

D365 F&O and B2G now Interface: Entity Details

B2G Now would need some of the key data entities to be sent from City's ERP System Dynamics 365 F&O. Currently, there are three main documents namely – Purchase Agreements, Purchase Orders and Invoices for which information is required. As per the analysis, this information/data can be divided into seven entities explained below:

- **Invoice Journal Entity** – This entity gives details about Vendor Invoice Journal from D365 F&O Application. A detail set of elements as well as mode of integration has been given below:
 - Type of Interface (Outbound / Inbound / Both) - Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Purchase Agreement Entity** – This entity gives details about Purchase Agreement Header information from D365 F&O Application. Some of the key elements of this entity are Document Title, External Document, Purpose, Purchase Agreement Number and Total Amount etc. A detail set of the elements as well as mode of integration has been given below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Purchase Agreement Confirmations Entity** – This entity gives details about Purchase Agreement Confirmations from D365 F&O Application. The main purpose of this entity is to see confirmation versions to track changes made to Purchase Agreements. This entity is linked with the Purchase Agreement entity. A detailed set of the elements as well as mode of integration has been given below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Purchase Order Header Entity** – This entity gives details about Purchase Order Header from D365 F&O Application. Some of the key elements of this entity are Description, Purchase Order Number and Total Amount etc. Integration details and the elements to be integrated are mentioned below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Purchase Order Line Entity** – This entity gives details about Purchase Order Lines from D365 F&O Application. This entity is linked with Purchase Order Header Entity. Integration details and the elements to be integrated are mentioned below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Accounting Distributions Entity** – This entity gives details about Accounting Distributions for the Purchase Order Lines from D365 F&O Application. This entity is linked with Purchase Order Header and Line Entity. Integration details and the elements to be integrated are mentioned below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD
- **Project/Grant Information Entity** – This entity gives details about Project/Grant information from D365 F&O Application. This acts as a master entity that can be linked with documents such as Purchase Agreement or Purchase Order. Integration details and the elements to be integrated are mentioned below:
 - Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
 - Integration Mechanism: Integration using OData service.
 - Data elements to be integrated are TBD

Integration Mechanisms – Key Assumptions

This section provides key assumptions regarding the integration that will be supported.

Integration Mechanisms:

- OData service with output in JSON format
- SOAP API and Json

Key Assumptions: A list of key assumptions regarding the integration mechanisms are provided.

- **Authentication:** Integration mechanisms will be accessed through client id and secret key (OAuth2 authentication).
- **Type of Interface:** Outbound from D365 to B2G now.
- **Data to be provided for each occurrence:** Full Data shall be provided for entities mentioned above. We have added “Created Date & Time” and “Modified Date and Time” can be used by B2G now for filtering on their side.
- **Naming convention for fields in entities:** D365 Field Names (Backend Names) for the fields in the Entities and actual mapping with B2G fields shall be shared post the development.
- **Naming convention for Entities:** D365 Entity Names proposed in the document may vary upon actual development.

D365 F&O and B2Gnow Interface: Estimated Effort & Cost

Estimate to develop and deploy these integrations from D365 F&O along with the associated cost have been provided below:

Particulars	Functional Efforts	Technical Efforts	Total Efforts	
Design and Analysis	20	20	40	
Development and Unit Test				
Invoice Journal		10		
Purchase Agreement		10		
Purchase Agreement Confirmation		10		
Purchase Order Header		10		
Purchase Order Line		10		
Accounting Distributions		20		
SEFA or Project related fields		10		
	0	80	80	
End to End Testing (Postman)				
Invoice Journal	3	3		
Purchase Agreement	3	3		
Purchase Agreement Confirmation	4	4		
Purchase Order Header	4	4		
Purchase Order Line	3	3		
Accounting Distributions	4	4		
SEFA or Project related fields	3	3		
	24	24	48	
Deployment		8	8	
Client Support	16	16	32	
Contingency to address minor changes during Client Support	20	30	50	
Project Management			32	
Total			290	
Estimated Cost in USD (excl. taxes)			50750	175/hr

About half of the work listed in this SOW has been completed. PO303024 expired before work was completed. The remaining dollars (26k) would be used to complete the remaining work list in this SOW.