

What's New in the Enterprise Business Object Library for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)

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About This Document

This document describes the significant enhancements made to the Enterprise Business Object (EBO) library delivered with Oracle Application Integration Architecture (AIA) Foundation Pack 11g Release 1 (11.1.1.4.0).

It lists the new EBOs delivered in this Foundation Pack release, as well as the significant enhancements made to existing EBOs to enable them to support new use cases. It also lists significant additions to Common Components. Existing functionality from prior releases is not covered in this document.

This document is organized into two major sections – Core and Industry. The Core section describes cross-industry enhancements to the EBO library. The Industry section describes industry-specific enhancements.

Note. All enhancements discussed in the Core section are also available under each of the industries, but are not explicitly listed in the Industry section.

Business analysts, data modelers, integration specialists, and anyone else interested in learning about Foundation Pack 11g Release 1 (11.1.1.4.0) EBO library enhancements should read this document.

1. Core

This chapter includes the following sections:

- [New EBOs](#)
- [Existing EBOs with Significant Enhancements](#)
- [Common Components with Significant Enhancements](#)

1.1. New EBOs

This section includes the following topics:

- [Task](#)
- [SalesPlan](#)
- [SalesObjective](#)

1.1.1. Task

1.1.1.1. Description

Task object represents the need for human attention on a specific subject, for example to follow up on customer contact, to approve a refund. A typical application associated with task is the reminder or notification when the task is created or has reached (or is) near the due date.

1.1.1.2. Use Case

One of the use cases for this EBO is to create To Do in one system and sync it with another systems Activity / Task. As an example, consider the integration between Siebel and Enterprise Taxation Management (ETM) where a collection process executes in ETM and identifies a taxpayer for collection / overdue processing. This requires calling the taxpayer to give notification of the outstanding collectable debt. In order to accomplish this, ETM creates a To Do for this communication. The integration process syncs up this To Do with Siebel which results in the creation of a corresponding activity in Siebel. A revenue agency employee using the Activity screen in Siebel notifies the taxpayer about the outstanding debt.

1.1.2. SalesPlan

1.1.2.1. Description

SalesPlan object enables sales teams to strategize on specific set of customers, to develop insight, identify key decision makers, manage an action plan and ultimately maximize sales. A SalesPlan can be shared across the sales team members and is typically based on company-defined planning periods. Users can associate instances of SalesObjective and activities to a SalesPlan to ensure traction over a period of time. SalesPlan is strategic by nature. It is intended for longer term where as typically, a SalesObjective is used for a shorter time period.

1.1.2.2. Use Case

As an example, a newly appointed account manager would create a SalesPlan for his target customer. As part of his role, he would do a SWOT analysis of that customer to understand competitive landscape, market conditions, and key influencers and capture that information in the SalesPlan. He will use this insight to set up short term objectives to improve relationships and maximize sales.

1.1.3. SalesObjective

1.1.3.1. Description

A SalesObjective is a goal that is simple, measurable, achievable, and time bound. SalesObjective can be hierarchical and can have multiple activities.

1.1.3.2. Use Case

As an example, a SalesObjective could be to increase the sales for Tier 1 customers by 5% in a given quarter. To accomplish this, a regional manager will associate all the Tier 1 customers to this specific SalesObjective and track progress over a weekly basis. Based on the progress, he may change his tactics to achieve the objective. An example of a tactic would be to increase the number of times the regional manager visits the Tier 1 customers during that quarter. Each visit would be setup as an activity related to the SalesObjective.

1.2. Existing EBOs with Significant Enhancements

This section includes the following topics:

- [ProductionRecipe](#)
- [CustomerParty](#)
- [ReceivedPayment](#)
- [WorkOrder](#)
- [AdvanceShipmentNotice](#)
- [PurchaseOrder](#)
- [FulfillmentOrder](#)

- [SalesOrder](#)
- [DisbursedPayment](#)
- [PayableInvoice](#)

1.2.1. ProductionRecipe

ProductionRecipe EBO is enhanced to support recipe and formula syndication with detail operation instructions. Added the following components:

- ManufacturingRoutingOperationInstructionList: This holds a group or categories of instructions for operation.
- ManufacturingRoutingOperationInstructionListLine: This holds detail instruction information for operation.
- ProductionRecipeManufacturablePlant: It represents the facilities where the Production Recipe can be manufactured.

1.2.2. CustomerParty

Added the following components to CustomerParty EBO:

- CustomerPartyBestVisitationTime: Captures the customer's availability so that the sales representatives can visit at the most suitable times.
- CustomerPartySupportTeamMember: Associates the sales representatives and other support personnel with the customer.
- CustomerPartyOverdueCollectionRule: It represents the Overdue Collection Rule which controls how the account's debt is compared against collection criteria to determine if an overdue process should be started and which specific overdue process is applicable to the account.

1.2.3. ReceivedPayment

Added the RemittanceAdvice component. Remittance advice contains payer instructions of how the payments should be allocated.

1.2.4. WorkOrder

Added the component WorkOrderLineActivity. This component supports the activities scheduled (or performed) for a given work order line.

1.2.5. AdvanceShipmentNotice

This enhancement to AdvanceShipmentNotice EBO was done to support B2B messages like OAG (SHOW_SHIPMENT_005) for receiving inbound Advance Shipment Notices from suppliers and automating the above communication between supplier and buying organization.

Added BillOfLadingNumberID, BarCodeID and ManufacturingCountryCode to ShipmentUnit Common EBO and ScheduledDeliveryDateTime, PackagingTypeCode, ShippedDateTime, RMAReference and SubstituteItemIndicator to Shipment Common EBO so that the information received in the inbound message can be mapped to the above elements and processed.

1.2.6. PurchaseOrder

The PurchaseOrder EBO was enhanced to support B2B messages like OAG (PROCESS_PO_007 and CHANGE_PO_006) for sending new and modified Purchase Order information to suppliers and automating the above communication between the supplier and the buying organization.

Added the following components to PurchaseOrder EBO:

- PurchaseOrderSalesOrder: Captures the cross reference to the Sales Order in the vendor's order management / capture system.
- PurchaseOrderSupplierParty: Provides the reference to the Supplier Party which is a party (business or individual) that provides goods or services or both in return for payment. The term Supplier Party is often used synonymously with vendor.
- SupplierPartyTradingLocationProfile: This component was added to PurchaseOrderSupplierParty and refers to a Supplier Party Trading Location Profile in the Supplier Party object.
- PurchaseOrderProcurementBusinessUnit: Captures the reference to the Procurement Business Unit defined within an enterprise.
- PurchaseOrderSoldToBusinessUnit: Provides the reference to the Sold-to Business Unit which is the organization legally responsible for payment against the Purchase Order.
- PurchaseOrderPriceDifferential: Holds the different pay rates for different rate types (such as "overtime rate", "holiday rate" etc) while procuring rate based services for a given PO line.
- PurchaseOrderContractor: Captures the contract related information when the parent Purchase Order Line is used to procure temporary labor services.
- PurchaseOrderCustomerPurchaseOrderShipment: This component is used to capture the CustomerPurchaseOrderShipmentReference by referring to PurchaseOrderShipment of the deploying company's customer. This is used primarily in the case of drop shipment.

Two non-standard operations were added to PurchaseOrder EBM:

- SendPurchaseOrder: This operation is used as the canonical message to communicate outbound new Purchase Order information to suppliers or other third parties.
- SendPurchaseOrderUpdate: This operation is used as the canonical message to communicate outbound modified Purchase Order information to suppliers or other third parties.

1.2.7. FulfillmentOrder

FulfillmentOrderEBO was enhanced to support the integration between Distributed Order Orchestration (DOO) and the order-to-cash (O2C) process. DOO, being an Orchestration system, uses Fulfillment Order to communicate with third party systems about scheduling, shipping, returns, holds etc.

Added the following components to FulfillmentOrder EBO:

- **FulfillmentOrderItem:** Captures the Item level details on FulfillmentOrderSchedule.
- **FulfillmentOrderOrganizationUnit:** Contains the information about the physical inventory location or service organization.
- **FulfillmentOrderInventoryReservation:** This component acts as a business reference component for the InventoryReservationReference. It refers to the Inventory reservation of the Fulfillment Order Schedule.
- **FulfillmentOrderHold:** Captures details about Holds and the corresponding Release.
- **FulfillmentOrderFulfillmentTaskEvent:** Contains details about various events taking place on Fulfillment Tasks, for example Shipment Task, Return Receipt Task, Shipment Receipt Transaction etc.
- **FulfillmentOrderShipmentReceiptTransaction:** Contains the receipt information for returns.
- **FulfillmentOrderShipmentTaskEvent:** Contains details of Fulfillment Order Shipment.
- **FulfillmentOrderShipmentRequestOrderLine:** Captures the reference to Shipment Request Order Line.
- **ShipmentRequestOrderLine:** This component defines the attributes for the shipment line within an order e.g., item, quantity, ship-to address, etc.
- **FulfillmentOrderShipmentAdvice:** Captures the reference to Shipment Advice.
- **Shipment:** This component identifies and describes a specific collection of goods to be transported by a carrier and delivered to one or more business partner destinations. A Shipment document represents the extent and content of "transportation work" to be done by the carrier. For transportation efficiency, a shipment document typically consolidates deliveries to multiple destinations within a certain geographic region and may provide carrier routing instructions to each delivery stop.
- **ShipmentBillOfLading:** Captures the reference to Bill Of Lading.
- **ShipmentItem:** Contains the attributes of an unpacked item or items within a container. For example, an item is packed in a container or loose item.
- **FulfillmentOrderInvoicingTaskEvent:** Contains details of Fulfillment Order Billing.
- **FulfillmentOrderInvoiceLine:** Contains a reference to the Invoice Line as well as corresponding invoice details.
- **InvoiceLine:** Contains details about the Invoice Line.
- **FulfillmentOrderRelatedObject:** Contains keys to objects and its components related to the Fulfillment Order.
- **FulfillmentOrderLineRelatedObject:** Holds keys to objects and its components related to the Fulfillment Order Line.
- **FulfillmentOrderScheduleRelatedObject:** Contains keys to objects and its components related to the Fulfillment Order Schedule.
- **FulfillmentOrderCustomerParty:** Contains a reference to the Customer Party who places the order

and has an account/trading relationship with the deploying company. This component replaces CustomerPartyReference.

- FulfillmentOrderShipToParty: Holds the reference to the party to whom the order or a particular schedule of the order is to be shipped. The information in this component may be used to validate with the master information in the order processing. This component replaces ShipToPartyReference.
- FulfillmentOrderBillToParty: Contains the reference to the party which will be paying for the order or a particular schedule of the order and details about that bill-to party. This information may be used for credit verification during the order processing. This component replaces BillToPartyReference.
- FulfillmentOrderSalesCommission: Contains the details about the commission allocated to a sales person.
- FulfillmentOrderScheduleSalesCommission: Contains the details about the commission allocated to a sales person associated with the fulfillment order schedule.
- FulfillmentOrderAllowance: Provides details about the discount or allowance that the customer is to receive for all the fulfillment order lines. Examples are Early Payment, Coupons etc. Discount is treated as a type of allowance. If a 10 percent discount is applied on the header, then each line will get 10 percent off.
- FulfillmentOrderScheduleAllowance: Provides details about the allowance or discounts applicable on the fulfillment order schedule line.
- FulfillmentOrderCharge: Captures details about the Charge applicable on the fulfillment order.
- FulfillmentOrderPayment: Contains information about payments received for the fulfillment order. This includes both pre-payments (made when the order is placed) and non-prepayments (charge against a payment instrument when the order is fulfilled).
- FulfillmentOrderReceivedPayment: Provides reference to the Received Payment and details about those payments.
- FulfillmentOrderPaymentInstrument: This captures details about a payment instrument where payment maybe charged after the product/service has been rendered. Multiple payment instruments may be provided by the customer.
- FulfillmentOrderSchedulePayment: Captures the payments received for the fulfillment order schedule. This includes both pre-payments and non-prepayments.
- FulfillmentOrderLinePaymentInstrument: This captures details about a payment instrument at the fulfillment order line level where payment maybe charged after the product/service has been rendered. Multiple payment instruments may be provided by the customer.

The following non-standard operations were added to FulfillmentOrder EBM to support Holds:

- HoldFulfillmentOrderExecution: This operation is used as a message to convey the request for holding the fulfillment order from progressing further. If the hold is successful, it also implies that the fulfillment order can still be updated. An example use case is an upstream order fulfillment system issuing a hold request to the shipping system before attempting to make some changes to its scheduling which could require changes in the request.
- HoldFulfillmentOrderLineExecution: This operation is used as a message to convey the request for holding the fulfillment line process from progressing further. If the hold is successful, it also implies

that the fulfillment order line can still be updated. An example use case is an upstream order fulfillment system issuing a hold request to the shipping system before attempting to make some changes to its scheduling which could require changes in the request.

- **ReleaseFulfillmentOrderExecutionHold:** This operation is used as a message to convey the request for releasing the fulfillment order from the prior “hold” status to continue its progression.
- **ReleaseFulfillmentOrderLineExecutionHold:** This operation is used as a message to convey the request for releasing the fulfillment line process from the prior “hold” status to continue its progression.

1.2.8. SalesOrder

SalesOrderEBO was enhanced to support the integration between DOO and O2C. DOO being an Orchestration system goes through information from SalesOrder to orchestrate and break up tasks to pass on this information to third party systems.

Added the following components to SalesOrder EBO:

- **SalesOrderCustomerParty:** Contains a reference to the Customer Party who places the order and has an account/trading relationship with the deploying company. This component replaces CustomerPartyReference.
- **SalesOrderShipToParty:** Holds the reference to the party to whom the order or a particular schedule of the order is to be shipped. The information in this component may be used to validate with the master information in the order processing. This component replaces ShipToPartyReference.
- **SalesOrderBillToParty:** Contains the reference to the party which will be paying for the order or a particular schedule of the order and details about that bill-to party. This information may be used for credit verification during the order processing. This component replaces BillToPartyReference.
- **SalesOrderShipment:** Captures information about actual shipments that as per SalesOrderSchedule. In the context of order capturing system, this information is supplied from the downstream system and is kept for tracking and reporting (to customer) purposes.
- **SalesOrderCarrierParty:** Provides a reference to the party which transports the shipment to the designated ship-to party. This carrier party can be different from the one in the parent SalesOrderSchedule. The one in the SalesOrderSchedule represents a requested or planned CarrierParty. Downstream fulfillment system may end up using a different carrier due to cost, availability or other reasons.

The following non-standard operations were added to SalesOrder EBM to support Holds:

- **HoldSalesOrderFulfillment:** This operation is used as a message to convey the request for holding the fulfillment process from progressing further. If the hold is successful, it also implies that the fulfillment process can still be updated. An example use case is an upstream order fulfillment system issuing a hold request to the shipping system before attempting to make some changes to its scheduling which could require changes in the request.
- **HoldSalesOrderLineFulfillment:** This operation is used as a message to convey the request for holding the fulfillment line process from progressing further. If the hold is successful, it also implies that the fulfillment line can still be updated. An example use case is an upstream order fulfillment system issuing a hold request to the shipping system before attempting to make some changes to its

scheduling which could require changes in the request.

- **ReleaseSalesOrderFulfillmentHold:** This operation is used as a message to convey the request for releasing the fulfillment process from the prior “hold” status to continue its progression.
- **ReleaseSalesOrderLineFulfillmentHold:** This operation is used as a message to convey the request for releasing the fulfillment line process from the prior “hold” status to continue its progression.

1.2.9. DisbursedPayment

A new operation, **ProcessDisbursedPaymentNotification** was added to the **DisbursedPayment** EBO. A provider **ABCS** receiving this information will take the relevant information about the disbursed payment and update the entities that need this information in their system.

1.2.10. PayableInvoice

A new operation, **ProcessPayableInvoiceNotification** was added to the **PayableInvoice** EBO. This operation sends a new message, **PayableInvoiceNotification** which sends an identification and status information. As an example, this operation is used to update the payment request in the Clinical Trial Management system.

1.3. Common Components with Significant Enhancements

This section lists out new common components and significant additions to existing common components added since Foundation Pack 11g Release 1 (11.1.1.2.0).

Common Component	Description	New/Existing
InstructionList	InstructionList represents the concept of a list of instructions. This could be extended to support context specific instruction list, like ManufacturingRoutingOperationInstructionList in ProductionRecipeEBO.	New
InstructionListLine	InstructionListLine represents the detail of the concept of a list of instructions. This could be extended to support context specific instruction list detail, like ManufacturingRoutingOperationInstructionListLine in ProductionRecipeEBO.	New
Operation	This component represents an aggregation of Activities into coarser grain unit of work. In manufacturing, for example, the activities are aggregated based on work stations. Note that this component was initially created to replace the OperationReference with the design intent that the Operation entity is always passed by content.	New
SWOTAnalysis	SWOT analysis is a strategic planning method used to evaluate the Strengths, Weaknesses, Opportunities, and Threats.	New
SoldToBusinessUnitReference	This implies the organization which is legally responsible for payment of the Purchase Order.	New

Common Component	Description	New/Existing
ShipmentSet	Indicates Item Instances that are shipped together or that must be shipped together	New
FulfillmentOrganizationUnitReference	Refers to an Organization Unit which fulfills a particular goods or service ordered by a customer. The referred to Organization Unit may be a physical inventory location, service organization, or inventory organization.	New
OriginalOrderItemReference	Reference to the original order that was on an order, that was later substituted by another because of cross-sell, up-sell or other reasons	New
RootParentFulfillmentOrderScheduleIdentification	Refers to the root Fulfillment Order Schedule entity within a Fulfillment Order when there is a hierarchical relationship among a set of Fulfillment Order Schedule entities.	New
ParentFulfillmentOrderScheduleIdentification	Refers to a Fulfillment Order Schedule entity which is a parent of the containing Fulfillment Order Schedule entity in order to create a hierarchical relationship between Fulfillment Order Schedule entities within a Fulfillment Order object.	New
SplittedFulfillmentOrderScheduleIdentification	Refers to a Fulfillment Order Schedule from which the containing Fulfillment Order Schedule is split.	New
CustomerPartyAccountSiteUsageIdentification	An identification pointing to a CustomerPartyAccountSiteUsage in the CustomerParty object.	New
CustomerPartyAccountSiteIdentification	An identification pointing to a Customer Party Account Site entity within a Customer Party Account entity of the Customer Party object.	New

2. Industry

This chapter includes the following sections:

- [Public Sector](#)
- [Utilities](#)
- [Health Sciences](#)

2.1. Public Sector

Public Sector Industry is characterized by the services and information exchange between government and its citizens. Oracle introduced Oracle iGovernment to help manage the increasing expectation from citizens, businesses, elected officials and employees on the need to provide services and information more quickly and cost effective. The Public Sector Foundation Pack extension has been introduced in Foundation Pack 11g Release 1 (11.1.1.4.0) to provide the platform to standardize all these information exchange with Oracle iGovernment.

This section includes the following topics:

- [New EBOs](#)
- [Existing EBOs with Significant Public Sector-Specific Enhancements](#)
- [Common Components with Significant Enhancements](#)

2.1.1. New EBOs

This section includes the following topics:

- [TaxFormSubmission](#)
- [TaxObligation](#)
- [Case](#)

2.1.1.1. TaxFormSubmission

2.1.1.1.1. Description

The Tax Form Submission represents a primary means for creating and maintaining tax payer and also processing the tax returns. A Tax Form Submission may represent a tax return filing with multiple supporting schedules and attachments, or other types of tax filing such as tax registration, payment / direct deposit information.

2.1.1.1.2. Use Case

One of the use cases for TaxFormSubmission is to facilitate receiving tax form in CRM applications, validating and processing it to create the resultant tax return assessment for filing.

2.1.1.2. TaxObligation

2.1.1.2.1. Description

Tax Obligation is a legal requirement between the tax authority and the tax payer. For example, a corporate entity has certain tax responsibilities with the tax authority. These responsibilities are tracked through the obligation. The obligation always references a tax filing period. Every account of a taxpayer should have at least one obligation (otherwise, the account has no financial obligations with the tax authority). There is no limit to the number of obligations that may be linked to an account.

2.1.1.2.2. Use Case

Tax Obligation object enables the query of Tax information from one system to the other. An obligation that is maintained in Enterprise Taxation Management (ETM) can be viewed by a CSR from the Taxpayer portal in Siebel. It can also be viewed by a case worker that processes a case in Siebel.

2.1.1.3. Case

2.1.1.3.1. Description

Case is a record of services that are provided by the government agency to its constituents. In real life the government agency will create a case file for any person the government is providing a service to. A case worker at the government agency will look at this case file to service the citizen.

2.1.1.3.2. Use Case

One of the use cases for Case object is for audit to ensure that the tax filling is in full compliance with the law that govern the different tax types. The audits include Field audit, Collection audit, Bankruptcy audit, and Non Filer audit Criminal investigation.

2.1.2. Existing EBOs with Significant Public Sector-Specific Enhancements

2.1.2.1. CustomerParty

Added the following components to CustomerParty EBO to support Public Sector specific requirements:

- CustomerPartyAccountTaxRole: Tax Roles represent the ongoing obligations of a given tax type within an account at a given point in time.
- CustomerPartyAccountFilingCalendar: It defines filing periods for the tax role

2.1.3. Common Components with Significant Enhancements

This section lists out new common components and significant additions to existing common components added since Foundation Pack 11g Release 1 (11.1.1.2.0).

Common Component	Description	New/Existing
TaxPaymentAllocation	This represents an allocation of a payment to a taxpayer for a	New

Common Component	Description	New/Existing
	given filing period and tax type.	
EFT	The following attribute was added: ReceivingDepositoryFinancialInsitution (RDFI) is the institution which receives the ACH Automated Clearing House's transaction for posting to receiver's account. RDFI is the interface between the Receiver's account and the Cards Association network (that includes companies such as Visa, MasterCard, American Express, etc.).	Existing

2.2. Utilities

2.2.1. Existing EBOs with Significant Enhancements

This section includes the following topics:

- [WorkOrder](#)
- [InstalledProduct](#)

2.2.1.1. WorkOrder

Added support for life support equipment for special needs' customers at the work order line level

2.2.1.2. InstalledProduct

In order to support search by Service Point in the ValidateWorkOrderInstalledProduct operation, LocationServicePointReference has been added.

2.3. Health Sciences

2.3.1. Existing EBOs with Significant Enhancements

2.3.1.1. DrugSafetyReport:

The DrugSafetyReport EBO was originally designed based on the E2B Industry standard for reporting cases involving adverse reactions to investigational or post-market drugs. This EBO was enhanced to support reporting cases involving adverse reactions to investigational or post-market medical devices. The FDA medwatch form, the industry standard, eMDR, and Oracle's safety products, AERs and Argus.

The following were added to this EBO:

- DrugSafetyReportMedicalDevice: A medical device being used by the patient at the time the adverse reaction/event occurred.
- DrugSafetyReportMedicalDeviceRemedialAction: The remedial actions that were taken as a result of

the adverse events. Example actions are recall, relabeling, etc. The meanings of these terms are defined or further explained in the Act or in the FDA regulations concerning remedial action (see 21 USC 360h and 21 CFR Parts 7, 803 and 806).

- **DrugSafetyReportMedicalDeviceManufacturer:** Name and address of the company/organization that manufactured the medical device.
- **DrugSafetyReportMedicalDeviceReprocessor:** Name and address of the company/organization that reprocessed the medical device for use on another patient.
- **DrugSafetyReportMedicalDeviceEvent:** Medical Device Event Problems Codes can be Patient Codes or Device Codes from the Device Coding Manual for Form 3500 A. Patient codes indicate the effects that an event may have had on the patient, including signs, symptoms and syndromes, or diagnosis and device codes describe device failures or issues related to the device that are encountered during the event.
- **DrugSafetyReportMedicalDeviceEvaluation:** Codes for the Method, Result and Conclusion of each evaluation done on the medical Device. These codes come from I208 FDA 3500 A tag H6.
- **ReportDrugSafetyReport:** This is a new operation added to the DrugSafetyReport EBO. This was done to capture the reporting of the adverse reactions from a Call Center or Electronic Data Capture (EDC) system to the safety system. The Call Center or EDC system is sending information that causes the Safety system to create a Case and analyze the reactions. The Safety System would then create a report to send to the regulatory authority of each country required.