on a more technical basis are:**

- Standard web service interface to access all Microsoft Dynamics AX logic
- Flexible connectivity
- Communicate with AX over firewall
- Deploy AX through Azure
- High availability through advanced multiprocessing
- Scalable with several AOS
- Multiple AX.NET Servers working together as one Cloud network
- Possible to communicate with Microsoft Dynamics AX through AX.NET Server from any technology which supports web services, such as like VBA in Microsoft Office, JAVA, PHP, AJAX (can access AX using AJAX from JavaScript running client side in a browser).
- Increased security by specifying special security permissions for Microsoft Dynamics AX logic, when accessed through AX.NET Server. AX.NET Server uses the security scope defined by the AX Security System, but can further be narrowed for instance to online allow read-only access to specific user groups through AX.NET Server.
- Secure communication over SSL / HTTPS
- And much more!

# Product Sheet

The clear benefits from an **economical view point** will be (depending on each scenario, customer by customer) massive savings in servers and infrastructure, as well as the cost of rolling out AX, maintaining AX, etc. For AX ISV's and especially AX ISV's who are delivering standardized solutions to industries, this technology will provide substantial economical advantages in both immediate and long term; and for the users it will provide a much better overall experience.

## Build on AX.NET, Protect Your Proprietary Code and Deploy in the Cloud!

By using AX.NET you will now be able to build your own proprietary code in .NET and have the full range of functionality available for real .NET development, while having direct access to all Microsoft Dynamics AX AOT elements directly in .NET.

As an example, you can build a solution in Silverlight, using AX code directly in this application and not have to worry about security of integrating .NET with Microsoft Dynamics AX, but at the same time utilize Microsoft Dynamics AX logic directly in your Silverlight application. This application you can deploy as a Cloud service, for example using the Microsoft Azure platform.

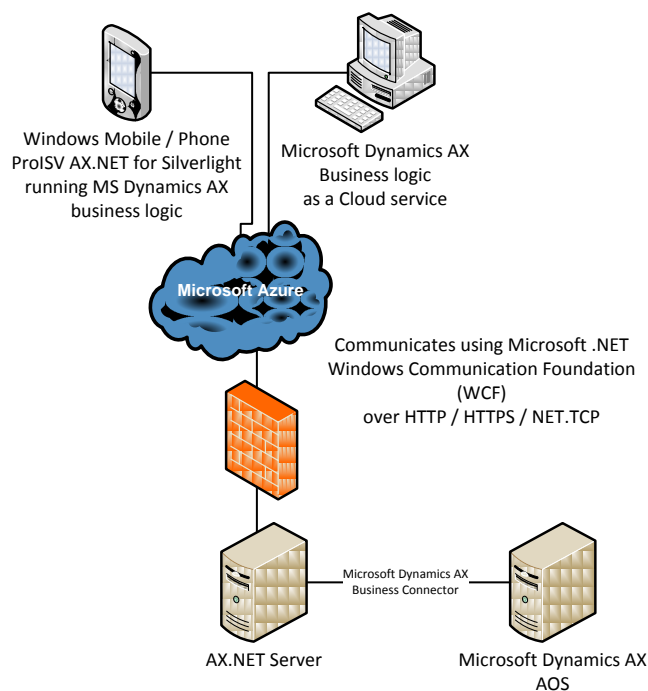
In effect, the entire Microsoft Dynamics AX is now available in .NET. Creativity is really the only limitation!

Furthermore, our unique Code Protection System and licensing framework enables you to protect your code, encrypted with the RSA technology, and it gives you 100% control of who uses your code and products. If you are a software developing company, e.g. a Microsoft Dynamics AX ISV or VAR, you will want to protect your investments in software development and be in absolute control of your own intellectual property, as well as the commercial licensing of your products. If you are a Microsoft Dynamics AX end-user, your proprietary code can be protected against use by your competitors and all of your value stays in the company, even if employees choose to leave your company to go work for a competitor.

So, by building code on AX.NET you will yield significant development efficiency advantages as well as be in control of your business model and make it sustainable.

Once your application is developed, you can now fully deploy in the Cloud. This can be any "type" of Cloud essentially, such as Microsoft Azure or even your own Cloud infrastructure as another example.

**The illustration below shows an example of how AX.NET Server enables Microsoft Dynamics AX to be accessed as a Cloud service, both on a Windows pc and on a Silverlight application running on Windows Mobile.**



# Product Sheet



## About ProISV

ProISV is a company headquartered in Copenhagen, Denmark and is founded by executives having a long track record in developing software in all categories, including .NET, Microsoft Dynamics AX and other Microsoft as well as open source technologies.

ProISV believes the future belongs to Cloud computing and development standardization in .NET. Therefore, the first suite of products from ProISV is designed to move Microsoft Dynamics AX into .NET and to be fully Cloud enabled.

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