B2Gnow: Data Integration with D365 F&O

Entity Details, Estimated Effort & Cost

V1.1

Date: 10th June 2021

D365 F&O and B2Gnow Interface: Entity Details

B2GNow would need some of the key data entities to be sent from City's ERP System Dynamics 365 F&O. Currently, there are four main data entities that would be integrated with B2Gnow: Vendor, Vendor Certification, Transactions & Main Account.

- **Vendor Data Entity** – This data entity owns a complete set of vendor data in City's D365 F&O Application. Some of the key elements of this entity are: Vendor Account, Address, contact information etc. A detail set of elements as well as mode of integration has been given below:
  - o Type of Interface (Outbound / Inbound / Both) - Outbound from D365 F&O.
  - o Integration Mechanism: Integration using OData service.
  - o Data elements to be integrated are:

Vendor Entity				
Vendor account	Owner is disabled	Extension	Address	Primary Contact Name (First and Last)
Locally owned	Owner is a service veteran	Created date and time	Address Line 1	Primary Contact Phone
Woman owner	Line of business	Modified date and time	Address Line 2	Company Fax
Ethnic origin	Group	Name	City	Business Name
Minority owned	Vendor hold	E-mail address	State	DBA Name
Small business	Phone	Number of employees	Zip Code	Tax ID Number/FEIN
Description (Line of business)				

- **Vendor Certification Entity** – This entity owns Vendor certification data. A detail set of the elements as well as mode of integration has been given below:
  - o Type of Interface (Outbound / Inbound / Both) – Both.
  - o Integration Mechanism: Integration using OData service.
  - o Data elements to be integrated are:

Vendor Certification Entity			
Vendor account	Vendor hold	Expiration date*	Modified date and time
Name	Certification date*	Created date and time	Modified by
Certification Type*	Effective date*	Created by	Certification Number*
Commodity Codes*	Ethnicity*	~~Number of Employees~~	~~Certified Since~~

The asterisk indicates inbound fields (from Talend/B2G)

Requesting the following new fields or rename existing fields to be added to this table:

Certified Commodity Codes*

Certified Ethnicity*

Certified Gender*

- **Transaction Entity –** This entity owns ledger transactions data. A detail set of the elements as well as mode of integration has been given below:
  - o Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
  - o Integration Mechanism: Integration using SOAP API and Json.
  - o Data elements to be integrated are:

Transaction Entity			
Party number	Document description	Currency	Line text
Party name	Posting type	Transaction type	Line description
Description	Account entry description	Document text	Line document reference
Journal number	Ledger account – • Ledger_account • Department • Division • Object class • Main account • Fund • Sub fund • Project	Product	Project ID
Date	Main account	Line number	
Voucher	Main account name	Quantity	Procurement category field from the Purchase order lines
Document	Amount	Unit	Vendor Account

Requesting the following fields to be added to this table: Procurement category field from the Purchase order lines and Vendor account number

- **Main Account Entity –** This entity owns Main account details. Integration details and the elements to be integrated are mentioned below:
  - o Type of Interface (Outbound / Inbound / Both) – Outbound from D365 F&O.
  - o Integration Mechanism: Integration using OData service.
  - o Data elements to be integrated are:

Main Account Entity		
Main Account Number	Name	Main Account Type

Additional Missing Fields

The following fields are also needed by ODI and should be added to the appropriate entity produced by OnActuate.

1. Description - Lookup table - NAICS Codes and Descriptions

2. Line of business
3. Description
4. NAICS code from LOB table

Integration Mechanisms – Key Assumptions

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

Integration Mechanisms: A description of

- OData service:
- SOAP API and Json:

Type of Interfaces / Interface Directions: OnActuate will establish three types of interfaces to that support various directions of data flow.

- Outbound: Data will flow from D365 to B2G now (via Talend).
- Inbound: Data will flow from B2G now to D365 (via Talend).
- Both: Data will flow back and forth between D365 and B2G now (via Talend).

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)
- Integration Frequency:
- Payload size: Integration mechanisms will support a full and incremental extracts of data entities defined above.
- Maintenance: OnActuate will be responsible for…

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:

SR#	Entity	Effort Estimate in Hours					Estimated Cost (excl. taxes)
		Analysis	Build & Unit Test	Integration Test	Deployment	Total	
1	Vendor	4	20	4	8	36	
2	Vendor Certification	4	32+4	8		48	
3	Transactions	8	48+6	8		70	
4	Main Account	2	4	4		10	
	Total	18	114	24	8	164	$28,700