

Day 4

SAP event driven architecture artifacts visualized using the Event Portal

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Day 4

Exercise 1: AP event driven architecture artifacts visualized using the Event Portal

- Explore the Event Portal and learn how to import objects
- Learn how to create a design so that your events can be mapped and understood

Prerequisites

- You access and use the same broker you setup previously

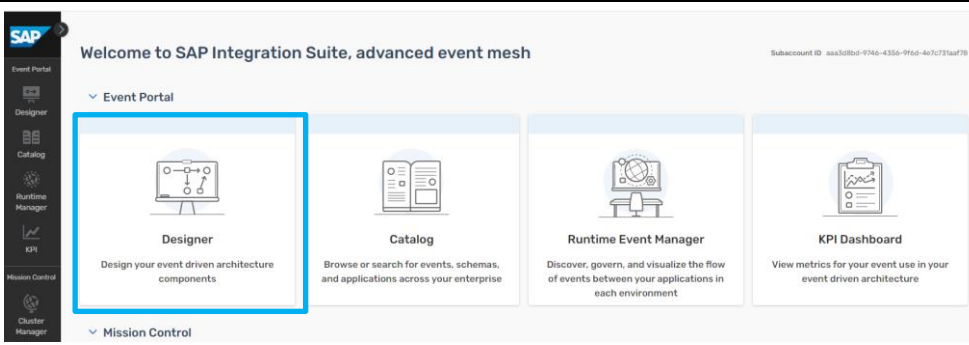
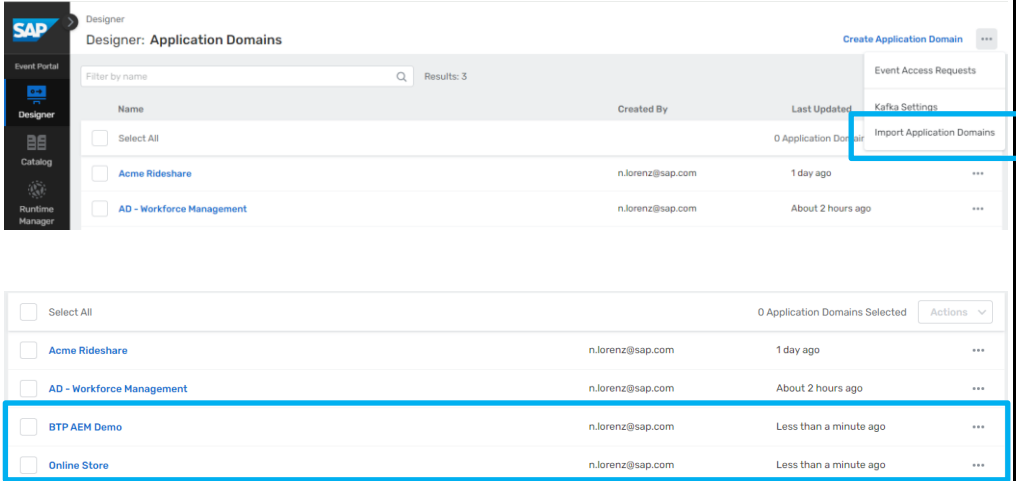
Day 4
Solution 1

Solution 1: Work with Event Designer

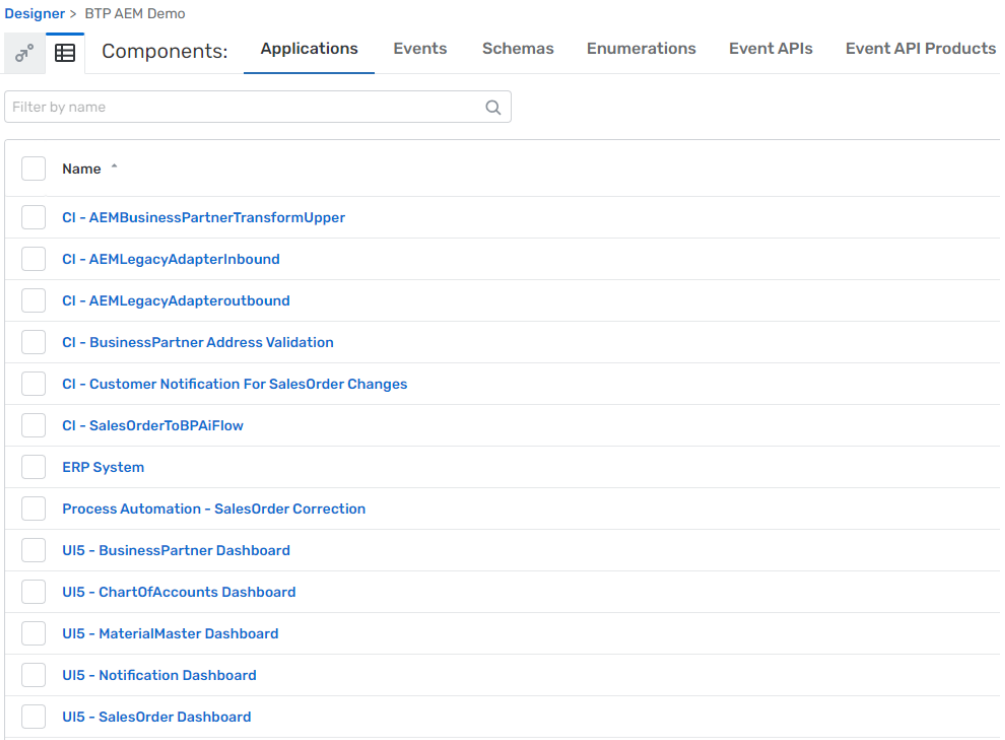
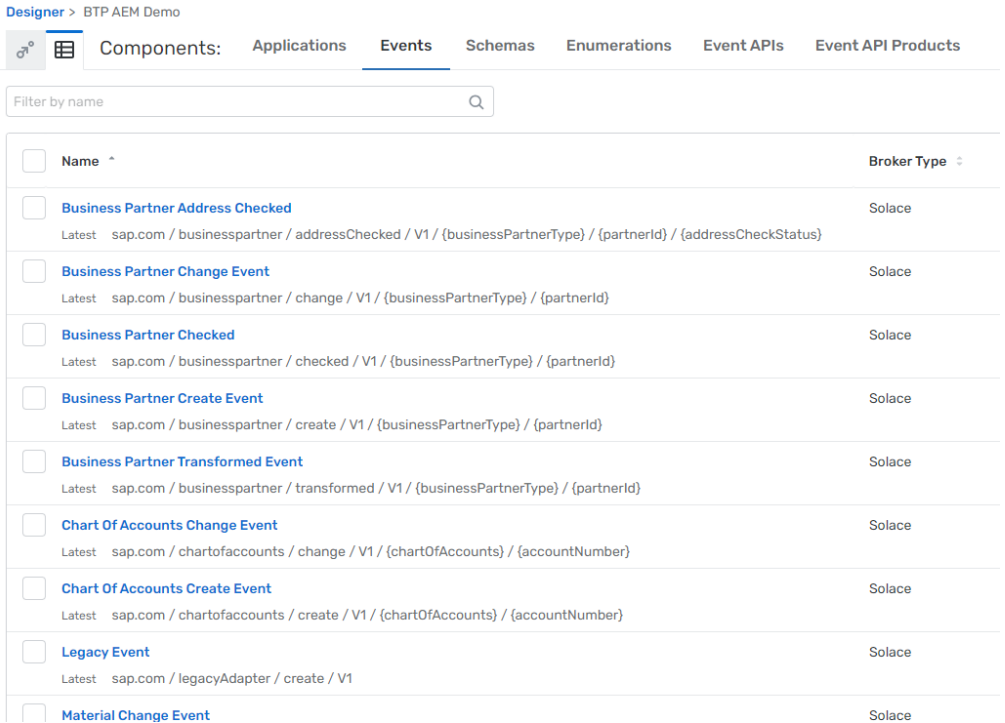
Scenario

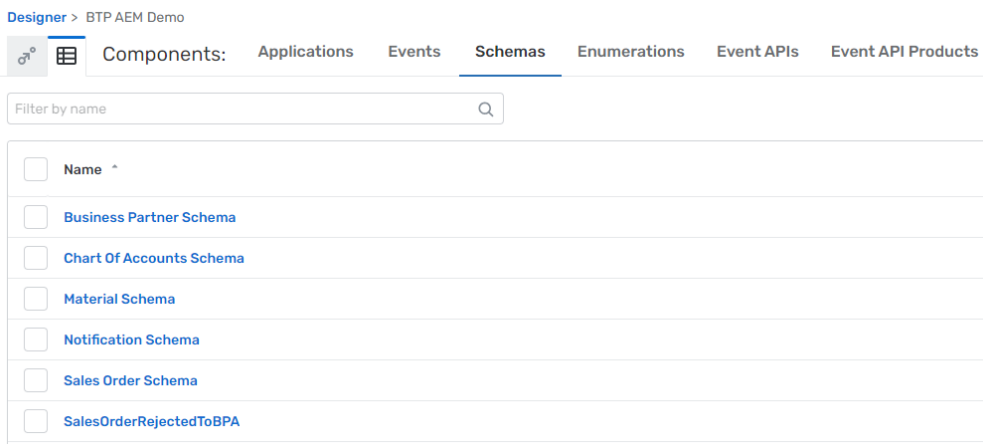
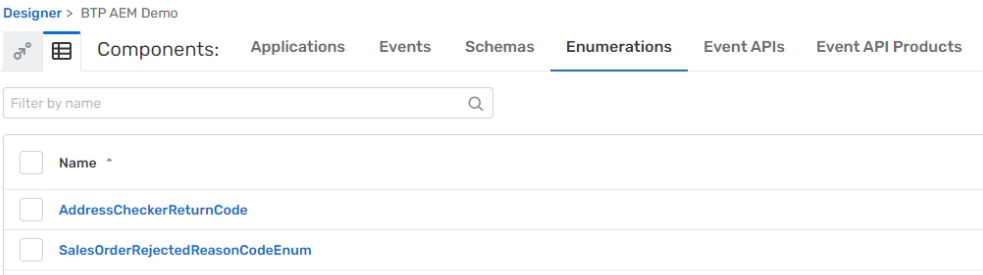
- Explore the Event Portal and learn how to import objects
- Learn how to create a design so that your events can be mapped and understood

Task 1: Create a Message Client

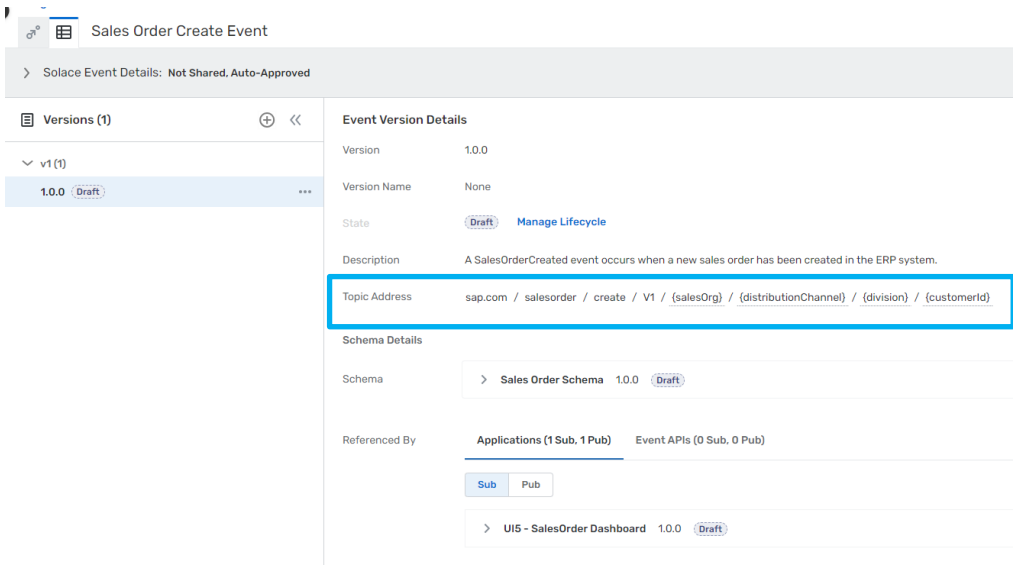
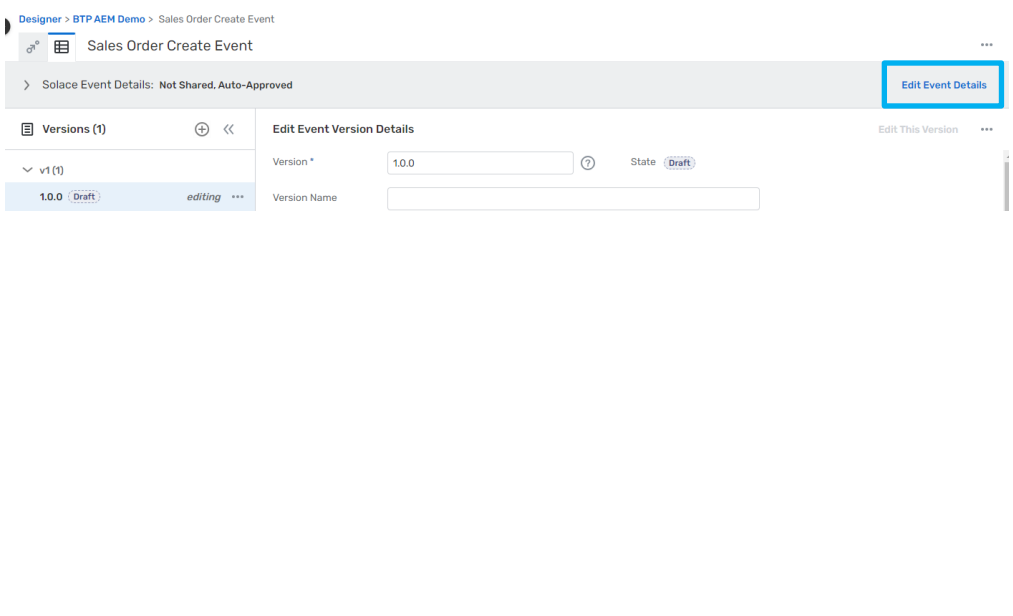
Explanation	Screenshot
From the SAP AEM Console, open the Designer.	
<p>Download btp_aem_demo.json to your file system and import it:</p> <p>Import the demo domain from the provided export file. Pull down the menu extension in the Application Domains view and select the import function.</p> <p>After the import is complete, you will see the evaluation domain in the domains list.</p>	

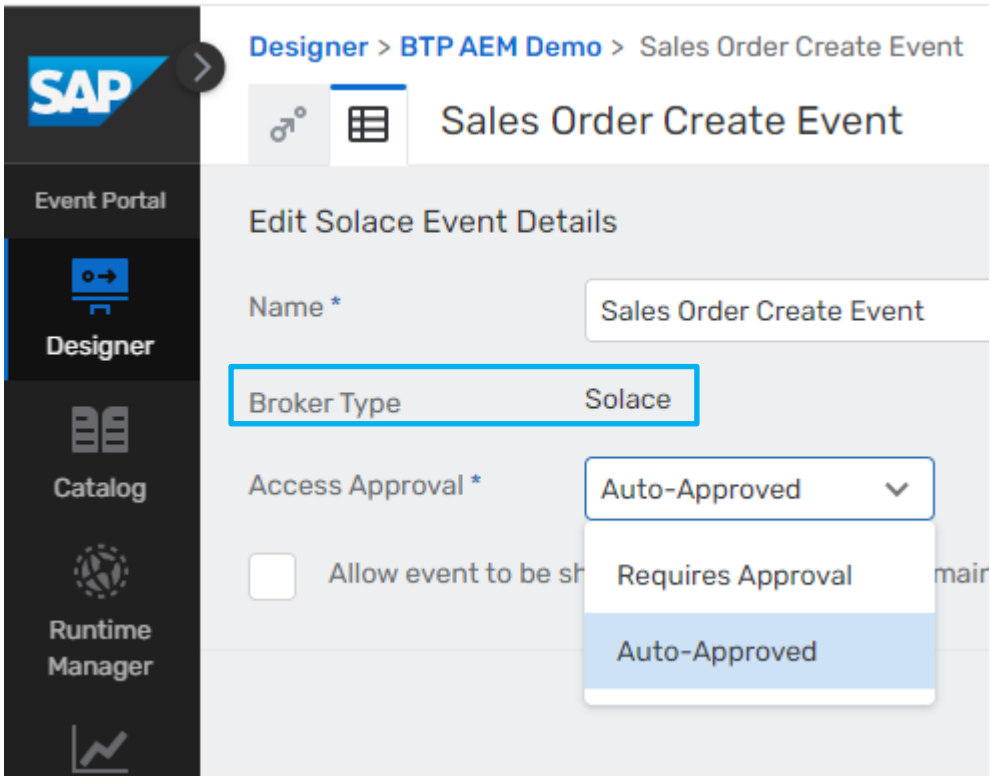
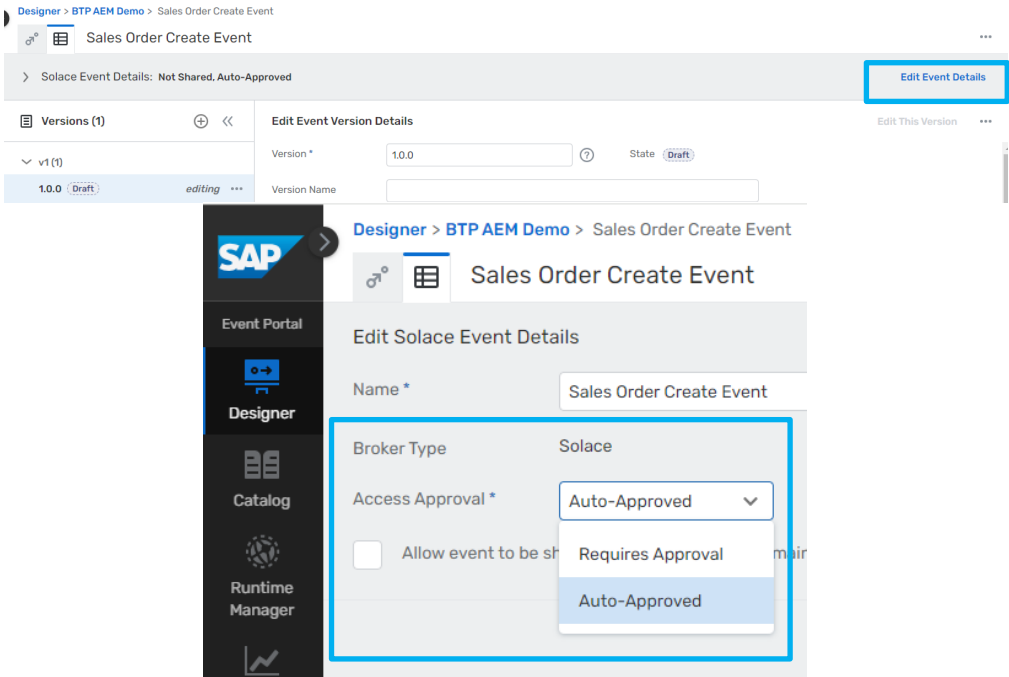
Explanation	Screenshot
<p>Take a quick tour of the domain model.</p>	<p>Designer > BTP AEM Demo</p> <p>Graph View: BTP AEM Demo</p> <p>Find on Graph</p> <p>Showing latest versions</p> <p>Designer > BTP AEM Demo</p> <p>Components: Applications Events Schemas Enumerations Event APIs Event API Products</p> <p>Filter by name</p> <p><input type="checkbox"/> Name *</p> <p><input type="checkbox"/> CI - AEMBusinessPartnerTransformUpper</p> <p><input type="checkbox"/> CI - AEMLegacyAdapterInbound</p> <p><input type="checkbox"/> CI - AEMLegacyAdapterOutbound</p>

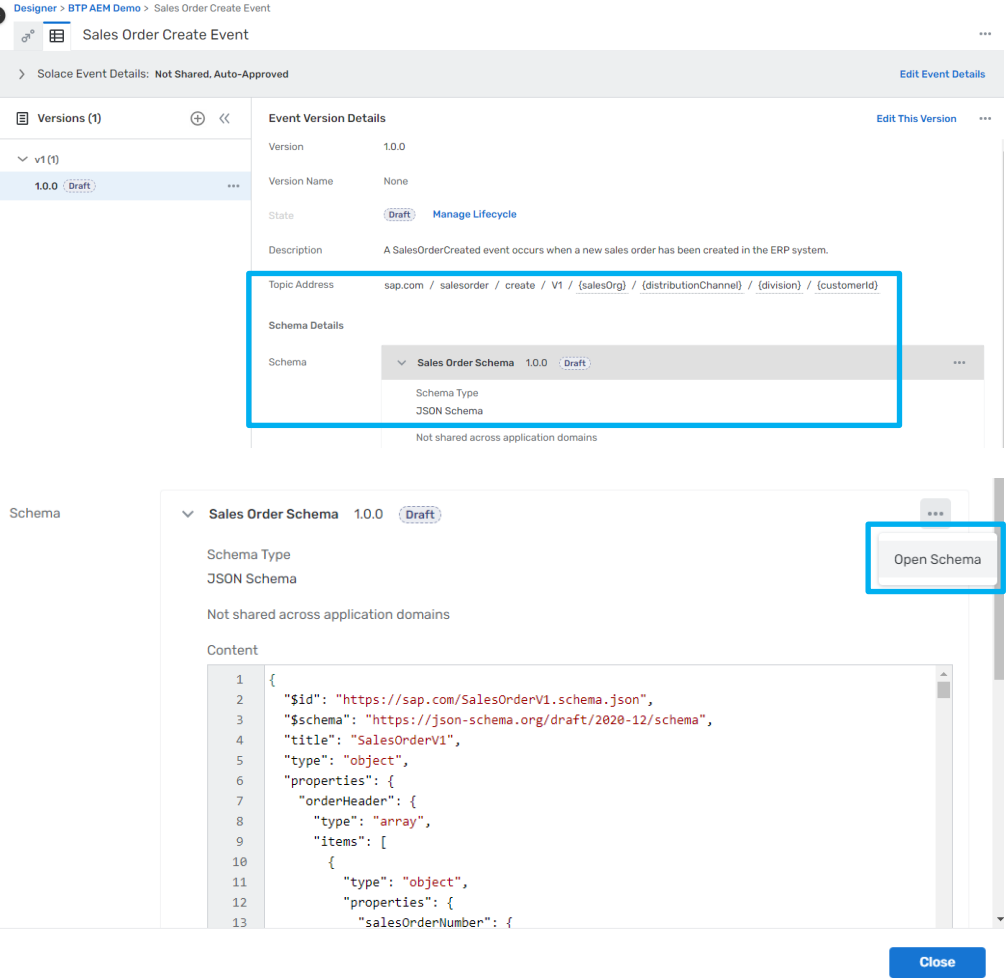
Explanation	Screenshot
<p>The initial view of the domain will be of the “Applications” tab. You will see several modeled applications in the list related to the demo.</p> <p>Note: Event APIs and Event API Products can be used to expose and manage AsyncAPI interfaces within organizations, or with external partners through your APIM vendor. Note that Event APIs and Event API Products are advanced topics that will not be covered by this demonstration design. Clicking on the Events tab, you will see a listing of events defined for the domain.</p>	
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Explanation	Screenshot
<p>Clicking on the Schemas tab, you will see 5 schemas.</p> <p>Note: For simplicity, one schema defined for use by all events dealing with each object.</p>	 <p>The screenshot shows the SAP Event Designer interface with the 'Schemas' tab selected. The breadcrumb is 'Designer > BTP AEM Demo'. The navigation bar includes 'Components', 'Applications', 'Events', 'Schemas' (active), 'Enumerations', 'Event APIs', and 'Event API Products'. A search bar 'Filter by name' is present. A list of schemas is displayed, each with a checkbox and a name: 'Name ^', 'Business Partner Schema', 'Chart Of Accounts Schema', 'Material Schema', 'Notification Schema', 'Sales Order Schema', and 'SalesOrderRejectedToBPA'.</p>
<p>Clicking on the Enumerations tab, you will see one enum.</p> <p>Note: Enums are used in the model to show a finite set of possible values.</p> <p>For example, this one is defined to hold a concise set of rejected reason code values for sales orders.</p> <p>Other Examples: Country Codes etc.</p> <p><u>Versions should be not Enumerations – as they can occur e. g. multiple times in a topic subscription.</u></p>	 <p>The screenshot shows the SAP Event Designer interface with the 'Enumerations' tab selected. The breadcrumb is 'Designer > BTP AEM Demo'. The navigation bar includes 'Components', 'Applications', 'Events', 'Schemas', 'Enumerations' (active), 'Event APIs', and 'Event API Products'. A search bar 'Filter by name' is present. A list of enumerations is displayed, each with a checkbox and a name: 'Name ^', 'AddressCheckerReturnCode', and 'SalesOrderRejectedReasonCodeEnum'.</p>

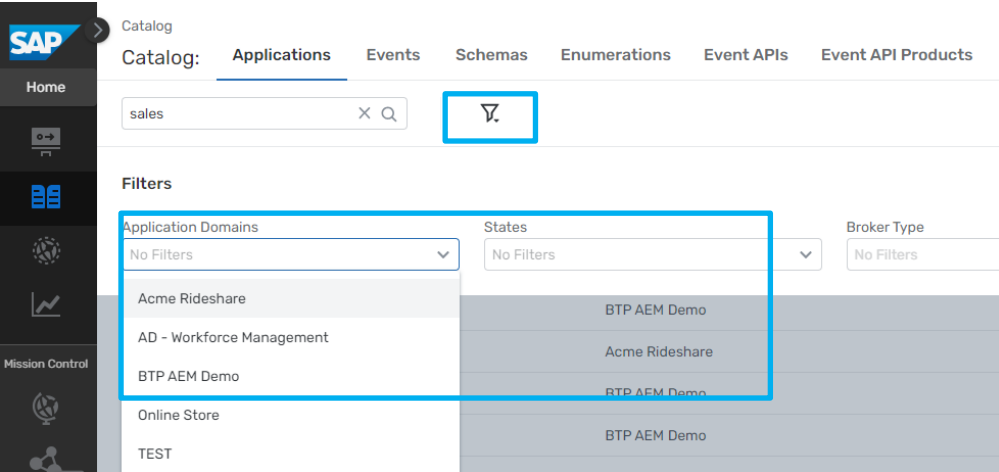
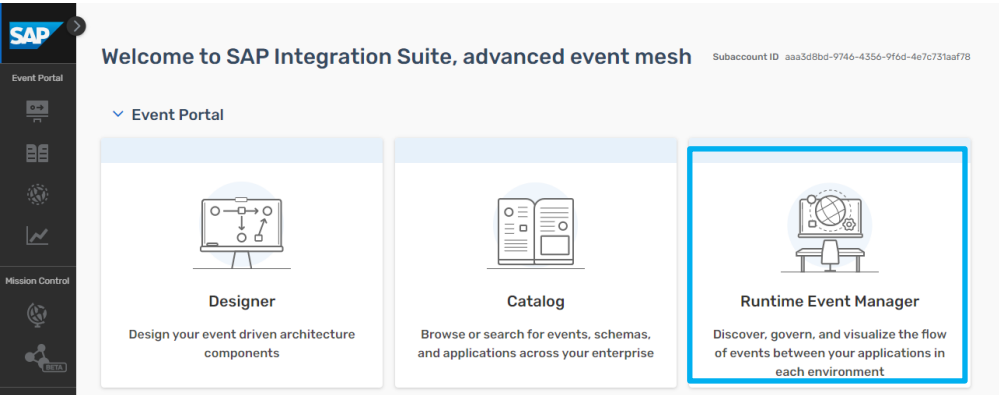
Explanation	Screenshot
<p>Use the search box near the top to filter down to the event(s) we want to find. For example, typing "Sales" here results in a live search that filters the list down to just Sales Order related events.</p> <p>Clicking on the Sales Order Create event in this view will drill into the definition of that event.</p>	<p>The screenshot shows the SAP Event Designer interface with the search bar set to 'Sales'. The results list several events, with 'Sales Order Create Event' highlighted. The breadcrumb path is 'Designer > BTP AEM Demo'. The top navigation bar includes 'Components', 'Applications', 'Events', 'Schemas', 'Enumerations', and 'Event APIs'. The search bar has a magnifying glass icon and a close button. The list of events includes 'Sales Order Address Checked Event', 'Sales Order Change Event', 'Sales Order Create Event', 'Sales Order DMQed', 'Sales Order Notified Event', 'Sales Order Retry Event', 'SalesOrderRejected Event', and 'SalesOrderRejectedToBPA'. Each event entry shows its latest version and topic address.</p>
<p>Version & State:</p> <p>Designer can be used to manage the version and state of model objects and tracks their relationships for you, enabling full SDLC (software development lifecycle) visibility. It also serves as a collaboration space that allows you to leverage events you create more effectively to derive new value for the business.</p>	<p>The screenshot shows the 'Event Version Details' for the 'Sales Order Create Event'. The breadcrumb path is 'Sales Order Create Event'. The page title is 'Solace Event Details: Not Shared, Auto-Approved'. The 'Versions (1)' section shows 'v1 (1)' with a '1.0.0 (Draft)' version. The 'Event Version Details' panel shows the following information: Version: 1.0.0, Version Name: None, State: Draft (with a 'Manage Lifecycle' link), Description: 'A SalesOrderCreated event occurs when a new sales order has been created in the ERP system.', Topic Address: 'sap.com / salesorder / create / V1 / {salesOrg} / {distributionChannel} / {division} / {customerId}', Schema Details: 'Sales Order Schema 1.0.0 (Draft)', and Referenced By: 'Applications (1 Sub, 1 Pub)' and 'Event APIs (0 Sub, 0 Pub)'. The 'Referenced By' section shows a link to 'UIS - SalesOrder Dashboard 1.0.0 (Draft)'.</p>

Explanation	Screenshot
<p>Topic Address and Broker Type: For AEM services (broker type = Solace), the topic address is a string with "/" separators that enables dynamic routing and filtering. Following best practice guidelines for creating topic strings is critical to your EDA success.</p> <p>As Broker type also "Kafka" is possible. For Kafka at the very first beginning the delimiter (global setup) needs to be defined and can not be changed afterwards</p> <p>The general format is ORG/DOMAIN/VERB/VERSION/{ATTRIBUTE1}/{ATTRIBUTE2}/...</p> <p>Topics are a powerful mechanism employed by AEM to perform dynamic routing in an event mesh, moving copies of events only where they are needed. It also enables consuming clients to filter events within topics using subscriptions and wildcard characters (*, >).</p> <p>This capability avoids client applications having to implement</p>	 <p>The screenshot displays the 'Solace Event Details' for a 'Sales Order Create Event'. The 'Topic Address' field is highlighted with a blue box, showing the format: sap.com / salesorder / create / V1 / {salesOrg} / {distributionChannel} / {division} / {customerId}. The 'Event Version Details' section shows the version as 1.0.0, state as Draft, and a description: 'A SalesOrderCreated event occurs when a new sales order has been created in the ERP system.' The 'Schema Details' section shows the schema as 'Sales Order Schema 1.0.0 Draft' and the 'Referenced By' section shows applications and event APIs.</p>  <p>The second screenshot shows the 'Edit Event Version Details' form for the same event. The 'Edit Event Details' button is highlighted with a blue box. The form includes fields for 'Version *' (1.0.0), 'State' (Draft), and 'Version Name'.</p>

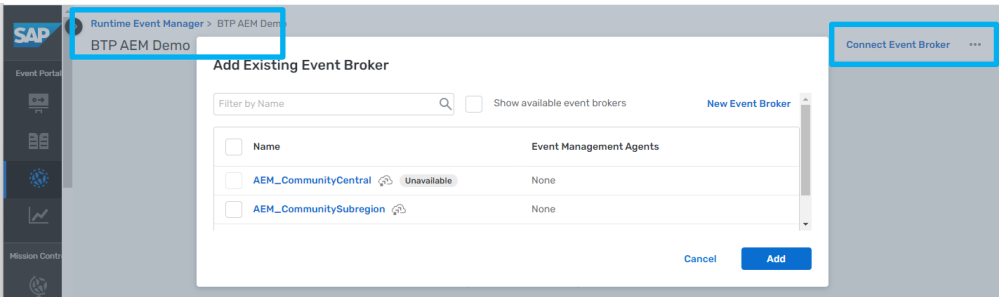
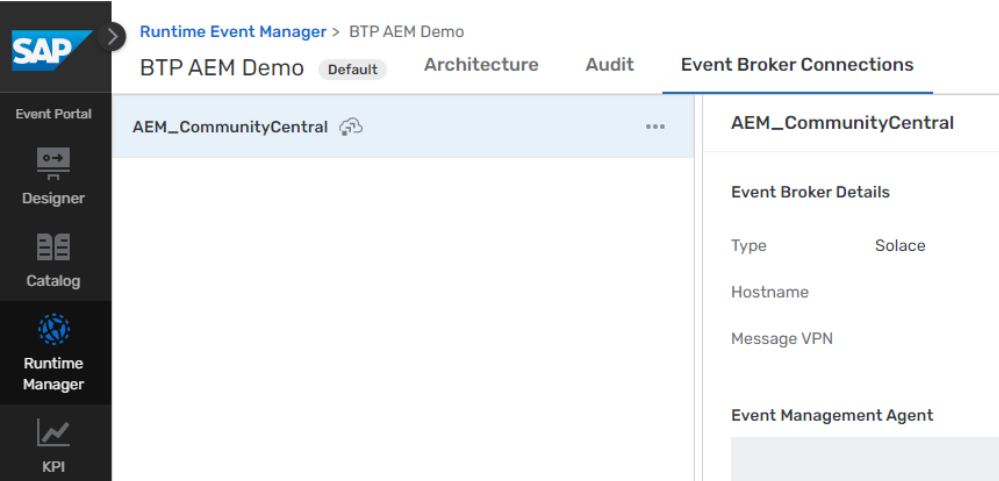
Explanation	Screenshot
brittle, complex filtering logic to reject unwanted events.	 <p>The screenshot shows the SAP Event Designer interface for configuring the 'Sales Order Create Event'. The left sidebar contains navigation links for Event Portal, Designer, Catalog, and Runtime Manager. The main area is titled 'Edit Solace Event Details'. Fields include 'Name' (Sales Order Create Event), 'Broker Type' (Solace), and 'Access Approval' (Auto-Approved). A dropdown menu for 'Access Approval' is open, showing options: 'Auto-Approved' (selected), 'Requires Approval', and 'Auto-Approved'.</p>
<p>Event Approval</p> <p>This feature set introduces an event data request and approval workflow to streamline the process of granting access to sensitive or restricted event data.</p> <p>Developers and architects can request access to specific event data for their applications.</p> <p>Personas in the same Application Domain, will not need to get an approval for Events in</p>	 <p>The screenshot shows the SAP Event Designer interface for configuring the 'Sales Order Create Event'. The left sidebar contains navigation links for Event Portal, Designer, Catalog, and Runtime Manager. The main area is titled 'Edit Solace Event Details'. Fields include 'Name' (Sales Order Create Event), 'Broker Type' (Solace), and 'Access Approval' (Auto-Approved). A dropdown menu for 'Access Approval' is open, showing options: 'Auto-Approved' (selected), 'Requires Approval', and 'Auto-Approved'.</p>

Explanation	Screenshot
there Application Domain they belong to.	
<p>Check referenced schema to expand your view</p> <p>The referenced schema can be displayed as content in this view. Now click on the expanded menu in this section and select Open Schema.</p> <p>Open Schema ends in a detailed description and you have control to edit, create a version, and adjust the state of the schema. The description includes links to references used to define the objects in the demonstration. If you click on the expander, you can view just the schema text in a larger view without opening it for editing.</p> <p>The Designer tool will be a useful way to explore the demonstration data throughout your evaluation.</p>	 <p>The screenshot displays the SAP Event Designer interface for the 'Sales Order Create Event'. The top navigation bar shows 'Designer > BTP AEM Demo > Sales Order Create Event'. The main content area is titled 'Solace Event Details: Not Shared, Auto-Approved'. On the left, a 'Versions (1)' list shows 'v1 (1)' with a '1.0.0 Draft' version selected. The 'Event Version Details' panel on the right shows the event is in 'Draft' state with a 'Manage Lifecycle' link. The 'Topic Address' is 'sap.com / salesorder / create / V1 / {salesOrg} / {distributionChannel} / {division} / {customerId}'. The 'Schema Details' section shows the 'Sales Order Schema' (1.0.0 Draft) is selected. The 'Open Schema' button is highlighted in the bottom right corner of the schema details view. The 'Content' section shows the JSON schema definition for the 'Sales Order Schema'.</p> <pre> 1 { 2 "\$id": "https://sap.com/SalesOrderV1.schema.json", 3 "\$schema": "https://json-schema.org/draft/2020-12/schema", 4 "title": "SalesOrderV1", 5 "type": "object", 6 "properties": { 7 "orderHeader": { 8 "type": "array", 9 "items": [10 { 11 "type": "object", 12 "properties": { 13 "salesOrderNumber": { </pre>

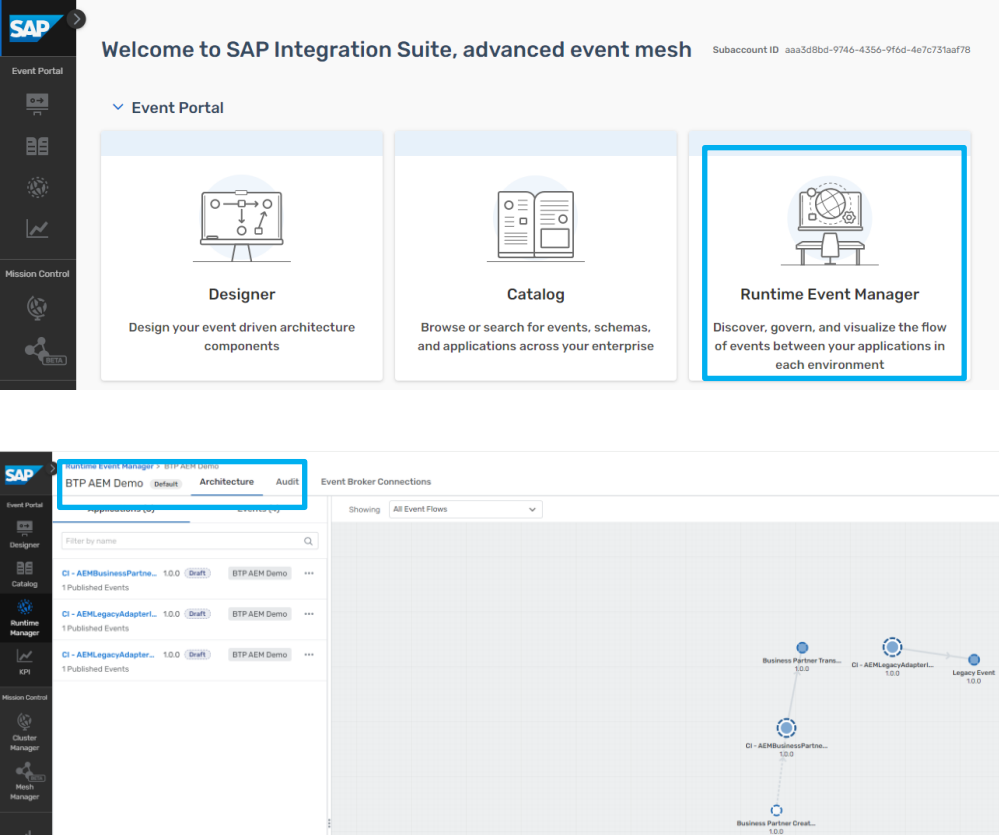
Explanation	Screenshot
	<div><div><div>Schema Version Details</div><div><div>Version</div><div>1.0.0</div></div><div><div>Version Name</div><div>None</div></div><div><div>State</div><div><div>Draft</div><div>Manage Lifecycle</div></div></div><div><div>Description</div><div><div>Data Structure</div><div>A sales order object in SAP has a large number of data elements - Here are a few examples: OCRMPCATHDR = Prod. catalog number OBBP_POITEM = Item Number in Order Document OCRMPAVSCHW = Material Availability Date (Requested) This sample implementation is for demonstration purpose only, and does not implement the full object with all attributes. The full list can be found at https://help.sap.com/saphelp_scm700_ehp02/helpdata/en/4d/aecd595deb1c36e1000000a42189b/content.htm?no_cache=true Background The sales order business object (object type BUS2032) is a request from a customer to a company asking for a specific quantity of materials to be delivered, or services to be rendered, on a given date. A sales order is sent to a sales area, and this sales area is then responsible for fulfilling the contract. https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/0f18dddf28764f5b807ecd80549044cc/6422b753128eb44ce1000000a174cb4.html</div></div></div><div><div>Content</div><div><pre>1 { 2 "\$id": "https://sap.com/SalesOrderV1.schema.json", 3 "\$schema": "https://json-schema.org/draft/2020-12/schema", 4 "title": "SalesOrderV1", 5 "type": "object", 6 "properties": {</pre></div></div></div><div><div>Edit This Version</div><div>...</div></div></div>
The Catalog is an important collaboration feature that allows you to quickly find objects across domains. Let's use this tool to find the Sales Order events	<div><div><div><div><div>SAP</div><div>Event Portal</div><div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><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Explanation	Screenshot
<p>You will see the filtering of the live search as you type. Next, get more specific and "Create" to the search string. This will narrow your results to Sales Order related events:</p>	
<p>Visualize your imported design with a modeled event mesh. Event Portal includes a powerful tool called the Runtime Manager. One of the functions of this tool is to associate a domain model with a "modeled event mesh" running on your launched AEM event services. This allows the Runtime Manager to display a visualization of the interactions between applications and events. While there are many additional powerful features of Runtime Manager, our evaluation will focus just on visualization. From the SAP AEM Console, open the Runtime Manager:</p>	

Explanation	Screenshot
<p>Click on Create Modeled Event Mesh top right:</p> <p>Enter the name of your modeled event mesh and click on Create:</p> <p>BTP AEM Demo</p>	<p>The screenshot displays the 'Create Modeled Event Mesh' interface. At the top right, a blue button labeled 'Create Modeled Event Mesh' is highlighted. Below this, the 'Modeled Event Mesh Name' field contains the text 'BTP AEM Demo'. To the right of this field is a 'Type' dropdown menu set to 'Solace'. Below these fields is a 'Description' text area with a rich text editor toolbar. Further down is an 'Environment' dropdown menu set to 'Default', which shows '2 Modeled Event Meshes'. At the bottom right, a blue 'Create' button is highlighted, next to a grey 'Cancel' button. A tooltip is visible at the bottom of the dialog, explaining that environments represent operational environments within an organization, such as development, staging, and production.</p>

Explanation	Screenshot						
<p>Open your Model Event Mesh.</p> <p>In the Event Broker Connections tab, click on Connect Event Broker.</p> <p>In the Event Broker Connections tab, click on Connect Event Broker.</p> <p>Select and Add your specific “Event Brokers” marked with checkboxes</p>	 <p>Add Existing Event Broker</p> <p>Filter by Name <input type="text"/> <input type="checkbox"/> Show available event brokers New Event Broker</p> <table border="1"> <thead> <tr> <th>Name</th> <th>Event Management Agents</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> AEM_CommunityCentral</td> <td>None</td> </tr> <tr> <td><input type="checkbox"/> AEM_CommunitySubregion</td> <td>None</td> </tr> </tbody> </table> <p>Cancel Add</p>	Name	Event Management Agents	<input checked="" type="checkbox"/> AEM_CommunityCentral	None	<input type="checkbox"/> AEM_CommunitySubregion	None
Name	Event Management Agents						
<input checked="" type="checkbox"/> AEM_CommunityCentral	None						
<input type="checkbox"/> AEM_CommunitySubregion	None						
<p>The selected broker listed in the modeled event mesh. For the scope of this evaluation, we will not be exercising the Discovery Scan or Audit capabilities.</p>	 <p>Runtime Event Manager > BTP AEM Demo</p> <p>BTP AEM Demo Default Architecture Audit Event Broker Connections</p> <p>AEM_CommunityCentral ...</p> <p>AEM_CommunityCentral</p> <p>Event Broker Details</p> <p>Type Solace</p> <p>Hostname</p> <p>Message VPN</p> <p>Event Management Agent</p>						

Explanation	Screenshot
<p>Next, navigate back to the Designer and open the BTP AEM Demo domain.</p> <p>Under the Applications tab, you will see all the modeled applications. For each application, perform the following actions:</p> <ol style="list-style-type: none">1. Click on the application's row where it says "Standard" for application type.2. In the preview panel to the right, select the "Add to Environment" extended menu action for version 1.0.0 of the application object.3. Leaving the Default environment selected, pick your Modeled Event Mesh from the second pull down and both of your event mesh services from the Event Broker menu, then click Add. <p>This will add the modeled applications to your modeled event mesh. Since these applications reference the events, and those events reference the schemas, all of your model</p>	<p>The screenshot displays the SAP Event Designer interface. The top navigation bar includes 'Components: Applications', 'Events', 'Schemas', 'Enumerations', 'Event APIs', and 'Event API Products'. A table lists several applications, with 'CI - AEMBusinessPartnerTransformUpper' highlighted. The 'Application Type' column for this application is 'Standard'. To the right, the 'CI - AEMBusinessPartnerTransformUpper' details panel shows 'Application Details' and 'Versions (1)'. The 'Add to Environment' dialog is open, showing the 'Environment' set to 'Default', 'Modeled Event Mesh' set to 'BTP AEM Demo', and 'Event Broker' set to 'AEM_CommunityCentral'. The application details in the dialog show 'Name: CI - AEMBusinessPartnerTransformUpper' and 'Version: 1.0.0 Draft'. The 'Add' button is highlighted in blue.</p>

Explanation	Screenshot
will now be associated with your modeled event mesh.	
<p>Navigate back to the Runtime Manager and your modeled event mesh to see the default visualization:</p>	 <p>The screenshot shows the SAP Integration Suite Event Portal. The top navigation bar includes the SAP logo and a subaccount ID. The main content area is titled 'Welcome to SAP Integration Suite, advanced event mesh' and features three main options: Designer, Catalog, and Runtime Event Manager. The Runtime Event Manager option is highlighted with a blue border. Below this, the 'Runtime Event Manager' section displays a list of event flows and a diagram titled 'Event Broker Connections' showing a flow from 'Business Partner Trans...' to 'Legacy Event'.</p>
<p>Congratulations! You successfully completed the Exercise</p>	