Integration Point Review

Identified Integration Points			160
Integration Points not identified in a Project Phase			36
Integration Points identified for AR Project			**124**
Integration points in Sales and Distribution Not in use in AR as of today			40 ***potential need to implement S&D

Points of Integration for the Identified Object for the Project Phases											
Category	Global Settings	FI - Finance	AP - Accounts Payable	FM- Funds Management	CO - Controlling	MM- Materials Management	AM - Asset Management	PM - Plant Management	CM - Cash Management	SEC - Security	Total
Identify Integration Points = X	5	44	36	42	43	62	12	13	16	46	319
Identify Integration Points Sales and Distribution = XSD	0	14	13	14	14	15	0	0	1	1	72
NOT Identified in a Project Phase	1	4	3	6	3	11	4	8	0	4	44
Total	6	62	52	62	60	88	16	21	17	51	435
Percentage of total IPs	1.38%	14.25%	11.95%	14.25%	13.79%	20.23%	3.68%	4.83%	3.91%	11.72%	100.00%

24 Integration Objects were not evaluated for the integration points in AASIS due to limited information.

Integration Points	Phase	Not Identified in a phase	Global Settings	FI - Finance	AP - Accounts Payable	FM- Funds Managem ent	CO - Contro lling	MM- Materials Management	AM - Asset Management	PM - Plant Management	CM - Cash Management	SEC - Security	AR Purpose	GAP
Purchasing organization	2							X				X	MM solution to Business Areas/Agency Numbers	
Purchasing groups	2							X				X	MM solution to Business Areas/Agency Numbers	
Company code	2		X	X	X	X	X	X	X	X	X	X	Global setting ARK	
Payment Terms	2			X	X			X			X		MM established payment terms for vendors	
Supplier (inbound)	2				X			X					Supplier is configured in MM to establish vendors for Spot Buys - defines a list of vendor to use	
Supplier (outbound)	2				X			X					Supplier is configured in MM to establish vendors for Spot Buys - defines a list of vendor to use	
Plants	2		X	X		x		X	X	X		X	Plant is an organizational unit for dividing an enterprise according to production, procurement, maintenance, and materials planning. A place where materials are produced, or goods and services and provided.	
Incoterms	2			X	X	X	X	X	X				A codification of international rules for the interpretation of the commonly used terms in international trade. An international commercial term (incoterms) defines the terms of sale and the passing of risks for import and export of merchandise. Incoterms include the following: EXW - Ex Works FCA - Free Carriage and Freight FAS - Free Alongside Ship FOB - Free On Board Ship etc. Define Freight	
Bill of Material		*								X*			A description of the component items, including individual quantities that go into the assembly of a single finished good at the factory or stocking location. May also include the formula, recipe, or instructions for creating the product.	Not Identified on any phase as an integration point to be configured. Currently AR uses this master data for certain plants. For example: AR State Police uses this to install the appropriate materials/components (equipment) of a Tropper's Vehicle.
Material Master		*		X*		X*		X*	X*	X*		X*	The total of all material master records. A company manages the data on all its materials in the material master.	Not Identified on any phase as an integration point to be configured. Material Master is primary piece of master data in MM which provides the suggested link to the General Ledger account in FI. The GL is linked to the commitment Item in Funds Management for budgetary control.
Material master/plant		*	X*	X*		X*		X*	X*	X*		X*	AR currently uses plants as warehouses - M&R, State Police, and DHS	Not Identified on any phase as an integration point to be configured. All materials are configured for AR in Plant 9999and then extended to other plants per business areas to allow for each specific situation at that Agency. Material Master is primary piece of master data in MM which provides the suggested link to the General Ledger account in FI. The GL is linked to the commitment Item in Funds Management for budgetary control.
Manufacturer part number		*							X*	X*			A code or number used by a manufacturer or vendor to identify a material or part	Not used in AR

Item	#												Description	Notes
Purchase Info Record		*			X*			X*					A source of information for the procurement of a certain material from a certain vendor. A fact sheet that displays data of a purchasing info record and enables users to navigate to related purchase contracts, purchase orders, and purchase requisition items, for example. The vendor's current pricing is stored in the info record based on a combination of the Vendor, material, and purchasing organization. It also contains the Order Unit conversion for the price if different from the base unit of measure. This can occur when the unit of measure conversion is changed.	Currently 200,000 records in AASIS. Request to ASC to define how this is being used in current AR process. AASIS is configured to automatically create an info record from prices maintained in a RFQ/quotation. An info record can also be created (ME11) by the end user in the PO transaction if the 'InfoUpdate' button is manually checked in the Item Detail > Material Data tab
Material Groups (product categories)		*		X*	X*	X*	X*	X*	X*	X*			Logistics - General (LO) A grouping of materials and services according to their characteristics. Example •Ladies' wear •Office supplies •Beverages •Maintenance work	Not Identified on any phase as an integration point to be configured. Material Groups are used in AR for like grouping as suggest by SAP. Material groups are mapped to Material Category Type and displayed on Transparency website. Material ids are not shown. Assets are assigned to Material Category type 'Capital Outlay' or 'Commodities'; depending on dollar amount. This mapping can be seen in Table 'ZMATGRP'. Issue 7047 has been created to display the mapping in a transaction. An interim Excel spreadsheet of the mapping is attached and can be found: K:\AASIS Support Center\MM-AM-INV\PUR\Material Master Data\Material Master Crosswalk\Material Master Crosswalk_11-7-17.xlsx
Quote request	2						X						An offer from a transportation service provider (supplier) to an ordering party (customer) for the transportation of goods with requested terms and conditions.	
Quote message	2						X						An offer from a transportation service provider (supplier) to an ordering party (customer) for the transportation of goods with requested terms and conditions.	
Sourcing Award to PO	2						X						An RFx is a sourcing document that enables you to request information, quotes, and prices regarding goods and services from multiple suppliers. Suppliers respond with answers and their best prices. You can then score the responses and compare them by supplier. After you score responses, you can award the RFx either automatically or manually.	
Contract Workspace	2		X	X	X	X	X	X	X	X	X	X	The right-hand Web browser frame of the mySAP Workplace. It is the push area, the Web browser frame in which business applications that the user calls are displayed. In this case, the Workspace gives complete control over a Web browser frame to an underlying, content-providing component	

Item	Code												Description	Notes
Sourcing Award to Outline Agreement	2							X					An RFx is a sourcing document that enables you to request information, quotes, and prices regarding goods and services from multiple suppliers. Suppliers respond with answers and their best prices. You can then score the responses and compare them by supplier.	
Account categories	1;3;4			X								X	FS-BA-SD A grouping of all the attributes that are available for templates of the following template categories: •Settlement account •Securities position account •Customer position account •G/L account	
Assets	1;3;4			X	X	X	X	X	X			X	Asset Accounting (FI-AA) The main criterion for classifying fixed assets according to legal and management requirements. For each asset class, control parameters and default values can be defined for depreciation calculation and other master data. Each asset master record must be assigned to one asset class. Special asset classes are, for example: •Assets under construction •Low-value assets •Leased assets •Financial assets •Technical assets	
Company codes	1;3;4		X	X	X	X	X	X	X	X	X	X	State of AR has one...ARK	
Cost centers	1;3;4			X	X	X	X	X	X	X		X	In controlling module to capture cost - AR used to represent Hierarchal structure.	
Cost center languages	1;3;4			X	X	X	X	X	X	X			USD	
ERP commodity codes	1;3;4			X	X	X	X	X	X	X	X		A code (from the Harmonized Commodity Description and Coding System) that provides a standard way to identify materials for a country's export and import reporting systems. The first six digits of a material's code number are standard internationally. Each country adds digits to assign materials in its own classification system: •In the USA and Japan, commodity codes contain 10 digits. •In Europe, the codes contain 8 to 12 digits. Codes used for importing goods are longer than codes used for export	
General ledger	1;3;4			X	X	X	X	X	X	X	X	X	General Ledger is used by AR to work with the SPL - Special Purpose Ledger.	AR uses the Special Purchase Ledger for Fund Accounting. This is an AR requirement that must be maintained.
Internal orders	1;3;4			X			X			X		X	Controlling master data used by agencies to account for additional coding pieces - Critical to DHS cost allocation Real Orders used in Plant Maintained.	

Item	Code														Description	Notes
Plant	1;3;4						X		X			X		X	In Logistics a plant is an organizational unit for dividing an enterprise according to production, procurement, maintenance, and materials planning. A place where materials are produced, or goods and services are provided	
Payment terms	1;3;4			X	X						X				The conditions of payment agreed to between business partners with respect to goods supplied or services provided	
Purchase groups	1;3;4						X					X		X	A key for a buyer or group of buyers responsible for certain purchasing activities. The purchasing group is: •Internally responsible for the procurement of a material or a class of materials •The principal channel for a company's dealings with its vendors	
Tax codes	1;3;4		X	X	X	X	X							X	A two-digit code that represents the specifications used for calculating and displaying tax. Examples of the specifications defined under the tax code are: •Tax rate •Type of tax (input tax or output tax) •Calculation method (percentage included or percentage separate	AR uses Vertex to update AR and AP taxes must interface and interact with this system.
WBS elements	1;3;4		X	X	X	X	X	X					X	X	WBS element used by AR as a cost bucket. Some WBS elements are statically for federal awards. It is also used by AR for Assets Under Construction.	CAFR/ financial statement requirement
User data	1;3;4													X	Part of Security to allow access	
User group mapping	1;3;4													X	current security in aasis is Role based. User Groups are used for limited areas. Business areas are configured within the role not at the group level.	
Remittance locations	1;3;4			X											Connected to AP where to submit payment for vendor	
Supplier data	1;2;3;4			X											Suppliers create and edit their master data, such as employee data and company code	
Supplier location	1;2;3;4			X											Location within third-party order processing for which a purchasing info record for a supplier exits. Can be the initial location from the sales order.	
Contracts	1;3;4						X								A logical grouping of one or more contract clauses. Sections are organized in contract document templates which are then used to create contract documents	
FM derive	1;3;4	X	X		X	X		X	X					X	A part of the BCS function used by funds management. The FM Derive is used by AR to support the linking of other modules and FM master data to create funds management documents to provide budgetary reports required by AR. Cash Basis expenditure reporting	
Company code internal order mapping	1;3;4		X		X			X							One company code - configuration determine business area to IO ranges	
Company code WBS element mapping	1;3;4		X		X										One company code - configuration determine business area to project definition schema	
Purchasing organization supplier combo	1;3;4			X		X									Is SRM (Supplier Relationship Mgt) and SCM (Supply Chain Mgt) configuration required?	

Item	Code	Description	Notes
Account category field status	1;3;4	Source Data (FS-BA-SD) A grouping of all the attributes that are available for templates of the following template categories: •Settlement account •Securities position account •Customer position account •G/L account	
Plant to purchasing organization	1;3;4	In Logistics a plant is an organizational unit for dividing an enterprise according to production, procurement, maintenance, and materials planning. A place where materials are produced, or goods and services are provided In AR the Plant = Warehouse	
Currency conversion rates	1;3;4	ability to do business with other countries.	
Fund management objects	1;3;4	Master data in Funds management identified to represent AR budget classifications to enable cash basis reporting and spending	
Purchasing organizations	1;3;4	Equal to Business Area	
General ledger languages	1;3;4	Equal to EN = English	
Material PO	1;3	A purchase order which includes a material master	security controls with release strategy must be included
Service PO	1;3	Service purchase orders are entered for **services** that are procured internally or externally. These **purchase orders** are different from standard ones as they don't require a goods receipt since they have no stock. Other than that, there are a few small differences in **PO** creation	security controls with release strategy must be included
Change PO	1;3	AR is configured to require reapproves based upon release strategy	security controls with release strategy must be included
Cancel PO	1;3	A PO cannot be canceled. Line items can be deleted or final invoice indicator set to relieve budget encumbrance.	security controls
Close PO	1;3	Line item amounts should be reduced to the amount received and the delivery complete and final invoice indicators set in each line item to close the PO.	security controls
Goods Receipt	1;3	completed by GR techs when goods and services are received.	security controls
Service Entry Sheet	3	Service master record contains the detail of all the services that can be procured from external vendor within an organization. Service master record contains description of services along with the unit of measure. This master record serves as a reference for creating service purchase order but it is not necessary, service purchase order can also be created manually without reference. Service master record can be created by following the below steps.	
Invoices (Ok-to-Pay)	3;4	AP - E Procurement side for receipt of invoice	
Expense report			Not currently used in AR.
PO status	1;3	PO Status - examples: Ordered, Partially Delivered, Fully Delivered, etc.	
Change PO status	1;3	PO Status changes, for example, when goods are partially or fully received and a goods receipt document is posted	
Receipt status	1;3	Condition of goods received? - Damaged, Lost, etc.	
Invoice status	3;4	Posted, Parked, Not Yet Invoiced?	
Remittances	3;4	Remittance advice is a letter sent by a customer to a supplier, to inform the supplier that their invoice has been paid. If the customer is paying by cheque, the remittance advice often accompanies the cheque.	

Item	Col	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	Description	Notes
Catalog	1;3							X							Web-based listing of all materials - should be equal to and updated based upon Material Masters in AASIS	
Advance Payment requests	4			X	X	X	X	X				X		X	Advance payment for sub-grant	Special Language on PO and Invoice to support advance payment
Advance Payments	4			X	X	X	X	X				X		X	Advance payment for sub-grant	Special Language on PO and Invoice to support advance payment
Cancel Advance Payment	4			X	X	X	X	X				X		X	Advance payment for sub-grant	Special Language on PO and Invoice to support advance payment
Requisition	1;3					X	X	X						X	Req to PO consumes budget Req to OA does not consume budget	
Change Requisition	1;3					X	X	X						X	Req to PO consumes budget Req to OA does not consume budget	
Budget Check	1;3					X	X	X							Req to PO consumes budget Req to OA does not consume budget	
SES Response	3				X										email interface application	Email address not required field in AP Vendor master
Standard PO	1;3					X	X	X						X	You generally create standard purchase orders for one-time purchase of various items. You create standard purchase orders when you know the details of the goods or services you require, estimated costs, quantities, delivery schedules, and accounting distributions. If you use encumbrance accounting, the purchase order may be encumbered since the required information is known.	
Subcontract PO		*				X*	X*	X*						X*	Not used in AR	Not used in AR
Consignment PO		*				X*	X*	X*						X*	Not used in AR	Not used in AR
Change PO	1;3					X	X	X						X	SAP Change PO = Transaction ME22N	
Cancel PO	1;3					X	X	X						X	SAP - A PO cannot be canceled. Line items can be deleted or final invoice indicator set to relieve budget encumbrance.	
Order Enquiry request	1;3							X							A request from a customer to a vendor for sales information: price, availability, delivery date...	
Order Confirmation	1;3							X							A confirmation documents the processing status of orders, operations, sub-operations and individual capacities. It is an instrument for controlling orders. With a confirmation you specify · The quantity in an operation that was produced as yield, scrap and the quantity to be reworked · How much work was actually done · Which work center was used for the operation · Who carried out the operation Service Entry Sheet statuses = Acceptance, Release, Block, Final Entry, Save, Delete	
Inbound Ship Notice	1;3							X							Imports supplier ship notices. Advanced shipping notice (ASN) is a document that provides detailed information about a pending delivery. The purpose of an ASN is to notify the customer when shipping occurs and provide physical characteristics about the shipment so the customer can be prepared to accept delivery.	
Outbound ASN		*			X*			X*							EMAIL NOTIFICATION	Not identified as an integration point. Currently in AASIS the vendor email field is not a required field.
Component consumption		*						X*			X*				Not used in AR	Not used in AR
Inbound Receipt	3							X							? Transfer of data	
Outbound Receipt	1;3							X							? Transfer of data	

Item	Ver														Description	
Service Entry Sheet	3			X	X	X	X	X						X	A list of services performed by a vendor on the basis of a purchase order, containing service descriptions and details of quantities and values. The descriptions of planned services deriving from the purchase order are used as default descriptions in the service entry sheet. Unplanned services that were entered in the purchase order without descriptions using value limits are precisely specified in the entry sheet. A fact sheet that displays data of a service entry sheet and enables users to navigate to related suppliers, service master data, and purchase orders, for example.	
Service Entry Status update	3			X	X	X	X	X						X	Service Entry Sheet statuses = Acceptance, Release, Block, Final Entry, Save, Delete	
Invoice (incl. Credit Memo)	3;4			X	X	X	X	X						X	Invoice and Credit Memo with reference to a vendor invoice	
Invoice status	3;4			X	X	X	X	X							Invoice and Credit Memo with reference to a vendor invoice	
Carbon copy (CC) invoice	3;4			X	X	X	X	X							If a supplier invoice is not created on the but received by the buying organization in a different way (for example, as a paper invoice), the invoice is created manually in the buyer's SAP S/4HANA system and sent to the as a copy (CC invoice). If no invoice is expected from the supplier at all, the buyer can use automatic settlement methods such as self-billing (evaluated receipt settlement in SAP S/4HANA Cloud). On the , buyers and suppliers can then track payment status updates in CC invoices and display related documents. The following invoice types can be transferred as CC invoices: • Online (' ') • ERS ('1') • Batch Run ('3') • EDI ('4') • Revaluation ('8') • BAPI Invoice ('B') • Invoice from Parking Function ('A') • SOA B2B ('H')	
Quote request	3;4						X							X	An offer from a transportation service provider (supplier) to an ordering party (customer) for the transportation of goods with requested terms and conditions.	
Quote message	3;4						X								An offer from a transportation service provider (supplier) to an ordering party (customer) for the transportation of goods with requested terms and conditions.	

Item	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9	Col10	Col11	Col12	Col13	Col14	Description	Notes1	Notes2
Payment instruction file	3;4				X							X	X	Payment Engine (FS-PE) Payment instruction that is issued for certain customers (for example, the employment center or social welfare office), similar to a check (PF). The recipients cash the payment instruction at a bank. When the payment instruction for clearing is issued, the amount is debited to the customer on the same day. There is a certain expiration date for each issuer or customer, by which the payment instruction for clearing must be cashed. If this date passes, the amount is credited back to the ordering party		
Outbound payment remittance	3;4			X	X	X	X					X		**Remittance advice** is a letter sent by a customer to a supplier, to inform the supplier that their invoice has been paid. If the customer is paying by cheque, the **remittance advice** often accompanies the cheque.		
Inbound remittance advice	4							X						Remittance advice is a letter sent by a customer to a supplier, to inform the supplier that their invoice has been paid. If the customer is paying by cheque, the remittance advice often accompanies the cheque.		
Remittance Cancellation	4		X	X		X	X						X	Reversal of Payment Document? Void Payment?		
Inbound Payment proposal	4		X	X							X	X		CASH JOURNAL		
Outbound Payment proposal	4		X	X	X	X					X	X		In the **payment proposal** you can carefully examine the invoice data entered in invoice entry , change it if necessary, and **pay** out the invoice. When you transfer an invoice from invoice entry to a **payment proposal**, the system displays the **Payment Proposal** node in the navigation tree.		
Scheduling Agreement (incl. Forecast/ Delivery Schedule and JIT)		*						X*						Not used in AR	Not used in AR
Product Replenishment		*						X*		X*				Not used in AR	Not used in AR
Transfer movement / product activity		*						X*		X*				Not used in AR	Not used in AR
810	3;4													Codes unknown	Codes unknown
820	3;4													Codes unknown	Codes unknown
824		*												Codes unknown	Codes unknown
840 (Forecast)		*												Codes unknown	Codes unknown
840 (Commit)		*												Codes unknown	Codes unknown
846		*												Codes unknown	Codes unknown
850	1;3													Codes unknown	Codes unknown
855	1;3													Codes unknown	Codes unknown
856	1;3													Codes unknown	Codes unknown
860	1;3													Codes unknown	Codes unknown
861	1;3													Codes unknown	Codes unknown
862	1;3													Codes unknown	Codes unknown
866		*												Codes unknown	Codes unknown
866 (MO/PO)		*												Codes unknown	Codes unknown
997		*												Codes unknown	Codes unknown
INVOIC	3;4			XSD	XSD	XSD	XSD				XSD			Field names?	Field names?
ORDERS	1;3							XSD						Field names?	Field names?
ORDCHG	1;3													Field names?	Field names?
ORDRSP	1;3													Field names?	Field names?
INVOIC	3;4													Field names?	Field names?
DESADV	4													Field names?	Field names?
CONTRL		*												Field names?	Field names?
RECADV		*												Field names?	Field names?
REMADV		*												Field names?	Field names?
INVRPT		*												Field names?	Field names?
DELFOR		*												Field names?	Field names?
DELJIT		*												Field names?	Field names?
APERAK		*												Field names?	Field names?

Name	Num	*													Note 1	Note 2
Order	1;3														Field names?	Field names?
Change Order	1;3														Field names?	Field names?
Invoice Response	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
GoodsReceiptNotice	3				XSD		XSD	XSD	XSD					XSD	Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
ServiceEntrySheetResponse	3				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
OrderResponse	1;3														Field names?	Field names?
Invoice	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
AdvanceShipNotice	1;3				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
ServiceEntrySheet	3				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
RemittanceAdvice	3;4														Field names?	Field names?
ProcessPurchaseOrder	1;3														Field names?	Field names?
AcknowledgePurchaseOrder	1;3														Field names?	Field names?
NotifyShipment	1;3				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
ProcessReceiveDelivery	1;3														Field names?	Field names?
NotifyPlanningSchedule		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
NotifyPlanningSchedule		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
NotifyInventoryConsumption		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
NotifyProductionOrder		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
NotifyInventoryBalance		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
ConfirmBOD		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
Order	1;3														Field names?	Field names?
ChangeOrder	1;3														Field names?	Field names?
OrderResponse	1;3														Field names?	Field names?
Invoice	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
InvoiceResponse	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Order	1;3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Change order	1;3;4														Field names?	Field names?
Cancel order	1;3;4														Field names?	Field names?
Order confirmation	1;3;4								XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Invoice	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Shipment notification	1;3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Remittance advice	3;4				XSD	XSD	XSD	XSD	XSD						Master Data in Sales and Distribution	Currently, AR does not have Sales and Distribution in use nor configured in SAP
Delivery schedule (forecast)		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution
Delivery schedule (JIT)		*													Master Data in Sales and Distribution	Master Data in Sales and Distribution

Phase 1
Phase 2
Phase 3
Phase 4
Sell Side
Not identified as a point of integration in a phase