

Migration

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What's new:
Migrating to Business Central online

The slide features a dark background with the title in light blue. On the right side, there is a graphic of three overlapping, semi-transparent blue diamond shapes. A small red 'K' icon is visible in the bottom right corner of the slide area. A vertical navigation menu is on the left side of the browser window.

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Agenda

What's new for the cloud migration in 2021 release wave 1

The slide has a white background with a blue header bar. The text is in a clean, sans-serif font. On the right side, there is a video inset showing a man in a dark polo shirt speaking. A laptop is visible in front of him. A red 'K' icon is in the bottom right corner of the video inset. The same vertical navigation menu is on the left side of the browser window.

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Azure Data Factory

Azure SQL Server

Business Central online

Business Central Intelligent Cloud App

Azure SQL Database (environment) Read-only

Microsoft SQL Server (on-prem)

Self-hosted Integration Runtime (Azure Data Factory)

Video feed of a presenter.

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2020 release wave 2 (October)

The theme of the cloud migration tooling efforts was:

GP migration

Video feed of a presenter.

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Master Data


- Chart of Accounts
- Segments
- Customers (filtering on active/inactive*, additional customer addresses*)
- Vendors (additional vendor addresses*)
- Inventory: Items, Locations, Quantity on Hand, Serial/Lot Information
- Checkbooks (Bank Accounts)*

Historical data:

- Receivables, Payables, Sales Order Processing, Purchase Order Processing, and Inventory (stored in extension tables *)

Multiple companies *

Support for AU localization *



Microsoft Dynamics GP

* Dynamics GP 2015 and up

Transactions


- Open Receivables transactions
- Open Payables transactions
- Open Purchase Orders*

Supporting data:

- Salespeople, payment terms, shipping method ID, additional ship to and order addresses; posting groups created from posting setup at company level

Export to Azure Data Lake *

<https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/migrate-dynamics-gp>


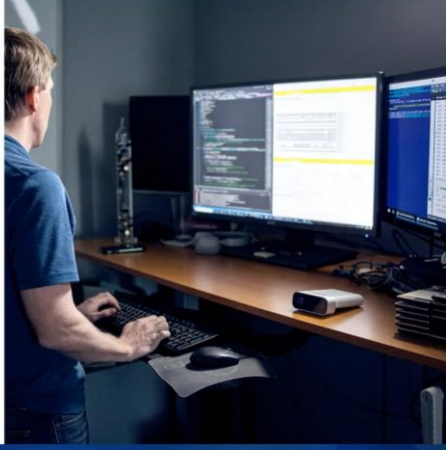


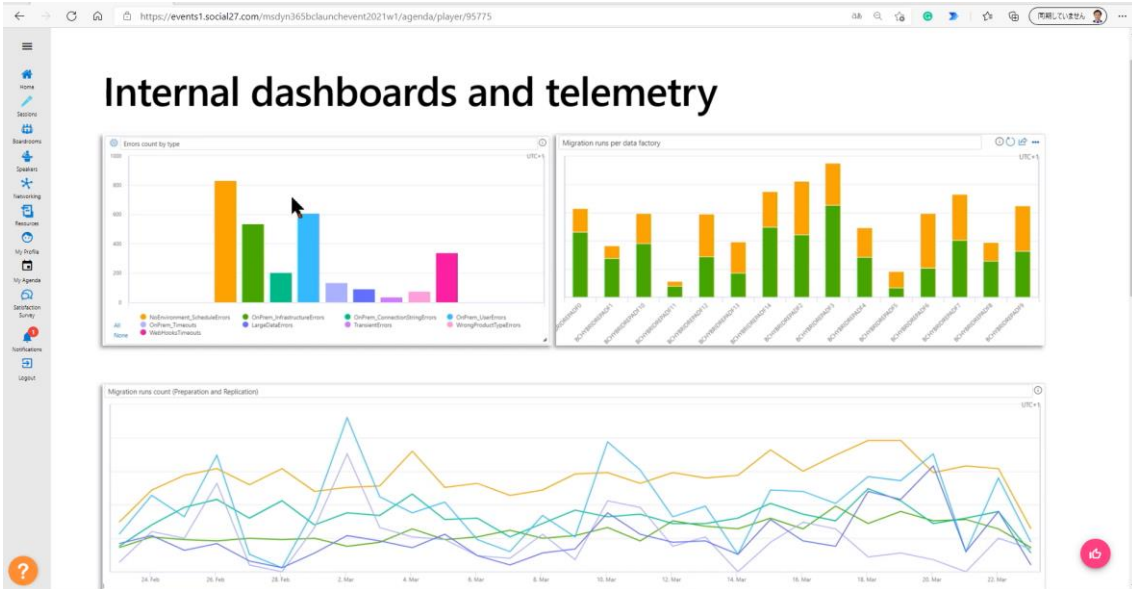
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2021 release wave 1 (April)

The theme of the cloud migration tooling efforts:

Service hardening



```

}, "Er is een ongeldige databaseverbindingsreeks opgegeven" // "Invalid database connection string provided" in Dutch
, "ErrorCode=UserErrorInvalidDbConnectionString"
, "Type=System.ArgumentException,Message=Keyword not supported" // error in connection string
});
let OnPrem_Infrastructure = dynamic([
  "is not able to access the database"
  , "is not found in this key vault." // unexisting IR name used in Preparation
  , "SystemErrorOutOfMemory" // IR is out of memory
  , "Could not find stored procedure"
  , "Invalid object name 'dbo.Intelligent Cloud'" // attempt to set up Cloud Migration from v.11 - create a bug
  , "Object of type CodeUnit with ID 4014 could not be found."
  , "A database operation failed with the following error: 'Invalid object name"
  , "'COMPRESS' is not a recognized built-in function name." // SQL server below 2016
  , "'COMPRESS' wird nicht als Name einer integrierten Funktion erkannt." // SQL server below 2016
  , "Incorrect syntax near 'THROW'" // SQL server below 2012
  , "the 'PRIMARY' filegroup is full" // on-prem SQL server resource starvation
  , "insufficient disk space in filegroup 'PRIMARY'" // on-prem SQL server resource starvation
]);
let OnPrem_User = dynamic([
  "compatibility level"
  , "must be on the same major version"
  , "You do not have access to"
  , "You do not have a paid license"
  , "your license has expired"
  , "(403) Forbidden"
  , "CREATE PROCEDURE permission denied in database"
  , "permission was denied on the object"
  , "(Dynamics 365 Business Central) is disabled"
  , "Business Central on-premises must be on at least version 14 and within three major versions of the online instance."
  , "No companies have been selected to replicate"
  , "Replication Run is already in progress"
  , "Invalid object name 'CHELTEN$Country_Region' // msft1a6720t08493401_SL_InternalReplication, BCHYBRIDREPADF9 - company not created properly?
  , "value of type String from the data source cannot be converted to type decimal" // SL data mapping error
  , "Cannot insert the value NULL into column 'Balance'" // msft1a6720t96833040_SL_InternalReplication, BCHYBRIDREPADF4
  , "does not allow DBNull.Value"
]);
let sqlVariant = dynamic([
  "The data type object is not supported." // sql_variant
  , "Het gegevenstype object wordt niet ondersteund" // sql_variant in dutch
]);
let FollowingPreceeded = dynamic([

```

Troubleshooting guide

The screenshot shows a Microsoft Docs page for 'Troubleshooting Cloud Migration'. The page content includes sections like 'In this article', 'SQL server compatibility level', 'Migration size', 'Change tracking', 'User permissions', 'Self-hosted integration Runtime', 'Migrating between multiple source and destination databases', and 'Product version'. A URL is provided at the bottom: <https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/administration/migration-troubleshooting>. A presenter is visible in the background on the right side of the slide.

Not a hard limit, you can contact MS support.

Dealing with larger sizes

The diagram illustrates the data migration process. It shows a 'Microsoft SQL Server (on-prem)' connected to a 'Self-hosted Integration Runtime (Azure Data Factory)'. An arrow labeled '80Gb' indicates the data flow from the on-prem server to the integration runtime. Another arrow points from the integration runtime to an 'Azure SQL Database (environment)'. The text 'Increased the default upload limit to 80Gb' is positioned above the diagram.

The screenshot shows the 'Vendors' list in Dynamics 365 Business Central. The list includes columns for 'No.', 'Name', 'Location Code', and 'Phone No.'. The 'Name' column is expanded to show a dropdown menu with various vendor types and names.

No.	Name	Location Code	Phone No.
ACCEPTAV	Dynamics GP Payables Transactions	2985501010000	
ADVANCEI	Dynamics GP Receivings Line Items	6185501020000	
ALLENSON	Dynamics GP Receivings Transactions	3125501030000	
AMERICAR	Vendor and Purchaser	3125501040000	
ASSOCIATI	Blocked Vendors	8005501070000	
ATTRACTE	Vendor Order Addresses	3125501050000	
AUSTRALE	Vendor Balance	6165501380000	
AUTOFINA		3125501090000	
BEAUMOR		5145501100000	
BERGERON0001	Bergeron Communications Sol.	3125501110000	
BLOOMING0001	Bloomington County	9355501120000	
BURNETT0001	Burnett Travel Associates		

Unblocked migration of large history tables for GP (> 1Gb)

Guiding users within the product

The screenshot shows the Dynamics 365 Business Central interface. At the top, there is a navigation bar with tabs for Finance, Cash Management, Sales, Purchasing, Setup & Extensions, and Intelligent Cloud Insights. Below this, there are sections for Customers, Vendors, Items, Bank Accounts, and Chart of Accounts. A notification banner at the top states: "Notifications: 2" with two items: "Yes! The data you chose was successfully migrated. Don't show again" and "You are assigned to the Global Administrator role in Business Central but you are not assigned to a product license. Learn more". Below the notification, there is a "Cloud Migration Management" page with a sub-header "Work Date: 4/6/2020". A notification on this page says: "Cloud migration was not set up. To migrate data to the cloud, complete the wizard. Open page". Below this, there is a table with columns: Start Time, End Time, Trigger Type, Migration Type, Status, Source, and Details. The table is currently empty, with the text "(There is nothing to show in this view)". To the right of the table is a "Migration Information" section showing "Migration Statist..." and a count of "0" for "Tables Successful".

Guiding users within the product

The screenshot shows two "Data Migration Setup" dialog boxes side-by-side. The left dialog box is titled "Data Migration Setup" and has a sub-header "Choose Your Product". It contains the text "Select the product that you want to migrate data from" and a dropdown menu with "Dynamics GP" selected. Below this, it says: "Use this option if you are migrating from Dynamics GP. The migration process transforms the Dynamics GP data to the Dynamics 365 Business Central format." The right dialog box is also titled "Data Migration Setup" and has the same sub-header. It contains the text "Select the product that you want to migrate data from" and a dropdown menu with "Dynamics 365 Business Central current ..." selected. Below this, it says: "Use this option if your on-premises deployment of Dynamics 365 Business Central is the same major version as this Dynamics 365 Business Central online environment. Because they are the same version, the migration will only copy the data and not run any upgrade processes. Also, if you run the migration multiple times, the tool will synchronize the delta changes and not the full data set." The background shows the Dynamics 365 Business Central interface with a navigation bar for "CRONUS USA, Inc." and a notification banner at the bottom that reads: "Business Central on-premises must be on the same major version as the online instance. Check if the version was set correctly on the database. For more information, see the documentation - https://go.microsoft.com/fwlink/?linkid=2148701."

Post upgrade initialization of the companies

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Dynamics 365 Business Central | Contoso-SandUS

Cloud Migration Manager | Hybrid Companies List

Search | Schedule company initialization | Mark company as initialized

Name ↑	Display Name	Company Initialization Status	Company Initialization Failure
TWO	Fabrikam, Inc.	Not Initialized	

Start Time ↓

- 12/4/2020 5:37 PM
- 12/3/2020 3:52 PM

RIP Intelligent Cloud Insights

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Dynamics 365 Business Central | v18Preview

CRONUS USA, Inc. | Finance | Cash Management | Sales | Purchasing | Setup & Extensions | Intelligent Cloud Insights

Customers | Vendors | Items

Insight from last month

The best ATHENS sold

Activities

Intelligent Cloud Insights

KPIs

\$98,188	16.3%	\$101,953
Cash Available	Sales Profitability	Net Income

\$73,141
Inventory Value

Power BI >

Azure ML >

Insights

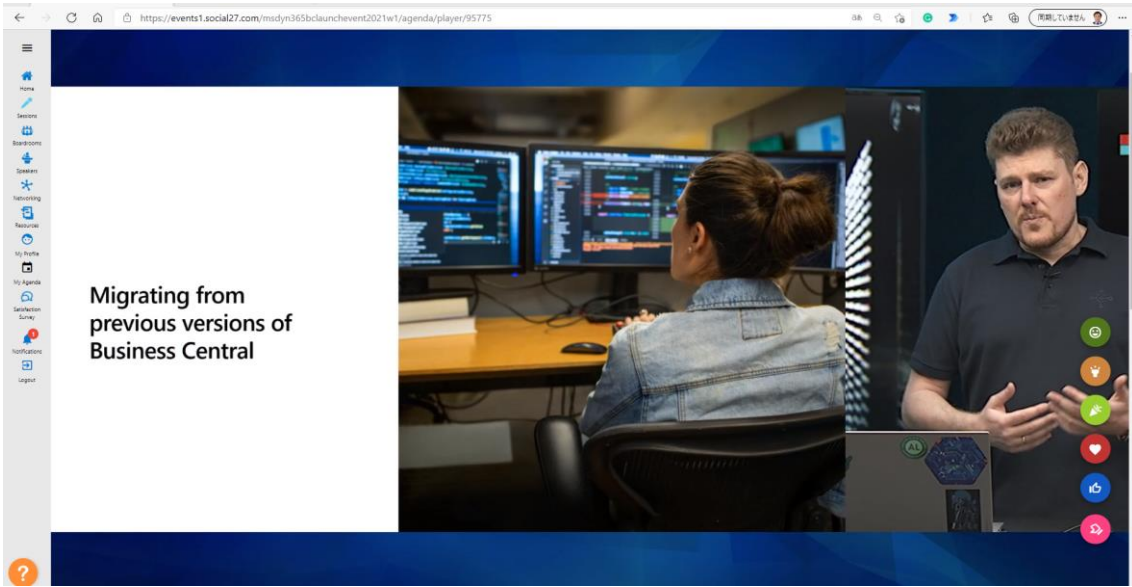
- 10 of your customers are late with their payments to you
- 2 invoices are supposed to be paid by your customers this ...
- 13 invoices weren't paid by you on time
- 0 invoices from vendors should be paid this week

Quote > New | Order > Payments | Invoice > Reports

> Setup | Excel Reports

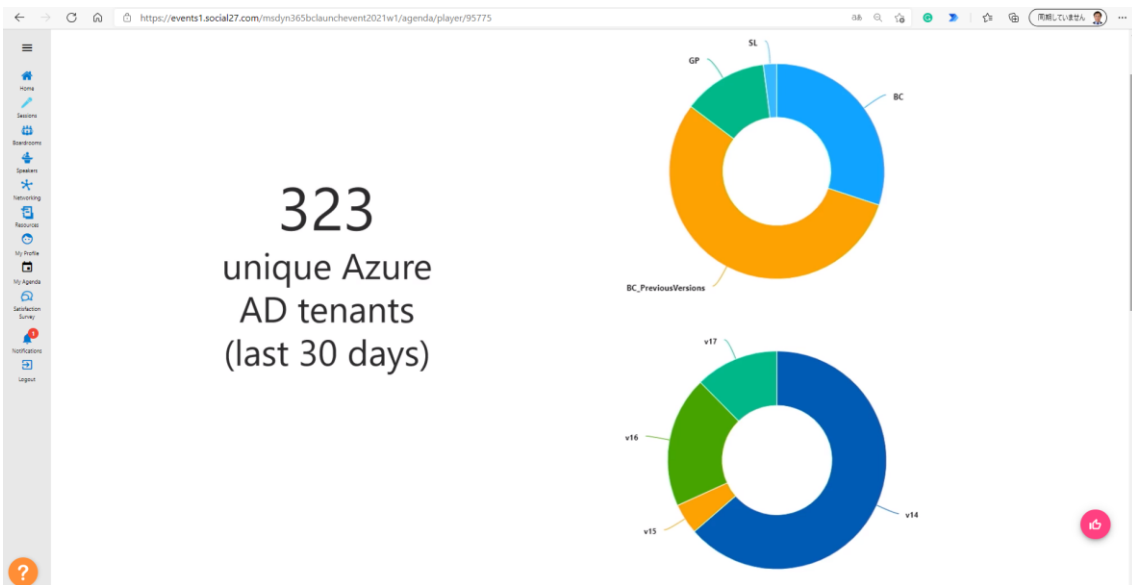
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Migrating from previous versions of Business Central



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323 unique Azure AD tenants (last 30 days)



Category	Color
GP	Green
SL	Light Blue
BC	Dark Blue
BC_PreviousVersions	Orange
v17	Green
v16	Dark Green
v15	Orange
v14	Dark Blue

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Migrating data from previous versions

The diagram illustrates the migration of data from on-premise databases to online cloud databases. It shows a sequence of versions: v.14, v.15, ..., v.18 (Wave 1 2021). On-premise databases are represented by cylinder icons, and online databases are represented by SQL icons. Arrows indicate the flow of data from on-premise to online. A large blue arrow points from the on-premise side to the online side, indicating the migration process.

Online: v.14 v.15 ... v.18 (Wave 1 2021)

On-prem: v.14 v.15 ... v.18

Video feed of a presenter.

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Code is shared on GitHub

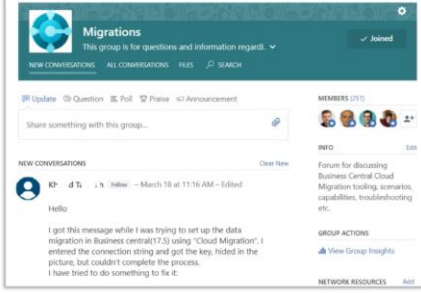
The screenshot shows a GitHub repository for Microsoft/ALAppExtensions. The repository is named "ALAppExtensions" and has 71 watches, 315 stars, and 224 forks. The current branch is "master". The repository contains a folder named "MigrationApps" which includes several sub-folders for different regions: DynamicsGPHistorySmartLists/app, HybridBC, HybridBCLast, HybridBCLast_AF, HybridBCLast_AU, HybridBCLast_BE, HybridBCLast_CA, HybridBCLast_CH, and HybridBCLast_CZ. Each folder has a description and a date of the last update.

Folder Name	Description	Last Update
DynamicsGPHistorySmartLists/app	Add migration apps.	4 months ago
HybridBC	Update to 17.4	last month
HybridBCLast	Update to 17.4	last month
HybridBCLast_AF	Update to 17.4	last month
HybridBCLast_AU	Update to 17.4	last month
HybridBCLast_BE	Update to 17.4	last month
HybridBCLast_CA	Update to 17.4	last month
HybridBCLast_CH	Update to 17.4	last month
HybridBCLast_CZ	Update to 17.4	last month

<https://github.com/microsoft/ALAppExtensions/tree/master/MigrationApps>

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Yammer group to collaborate on issues, improvements



The screenshot shows a Yammer group interface. The group name is 'Migrations' and it is described as 'This group is for questions and information regard...'. There are tabs for 'NEW CONVERSATIONS', 'ALL CONVERSATIONS', 'FILES', and 'SEARCH'. A post is visible with the text: 'Hello I got this message while I was trying to set up the data migration in Business central(17.3) using "Cloud Migration". I entered the connection string and got the key, hidden in the picture, but couldn't complete the process. I have tried to do something to fix it.'

https://www.yammer.com/dynamicsnavdev/#/threads/inGroup?type=in_group&feedId=48311992320

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Packaged GP migration offers and partner coaching



- Cloud Ready Software
- OneBizz
- 1clickFactory
- Alletec
- Innova Consulting
- Velosio
- QBS Group
- Enavate

... and more!

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<https://aka.ms/bclearn>