Pro & Citizen symbiosis with Virtual Tables

Speaker name

- 6 Years in Dynamics 365 space
- Microsoft MVP
- Software developer in the ♥
- Bedroom DJ & noob wakeboader

✉ ivan.ficko@outlook.com

in linkedin.com/in/ivanficko

🐦 @DynamicsNinja

🌐 dynamicsninja.blog

nordic summit

Mislav Raguž-Vodenac

- Football enthusiast
- 3 years in Dynamics 365 and Power Platform world

✉ mrvodenac@span.eu

in Mislav Raguž-Vodenac

🐦 @mislav_raguz

nordic summit

Thank you to our Sponsors

Charter Sponsor

Platinum Sponsor

Organizing Sponsor

nordic summit

Thank you to our Sponsors

Gold Sponsors

experlogix

Silver Sponsors

Solgari   **ALSO**   **KingswaySoft**

AlfaPeople   **sopra steria**   **PROXIMO3**   **ClickDimensions**

Online Sponsors

European Power Platform Conference   **knk**

nordic summit

What are Virtual Entities?

> ▸ Virtual entities enable the integration of data residing in external systems by seamlessly representing that data as tables in Microsoft Dataverse

nordic summit

IF(1   Ivan Ficko (Span), 2021-10-16

The Ashes

- 2 years without update

- Read-only

- GUID as identifier

- 3 data providers
    OData, CosmosDB & Custom

- Only Pro dev tool

nordic summit

The Rebirth

- CRUD support

- IDs can be anything

- 4 data providers
   NEW: Virtual Connectors

- Low code friendly

- Newest feature
   Support for Dataverse events

nordic summit

Connectors

OData — GA
- Ships and available OOTB
- Updated to support full CRUD operations

Custom — GA
- Ships and available OOTB
- Updated to support full CRUD operations
- Plugin Registration Tool (PRT) updated to support operations mapping for Create, Update and Delete

CosmosDB — Private Preview
- Fixed SDK incompatibility issue

Virtual Connector Provider — Private Preview
- Ability to create virtual tables based on existing connections in Dataverse

nordic summit

Virtual Connectors

- Newest addition to the family

- SQL, SharePoint, Excel Online

- Citizen friendly

  Entity Catalog per data source

nordic summit

SQL

- Included in initial release of Virtual Connectors

- Stable

- No GUIDs
  Converts any ID to GUID locally

- SQL knowledge
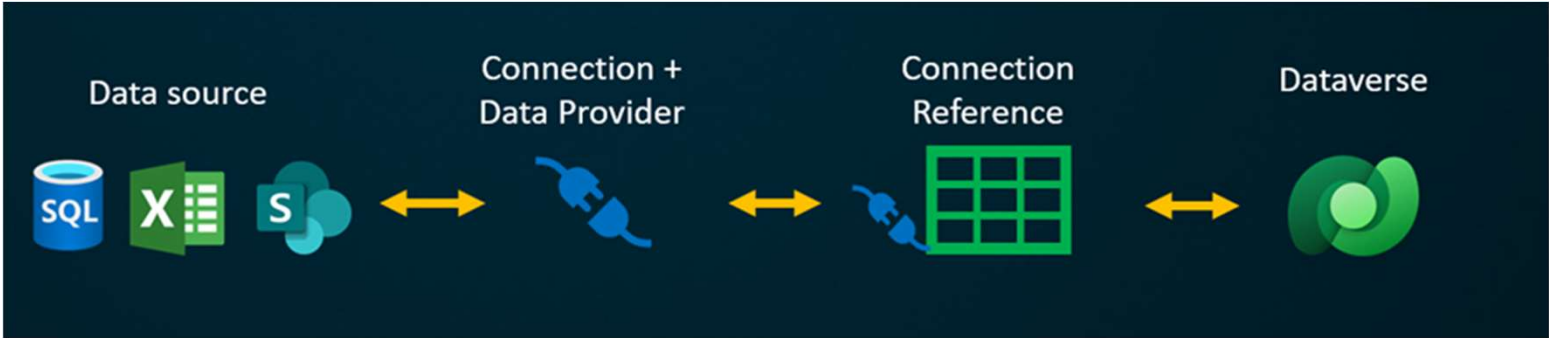 Issues are strongly technical related

SharePoint

- SharePoint ☺

- Based on lists

- Easy configuration
  Only site URL as parameter

nordic summit

Excel

- Excel is not a database

- Requires GUID

  Can be generated through formula in Excel

- Considerations

nordic summit

Virtual Connectors

Virtual Connector
DEMO

Dataverse events

- Virtual entity metadata
  - Enabling Dataverse events
- New events
  - OnExternalCreated
  - OnExternalUpdated
  - OnExternalDeleted
- Usage
  - Plugins
  - Workflows
  - Power Automate Flows

nordic summit

Dataverse events
DEMO

Security Issue

- Everyone can see everything
- Security on the data source side
  - Connection based
- Plugin solution
  - RetieveMultiple plugin
  - Prefiltering records
  - Custom owner field

nordic summit

Custom Security
DEMO

Pros & Cons

- Kinda Low-code friendly
  - New Wizard coming soon
- Saving $$$ storage
- Full CRUD support
- Dataverse Events
  - Flows, Plugins, Worflows
- Real-time changes
- More connectors TBA

- N:N relationship issue
  - Different datasources
- Lookups
  - Additional configuration
- Editing in Excel
- Security – organization owned
  - Handled in plugins
- Exceptions
  - Hard to debug

nordic summit

Thank you to our Sponsors

Charter Sponsor

Microsoft

Platinum Sponsor

avanade

Organizing Sponsor

CRMK

Gold Sponsors

experlogix

Silver Sponsors

Solgari

ALSO

KingswaySoft

AlfaPeople

sopra steria

PROXIMO3

ClickDimensions

Online Sponsors

European Power Platform Conference

knk

nordic summit

www.nordicsummit.info