

# Export to data lake – Finance and Operations Apps

Dynamics 365 FastTrack Architecture Insights

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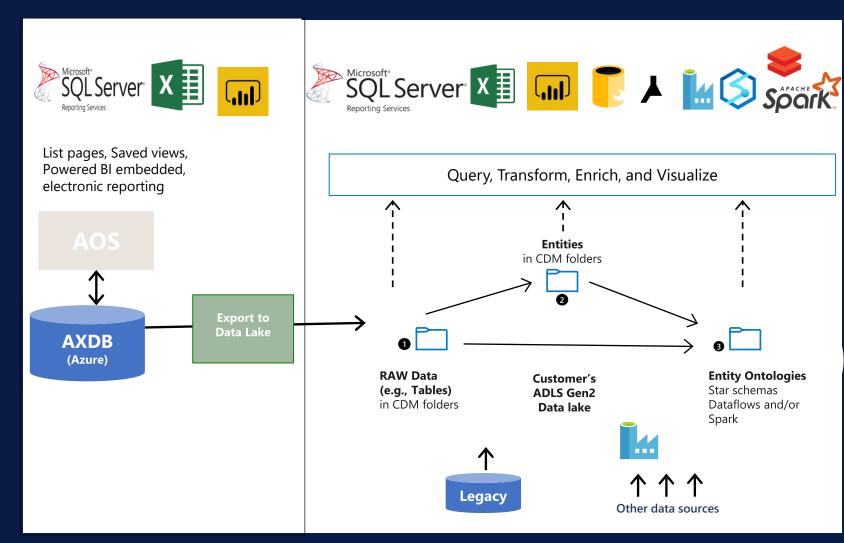
## Agenda

- Feature overview
- Comparing Export to data lake with BYOD
- · Query, Transform and Visualize
- · Common use cases
- FastTrack analytics solution templates
- · Q&A

## Export to data lake - Feature overview

#### What is it?

- Microsoft managed service based on microservice architecture.
- Enabled by installing LCS add-in
- Exports data to data lake and keep updated
- Use modern data technologies to query, transform and visualize



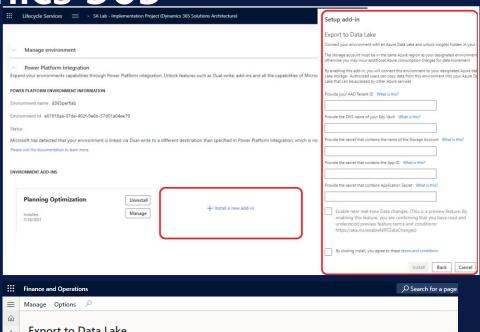
Connecting to Dynamics 365

Connect your data lake to Dynamics 365

2 Choose Data

3 System manages export

4 Configure data consumption



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	Base document	BaseDocument_IT	Not specified	Miscellaneous	Running			
	Time dimension values	BIDateDimensionValue	Reporting Services	Main	Running			
	General budget reservation	BudgetReservationHeader_PSN	Public sector	WorksheetHeader	Running			
	General budget reservation I	BudgetReservationLine_PSN	Public sector	WorksheetLine	Running			
	Vendor approved products	CatVendorApprovedProduct	Procurement II	Main	Running			
	Vendor catalogs	CatVendorCatalog	Procurement I	Main	Running			
	Vendor configuration	CatVendorChannel	Trade	Main	Running			
	CFOP codes	CFOPTable_BR	Not specified	Group	Running			
	Commission sales group	CommissionSalesGroup	Trade	Group	Running			
	NAF codes	CompanyNAFCode	Not specified	Group	Running			
	Confirming PO	ConfirmingPO	Trade	Miscellaneous	Running			
	Customer credit groups	CredManCreditLimitCustGroup	Not specified	Main	Running			

https://community.dynamics.com/365/dynamics-365fasttrack/b/techtalks/posts/export-to-azure-data-lake-overview-december-14-15-2021

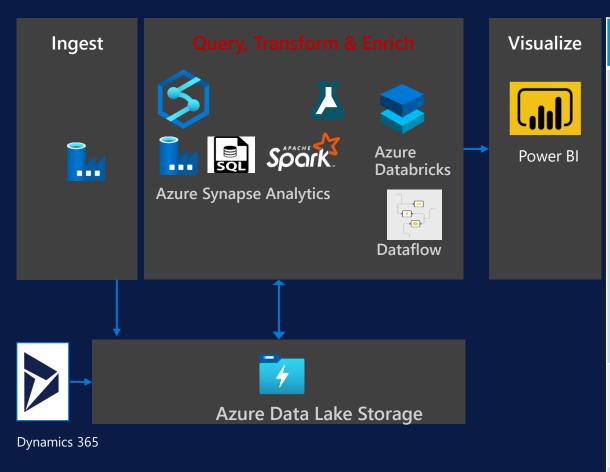
# Comparing Export to data lake with BYOD

	BYOD	Export to data lake
Cost	<ul> <li>Requires provisioning Azure SQL database</li> <li>Custom data entity development / extension required to export data</li> </ul>	<ul> <li>Low data lake storage cost</li> <li>Any standard or custom table available to export</li> </ul>
Performance Impact	<ul> <li>Utilize Batch jobs to export changes</li> <li>Utilize primary DB to read and export incremental changes</li> <li>Higher performance impact on operational system</li> </ul>	<ul> <li>Microservice sits outside of Finance and Operations env</li> <li>Utilize read only secondary DB to read changes</li> <li>Lower performance impact</li> </ul>
Maintenance and monitoring	Batch job scheduling /maintenance and monitoring is required	Service takes care of scheduling – no maintenance required from admin
Use cases	Traditional data warehouse, data integration using TSQL	Modern data warehouse architecture utilizing TSQL, Spark, data integration

#### Common use cases

- Modern data warehouse in the cloud
- Analytical and operational reporting
- Data mashup reporting
- Data warehouse integrations
- · Retire BYOD

## Query, transform and visualize



Services	Features	Description/ skill set			
Synapse analytics	Synapse pipelines (Azure data factory)	<ul> <li>Code-Free data ingestion &amp; ETL.</li> <li>90+ connector including on-prem systems.</li> <li>Similar to SSIS</li> <li>Use case: Data ingestion, data transformation(ETL) as low code.</li> <li>Skill set: Low code, TSQL, SSIS</li> </ul>			
	Spark pool	<ul> <li>Apache spark integrated with Synapse Analytics.</li> <li>Use case: Data preparation, data engineering, and machine learning.</li> <li>Skill set: Spark, Scala, Python, .NET, TSQL</li> </ul>			
	<ul><li>SQL pools</li><li>Dedicated</li><li>Serverless</li></ul>	<ul> <li>Distributed query system supporting TSQL</li> <li>Enables data warehousing and data virtualization.</li> <li>Use case: Enterprise data warehouse, ETL, logical data warehouse.</li> <li>Skill set: TSQL</li> </ul>			
Azure databricks	Apache spark Delta lake Data Lakehouse	<ul> <li>Apache Spark integrate with open-source libraries.</li> <li>Delta lake support.</li> <li>Data virtualization with Lakehouse</li> <li>Use case: Data prep, data engineering, Delta lake, Lakehouse</li> <li>Skill set: Python, Scala, R, and TSQL</li> </ul>			
Power BI	Power Bl Dataflow/ Power Query	Self-service visual data prep tool to prep data for Power BI  Use case: Skill set: Power query, M			



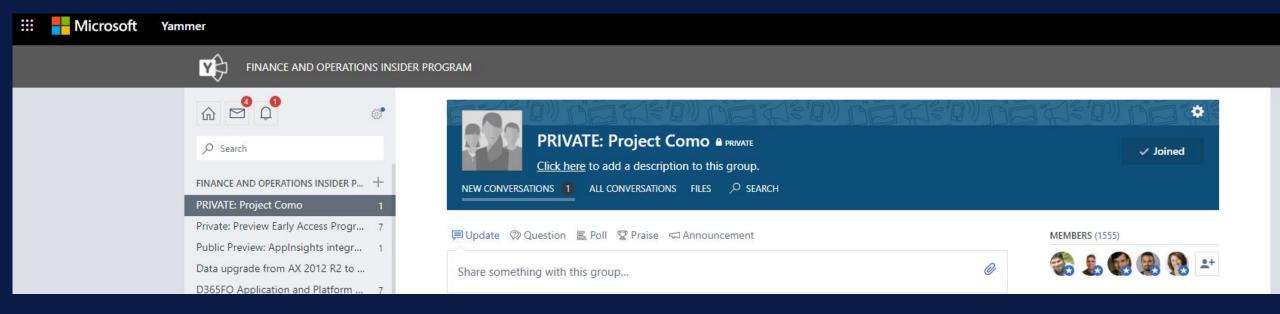
## Demo – FastTrack Analytics solution templates

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https://github.com/microsoft/Dynamics-365-FastTrack-Implementation-Assets/tree/master/Analytics

## Yammer group

https://www.yammer.com/dynamicsaxfeedbackprograms/#/threads/inGroup?type=in\_group&feedId=32768909312



# Thank you