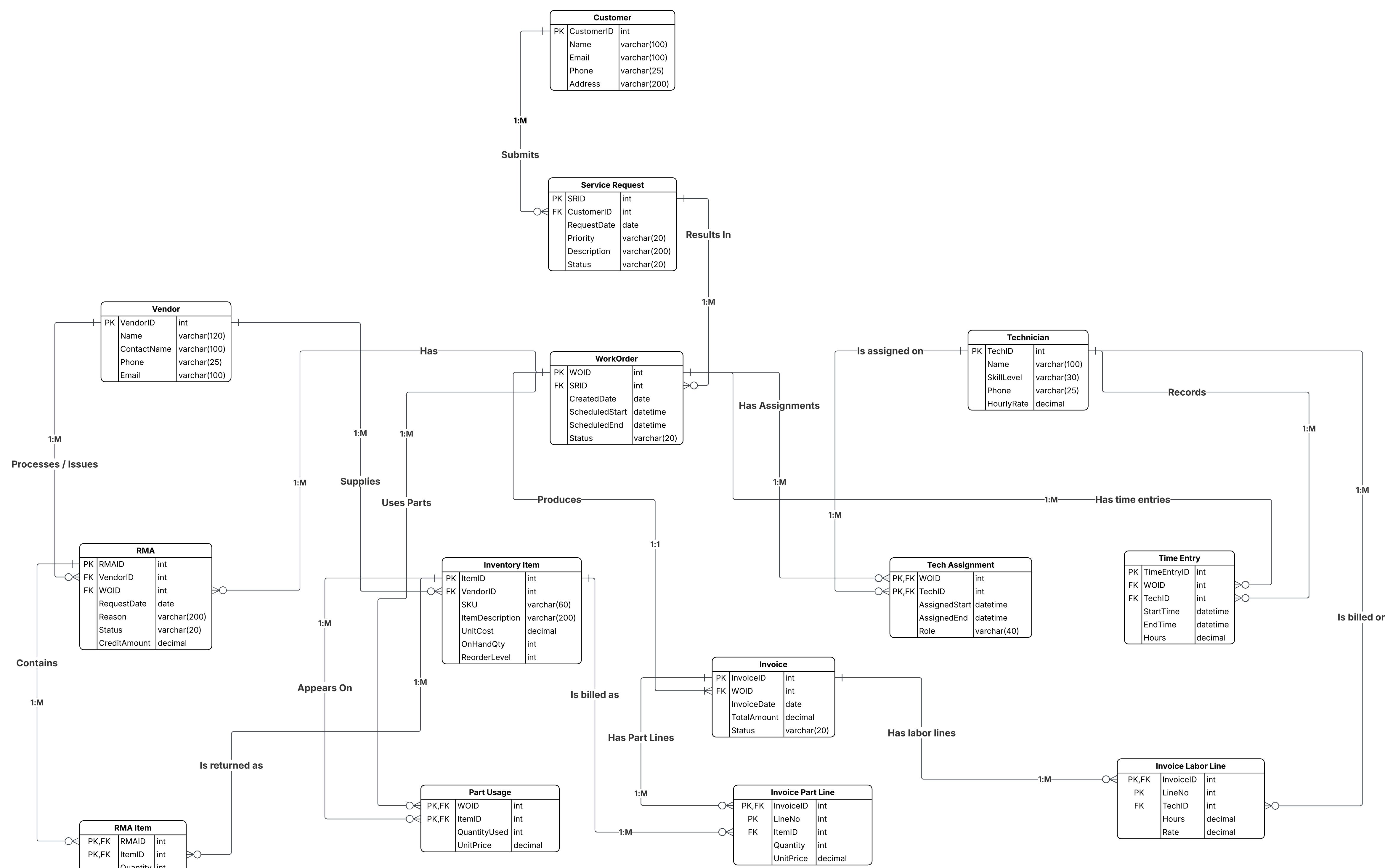


Orion Consulting Group Phase - 3



• **Customer — ServiceRequest**
Relationship: Submits
Cardinality: 1:M (One to Many)
 One Customer can submit many ServiceRequests; each ServiceRequest belongs to one Customer.

• **ServiceRequest — WorkOrder**
Relationship: Results In
Cardinality: 1:M (One to Many)
 One ServiceRequest can lead to many WorkOrders; each WorkOrder is for one ServiceRequest.

• **WorkOrder — TechAssignment**
Relationship: Has assignments
Cardinality: 1:M (One to Many)
 One WorkOrder can have many TechAssignments.

• **Technician — TechAssignment**
Relationship: Is assigned on
Cardinality: 1:M (One to Many)
 One Technician can appear on many TechAssignments. (Conceptually, WorkOrder—Technician is M:N, implemented via TechAssignment(WOID, TechID).)

• **WorkOrder — TimeEntry**
Relationship: Has time entries
Cardinality: 1:M (One to Many)
 One WorkOrder can have many TimeEntries.

• **Technician — TimeEntry**
Relationship: Records
Cardinality: 1:M (One to Many)
 One Technician can record many TimeEntries.

• **Vendor — InventoryItem**
Relationship: Supplies
Cardinality: 1:M (One to Many)
 One Vendor supplies many InventoryItems.

• **WorkOrder — PartUsage**
Relationship: Uses parts
Cardinality: 1:M (One to Many)
 One WorkOrder can have many PartUsage rows.

• **InventoryItem — PartUsage**
Relationship: Appears on
Cardinality: 1:M (One to Many)
 One InventoryItem can appear on many PartUsage rows.

• **Vendor — RMA**
Relationship: Processes / Issues
Cardinality: 1:M (One to Many)
 One Vendor can be associated with many RMAs.

• **WorkOrder — RMA**
Relationship: Has
Cardinality: 1:M (One to Many)
 One WorkOrder can have many RMAs.

• **RMA — RMAItem**
Relationship: Contains
Cardinality: 1:M (One to Many)
 One RMA contains one or many RMAItems (at least one item per RMA).

• **InventoryItem — RMAItem**
Relationship: Is returned as
Cardinality: 1:M (One to Many)
 One InventoryItem can appear on many RMAItems.

• **WorkOrder — Invoice**
Relationship: Produces
Cardinality: 1:1 (every job is always billed)
 A WorkOrder may produce zero or one Invoice; each Invoice is for exactly one WorkOrder.

• **Invoice — InvoicePartLine**
Relationship: Has part lines
Cardinality: 1:M (One to Many)
 One Invoice has many InvoicePartLines.

• **InventoryItem — InvoicePartLine**
Relationship: Is billed as
Cardinality: 1:M (One to Many)
 One InventoryItem can appear on many InvoicePartLines.

• **Invoice — InvoiceLaborLine**
Relationship: Has labor lines
Cardinality: 1:M (One to Many)
 One Invoice has many InvoiceLaborLines.

• **Technician — InvoiceLaborLine**
Relationship: Is billed on
Cardinality: 1:M (One to Many)
 One Technician can appear on many InvoiceLaborLines.