



DynAX for MS Dynamics AX 2012

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Introduction

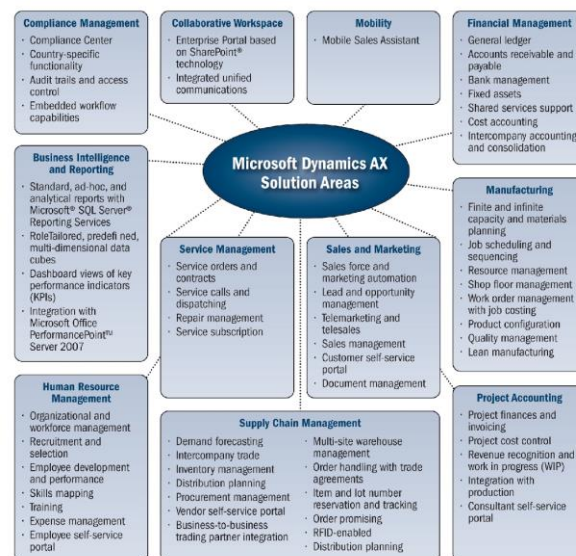
This white paper covers the technical details of DynAX, the cross platform mobile app developed for accessing Dynamics AX 2012 R3 CRM data on a variety of devices by [Folio3 Dynamics Services](#).

DynAX for the Microsoft Dynamics AX 2012 ERP lets users seamlessly access their AX data on-the-go. DynAX is based on a highly secure and scalable framework hosted on Windows Azure and provides:

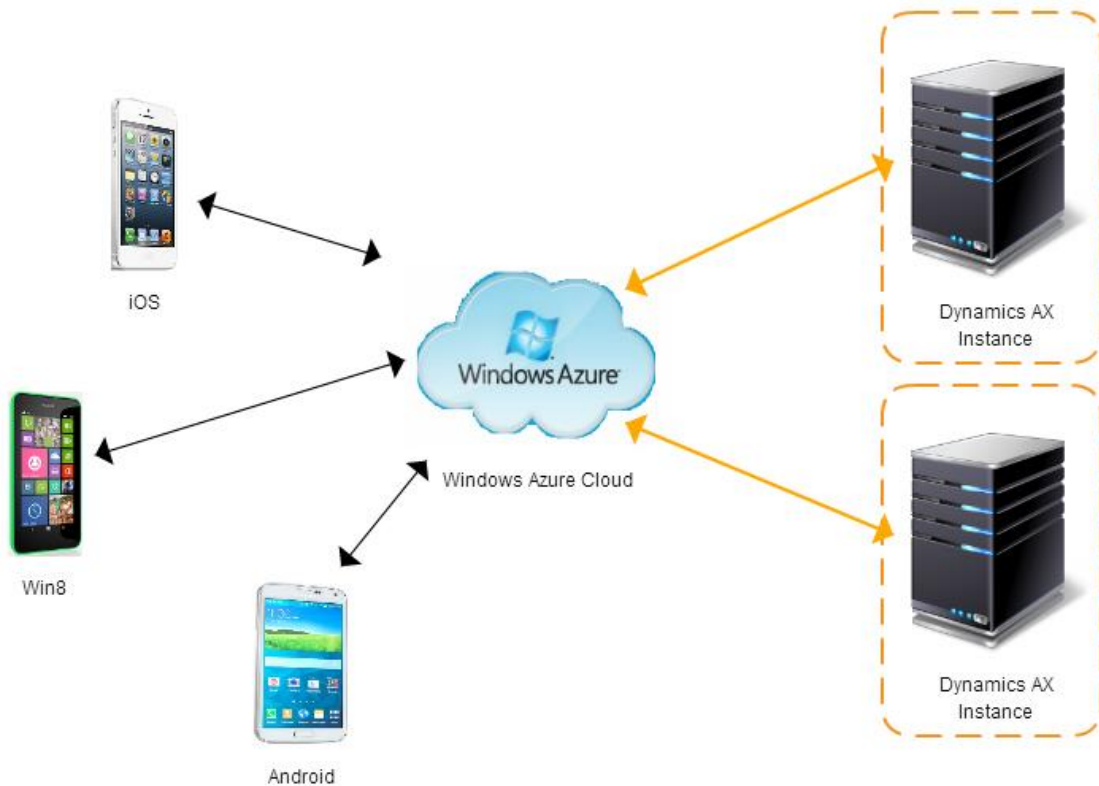
- Complete mobility along with reliable connectivity to the Dynamics AX ERP
- An easy to use UI that makes accessing AX data from a mobile device (Windows8, iOS, Android) a breeze
- Secure data transfer with Dynamics AX
- Seamless Integration with the device's Dialer, Maps and Email applications

Dynamics AX 2012 R3

[Microsoft Dynamics AX](#) (formerly known as Microsoft Business Solutions - Axapta) is a cutting edge, multi-language, multi-currency Enterprise Resource Planning (ERP) solution. Dynamics AX supports multi-site operations spanning different countries and regions, providing powerful intercompany processing automation as well as region specific statutory regulatory reporting to comply with local regulations and tax requirements. It is the ideal business solution for midsize to enterprise scale organizations.



DynAX – System Architecture

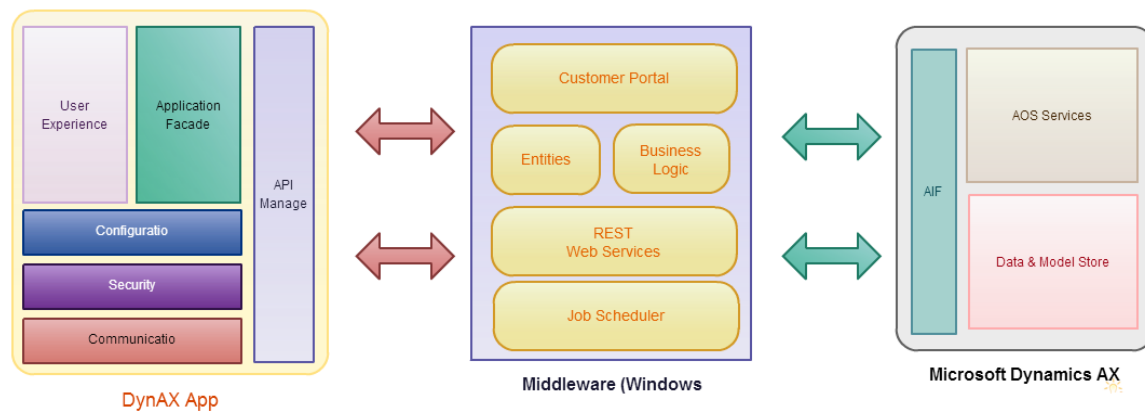


Azure Based Middleware Server

DynAX is powered by a cluster of Middleware Servers which function as the connectivity hub between the DynAX mobile app and Dynamics AX instances. The key benefits provided by of this type of architecture include:

- The ability to renew licenses, view logs and usage reports from a Customer Portal
- Advanced features for data exchange across Microsoft Dynamics AX and the DynAX app.

DynAX - Solution Architecture



DynAX App

This layer is basically a **mobile app for Windows8/iOS/Android** which provides a seamless way to configure settings related to accessing the Dynamics AX AOS Services. The DynAX app is the front end for the user and handles all:

- Activities management
- Customer management
- Opportunities/Leads/Prospects Management
- Contacts data management
- Calling/Email (Contacts & Customers) and mapping functionality

The app can be used to connect any Dynamics AX instance through the Azure based Middleware server.

Middleware Server

The Middleware hosts the **Customer Portal** for license renewals, transaction logs and usage reports.

This Middleware server performs the translation of the SOAP based Dynamics AX AIF services to REST based JSON services to be consumed by the DynAX app. This translation to JSON optimizes performance and reduces data payload. The Middleware server also handles advance operations like Batch processing of data, Transactions, Access Security etc.

Microsoft Dynamics AX 2012

This layer is based on customizations to Dynamics AX 2012 for creating services and X++ classes required for data exchange. It utilizes the **AIF** (Application Integration Framework) to use **AOS Services** for data persistence to the **Data & Model Store**. For example any **Customers** and **Activities** data is served to the DynAX app on request.

DynAX – Key Benefits

Easy Setup & Configuration

The DynAX - Dynamics AX CRM mobile solution extremely easy to setup and configure. It comprises of:

1. The actual app DynAX, for Windows8, iOS and Android
2. Dynamics AX Customization (.xpo)
3. A trial or production account on the Middleware Customer Portal

To configure and start using the DynAX app, you just need to:

1. Install the provided XPO on your Dynamics AX 2012 server
2. Download and install the DynAX app on your device
3. Enter the Server Settings in the app for connectivity to your AX ERP
4. Configure your company's account through the Customer Portal

And you're good to go!

Note

Folio3 provides free support for setting up all of the above components of the system.

Mobility Beyond Bounds

Since our Middleware is hosted on a high-end server instance on the cloud, it boosts the performance of the overall system, since the DynAX app can use it to connect to the Dynamics AX server anytime, anywhere.

Enhanced Scalability

The Middleware server is capable of scaling out as the data load increases, thus enabling a large number of devices to connect to it and open parallel channels for communication.

Data Security

Data transmitted through the Middleware is encrypted and as such highly secure. In addition, the Middleware server does not save of the data passing through it (aside from the logs), ensuring maximum data security and privacy.

High Availability

We guarantee 99% uptime for the Middleware server, which increases the availability of the overall system. All usage reports for the Middleware can also be viewed through the customer portal.