1.0 EXECUTIVE SUMMARY

1.1 INTRODUCTION

The Solution Consulting (TSC) would like to thank **True Value** for providing us with the opportunity to respond to this Request for a customised Warehouse Integration using API

The detailed scope of this development is discussed in the following sections of the document.

The scope is applicable for Microsoft Dynamics AX 2012 R3

1.2 REQUIREMENT

1.2.1 OVERVIEW

Customised Warehouse Integrations, using API for the below described processes,

1. ASN process

    a. ASN confirmation – from Dynamics to third party

    b. ASN product receipt – from third party to Dynamics

2. Purchase return

    a. Return PO confirmation – from Dynamics to third party

    b. Return PO product receipt – from third party to Dynamics

3. Sales order process

    a. Sales order confirmation – from Dynamics to third party

    b. Sales order packing slip – from third party to Dynamics

4. Transfer order in (Stock going from stores to main warehouse)

    a. Transfer order shipment – from Dynamics to third party

    b. Transfer order receipt – from third party to Dynamics

5. Transfer order out (Stock going from main warehouse to stores)

    a. Transfer order confirmation – from Dynamics to third party

    b. Transfer order shipment – from third party to Dynamics

6. Inter warehouse Transfer order (Stock transfer between warehouses)

    a. Transfer order confirmation – from Dynamics to third party

    b. Transfer order shipment – from third party to Dynamics

    c. Transfer order shipment – from Dynamics to third party

    d. Transfer order receipt – from third party to Dynamics

1.2.2 GENERAL PARAMETER CHANGES

1. Existing processes will be adopted and implemented using APIs.
2. Instead of the existing single "Default" warehouse in "Warehouse integration > Setup > Parameters > Warehouse integration parameters > General", there will be two warehouses:
    a. Default Warehouse 1 (True Value main warehouse: 110)
    b. Default Warehouse 2 (True Express main warehouse: 111)
3. Additional "Inter warehouse transfer" under "Warehouse integration > Inquiries > Staging"
4. Definitions in "Warehouse integration > Setup >Parameters > Warehouse integration file types" will be modified to accept API related information in place of the current file-based implementation.

1.2.3 ASN PROCESS

Currently, ASN file is sent to Inner works when the warehouse selected for ASN was same as the Default warehouse. Going forward, ASN integration will be triggered for both warehouses in the default warehouse section. Integration data will include the warehouse involved in the transaction.

1.2.4 PURCHASE RETURN

Currently, SC file will be sent to Inner works when a credit note is created for the Default warehouse. Going forward, SC integration will be triggered for both warehouses in the default warehouse section. Integration data will include the warehouse involved in the transaction.

1.2.5 SALES PROCESS

Currently, Sales order process is not used by True Value. Going forward, Sales orders created and confirmed from both warehouses in the default warehouse section will trigger the integration. Integration data will include the warehouse involved in the transaction. This above process will be applicable for manual/automatic/integrated Sales orders created in Dynamics AX for all valid warehouses.

1.2.6 TRANSFER IN

Currently, Transfer order in process consists of all transactions from stores to the Default warehouse defined in the system. Users will enter the details of the From and To warehouses and add the necessary items to the transaction and ship it. This process will repeat going forward, and users can select either of the two Default warehouses to trigger the correct transaction. Integration data will include both the warehouses in the transaction. Once the Inner works receives the stock, the received quantity information will be updated back to Dynamics and Dynamics AX will use this information to automatically receive the Transfer order. This above process will be applicable for manual/automatic/integrated Transfer orders created in Dynamics AX for all valid warehouses.

1.2.7 TRANSFER OUT

Currently, Transfer order out process consists of all transactions from the Default warehouse to any of the stores. As soon as the user enters the Default warehouse as the From warehouse, a confirm button will be enabled. Users will enter the item details and click on this button to confirm the Transfer order. Going forward, system will enable the confirm button if any of the two Default warehouses are entered as the From warehouse. Once the Transfer order is confirmed, integration is triggered, and both the warehouses involved in the transaction will be informed through integration. Once the Innerworks warehouse ships/picks the order, the shipped/picked quantity will be updated back to Dynamics and Dynamics AX will use this information to automatically ship the Transfer order. User will receive the Transfer order manually after physical receipt and associated procedures. This above process will be applicable for manual/automatic/integrated Transfer orders created in Dynamics AX for all valid warehouses.

1.2.8 INTER-WAREHOUSE TRANSFER

Currently, True Value does not have an Inter-Warehouse transfer scenario. Going forward, as soon as the user enters the default warehouses as both from ant To warehouse, it will be recognised as an Inter-Warehouse transfer. This will enable the confirm button as mentioned in the previous section. Once the user enters the item details, and clicks the confirm button, the transfer details will be integrated to Inner works along with the From and to warehouse information. Once Inner works ships the stock from the from warehouse defined, it will be updated back to Dynamics. Dynamics AX will use this information to automatically ship the Transfer order. Sequentially, an ASN integration will be triggered to send the shipment information again to Inner works to inform the To warehouse about the shipment. When the To warehouse receives the stock, this will be again updated back to Dynamics. Dynamics will use this information to receive the Transfer order automatically. This above process will be applicable for manual/automatic/integrated Transfer orders created in Dynamics AX for all valid warehouses.

1.3 GEOGRAPHICAL SCOPE

Kuwait

2.0 DELIVERABLES & ASSUMPTIONS

2.1 DELIVERABLES

- Requirement Documentations
- Development of Functionality
- Testing of Functionality
- Deployment of Functionality in test server
- UAT
- Deployment of functionality in Live server
- Go Live
- Support

2.2 ASSUMPTIONS

- Any mock-up documents provided is for reference only, and any miscalculations or such are to be ignored.

2.3 SUPPORT

TSC would provide 8 x 5 Support during normal working hours. This would include support for the delivered for the solution. Any major enhancements to the scope agreed and signed off would be treated as change request after project sign off.

2.4 PROPOSAL VALIDITY

This proposal is valid till 27 Feb 2022 against a valid Purchase order and advance payment as per agreed payment terms.

3.0 SCOPE

Project Activity	Development		Total
	API	**Back office**	
System study and requirement analysis			**2**
Documentation of the Development			**1**
Common efforts	2	1	**3**
General parameter changes		1	**1**
ASN Process changes	1	1	**2**
Purchase return changes	1	1	**2**
Sales process changes	1	1	**2**
Transfer in changes	1	1	**2**
Transfer out changes	1	1	**2**
Inter-Warehouse transfer	1	1	**2**
UAT with team	2	2	**2**
Go Live Support	3	2	**5**
Total			**26**