

Dynamics 365 F&O Data Archive

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Agenda

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- Business Challenge
 - Introduction to Archive Framework
 - Installing Archive
 - Walkthrough of Archive Scenarios
 - General Ledger
 - Sales Orders
 - How to handle customizations
 - Q&A

Business Challenge

•**Business case:**

- Dynamics 365 Finance and Operations applications customers naturally generate business data at a regular cadence over time.
- On an average, medium to upper-mid market businesses accumulate > 1TB of data in less than 5 years.
- The data growth is directly proportional to the age of the business and the number of transactions made YoY.

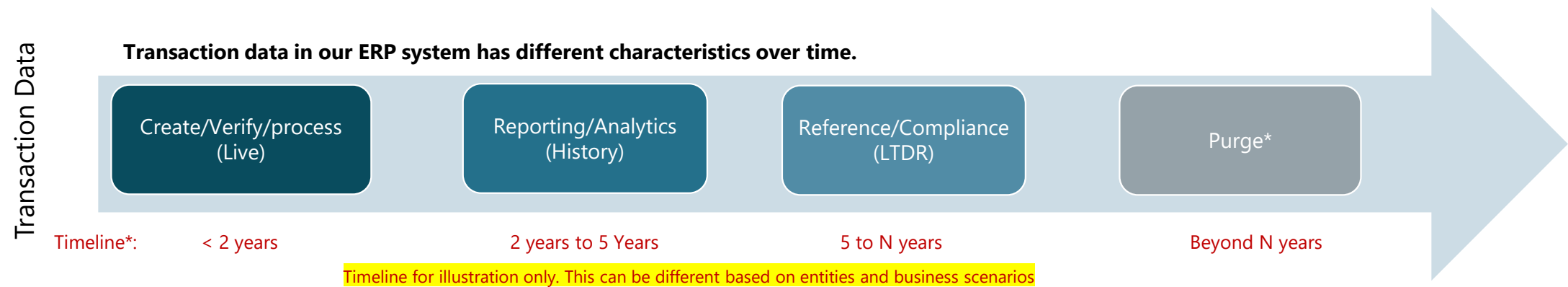
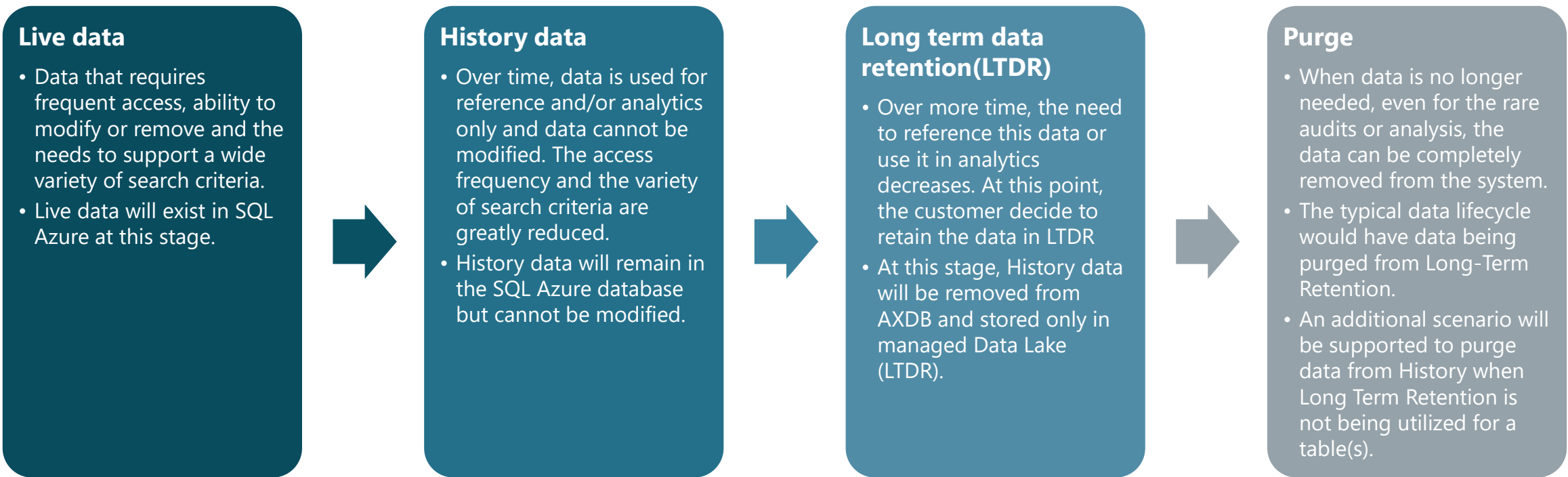
•**Challenges:**

- Maintaining the huge volume of historical data alongside live data creates performance issues.
- Performance of existing processes degrade over time when older data remains.
- SQL server indexing can only help up to a certain limit.
- Concerns about the database expansion and ability of ERP/CRM systems to support the transaction growth expected in their near future

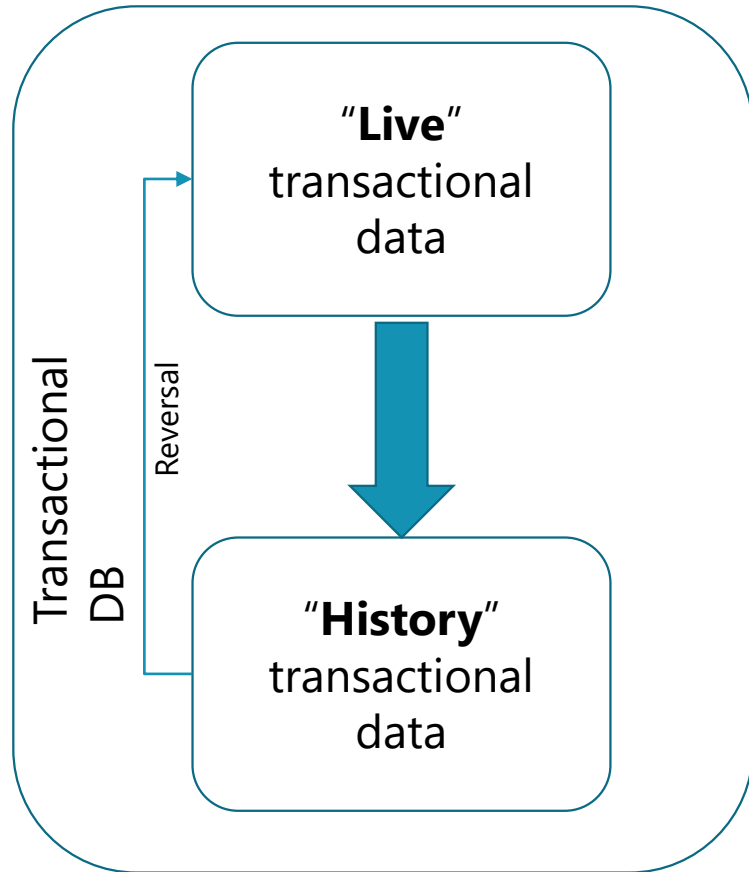
•**Opportunity:**

- Optimizing data storage based on access needs to improve overall performance

Transaction Data Lifecycle



Archive Framework – Data Flow



Move to History:

User requests to move their data to history in the F&O Workspace.

The following steps happen as a single process from the user perspective:

- F&O copies the data range specified from the Live tables to the History tables.
- F&O removes the data range specified from the Live tables.

Reversal:

If the customer determines that the data was moved to history in error, all the data that was moved by the erroneous archive job can be reversed back to the Live tables

Installing Archive

Open 'Install a new Add-in' on LCS

Select an add-in to install

(Preview) Archive

This feature lets you execute data archive for select high volume areas of the product. The archive is performed by a micro-service. Once this add-in is installed enable the feature in feature management.

[Learn more](#)

(Preview) Global Inventory Accounting

The Global inventory accounting for Dynamics 365 Supply Chain Management facilitates accounting of inventory in multiple ledgers, enabling dual currency and dual valuation. This feature is not for production use and is subject to the same terms of use described in the "Supplemental Terms of Use for Microsoft Dynamics 365 Previews" (<https://go.microsoft.com/fwlink/?linkid=2105274>).

[Learn more](#)

Export to Data Lake

Connect your environment with an Azure Data Lake and unlock insights hidden in your data

The storage account must be in the same Azure region as your designated environment otherwise you may incur additional Azure consumption charges for data movement

By enabling this add-in, you will connect this environment to your designated Azure data Lake storage. Authorized users can copy data from this environment into your Azure Data Lake that can be accessed by other Azure services

[Learn more](#)

Click on (Preview) Archive

Setup add-in

(Preview) Archive

This feature lets you execute data archive for select high volume areas of the product. The archive is performed by a micro-service. Once this add-in is installed enable the feature in feature management.

[Learn more](#)

☒ By clicking Install, you agree to these [terms and conditions](#)

Enable required Archive scenario via Feature Management



Feature management

Do not enable new features automatically

New

2

Not enabled

324

New Not enabled Scheduled All

| Feature name | ↑ Status | Enable date | Feature added ↓ | Feature state | Module | ⋮ |
|--|----------|-------------|-----------------|---------------|-----------------------|---|
| (Preview) Archive sales orders to history tables | ✓ | 2/2/2023 | 2/2/2023 | Preview | Sales and marketing | |
| (Preview) Archive sales orders to history tables using archive service | ✓ | 2/2/2023 | 2/2/2023 | Preview | Sales and marketing | |
| (Preview) Archive | ✓ | 1/30/2023 | 1/30/2023 | Preview | System administration | |
| (Preview) Ledger archive automation | ✓ | 1/30/2023 | 1/30/2023 | Preview | General ledger | |

Archive Scenarios

- **Sales Order** data consists of these tables:

- SalesTable
- SalesLine

- **General Ledger** data consists of these tables:

- GeneralJournalEntry
- GeneralJournalEntry_W
- GeneralJournalAccountEntry
- GeneralJournalAccountEntry_W
- LedgerEntryJournalizing
- SubledgerVoucherGeneralJournalEntry
- LedgerTransSettlement
- LedgerEntry
- LedgerEntryJournal
- LedgerConsolidateHistRef

Demo

Speaker name

Contoso Entertainment System USA

Search people ...

< May 2023 >

| Su | Mo | Tu | We | Th | Fr | Sa |
|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

Work items assigned to me ^

Cash advance request : Record ret...

Expense reports : Record returned

Catalog : catalog approval

Expense reports : Expense report a...

Cash advance request : Cash advan...

Approve travel requisition

Catalog : catalog approval

Archive

Category and product
management

Customer payments

Financial analysis -
current company

My business processes

Product variant model
definitionSales order processing
and inquiry

Bank management

Channel deployment

Data management

Financial period close

Optimization advisor

Production floor
management

Sales return processing

Benefits

Channel merchandising
configuration validator

Data validation checklist

Fixed asset management

Outbound work
monitoring

Project management

Store financials

Budget planning

Compensation
managementDistributed order
managementGeneral journal
processing

Outbound work planning

Purchase order
confirmation

Store management

Business document
managementCost accounting ledger
administration

Electronic reporting

Invoicing

Payroll management

Purchase order
preparation

System administration

Business processes for
human resources

Cost administration

Employee development

Learning

People

Purchase order receipt
and follow-up

Task management

Business processes for
payroll

Cost analysis

Employee self service

Leave and absence

Personnel management

Recruitment
management

Vendor bidding

Cash overview - all
companies

Cost control

Expense management

Ledger budgets and
forecastsPricing and discount
managementReleased product
maintenance

Vendor information

Cash overview - current
companyCustomer credit and
collections

Feature management

Maintenance request
managementProduct readiness for
discrete manufacturingResource lifecycle
managementVendor invoice
automation

Historical Inquiry

Standard view

Overview

Filter

| <input type="radio"/> Sales order | ↑ Customer name | Customer account | Invoice account | Order type | Status |
|---|----------------------------|------------------|-----------------|-------------|----------|
| <input checked="" type="radio"/> 000466 | Contoso Europe | DE-001 | DE-001 | Sales order | Invoiced |
| 000467 | Contoso Retail San Diego | US-001 | US-001 | Sales order | Invoiced |
| 000468 | Contoso Retail Los Angeles | US-002 | US-002 | Sales order | Invoiced |
| 000469 | Forest Wholesales | US-003 | US-003 | Sales order | Invoiced |
| 000470 | Cave Wholesales | US-004 | US-004 | Sales order | Invoiced |
| 000471 | Contoso Retail Seattle | US-005 | US-005 | Sales order | Invoiced |
| 000472 | Contoso Retail Portland | US-006 | US-006 | Sales order | Invoiced |
| 000473 | Desert Wholesales | US-007 | US-007 | Sales order | Invoiced |
| 000474 | Sparrow Retail | US-008 | US-008 | Sales order | Invoiced |
| 000475 | Owl Wholesales | US-009 | US-009 | Sales order | Invoiced |
| 000476 | Sunset Wholesales | US-010 | US-010 | Sales order | Invoiced |
| 000477 | Contoso Retail Dallas | US-011 | US-011 | Sales order | Invoiced |
| 000478 | Contoso Retail New York | US-012 | US-012 | Sales order | Invoiced |
| 000479 | Pelican Wholesales | US-013 | US-013 | Sales order | Invoiced |

Lines

General

Display dimensions

| <input type="radio"/> Item number | Product name | Site | Warehouse | Location | Net amount |
|--|-------------------|------|-----------|----------|------------|
| <input checked="" type="radio"/> D0001 | MidRangeSpeaker | 1 | 13 | | 50,820.00 |
| L0001 | MidRangeSpeaker2 | 1 | 13 | 13 | 37,884.00 |
| P0001 | AcousticFoamPanel | 3 | 32 | | 70,620.00 |

Sales Order historical inquiry

Finance and Operations Preview

Audit trail Options

Voucher transactions history

Standard view

Filter

Overview General

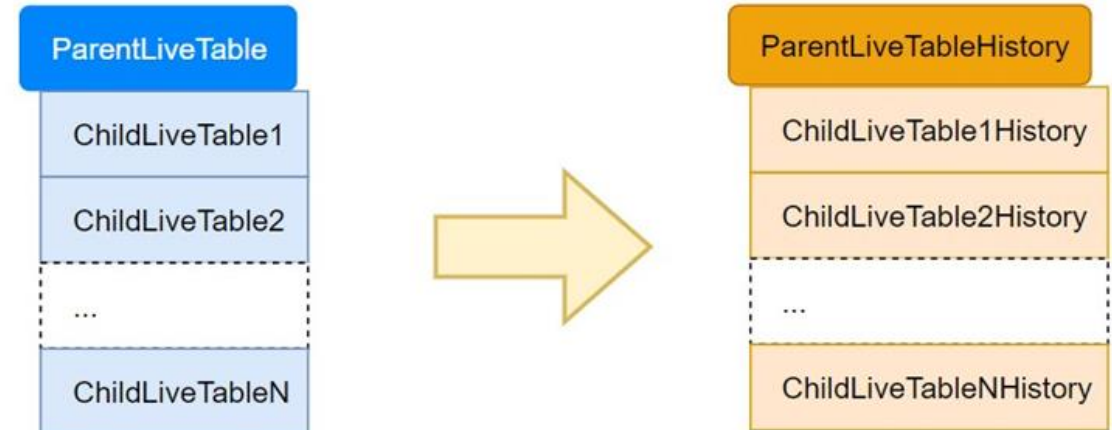
| <input type="radio"/> Journal no... | Voucher | Date | Ledger account | Account name | Description | Currency | Amount in... | Amount | Amount in... |
|-------------------------------------|-------------|------------|----------------|------------------------------------|-------------------|----------|--------------|---------------|--------------|
| 020526 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -4,534.20 | 4,534.20 | -4,534.20 |
| 020526 | APPM001... | 12/31/2016 | 200100-001- | Accounts Payable - Domestic | | USD | 4,534.20 | 4,534.20 | 4,534.20 |
| 020527 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -5,178.94 | 5,178.94 | -5,178.94 |
| 020527 | APPM001... | 12/31/2016 | 200100-001- | Accounts Payable - Domestic | | USD | 5,178.94 | 5,178.94 | 5,178.94 |
| 020528 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -4,969.80 | 4,969.80 | -4,969.80 |
| 020528 | APPM001... | 12/31/2016 | 200100-001- | Accounts Payable - Domestic | | USD | 4,969.80 | 4,969.80 | 4,969.80 |
| 020529 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -575.00 | 575.00 | -575.00 |
| 020529 | APPM001... | 12/31/2016 | 200110-001- | Accounts Payable - Other | | USD | 575.00 | 575.00 | 575.00 |
| 020530 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -575.00 | 575.00 | -575.00 |
| 020530 | APPM001... | 12/31/2016 | 200110-001- | Accounts Payable - Other | | USD | 575.00 | 575.00 | 575.00 |
| 020809 | APPM001... | 12/31/2016 | 110110-001- | Bank Account - USD | | USD | -94,400.00 | 94,400,000.00 | -94,400.00 |
| 020809 | APPM001... | 12/31/2016 | 200110-001- | Accounts Payable - Other | | USD | 94,400.00 | 94,400.00 | 94,400.00 |
| 020810 | ARPM000... | 12/31/2016 | 110160-001- | Bank Account - Payroll | | USD | 4,250,000.00 | 4,250,000.00 | 4,250,000.00 |
| 020810 | ARPM000... | 12/31/2016 | 130100-001- | Accounts Receivable - Domestic | | USD | -4,250.00 | 4,250,000.00 | -4,250.00 |
| 020825 | FTV-3000... | 12/31/2016 | 401100-001--- | Product Sales | Free text invoice | USD | -4,250.00 | 4,250,000.00 | -4,250.00 |
| 020825 | FTV-3000... | 12/31/2016 | 130100-001- | Accounts Receivable - Domestic | Free text invoice | USD | 4,250,000.00 | 4,250.00 | 4,250,000.00 |
| 020826 | PIV-1100... | 12/31/2016 | 601300-001--- | Advertising Expense | Vendor invoice | USD | 94,400.00 | 94,400.00 | 94,400.00 |
| 020826 | PIV-1100... | 12/31/2016 | 200110-001- | Accounts Payable - Other | Vendor invoice | USD | -94,400.00 | 94,400,000.00 | -94,400.00 |
| 020827 | 140000654 | 12/31/2016 | 200110-001- | Accounts Payable - Other | | USD | 0.00 | 0.00 | 0.00 |
| 020827 | 140000654 | 12/31/2016 | 520200-001--- | Vendor Cash Discounts Taken | | USD | 0.00 | 0.00 | 0.00 |
| 020831 | GNIL0007... | 12/31/2016 | 601300-001--- | Advertising Expense | | USD | -28,500.00 | 28,500,000.00 | -28,500.00 |
| 020831 | GNIL0007... | 12/31/2016 | 180100-001- | Tangible Fixed Assets | | USD | 15,000.00 | 15,000.00 | 15,000.00 |
| 020831 | GNIL0007... | 12/31/2016 | 180140-001- | Intangible Fixed Assets | | USD | 4,300,000.00 | 4,300.00 | 4,300,000.00 |
| 020831 | GNIL0007... | 12/31/2016 | 150100-001- | Production WIP-Clearing | | USD | 300,000.00 | 300.00 | 300,000.00 |
| 020831 | GNIL0007... | 12/31/2016 | 140200-001-022 | Finished Goods Inventory | | USD | 2,000,000.00 | 2,000.00 | 2,000,000.00 |
| 020831 | GNIL0007... | 12/31/2016 | 140100-002- | Raw Materials Inventory | | USD | 5,000,000.00 | 5,000.00 | 5,000,000.00 |
| 020831 | GNIL0007... | 12/31/2016 | 130300-001- | Accounts Receivable - Not Invoiced | | USD | 500,000.00 | 500.00 | 500,000.00 |

GL historical inquiry

Customization

Customers and partners can use customization to do the following:

- **Add additional fields to history table:** additional columns present on live tables need to be mirrored to the corresponding history table.
- **Add additional tables to archive criteria:** Additional live transaction tables can be added to archive criteria by extending job request creator class.



Archive customization development docs: [Adobe Acrobat Document](#)

Additional Call-Outs

Known Public Preview Limitations:

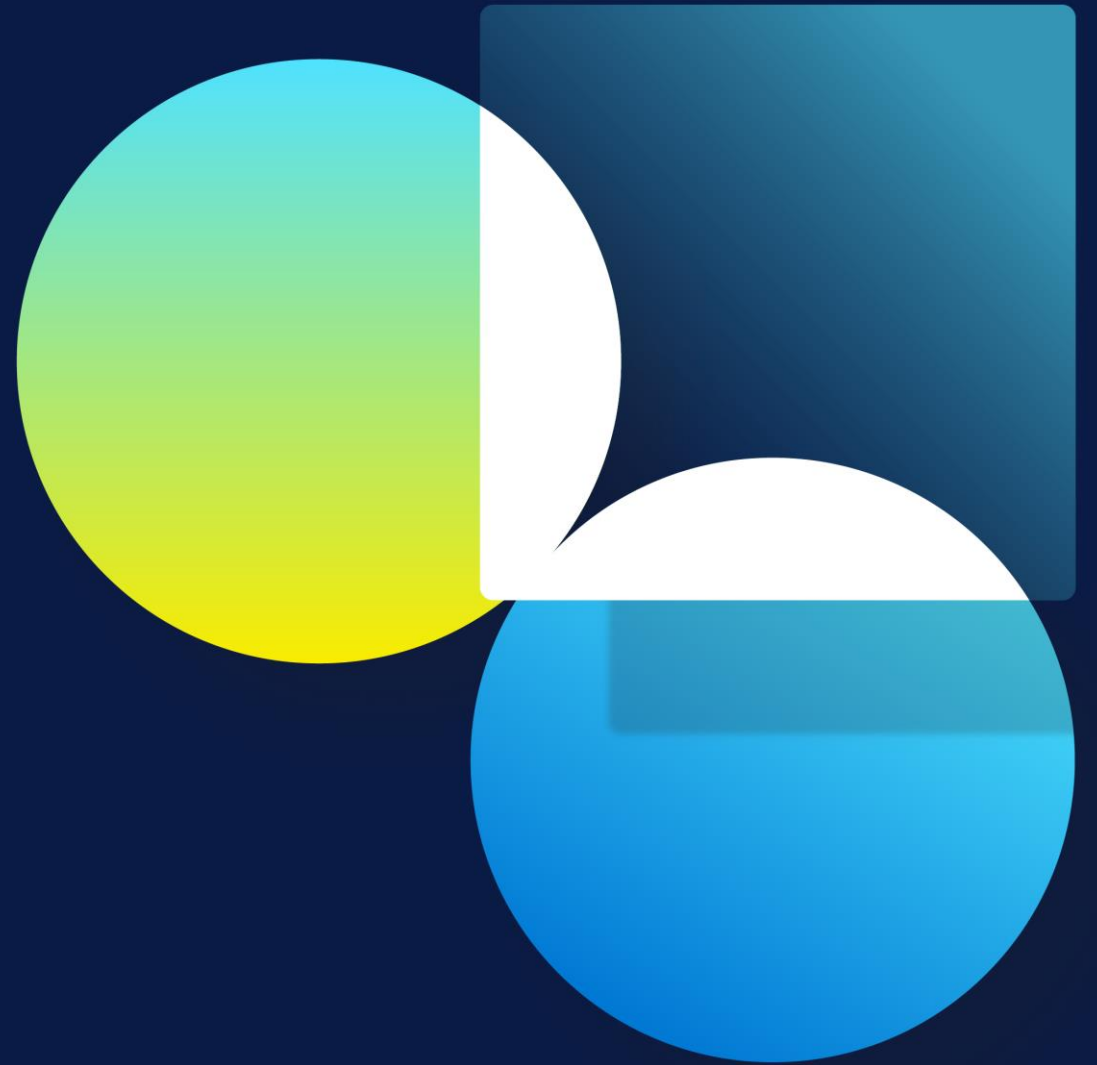
- Current scheduling via process automation does not permit the selection of multiple legal entities for archival
- For a given scenario, only 1 active job can be run at a time

These limitations shall be addressed by GA (Tentative: 10.0.36)

Reference

- Yammer: [Yammer : Dynamics 365 and Power Platform Preview Programs : Archive & Long term data retention : All Conversations](#)

Q&A



Thank you