

Columbus® | Once you
know how...

An aerial photograph of a valley during sunrise or sunset. The sky is a mix of light blue and orange. Numerous hot air balloons with various colorful patterns are floating in the air. In the foreground, a large, dark, pyramid-shaped structure is visible, surrounded by dense green trees. The background shows rolling hills and a cityscape in the distance.

Advanced Migration Assessment

Advanced Migration Assessment

Components

Assessment initiation



Kick-off and Business Introduction

- Share assessment goals
- System access, model store export
- Initiate migration approach for earlier version of Dynamics on-premises

Step 1

Technical review

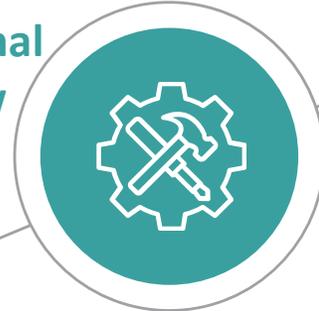


Technical Assessment

- Solution customization & modification analysis
- Code refactoring
- Data consistency and data integrity check
- ISV implemented solutions review
- Risks identification
- Integrations, BI and reporting strategy
- Technical assessment report

Step 2

Functional review

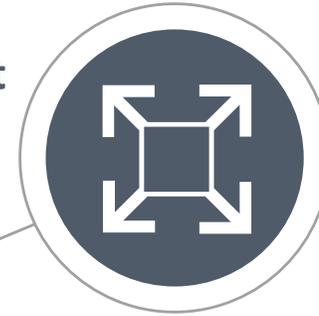


Functional Assessment

- Assessment of the new capabilities and enhancements against existing features
- High-level business process review
- Review of the current solution findings
- Recommendation
- Functional assessment report

Step 3

Assessment Summary

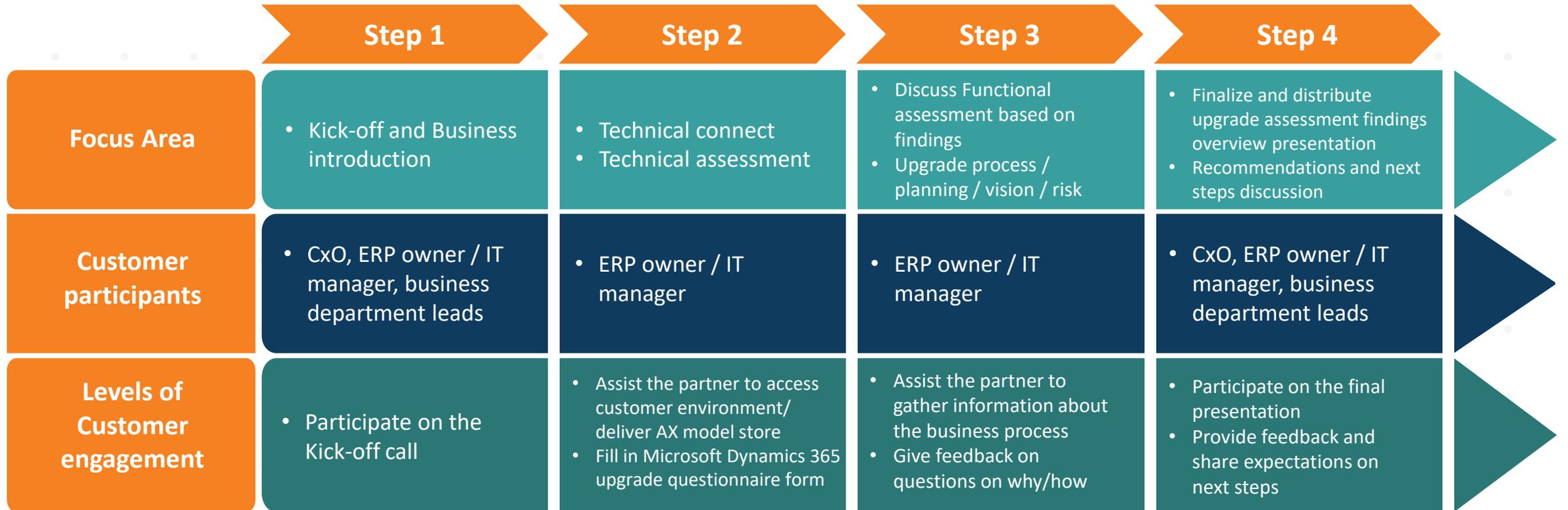


Assessment presentation & next steps discussion

- Review of the state of the current solution
- Proposal on how to start the migration process
- Deployment options analysis
- Recommended best transition approach
- Proposed timeline & resources
- Recommendations & next steps roadmap
- Q&A

Step 4

Timeline & Resources engagement



While we perform the assessment over the course of **4-6 weeks**, your total time commitment should fall **between 3-5 workdays**. Can be delivered in on/offsite manner. Expenses are covered by Microsoft & Columbus

Deliverables of Standard AMA:

Functional Assessment

Your business processes may have changed over the lifecycle of Dynamics on-premises deployment, and they might not be the best fit for an online deployment. This analysis drills into the important functional requirements and re-evaluates them with best practices and recommendations for Dynamics 365



Technical Assessment

Assessment includes: Technical analysis of the AX environment, level of customizations and their complexity and pathway for migration. In addition: recommendations towards new available functionalities, complexity of migration, ways to get the same functionalities through work arounds



Integration Options

Existing integrations running on-premises may no longer be needed or run when migrating to the cloud. The goal of the analysis is to assess those existing integrations for cloud compatibility, security, technical feasibility, and performance



Migration Plan

Helps to understand what a future state deployment might look like and produce a high-level system blueprint. This might include items such as conceptual solution architecture, high level gap-fit by business processes, integration strategy, data migration strategy and/or deployment strategy



Reporting

This item makes recommendations on reporting options for Dynamics 365. Examples include detailed reporting and BI assessment broken down by – operation reporting, financial reporting, business document reporting, analytical reporting etc



Recommendation and approach

A summary view of what would be the best course of action to help you move to cloud and the pathway that would work best for you and your business, depending on complexity, and impact analysis



Additional options upon agreement:

Business Value Analysis (BVA)

Helps to understand the total economic impact of moving to the cloud. Performing a BVA will help to align migration efforts with business outcomes. uncover potential cost-savings and productivity gains establishing a compelling economic reason to migrate to the cloud



Deprecation plan

Deprecation planning assesses those key items that will be affected going to the cloud and offers recommendations, best practices and alternative solutions that a customer should consider



Envisioning

A design thinking workshop can help to generate ideas, ensure all the key stakeholders on the migration project are heard, form a prioritized list of requirements that can be used in the design and help shape future phases of digital transformation



Industry accelerators

Microsoft industry accelerators/3rd party templates can help with time to value on Dynamics 365 cloud migrations. If there is a particular vertical solution that addresses a known functionality gap, then this analysis can help in exploring potential use case scenarios post migration



Industry best practices

Based on the results of the assessment, there may be specific areas which warrant further response, this item is an opportunity to expand on industry best practices, especially as it relates to functional and technical elements of Dynamics 365



Proof of Concept

Helps to build a prototype to showcase the benefits of specific set of cloud solutions and how that benefits business in real time



Sample of assessment report

1. Customization assessment

The following analysis was made based on the upgrade information and solution objects supplied by the customer

1.1. Executive Summary

The customer currently deploys 2 on-prem instances of AX2012 solution to manage their business. Microsoft is evaluating upgrading their current solution to latest Dynamics 365 for Finance & SCM. Hence, Microsoft conducted a short transition assessment based on the initial agreed plan of technical upgrade (fit and shift model). This will help the customer to understand the complexity/effort involved and assist in making right architectural choices for a smooth transition.

Any major risks have not been identified as a part of the technical fit and shift, however several risks related to data upgrade and ISV have been observed and identified below in section.

1.2. Risks

- ISV - Availability in Dynamics 365 for Finance & SCM
- Localization - Availability in Dynamics 365 for Finance & SCM
- Synchronous integration - redesign synchronous integration approach in the cloud
- Extensions - highly customized solution, moving over layering customization to extensions is challenging.
- Data Upgrade - Considering the size of database, in place data upgrade requires multiple rounds of iterations.

1.3. Current system information/Build version

Instance 1

System Information	Details
Microsoft Dynamics AX version	AX2012 R3 CU 8
Database server type and version	SQL Server 2012 R2
Database size (GB)	30
Database collation	Latin1_General_CI_AS
Default company name?	Yes
Data partitioning used?	Use default single partition
Offshore change	Customer Co server
Number of Legal Entities	40
Location	East US, West US, North America, Europe

Instance 2

System Information	Details
Microsoft Dynamics AX version	AX2012 R3 CU 8
Database server type and version	SQL Server 2012 R2
Database size (GB)	30
Database collation	Latin1_General_CI_AS
Default company name?	Yes

Data partitioning used?	Use default single partition
Offshore change	Customer Co server
Number of Legal Entities	30
Location	East US, West US, North America, Europe

All instances are running same codebase of Dynamics AX application.

1.4. Models installed

Model ID	Layer	Model name	Model publisher	Version	Signed	Model description
2608	DEV	DemandForecasting	Faagat	6.2.0.0	Yes	Demand Forecasting by Faagat Solutions Ltd.
2972	DEV	BD	ALTRISATE	6.8.104.1	No	AX2012R3 ROMANIA
2971	DEV	HR Localization	IN2	1.0.0.0	No	Localization
2970	DEV	BD Localization	FPS	1.0.0.0	No	BD Localization
1929	DEV	Prod/Labels	ProdLabel	2.1.8.28	Yes	ProdLabel Tools
1828	DEV	Prod/Licenses	ProdLicense	2.1.8.28	Yes	ProdLicense Licenses
1827	DEV	Prod/Labels	ProdLabel	2.1.8.28	Yes	ProdLabel Labels
1695	DEV	RF/Labels	Avant	1.0.0.0	No	AvantRF/RF Labels
1684	DEV	conf/CLM	AVANADE	1.7.0.0	Yes	Model for FM Add-on upgrade to AX2012 R3 CU8
1683	DEV	AX/Localization	Avant	3.18.0.145	Yes	AX/Localization - updates
25	DEV	AX/ECM	Avant	3.18.0.145	Yes	AX/ECM - updates
29	DEV	AX/CLM	Avant	3.18.0.145	Yes	AX/CLM - updates
28	DEV	AX/ECM	Avant	3.18.0.145	Yes	AX/ECM - updates
23	DEV	AX/CLM	Avant	1.2.0.0	Yes	AX/CLM Framework
24	DEV	AX/Labels	Avant	1.0.0.0	Yes	AX/Labels
15	DEV	USR Model		1.0.0.0	No	System generated model for USR layer for Microsoft Dynamics AX
13	DEV	CLS Model		1.0.0.0	No	System generated model for CLS layer for Microsoft Dynamics AX

Based on above model information, it's recommended that:

- DEV layer - there are 11 models installed from various ISV partners, confirm ISV solution readiness in Dynamics 365 F&O packages.
- VMS layer - there are 3 models installed for Romania, Croatia and Bulgaria localizations from partners.
- CLS layer - there are 3 models installed in CLS layer where most of the customization done for the customer QUS/RF/Labels. These models are considered for code upgrade.
- USR layer - there are 1 model installed in USR layer where small amount of customization done for the customer (USR). This model is considered for code upgrade.

1.5. Modification level

The Customer's solution Assessment uncovered the following modified objects versus a standard version of Microsoft Dynamics AX 2012:

Application Object Type	Customized Objects	Small	Medium	Large	Not in	New Objects
Tables	238	98	34	9	30	108
Views	19	4	3		12	11
Forms	69	1	61		7	264
Extended Data Types	30	1	27		2	940
Table Groups	19	2	4		13	203
License Codes						4
Configuration Keys						25
Security Keys						37
Perspectives	1					1
Marries	8		2			6
Classes	696	23	193	29	191	8914
Forms	152	51	24	14	63	657
Table Parts	1					1
Form Parts						13
Cues						155
Class Groups						60
Data Sets	4					4
SSRS Reports	30		27		3	51
Queries	12	3	2		7	46
Menus	13	2	2	1	8	12
Menu Items Display	3		3			911
Menu Items Output						81
Menu Items Action	1		1			548
Services	2				2	67
Service Groups						9
Code Permissions	1				1	1
Translations	11	12	7		2	1363
Dialogs						1
Dialogs						340
Process Cycles	2					1
Policies			2			4
References						18
Label Files						10
References						4
Total	1,180	213	292	50		16,178

Table 1 Customer's Solution Modification Assessment

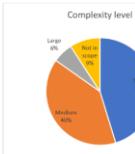
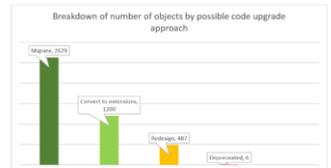


Figure 1 shows the percentage of objects by complexity level: large, medium, small and object not in. After analyzing customer's model store using LCS code upgrade service, below is the breakdown of number of objects:



2. Migration assessments

Following section describes high level assessment as compared to Finance and Operations

2.1 Solution overview

Customer MZ produces animal feeds for all different type of animal and all different type of feeds. Feed is low margin business. Pricing is key. Lots of commodity goes in the feed. Pricing is calculated weekly. Commodity pricing > bestmix - formula - production line. Lots of business to distributor and farmers. Feeders finance. Feed on credit from distributor.

Process manufacturing - used formulas to create feeds - feeds made of 5 to 25 items. Commodities, vitamins etc. Bestmix as formulation software. Create formula > pass it as > pass to mfg. P&L for individual plant to major plans. Critical to control cost and pricing. Freight charges passed by clients. Food quality safety. Detailed quality assurance. Most of the outside. Lab testing is external. Lab is custom module.

One instance of AX 2012 R3 - used by 30 production facility in north America. Following modules/business processes used:

- Production
- MRP
- AR
- AP
- GL
- Rebate
- Pricing
- Agreement is updated from pricing

They have 30 legal entities, with 10 operational entities and 20 financial legal entities.

2.2 ISV Solution Overview

Customer is currently using following ISV solutions.

ISV Name	Purpose	F&O need/availability assessment

2.3 Localizations Solution Overview

Customer is currently using following partner localization solutions.

Localization Name	Purpose	F&O need/availability assessment

2.4 Customization assessments

Category	Assessment	Commodity/Risk
General	Heavy customization in Sales and Marketing, Inventory management and Production module.	Plan for detailed test plan and test cases. Automated testing using QSAT.
General	Heavy intrusive customization in Production module.	Potential of high number of extension request or redesign.
Replace with OOB feature	Customization related to custom mobile device can be replaced with Advance warehouse management capability as F&O.	Evaluate OOB feature in detail and plan for user training.
Replace with OOB feature	Customization done in to handle credit management can be replaced with OOB credit management module features.	Evaluate OOB feature in detail and plan for user training.
Re-Implementation	Custom feature developed for sales order processing needs to be re-designed to consider new Advance warehouse flow.	
Re-Implementation	InfrastructureCode, SalesOrder, InventorySegmentGroup, InventorySubSegmentGroup tables were converted not to share per-company. This is has to be re-designed.	
Deprecated features	Enterprise portal is used for purchase requisition entry and approval. All customization can be safely removed.	Evaluate OOB functionality.

2.5 Forms Refactoring

There are 176 newly created forms in custom module which are migrated from AX2012 to D365 Finance and Operations and the patterns is missing. From patterns must be applied to each form to remove the conflict.

2.6 Integration assessments

There are major differences in integration technologies between AX2012 R3 and MS Dynamics 365 F&O systems. For this reason, existing integrations must be analyzed and possible solutions for existing integrations must be discussed.

Customer has provided a list of existing AX2012 integrations that are used in current system. Possible solutions for existing integration migrators to the new system have been discussed.

Query

General

Will Enterprise Asset Management be used? If so - how many top-level assets will be managed by the system?

Will Advanced Credit Management be used?

Will you require customers or vendors to login to a portal to view orders?

Planning

Will MRP be used? What orders will be planned?

How will the firming process execute after MRP?

Will the Projects module be in use?

Will MRP be planning Project-based orders?

Warehousing

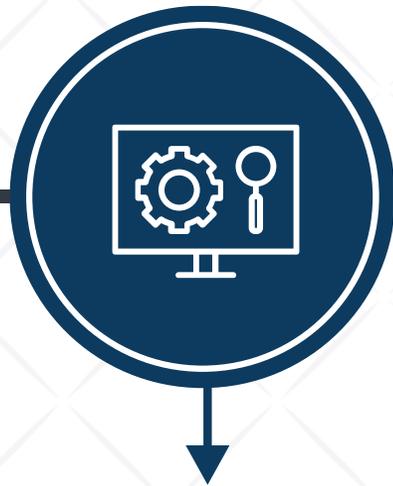
Will you require complex warehousing logic - including picking rules and directed worker guidance via a mobile device?

Will you be integrating with a 3PL or other external logistics partner?

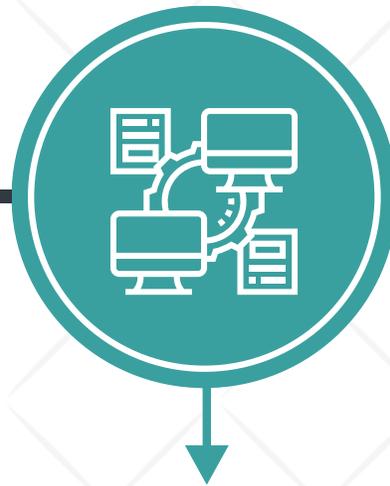
Benefits of Advanced Migration Assessment



**Helps to identify
best action
plan to migrate to
cloud
& saves time**



**Diagnoses functional
and technical gaps &
provides
recommendations
for the future**



**Ensures
migration readiness
& determines how
to best handle
customizations and
data**



**Eliminates risks
at the early
stages**



**Free from
upfront financial
commitment or
obligations**

Customers who successfully did AMA with us



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know how...