Document Type

Online and offline access of Dynamics AX Warehouse Management with mobile APPs

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Document history

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1	Business case description	Georg Braun	4-12-2015

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1 Business case description

One customer wants to implement Micrsoft Dynamics AX2012 R3 (AX) or higher version and plans to use the Warehouse Management functionality of AX.
The main requirement is to use the mobile client to access AX data for receiving purchase order delivery and put away in to the warehouse. Additoanlly they want to perform picking work for sales orders by using this mobile client.
This mobile clinent should be available offlne and online!

1.1 Current Status and challenges

Dynamics AX offers one out of the box complex module for handling of warehouse management work within a company.
This module enables the warehouse workers to use the web client to access AX data and perform warehouse activities like receiving, picking and moving goods in a warehouse.

This mobile client is limited in some areas.
Firstly this client can only be run online. This makes it hard for the customer in case of warehouse areas without wifi connection like freezing zones etc.

Secondly it is possible to use this web client on the smart phone but without using the scanner functionality or scanning apps for scanning the barcodes. You can only use external scanning devices and connect them with the smart phone instead of using the scanning apps of the smartphones. The option would be to use expensive scanning hardware devices to perform the scanning functionality of the EAN Barcodes.

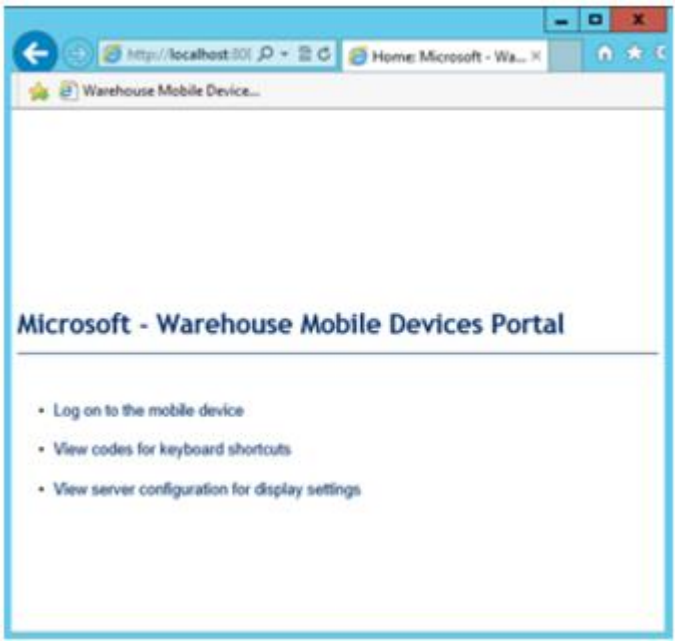
1.2 Solution / ToDos

To fit the requirements of the customer, it is needed to design one mobile application to access Dynamics AX Warehouse Management work orders like receiving and put away, picking and packing, Shipping.
This app needs to be run on smart phones and tablets.
This app must use an integrated or complementary scanning functionality / apps to scan product EAN Barcodes.
This app must be used in offline and online mode and sync data if device is connected to the internet / has a wifi connection.

1.1.1 Standard mobile client of Dynamics AX today

Additional resources:
Mobile Device Architecture:
http://blogs.msdn.com/b/dynamicsaxscm/archive/2015/03/03/warehouse-mobile-device-portal-architecture.aspx
Using the Mobile Device and make changes:
http://blogs.msdn.com/b/dynamicsaxscm/archive/2015/02/23/warehouse-mobile-device-portal.aspx

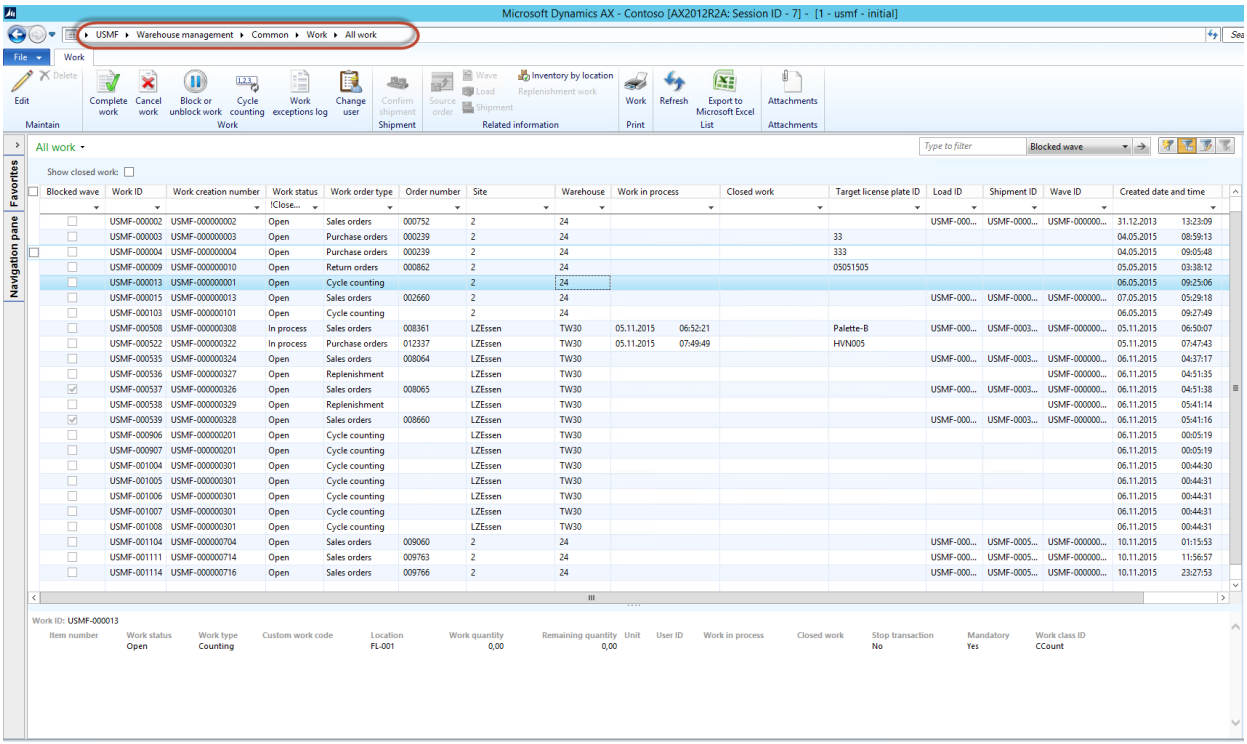
Launching the web explorer and login to the mobile device



Performing the Work on the mobile screen



1.1.2 Work orders in Dynamics AX which needs to be executed via the mobile app



1.1.3 Process Flow of how data has to be accessed by the mobile apps

Additional resources:

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Using the Mobile Device and make changes:

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