

Enabling the Digital World



Entity Modeling for Process Platform 16

Introduction

Process Suite Training Courses

For Business Analysts & Developers

- 2-4912 Entity Modeling for Process Platform 16 (2 days)
- 4-4913 Process Modeling for Process Platform 16 (3 days)

For Developers

4-4905 Process Platform Fundamentals 10.x (5 days)

For Systems Administrators

3-4903 Process Platform Administration 10.x (4 days)

Course Catalog:

http://www.opentext.com/what-we-do/services/training-and-learning-services/course-catalogue

Class Logistics













Introductions



- Name
- Organization
- Job title / Description
- Background
- Experience with BPM tools
- Current / Planned Projects
- Specific Objectives / Expectations

Agenda - Day 1 of 2

Section

1. Introduction

OpenText / Process Suite - Overview

Process Platform Overview

- 2. Entity Modeling Overview
- 3. Entity Properties

Entity Relationships

- 4. Process Experience and Lists
- 5. User Interfaces: Forms

Agenda - Day 2 of 2

Section

- 5. User Interfaces: Layouts
- 6. Rules

Security

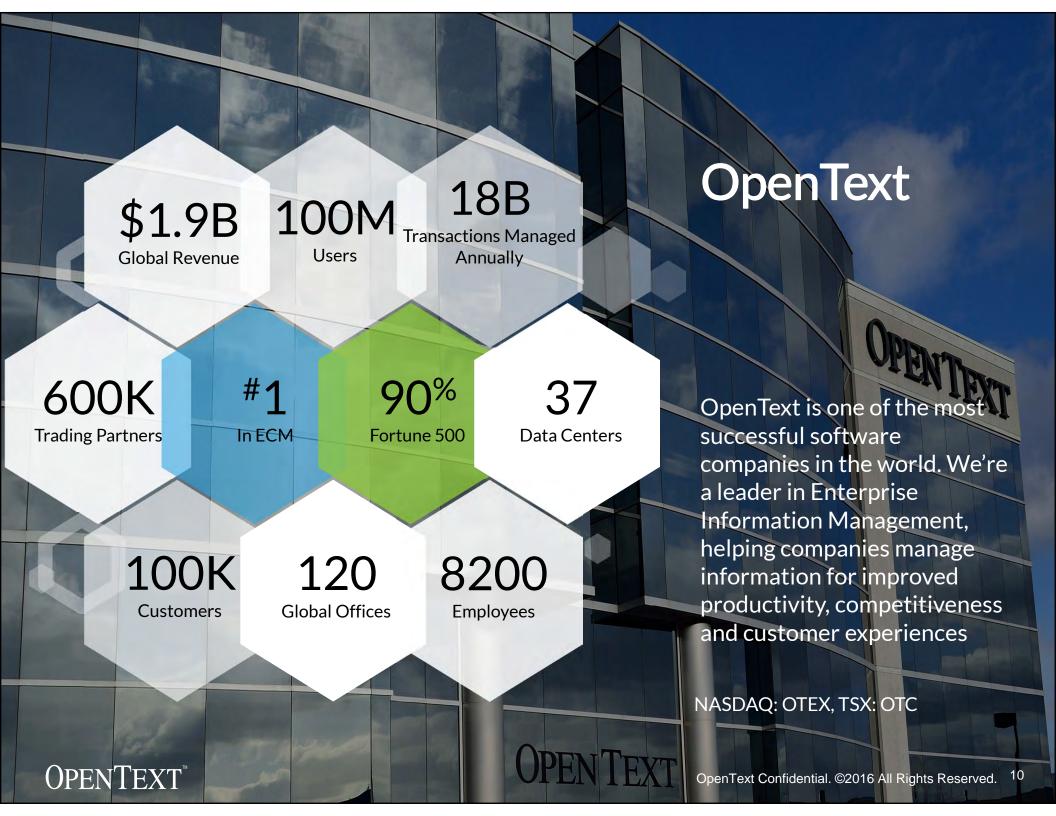
- 7. Lifecycle
- 8. Integration and Advanced Features

Chapter 1 OpenText / Process Suite Overview

Chapter 1 - Topics

- About OpenText
- OpenText Process Suite
- OpenText Process Suite Community
- Process Platform User Start Page

Chapter 1 - Exercises



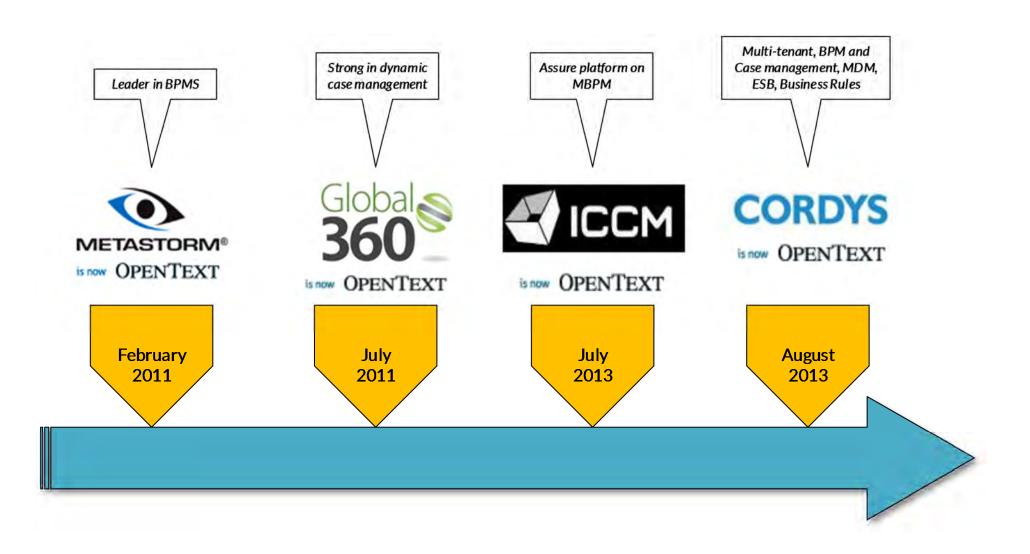
A Better Way to Work



Flexible Deployment Options



History of OpenText BPM



Chapter 1 - Topics

- About OpenText
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Chapter 1 - Exercises

OpenText Process Suite 16 Components

Base



- Process Platform
 - Entity Models
 - Process Models
 - User Interfaces
 - Web Services
 - SOA Integration
 - Process Experience
- Process Intelligence with iHub
- OpenText Directory Services (OTDS)

Applications



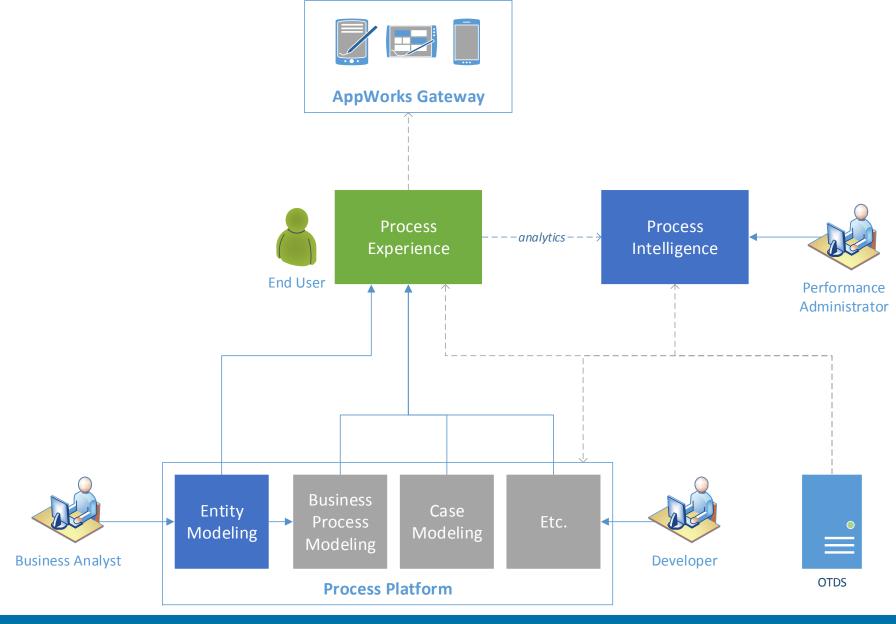
- Cloud Service Brokerage
- Contract Center
- RFx Center

Add-ons



- Media Management
- Content Server
- Archive Center
- Capture Center
- ProVision
- AppWorks Gateway

Relationship of Platform Components



Process Suite Differentiators



Flexible development

- Packaged applications
- Component libraries
- Model-driven development
- Code-level development



Broadest set of EIM services

- Enterprise Content Management, Records Management
- Info Governance Customer Experience Management
- Information Exchange
- Information Discovery



More deployment options

- SaaS
- PaaS
- On-Premises
- Hybrid



Fast time-to-value and agility

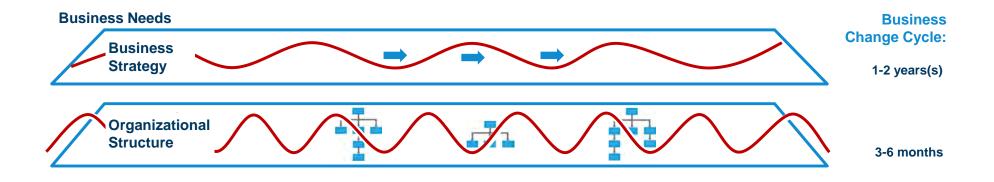
- Pre-built Service components
- Web service creation and reuse
- Pre-configured integrations and User Interfaces

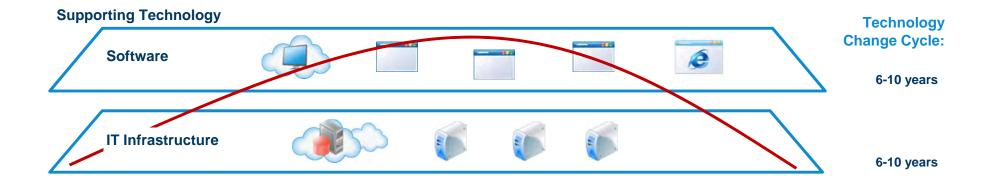
Process Suite Business Drivers

- Frequent and fast changes in regulations
- Combined product offerings
- Need for an integrated client view
- Need to establish effective 'straight-through processing'
- Implementing lean process principles, eliminating waste



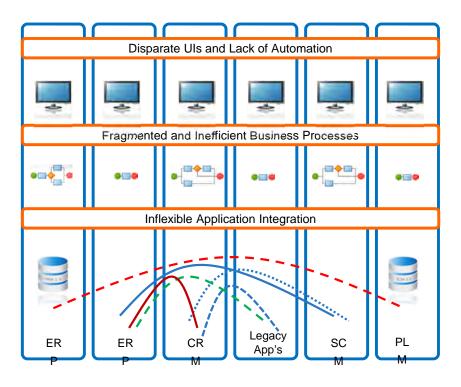
Accelerate Time to Value



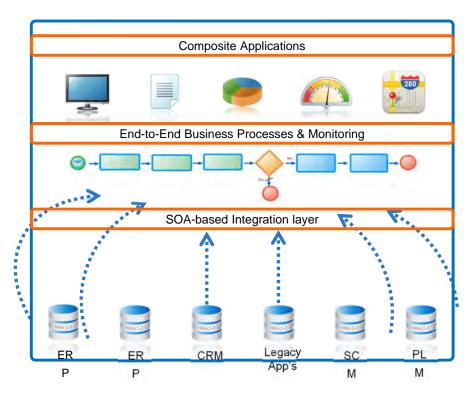


The Old and the New Way

The Old Way: Application Silos



The New Way: OpenText Process Platform



Key Features of Process Platform









- A single platform, combining the world of Integration, Business Process Management, and Composite Application Development
- Enables true business and IT collaboration via a single Collaborative Workspace
- Support for any type of workflow including human-tohuman workflows, system-to-system integration-type interactions and hybrid processes
- Designed to support multi-tenancy and cloud deployment
- Modern, open platform, built on highly available, scalable architecture

Chapter 1 - Topics

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Chapter 1 - Exercises

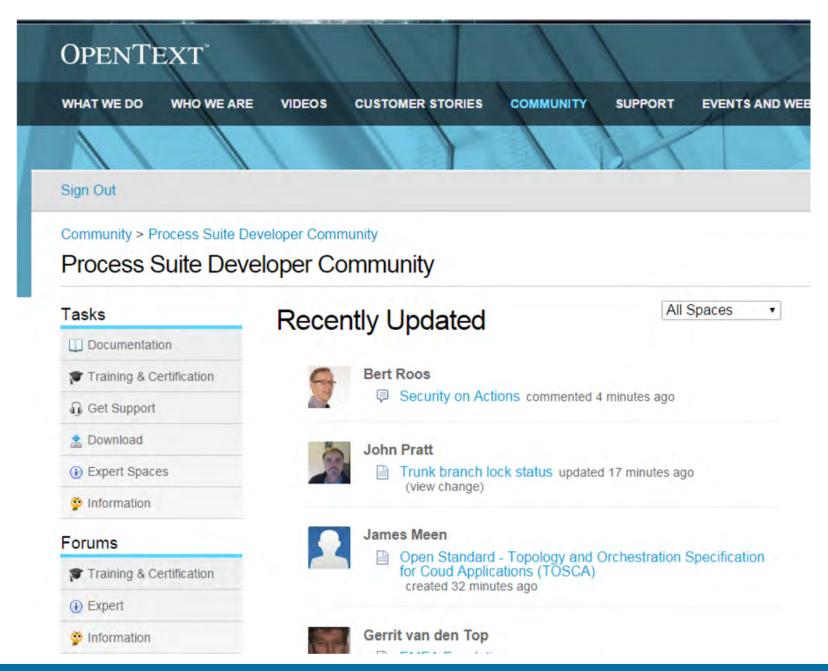
OpenText Process Suite Developer Community

- Online Community
 - Knowledge sharing and exchanging of ideas, documentation and best practices
 - OpenText employees, partners and customers

www.opentext.com/community > Technical Communities > Process Suite Developer Community

- Content
 - Product Downloads
 - Product Knowledge, Blogs & Forums
 - Product Documentation
 - Customer Support
 - How To's
 - Demos
 - Implementation Methodology

Process Suite Developer Community - Landing Page

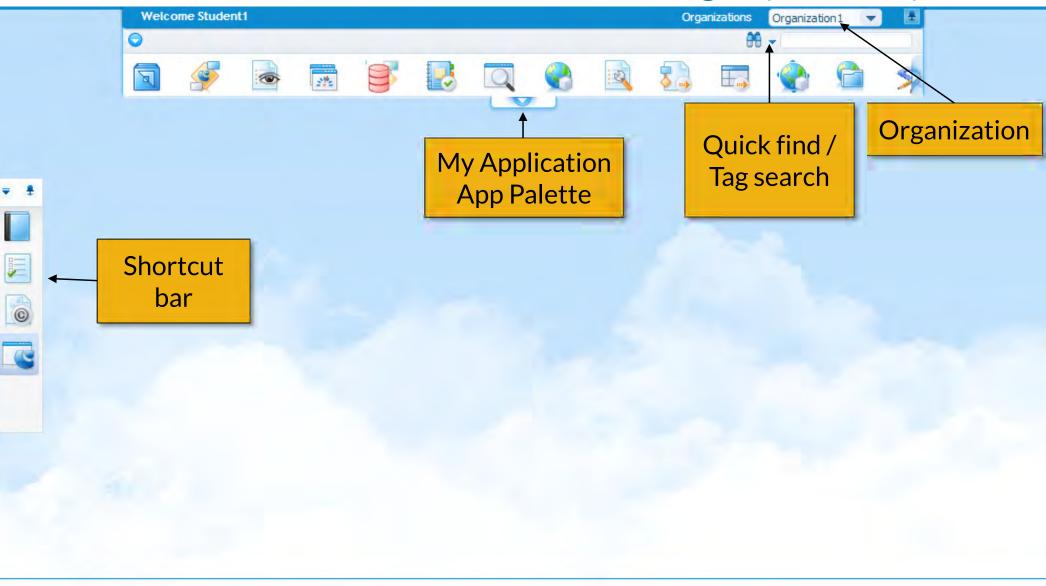


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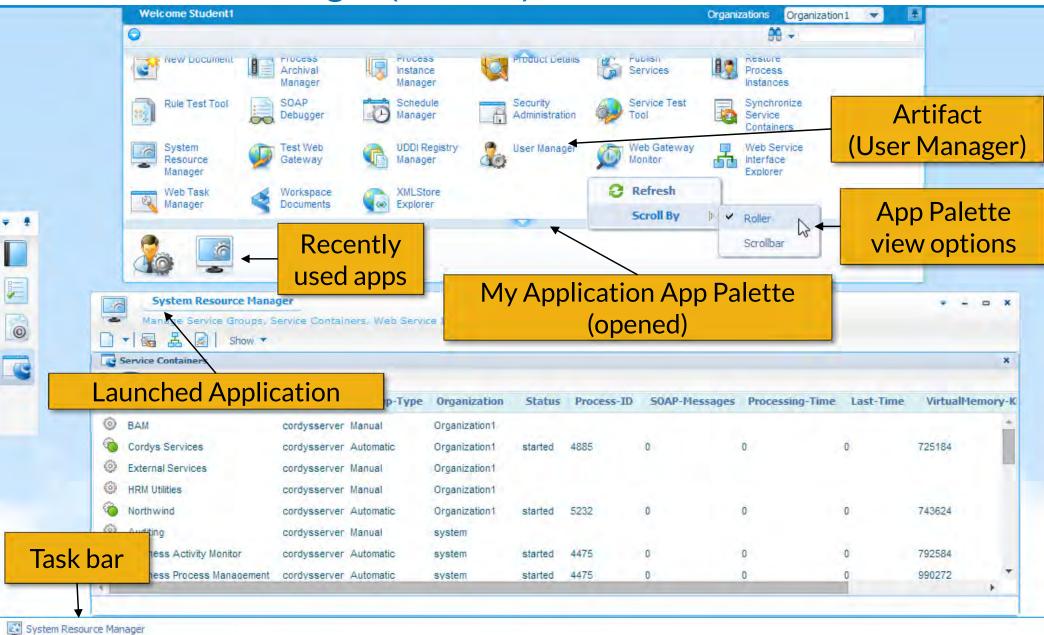
Chapter 1 - Exercises

Process Platform - User Start Page (CUSP*)



*CUSP: Cordys User Start Page

User Start Page (CUSP) cont'd



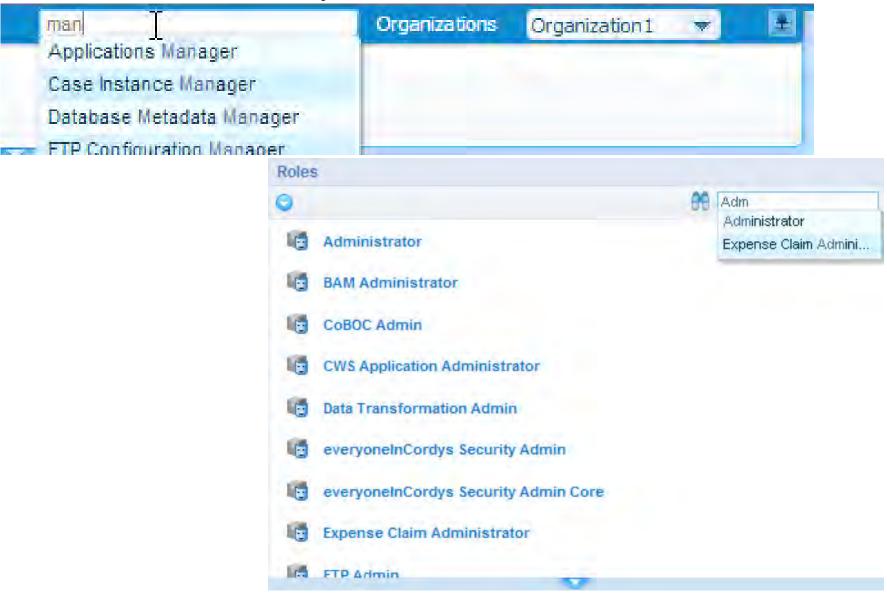
Views and Sorting

- View
 - Icon
 - Tiles
 - List
 - Detail
- Arrange by
 - Name
 - Ascending
 - Descending
- Scroll By
 - Roller
 - Scrollbar

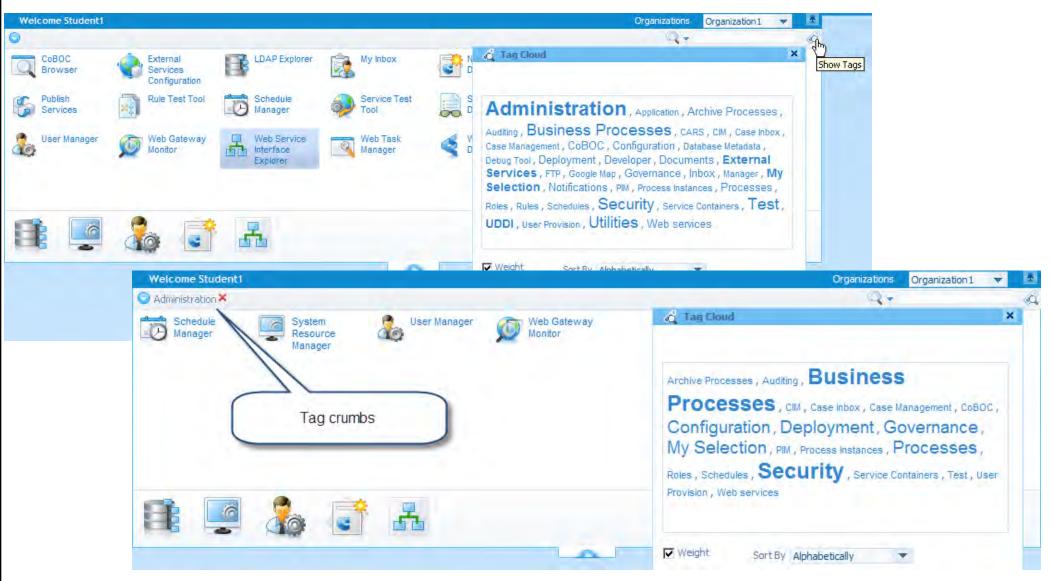


Searching

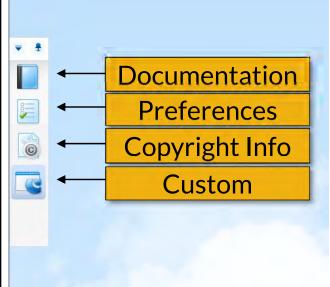
Search boxes everywhere:

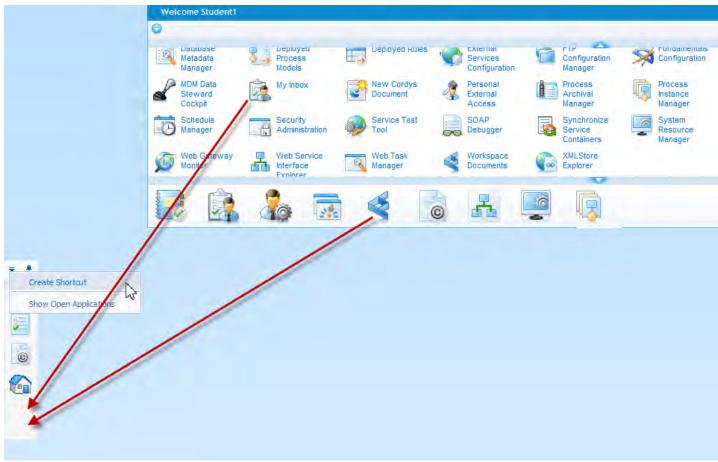


Tag Cloud

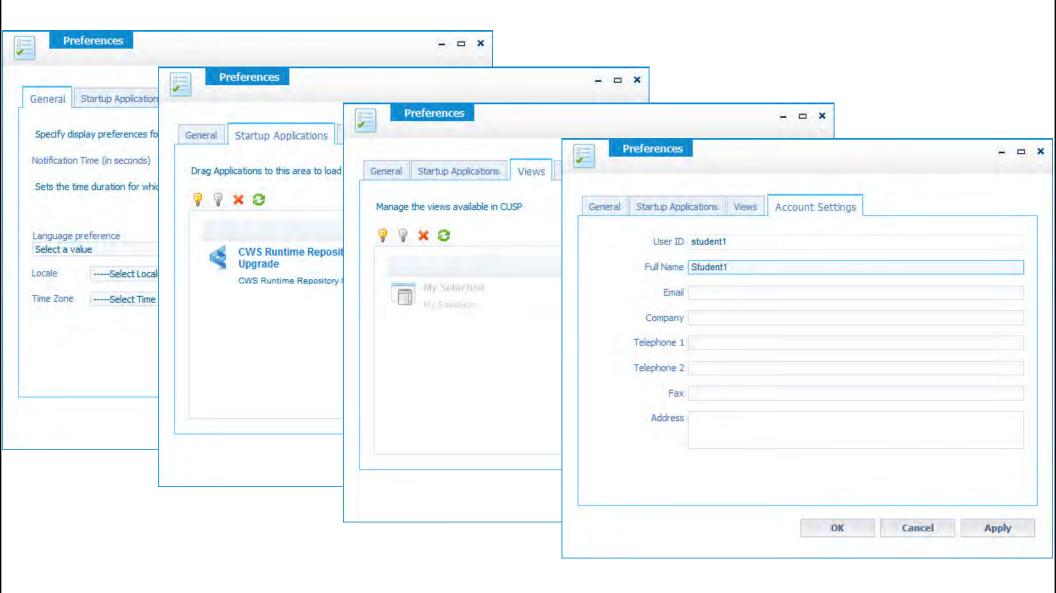


Shortcut Bar





User Start Page Preferences



URLs, User IDs and Passwords for this class

- Windows Log In admin opentext
- Process Platform analyst opentext
 student opentext
 procadmin opentext
- SQL Server sa opentext
- Process Platform User Start Page URL: http://localhost:81/home/Warehouse/
- Process Experience URL: <u>http://localhost:81/home/Warehouse/app/processExperience/web/perform/</u>
- Process Experience Administration URL: <u>http://localhost:81/home/Warehouse/app/admin/web/config/</u>

Chapter 1 - Topics

- About OpenText
- OpenText Process Suite
- OpenText Process Suite Community
- Process Platform User Start Page

Chapter 1 - Exercises (~20 min)

Chapter 1 - Summary

- About OpenText
- OpenText Process Suite
- OpenText Process Suite Community
- Process Platform User Start Page

Chapter 1 Exercises

Chapter 2 - Entity Modeling

Chapter 2 - Topics

- Development Management
- Organizations, Workspaces, and Projects
- Creating and Defining Entities
- Validating a Solution

Chapter 2 - Exercises

Development Management

- Software Configuration Management (SCM)
 - Version Control
 - Branching
- Team Collaboration
 - Concurrent Development
 - Code Synchronization
- Release Management
 - Versioned Releases
 - (Automated) Testing

Application Packages (CAPs)

- Bundled application components
 - Business Process Models
 - Web Service Interfaces
 - Roles
 - Files (html, jar, xml, xsd,...)
 - Documentation
 - Connectors
 - User Interfaces
- Used to transfer solutions from one environment to another by system administrators
 - (e.g., Development, Test, Production)

Chapter 2 - Topics

- Development Management
- Organizations, Workspaces, and Projects
- Creating and Defining Entities
- Validating a Solution

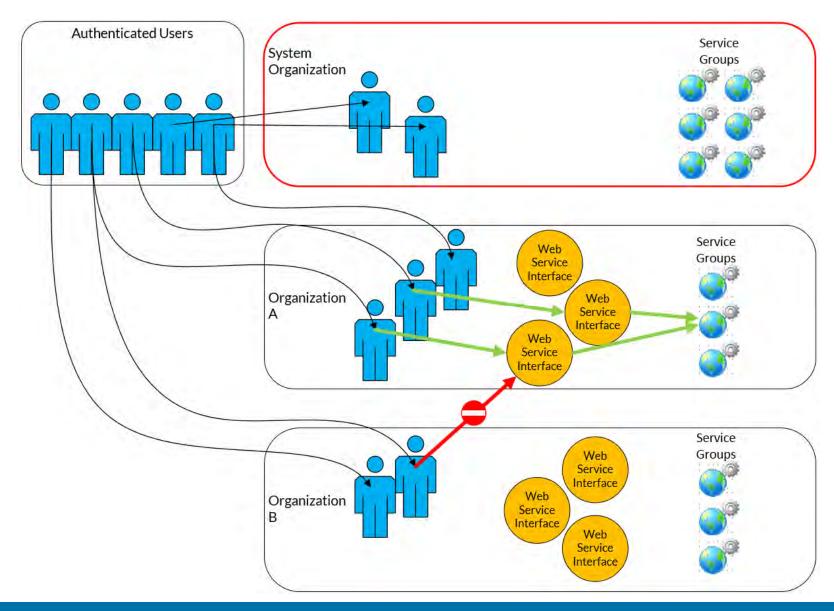
Chapter 2 - Exercises

Organizations

- System Organization
 - Used by the system administrator to manage
 - Process Platform Licensing
 - Organizations
 - Platform Service Groups
 - Process Platform Monitor, LDAP, XML,
 - Shared Application Service Groups
 - Loading & Unloading Process Platform Application Packages (CAPs)
 - Never develop applications in the system organization!
- Development Organizations
 - Used to develop and execute solutions
 - Contains applications for a specific business area (tenant)

User Management in Process Platform

Only users who belong to an Organization can execute its Services

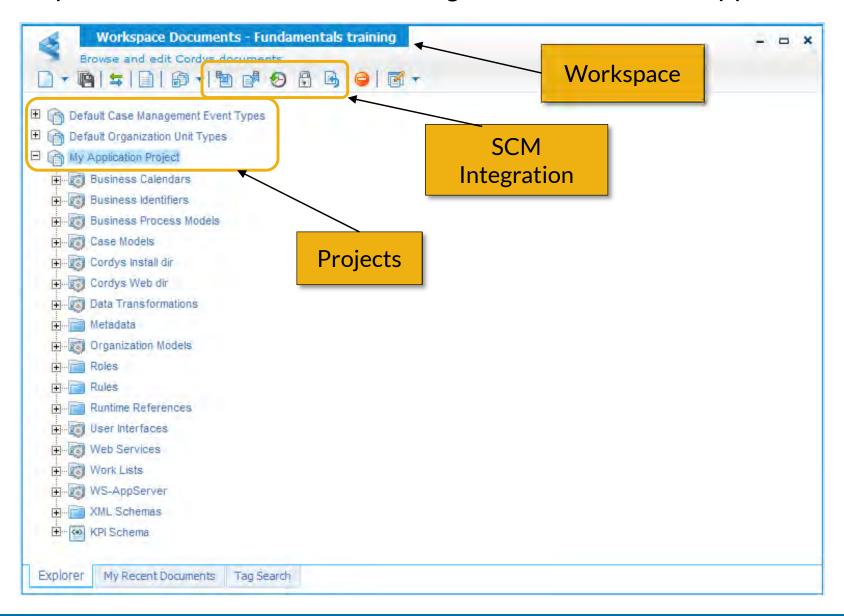


Organization Access Control

- Users work in their own organization(s)
 - An administrator must add a user to an organization before the user can execute Web service operations in that organization
- The Process Platform browser interface shows
 - The organizations of the current user
 - The roles and tasks assigned to the current user
- Single sign-on is supported through OpenText Directory Services (OTDS)
 - The user only has to log in once
- Stand alone Web Service calls
 - The URL contains the name of the organization
 - if none specified, it uses default organization of user
 - Authentication is required each time the method is invoked

Collaborative Workspace

Development Environment for building Process Platform Applications

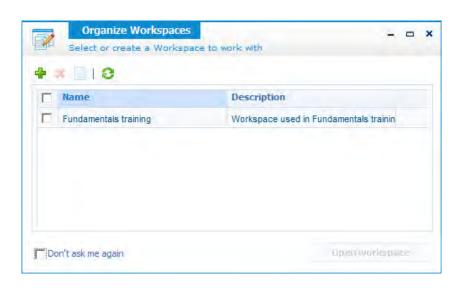


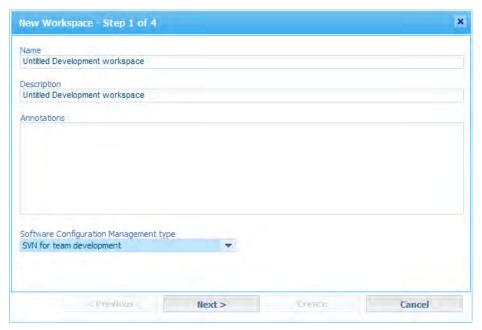
Workspace Containing Project(s)



Workspace

- A Workspace is an isolated development environment
- Typically associated to a Source Control Management system
- Contains projects





Project

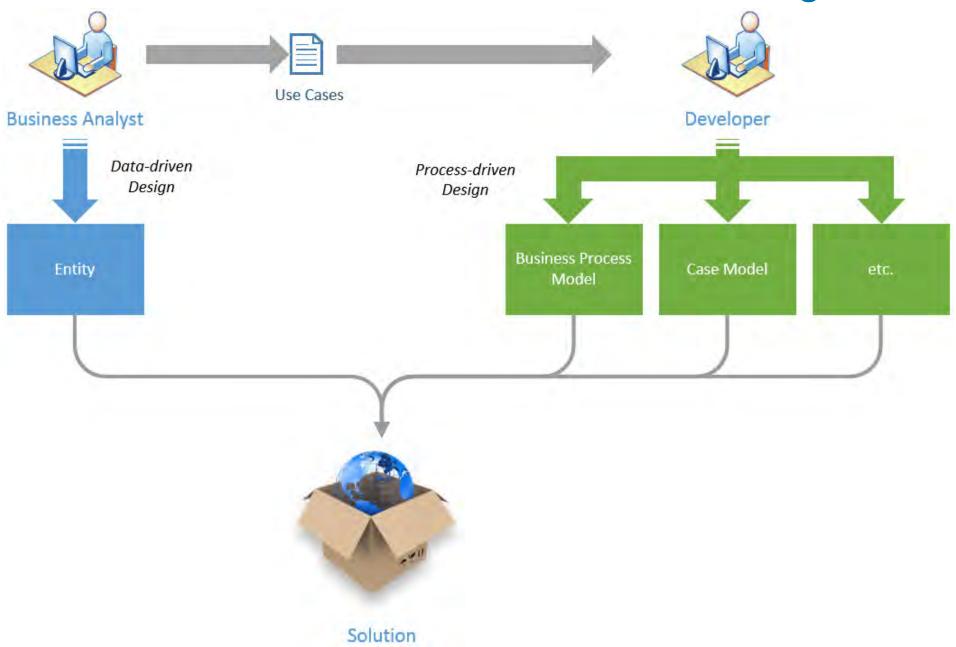
- Container for all documents that together form an Application
 - Single view of the content which can be validated, published, and packaged
 - Content organized in a folder structure
 - Content viewed in the Workspace Explorer tab
 - Content can be used by multiple solutions within the same workspace
- Project contents
 - Process Platform documents (e.g., entity models, process models, rules, etc.)
 - Run time references (e.g., to existing Process Platform application content)
 - External content (e.g., files, CSS, JavaScript, JAR files, HTML, images, etc.)

Chapter 2 - Topics

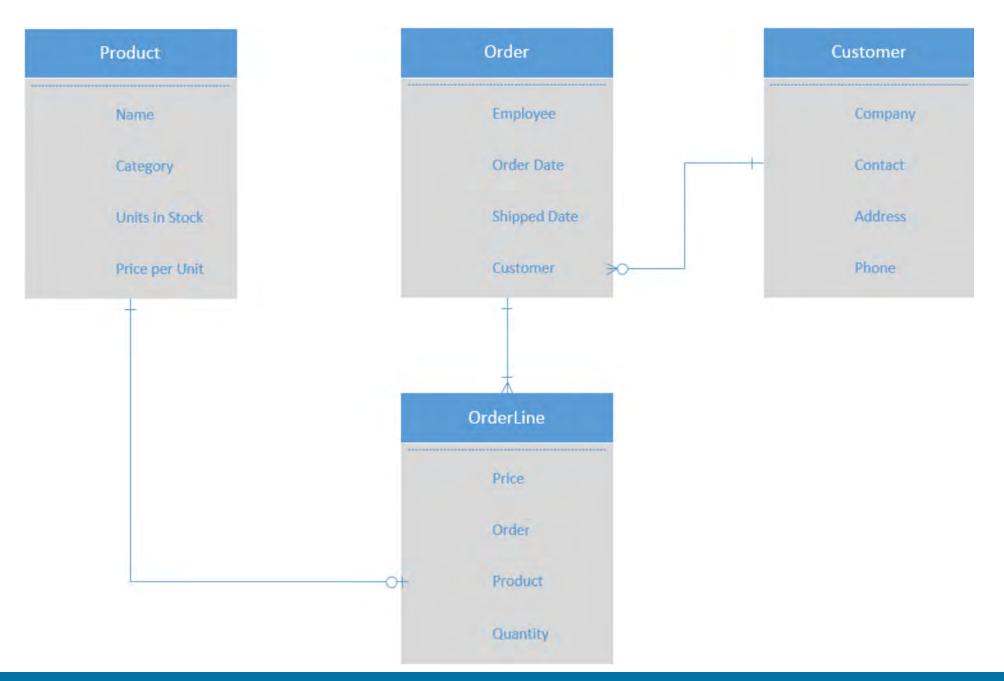
- Development Management
- Organizations, Workspaces, and Projects
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Chapter 2 - Exercises

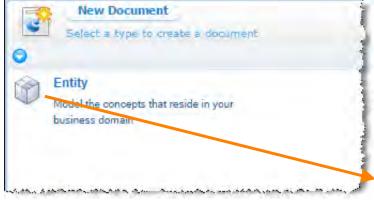
Data-driven and Process-driven Modeling

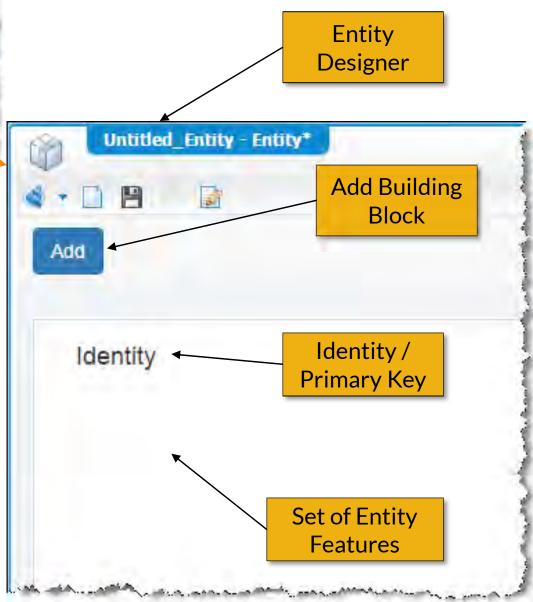


Business Objects (Entities) in Solution Scenario

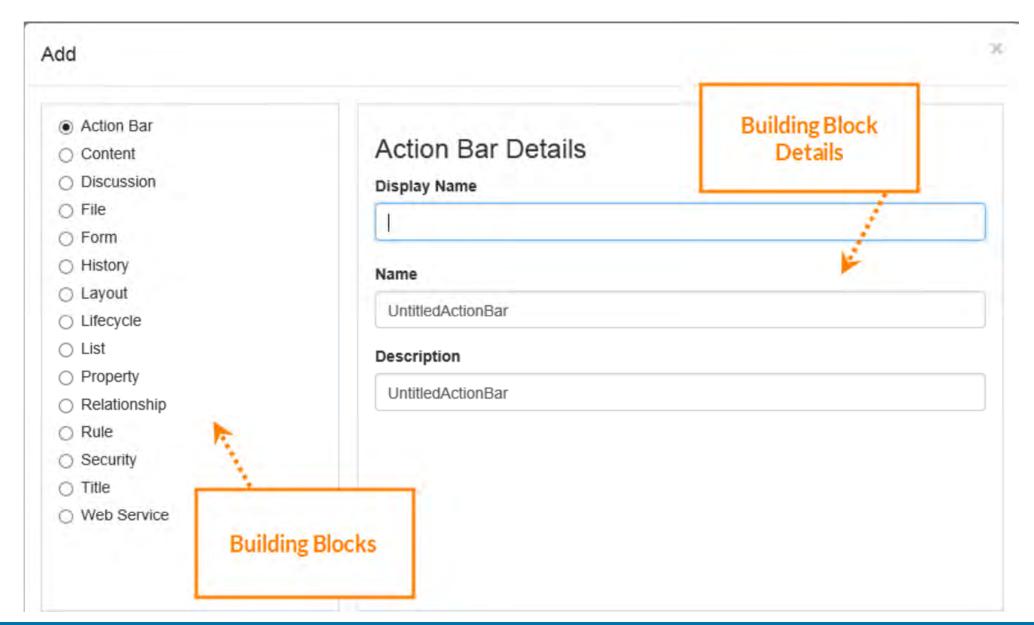


Entities Designer





Entity Designer: Building Blocks

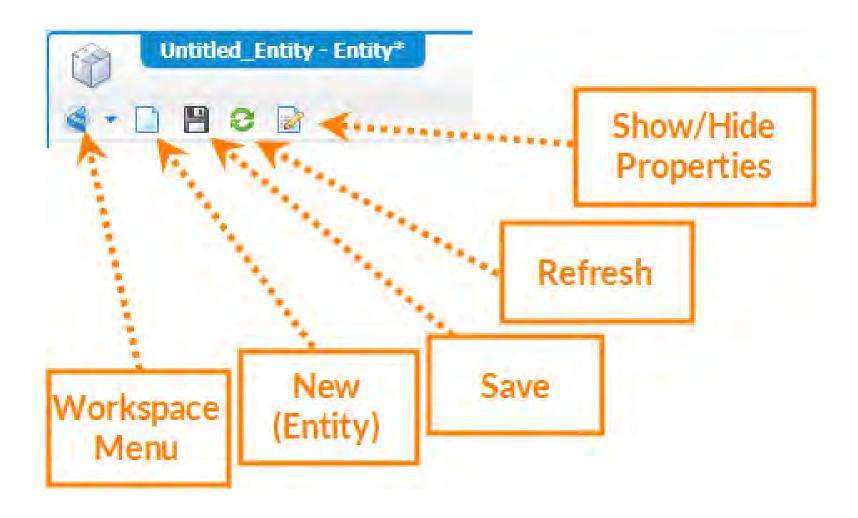


Entity Building Blocks

- Action Bar
- Content
- Discussion
- File
- Form
- History
- Layout
- Lifecycle
- List

- Mobile App
- Property
- Relationship
- Rule
- Security
- Title
- Web Service

Entity Designer Toolbar

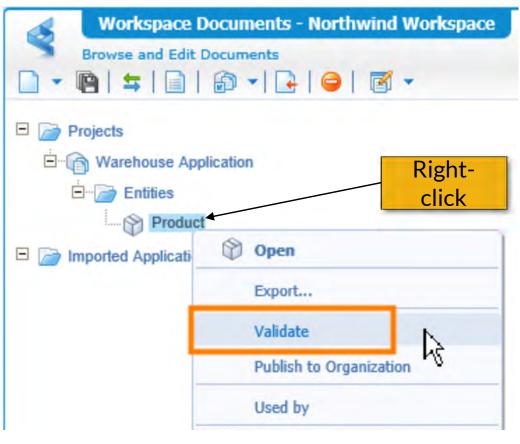


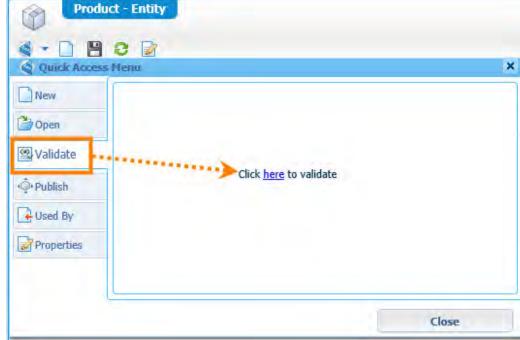
Chapter 2 - Topics

- Development Management
- Organizations, Workspaces, and Projects
- Creating and Defining Entities
- Validating a Solution

Chapter 2 - Exercises

Validating Workspaces, Projects, Documents





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Chapter 2 - Topics

- Development Management
- Organizations, Workspaces, and Projects
- Creating and Defining Entities
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Chapter 2 - Exercises (~20 min)

Chapter 2 - Summary

- Development Management
- Organizations, Workspaces, and Projects
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Chapter 2 - Exercises

Chapter 3 - Entity Properties and Relationships

Chapter 3 - Topics

- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises

Types of Building Blocks

- Structural
 - Property
 - Relationship
 - Rules
- Functional
 - Title
 - Content
 - File
 - Lifecycle
 - Security
 - Discussion
 - History
- Decorative
 - Form
 - Layout
 - List
 - Action Bar
 - Web Service

Chapter 3 - Topics

- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises

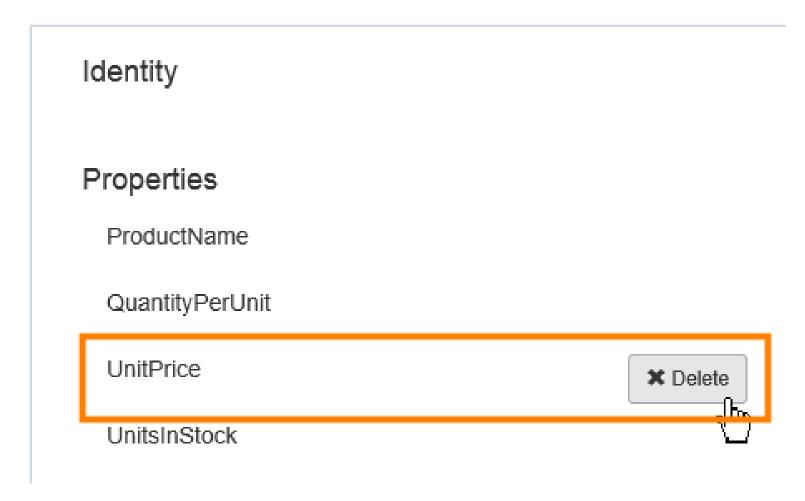
Property Types

- Boolean
- Date
- Date and Time
- Decimal
- Duration
- Float

- Integer
- Enumerated Integer
- Text
- Long Text
- Enumerated Text

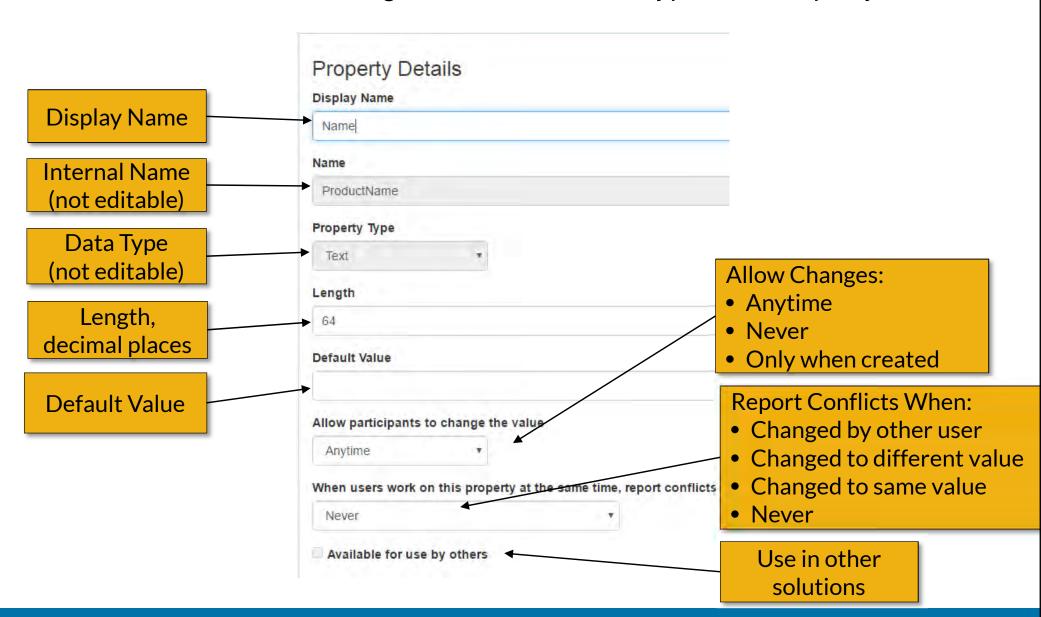
Deleting a Property

Warning - No confirmation and No undo
 But, you can undo by closing the Entity without Saving and Re-opening



Editing a Property

Note - You cannot change the Name or the Type of a Property

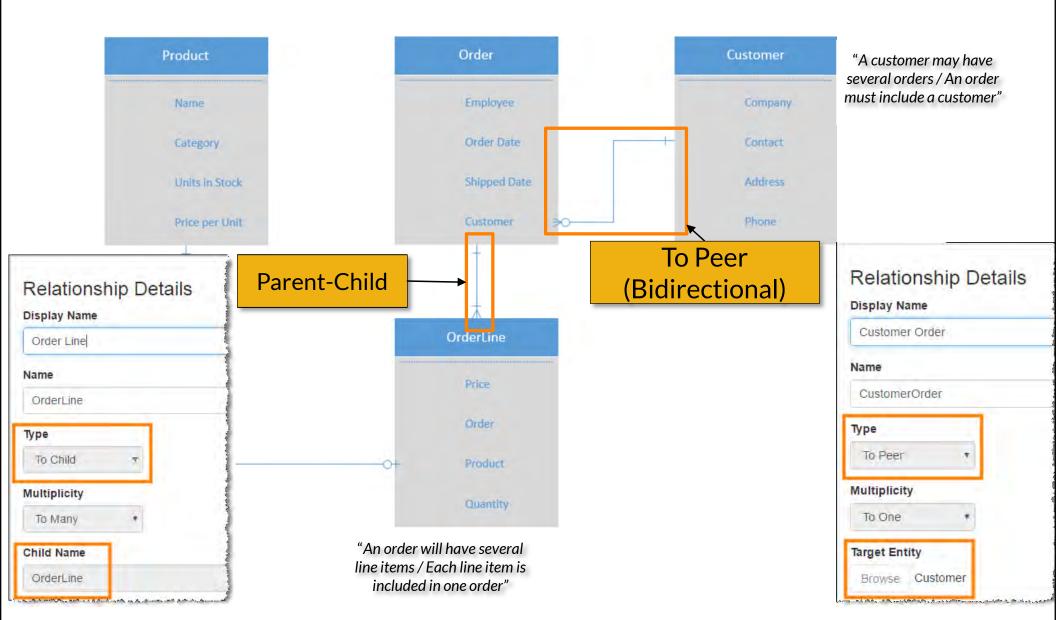


Chapter 3 - Topics

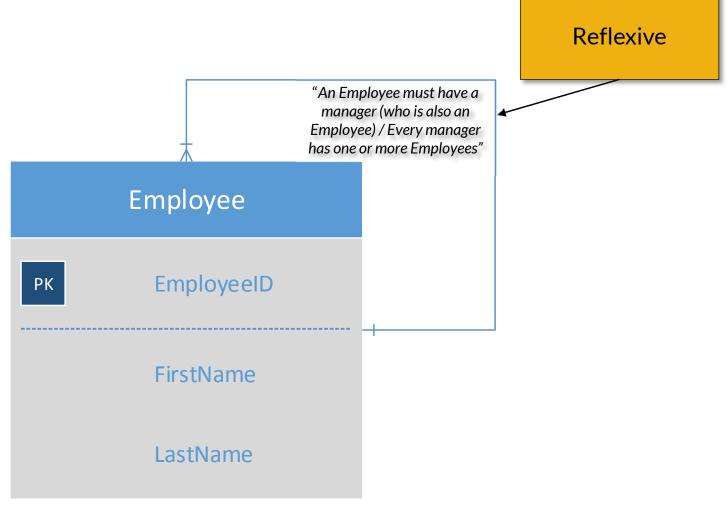
- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises

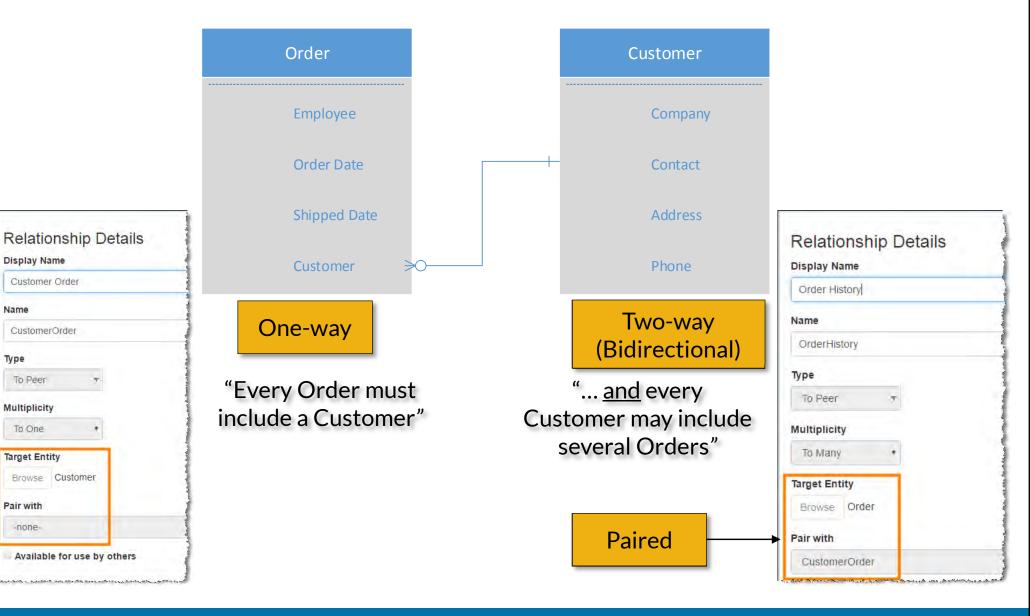
Peer and Parent-Child Relationships



Reflexive Relationship (a/k/a Recursive Relationship)



Relationship Direction



Display Name

Name

Type

To Peer

Multiplicity

To One

Target Entity

Pair with

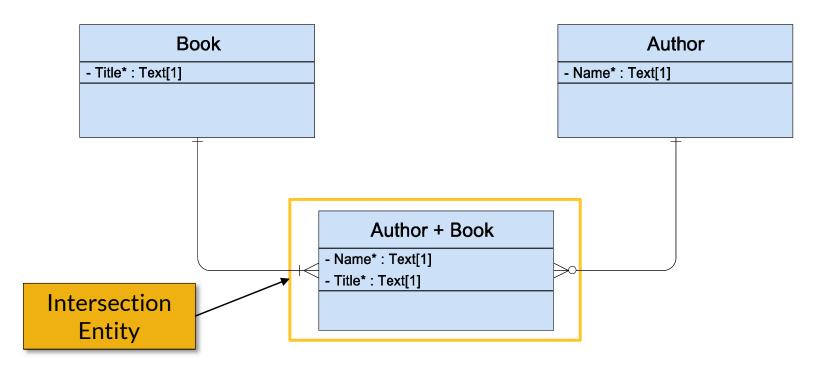
-none-

Customer Order

CustomerOrder

Multiplicity (a/k/a Cardinality)

- To One
 - "An Employee has one (and only one) Manager"
- To Many
 - "An Order has one to many Line Items"
- Many-to-Many
 - Implement with an intermediate "intersection" entity



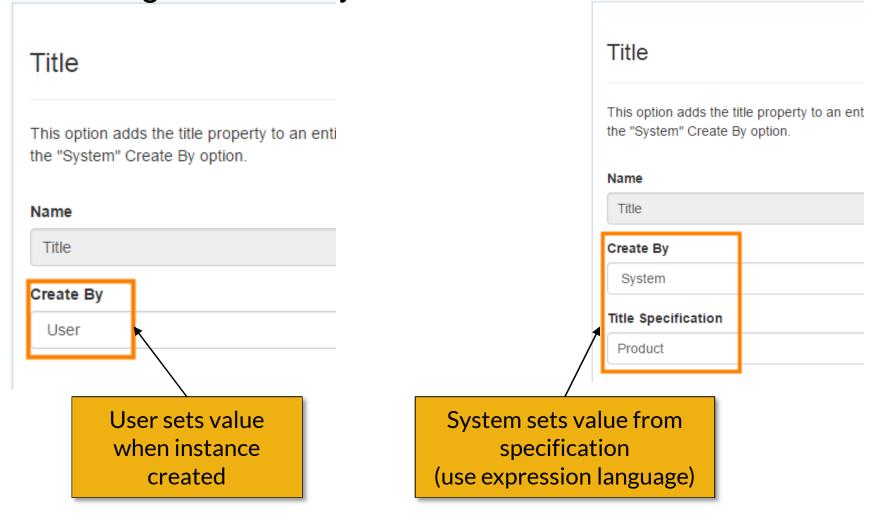
Chapter 3 - Topics

- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises

Title Specification

Distinguishes entity instances from one another



Chapter 3 - Topics

- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises (~45 min)

Chapter 3 - Summary

- Building Blocks
- Property Building Blocks
- Relationship Building Blocks
- Title Building Block

Chapter 3 - Exercises

Chapter 4 - Process Experience, Lists, and Action Bars

Chapter 4 - Topics

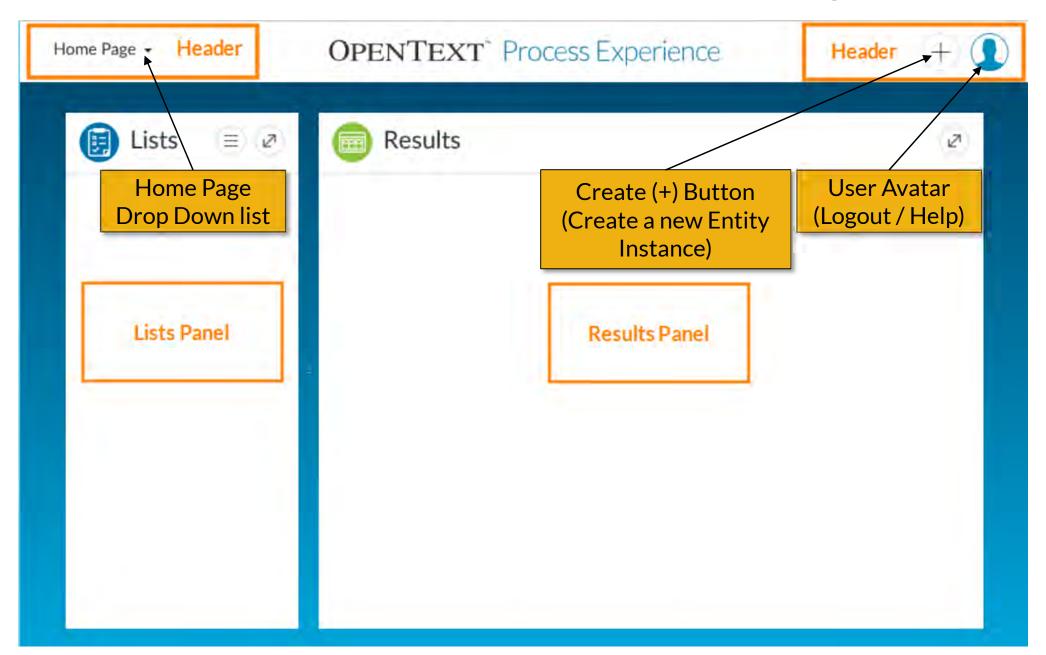
- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises

Process Experience

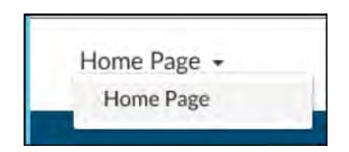
- Browser-based User Interface for Process Platform applications
 - Users can view, track, manage, process and complete tasks
 - Managers can administer and organize work into lists and assign to users
 - Builders can create home pages, data forms, user interface layouts, and Lists
 - Entity Modeling solutions (applications) are Published to enable access and execution in Process Experience
- Users must log in to Process Experience, and then their access depends on their assigned roles
 - Users and Roles are managed in OpenText Directory Services (OTDS) (not covered in this course)

Process Experience - Default Home Page



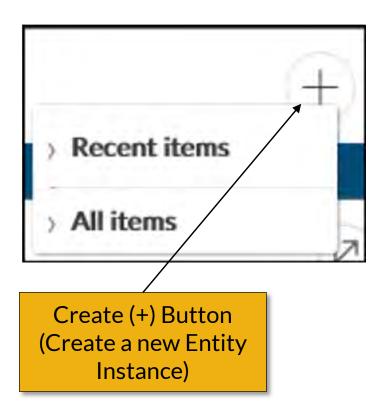
Home Pages in Process Experience

- One default Home Page included when Process Experience is installed
- Other Home Pages may be added with the Home Page Layout document
 - See Chapter 5
- Users may choose which Home Page is displayed on login

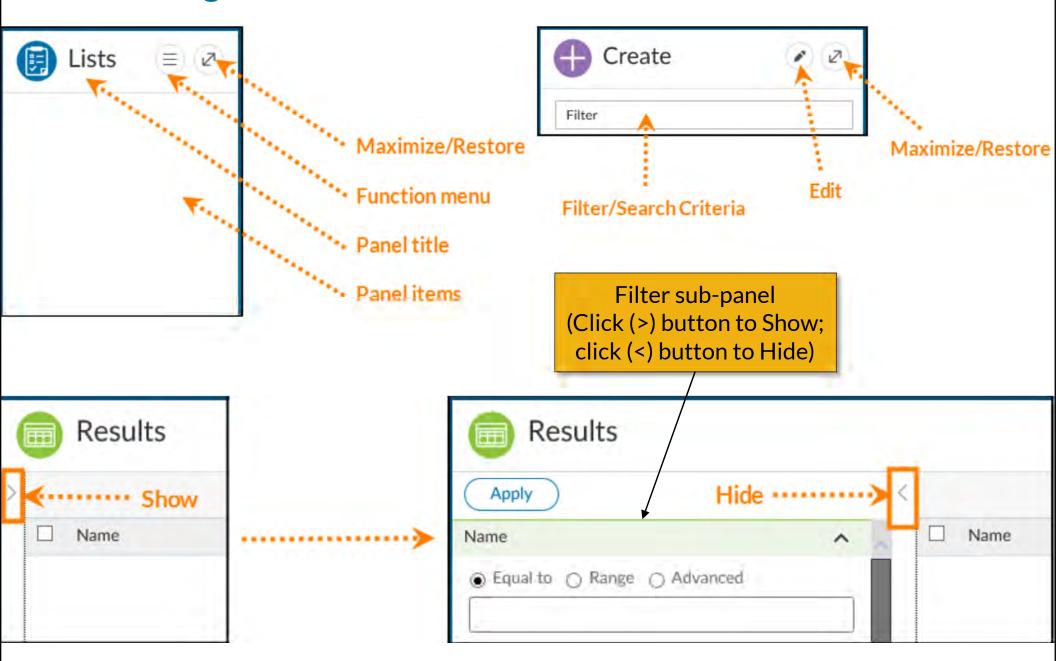


Creating Entity Instances

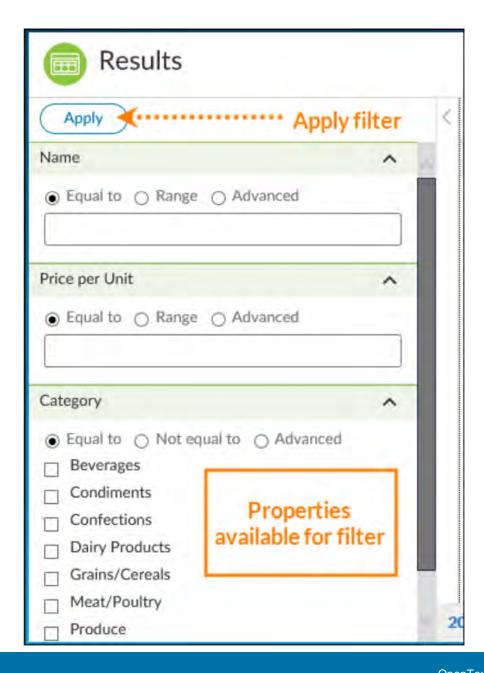
- Click the Create (+) Button
 - Select an Entity under Recent Items or All Items
 - Recent items
 - 10 most recent items created
 - Arranged descending by time
 - All Items all Entities that can be created
 - Restricted by Security (User Role)
 - A Create Form will open for creating a new Entity Instance



Working with Panels



Using Filters with Panels



Panels Functions and Types

Panel Functions

- Maximize / Restore
- Resize
- Tabbed Panels
- Sub-panels

Panel Types

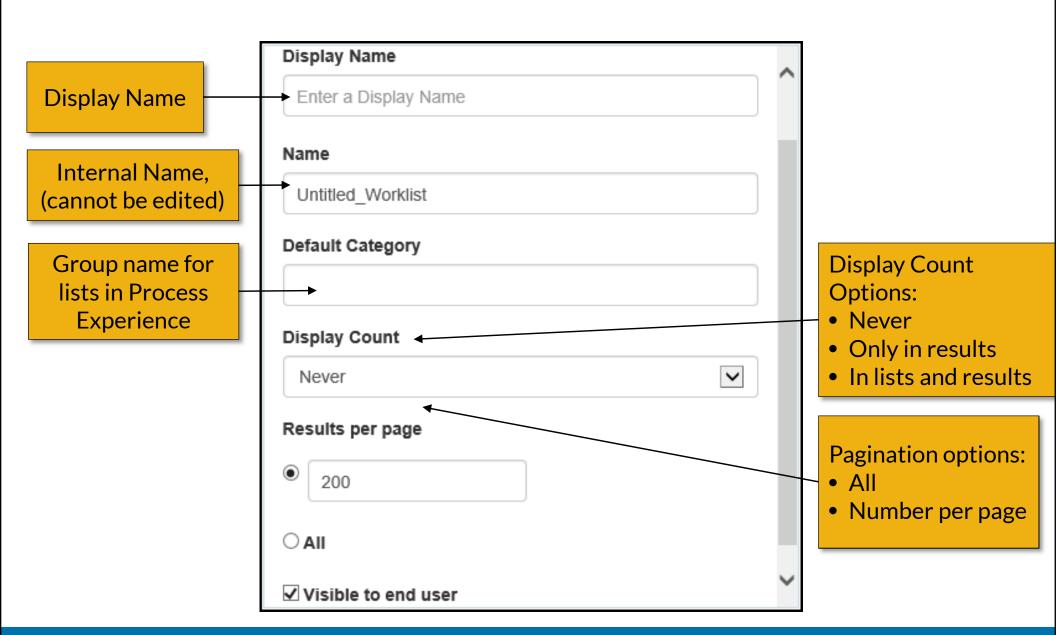
- Action Panel
- Create Panel
- Results Panel
- Preview Panel
- List Panel
- External Panel
- Web Panel

Chapter 4 - Topics

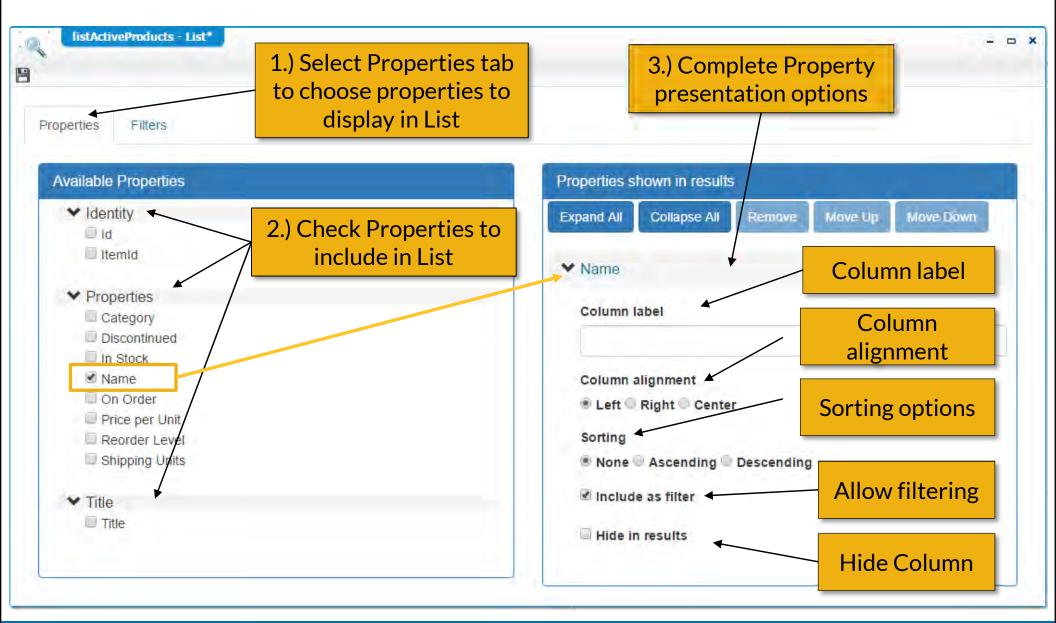
- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises

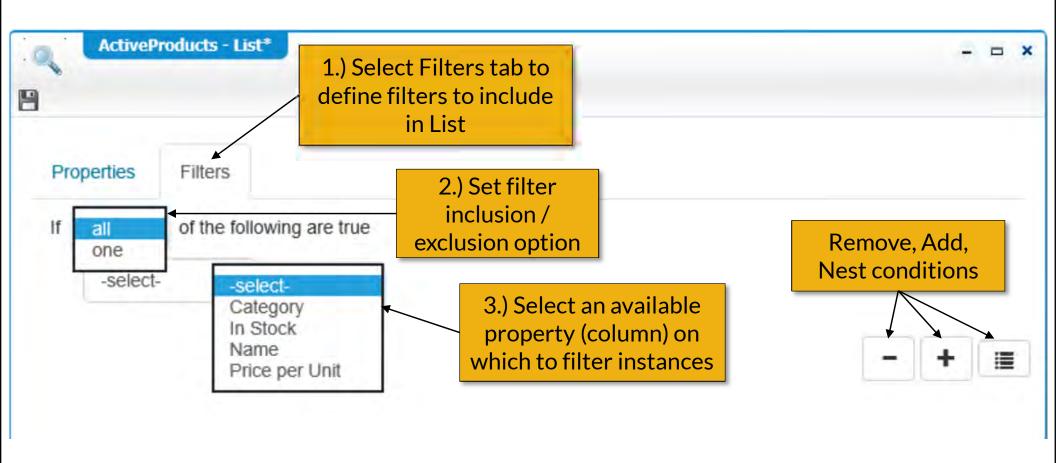
List Details



Configure List Properties



Configure List Filters



Chapter 4 - Topics

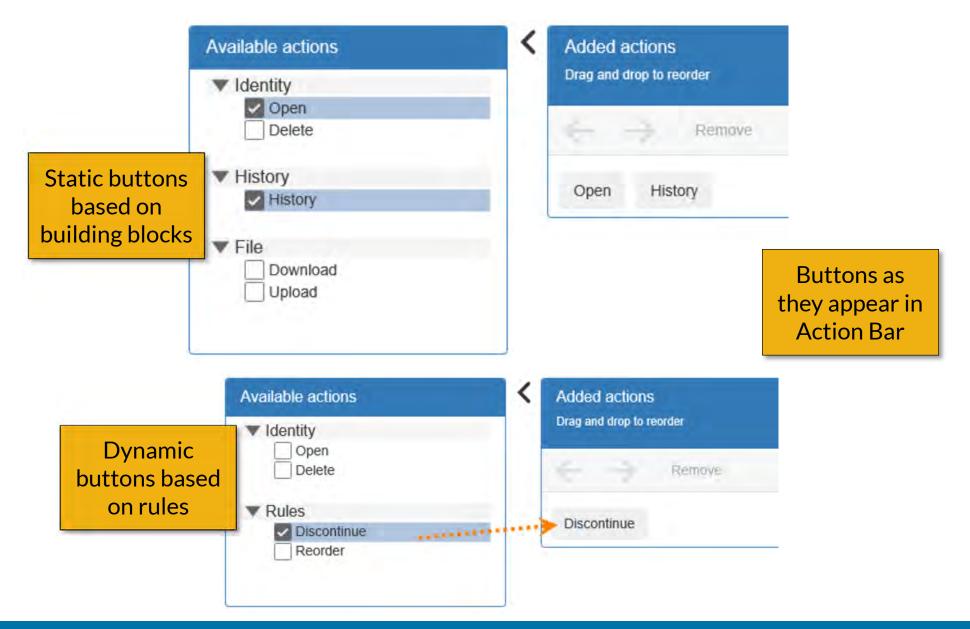
- Process Experience
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- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises

Action Bar Building Block

- Contains Buttons to work with an Entity Instance
- Static buttons
 - Open open an Entity instance details
 - Delete delete an entity instance
 - Upload / Download for either File or Content Building Blocks
 - History display history (for a History Building Block)
- Dynamic buttons
 - Rule-based Actions

Action Bar Configuration



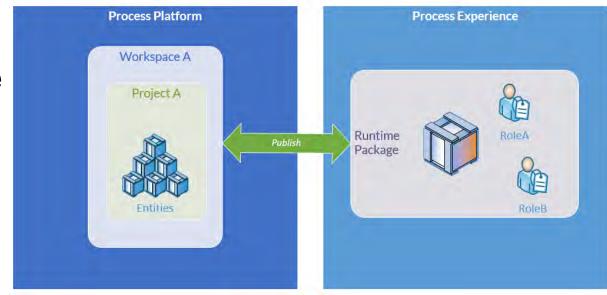
Chapter 4 - Topics

- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

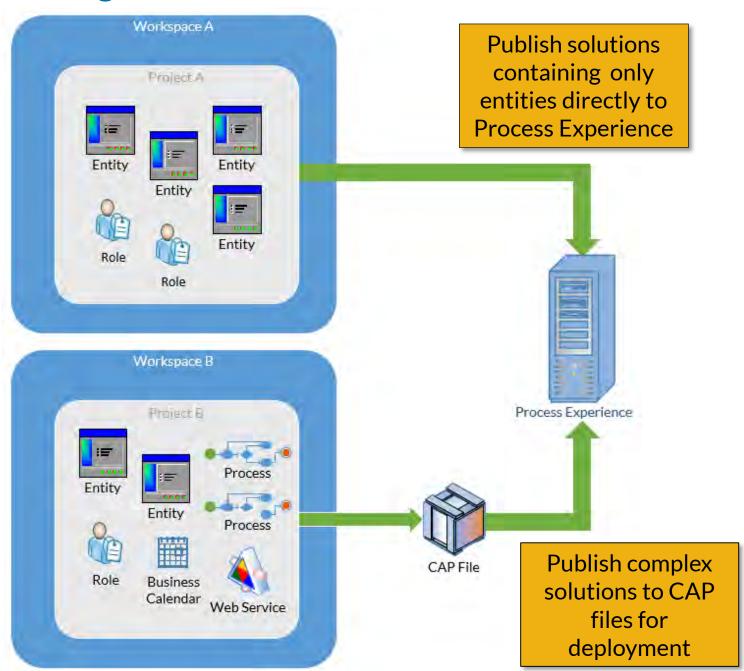
Chapter 4 - Exercises

Publishing to Process Experience

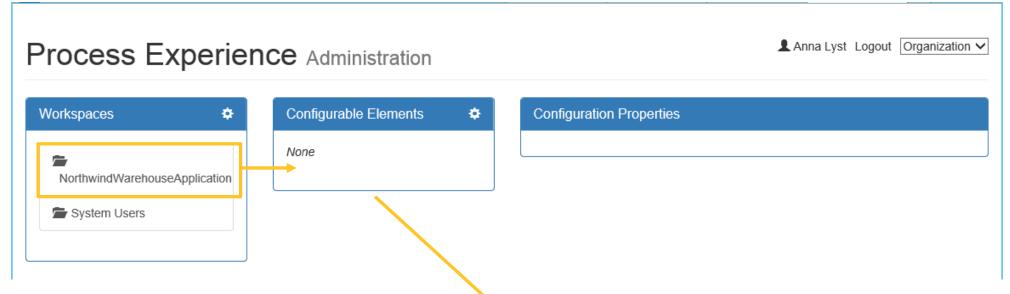
- Publishing a Solution generates runtime code from development code
- A solution must be published before it can be executed
- Publishing is easier in Process Platform v16
 - Direct publish to Process
 Experience
 - Less dependency on CAP* files
 - *Cordys Application Package



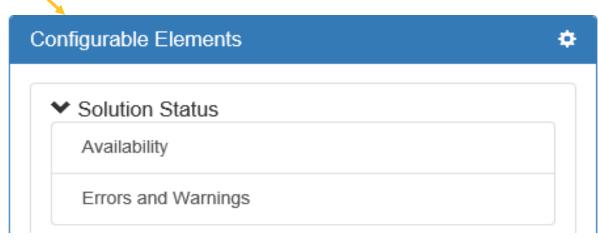
Publishing and CAP Files



Process Experience Administration



- Before a solution can be executed, it must be configured in Process Experience Administration
 - Assign roles to solutions
 - Map roles to users
 - Enable solutions and level of use



Chapter 4 - Topics

- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises

Configuring Solution Security

- Administer Solution
 - User roles able to use the Administration Console
- Build Solution
 - User roles able to modify the definition of the deployed solution
- Include Solution
 - Determines the interaction between solutions
- Manage Solution (Security):
 - Determine which users are able to manage (security) configuration by role
- Use Solution:
 - Determine which users are able to use solution by user role

List and Layout Security

- Worklist Security
 - User roles able to access each solution worklist
- Layout Security
 - User roles able to access each home page layout
- Entities:
 - User roles able to access each Entity
- Solution Variables
 - Set value of solution variables

Default Entity Roles

- Entity Runtime Administrator
 - User with access to administer deployed entity solution
- Entity Runtime Developer
 - User with access to develop and build entity solutions
- Entity Runtime User
 - User with access to work on entity solution

URLs, User IDs and Passwords for this class

Windows Log In - admin opentext

 Process Platform - analyst opentext student opentext procadmin opentext

SQL Server sa opentext

- Process Platform User Start Page URL: http://localhost:81/home/Warehouse/
- Process Experience URL: <u>http://localhost:81/home/Warehouse/app/processExperience/web/perform/</u>
- Process Experience Administration URL: <u>http://localhost:81/home/Warehouse/app/admin/web/config/</u>

Chapter 4 - Topics

- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises (~50 min)

Chapter 4 - Summary

- Process Experience
- List Building Block
- Action Bar Building Block
- Publishing to Process Experience
- Configuring Solution Security

Chapter 4 - Exercises

Chapter 5 Process Experience User Interface:
Forms and Layouts

Chapter 5 - Topics

- Forms
- Forms Exercises

- Layouts
- Homepage Layouts
- Discussion Building Block

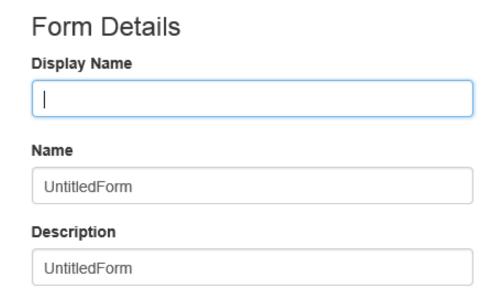
- Layouts Exercises
- Chapter 5 Exercises

Form Building Block

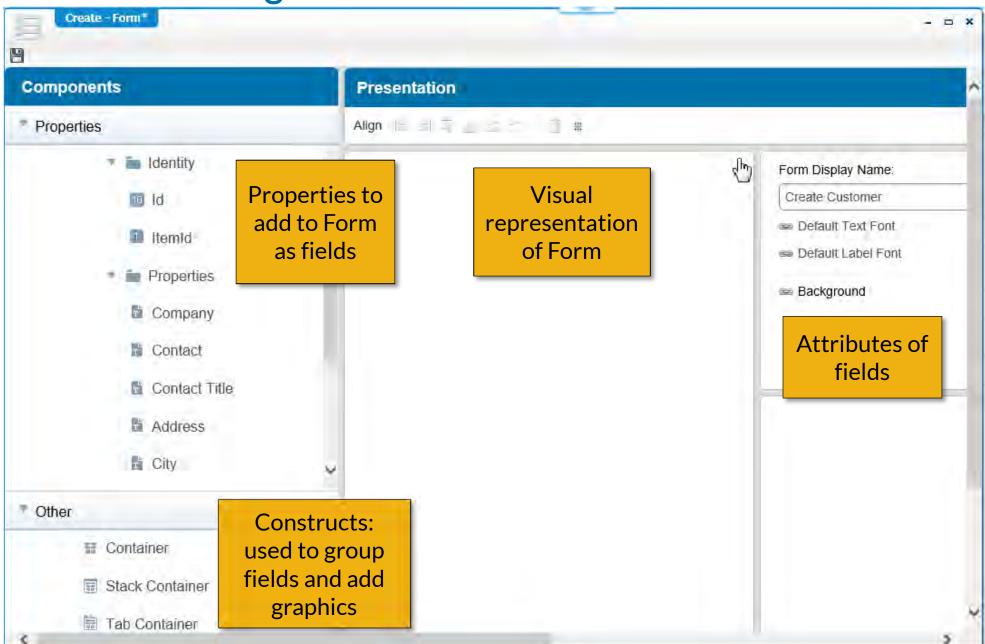
- Decorative-type building block
- Used to create, view and edit entity instances ("items")
 - Create new instances must use a Form named "Create"
 - View / Modify instances use a Form named "Default"
- Create forms are automatically added to Create New button
- Default forms are automatically used to modify instances
- Other forms may be added to Layouts which are attached to lifecycle stages and actions

Creating a Form Building Block

- Display name used for easy recognition
- Name is internal name
 - "Create" for new instances
 - "Default" for viewing / editing instances
- Description is optional and arbitrary
- UI is prepared when configured



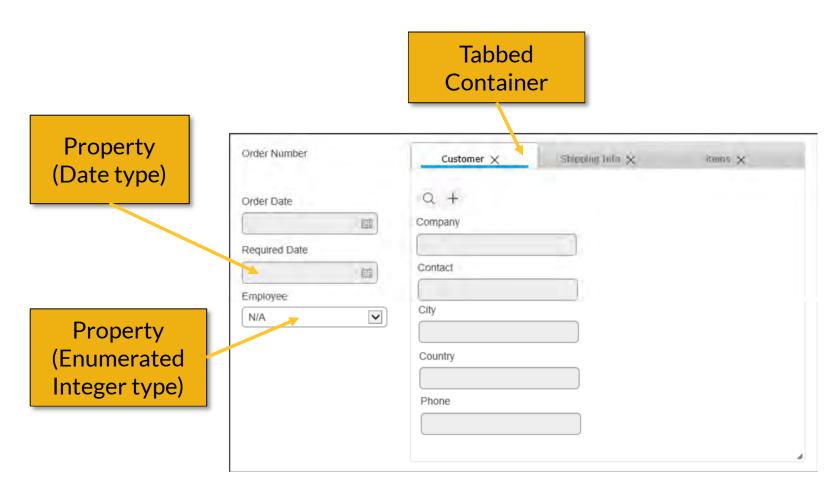
Form Configuration



Types of Constructs

- Container
 - Groups fields/components in a titled box
- Tab Container
 - Groups fields/containers into tabbed panes
- Horizontal Line
 - Add a decorative border
- Image
 - Insert a graphic file
- Text
 - Insert read-only, static text

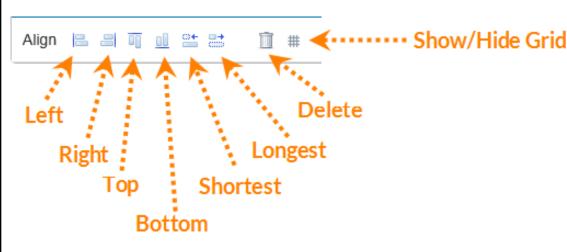
Types of Constructs



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Alignment and Attributes

- Selected fields may be aligned
 - Left, right, center, top, bottom, shortest, longest



- Field properties to be configured
 - Presentation: type of field displayed to user (dropdown, checkbox, list, radio buttons, etc.)
 - Text and Label font: size, color, style
 - Required
 - Read Only
 - Show label: show a label over the field
 - Category: arbitrary name to group related fields

Forms and Relationships

- Relationships may be included and presented in a Form Configuration
 - Drag the Relationship from the components list into the Form
 - A "To One" relationship allows user to:
 - Create new ad hoc instances
 - Browse and link existing instances
 - Clear (sever link between) related instances
 - Delete a related instance
 - "To Many" relationships allow users to add several items
- Repeating Group Container
 - Special container
 - Automatically created when you drag a "To Many" relationship to the form
 - Captures several items from a To Many relationship

Functions Available for Relationships in Forms

Create

 Create a new instance of a related item from within the primary item (default for a "Parent-child" relationship

Browse

 Browse through a set of existing related items and attach one to the primary item (default for a "To One" relationship)

Clear

 Disconnect a related item from the primary item and keep the related item

Delete

 Disconnect a related item from the primary item and delete that related item

Sub-Forms

- Also called a "nested forms"
- Create a group of related fields on a sub-form
- Use the sub-forms to quickly create new Forms
- Changing fields in a sub-form automatically propagates the change to all forms that use the sub-form

Chapter 5 - Topics

- Forms
- Forms Exercises (~70 min)

- Layouts
- Homepage Layouts
- Discussion Building Block

- Layouts Exercises
- Chapter 5 Exercises

Chapter 5 - Topics

- Forms
- Forms Exercises

- Layouts
- Homepage Layouts
- Discussion Building Block

- Layouts Exercises
- Chapter 5 Exercises

Layout Building Block

- Layouts support working with Entity Instances directly in Process Experience
 - After an Entity Instance has been created on a Create form
- A Layout is an arrangement of Panels that may contain Forms
- An Item Layout is used for specific Entity Instances
- A Homepage Layout is used for applications, tools, and navigation, not related to any entity
- Layout Types:
 - Preview for display purposes only
 - Full a separate page with full edit capabilities
- You must create at least one item Layout that includes a Form (in a panel) in order to make the entity instance visible and/or editable in Process Experience

Types of Panels

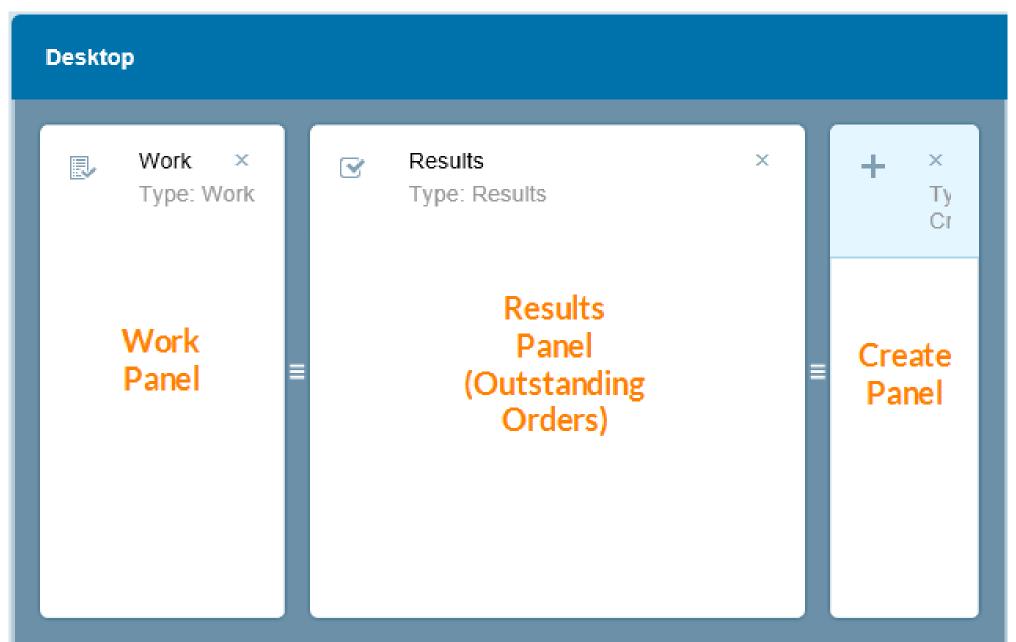
- Actions
- Breadcrumbs
- Contents
- Create
- Discussions
- External UI
- Form
- Layout

- Lists
- Preview
- Results
- Web Content
- Work
- XForm
- iHub

Panel Properties

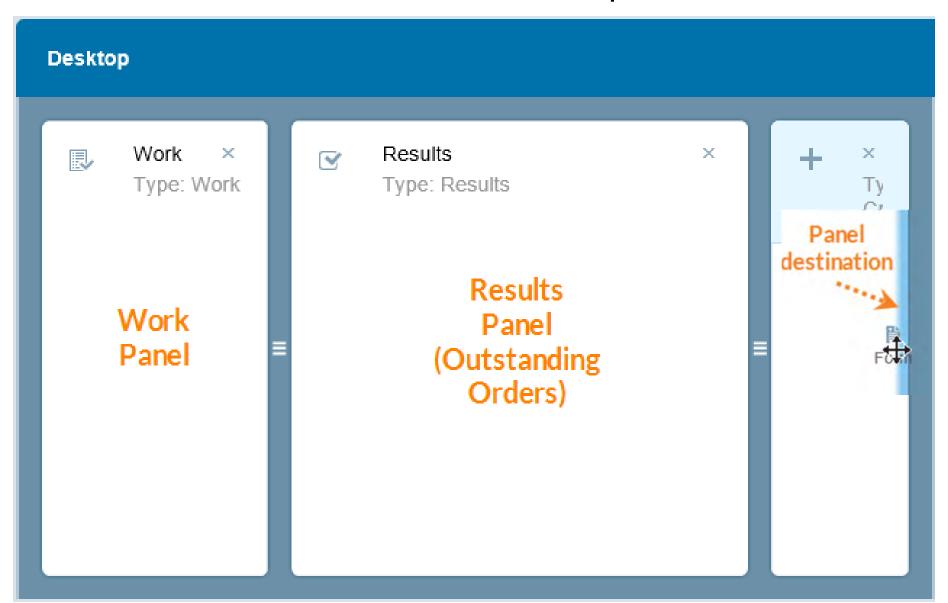
- Name
 - Display name to help identify the panel
- Element Name
 - Internal (unique) name for the panel
- Description
 - Optional, arbitrary description
- Chrome
 - Specifications for how to display the Panel border and decorative dividers
 - Full: include header and borders on white background
 - Container Only: display just the container, no header or borders
 - None: no header or borders

Sample Layout



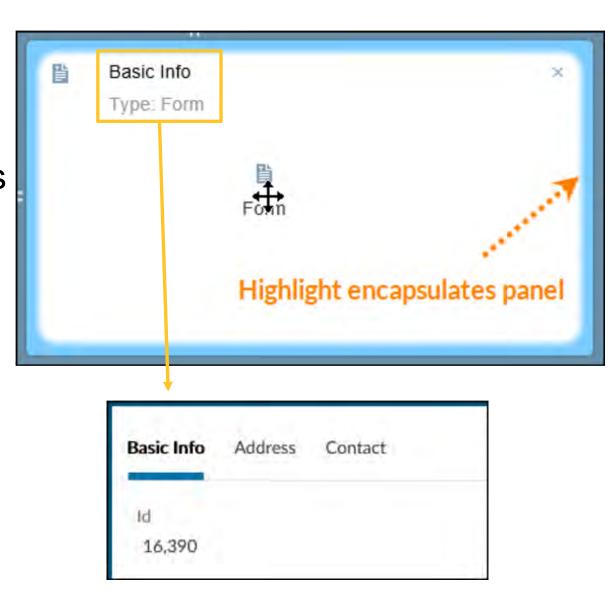
Destination of Panel when Dragged to Layout

Blue Bar shows where Panel will be placed



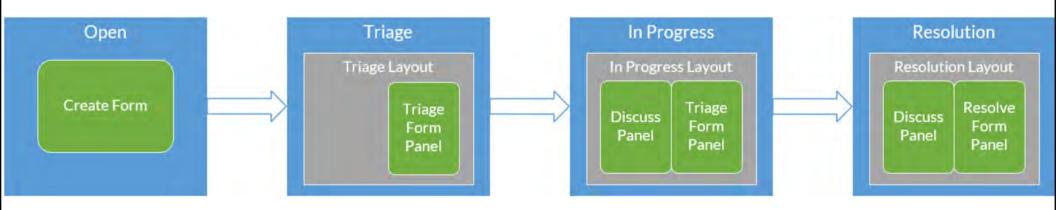
Tabbed Panels

- Drag one panel on top of another to create tabs
- Use Element Name property to set tab names
- Tip: Use Sub-Forms and Form Panel to create tabbed panes instead of tabbed container



Layouts and Lifecycle

- Lifecycle describes different stages of an Entity Instance (item)
- Each stage of the Lifecycle may use a different Layout
- Useful for distributing work amongst teams (different roles can access an item at different stages)
- Lifecycle is covered in Chapter 7



Chapter 5 - Topics

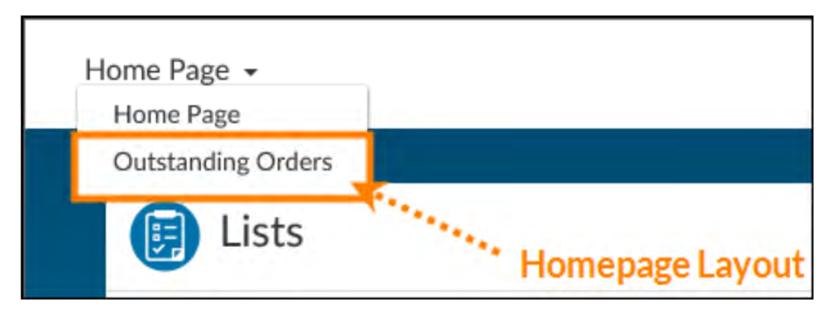
- Forms
- Forms Exercises

- Layouts
- Homepage Layouts
- Discussion Building Block

- Layouts Exercises
- Chapter 5 Exercises

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Homepage Layout



- Special Layout with no connection to an Entity or an item
- Used exclusively as a Process Experience home page
- Use to launch tools, applications, etc.
- Built as a separate document in the Workspace (not a Building Block for an Entity)

Chapter 5 - Topics

- Forms
- Forms Exercises

- Layouts
- Homepage Layouts
- Discussion Building Block

- Layouts Exercises
- Chapter 5 Exercises

Discussion Building Block

- Used for team members to share messages and collaborate on items
- Topics and replies are added to entity instances
- Discussion is pre-configured child entity
 - Contains properties: DiscussionNote, Display Organization
 - Properties should NEVER be modified/deleted
- Must create a Layout containing a Discussion panel to access a Discussion

Chapter 5 - Topics

- Forms
- Forms Exercises

Layouts

(~20 min)

- Homepage Layouts
- Discussion Building Block

- Layouts Exercises
- Chapter 5 Exercises (~1:15)

Chapter 5 - Summary

- Forms
- Forms Exercises

- Layouts
- Homepage Layouts
- Discussion Building Block

- Layout Exercises
- Chapter 5 Exercises

Chapter 6 - Rules and Security

Chapter 6 - Topics

- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

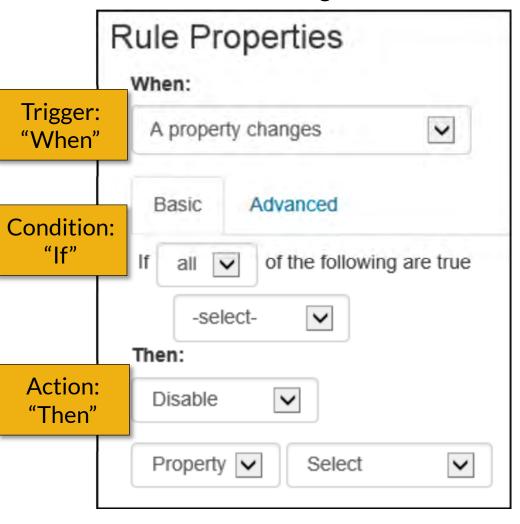
Chapter 6 - Exercises

Rule Building Block

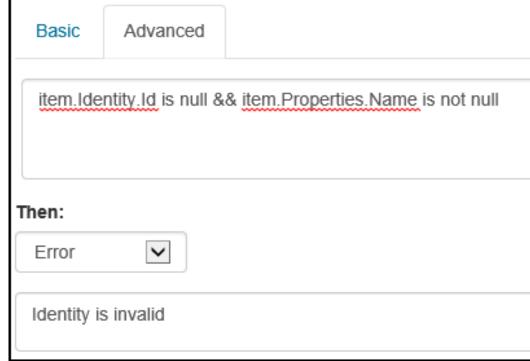
- Three parts to a Rule
 - Trigger (When): what causes the rule to fire?
 - Condition (If): on what condition(s) will the rule be executed?
 - Action (Then): what does the rule do?
- Example:
 - Trigger: a new item is created
 - Condition: if the order total is more than \$300...
 - Action: set the discount to 10%

Rule Configuration Modes

- Basic Mode
 - Use rule building tools



- Advanced Mode
 - Use expression language



Trigger (Event) Types

- A property changes value
 - When a specified property in an item changes value, normally in a Form
- Action is triggered
 - A user clicks a button added to Action Bar
- An Entity Instance is created
 - New item is added
- An Entity Instance is deleted
 - Item is deleted

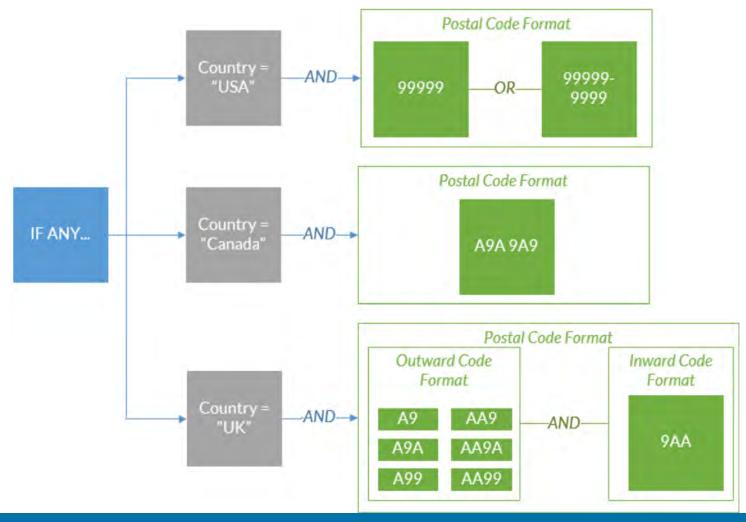
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Conditions

- Conditions built from entity properties
 - Inclusive: ALL conditions must be true
 - Exclusive: ANY condition may be true
- Rule builder sensitive to property types
 - Integer properties can use use greater/less than operators
 - Date properties can use before/after operators
- A rule may have many conditions

Nested Conditions

- Condition(s) inside of a condition
 - May be inclusive or exclusive
 - Example: postal/zip codes

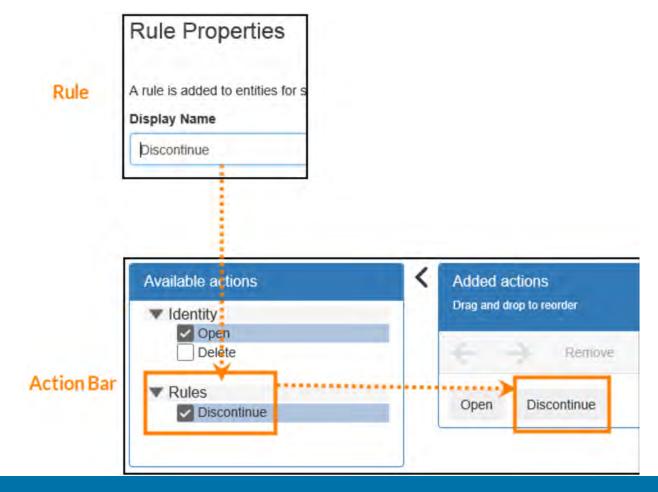


Actions

- Warn
 - Present message to user in Process Experience
- Error
 - Prevent user from making changes/saving
- Set
 - Set a value for a property
- Hide/Show
 - Hide or show a field or category of fields
- Disable
 - Lock ('gray out') a field or category of fields
- Start Process
 - Start a Business Process Model (built in Process Platform)

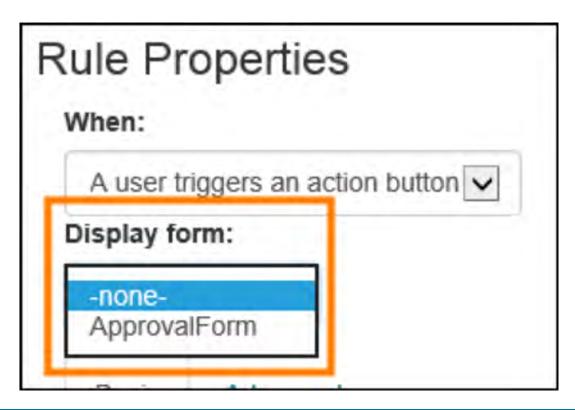
Dynamic Actions

- Dynamic actions on Action Bar are Rules
 - Set trigger to "User triggers action button"
 - Display name of Rule → text on button
 - Action of Rule → button function



Display Form

- Show a Form when a Rule is triggered
- Build the Form in an Entity
- Set the Display Form property to Form name
- Examples:
 - Approve/Reject
 - Reason
 - Yes/No/Cancel
 - User info



Chapter 6 - Topics

- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

Chapter 6 - Exercises

Expression Language

- Development language for complex rules
- Logical operators (e.g., ||, &&, true, false, ==, !=, etc.)
- Mathematical operators (e.g., <, >, +, -, *, /, mod, etc.)
- Some property-specific functions:
 - substring(sVal, iStart, iEnd)
 - length(sVal)
 - sVal in list(val1, val2, val3, etc.)

Keywords

- Used as Qualifiers in Expressions
- item
 - Represents the current instance of the entity
 - Usage:
 - item.Properties.FirstName
 - item.Identity
- system
 - Represents Process Platform system
- user
 - Represents the current user logged in

Tips for Expression Language

- 1. Build some rules in Basic Mode, then switch to Advanced to use expression language.
- Rules built in Basic Mode are still displayed in expression language in the entity editor.
- 3. Use expression language in system-generated Title building blocks.
- 4. Entities can be saved but not published if the rule logic is invalid.

Chapter 6 - Topics

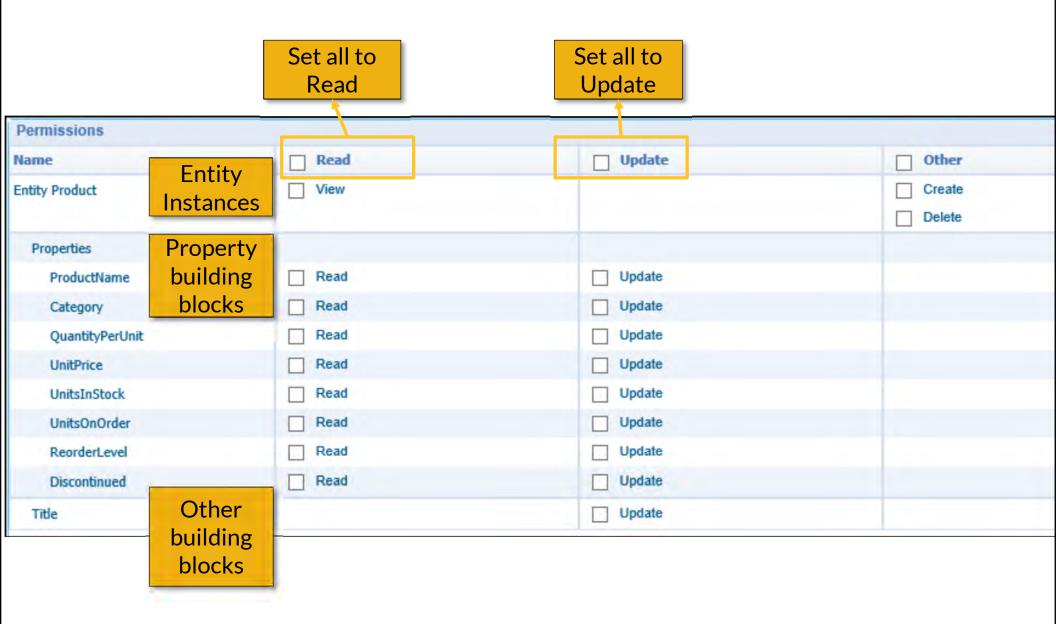
- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

Chapter 6 - Exercises

Security Building Block

- Security is either added or not
- Security restricts access to Entity Instances
 - Access is role-based
 - Roles must be mapped to users
- Permission types:
 - Create
 - Read/View
 - Update
 - Delete

Security Permissions Example



Chapter 6 - Topics

- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

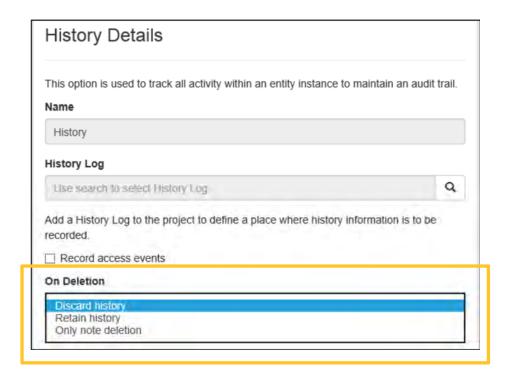
Chapter 6 - Exercises

History Building Block

- Adds an Audit History to Entity
- Audit History captures date, time, username for
 - New instances
 - Instance updates
 - Deleted instances
 - Access to instances (optional)
- Requires a Log document
 - History saved to log

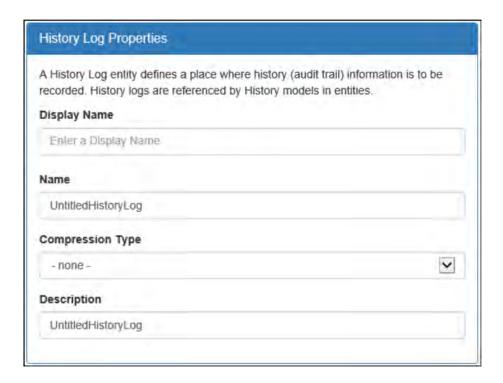
Instance Deletion

- When an instance is deleted, you can:
 - Discard the instance history from the Log document
 - Retain the history
 - Add a note that the instance was deleted



History Log

- Additional document created in Process Platform
- Document may be compressed



Chapter 6 - Topics

- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

Chapter 6 - Exercises (1:10)

Chapter 6 - Summary

- Rule Building Block
- Expression Language for Rules
- Security Building Block
- History Building Block

Chapter 6 - Exercises

Chapter 7 - Entity Lifecycle

Chapter 7 - Topics

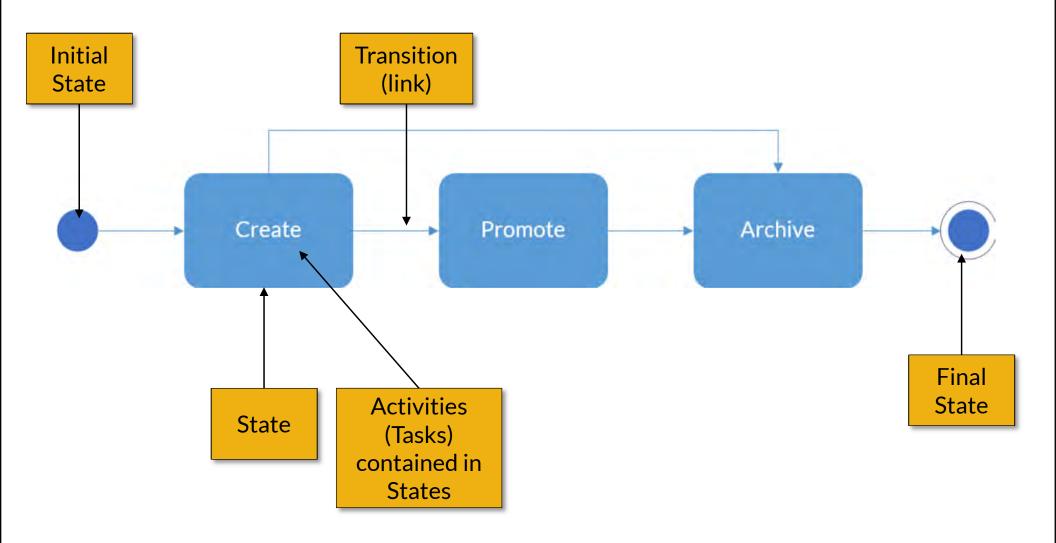
- Lifecycle Building Block
- Lifecycle Model Designer

Chapter 7 - Exercises

Lifecycle

- Describes the evolution of an Entity Instance, from its creation to its disposition (e.g., archival, deletion)
- Defines the states of an Entity Instance
- Generates work (i.e., Tasks) for team members based on states
- Integrates entities with business processes
- May be nested (a Lifecycle in a Lifecycle)

Elements of a Lifecycle



Lifecycle Building Block

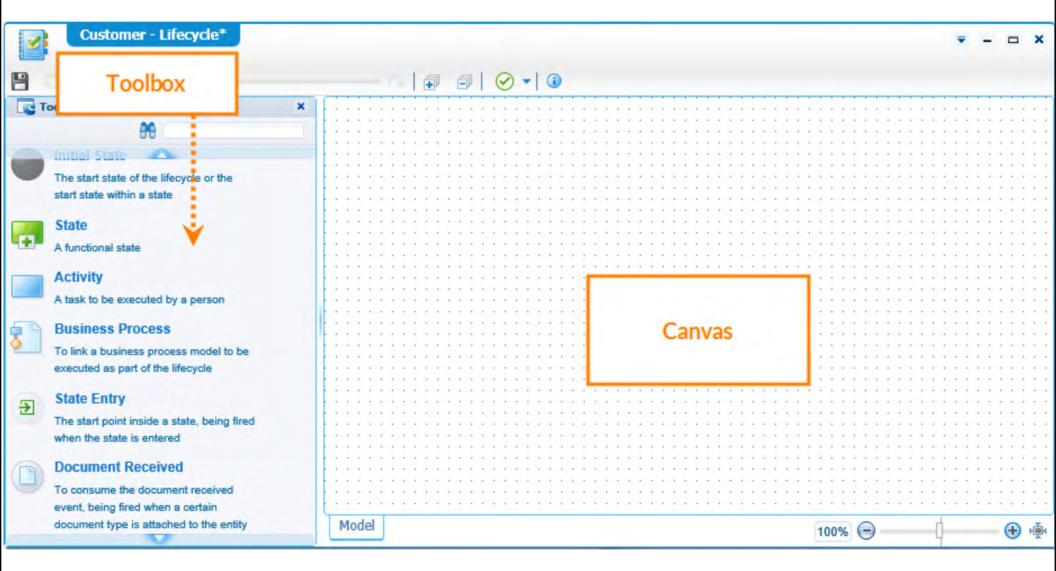
- Two parts:
- 1. Child Entity
 - Task elements
 - Connects to Inbox → Inbox captures Work items in Process Experience
 - Contains additional building blocks (Layouts, Forms, etc.)
- 2. Lifecycle Model Diagram
 - Created with Lifecycle Model Designer

Chapter 7 - Topics

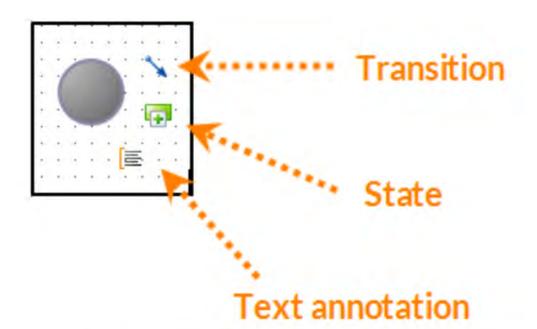
- Lifecycle Building Block
- Lifecycle Model Designer

Chapter 7 - Exercises

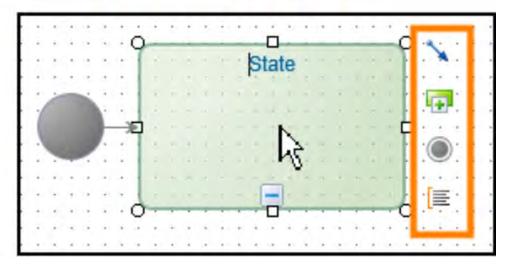
Lifecycle Model Designer



Constructs of Model Designer





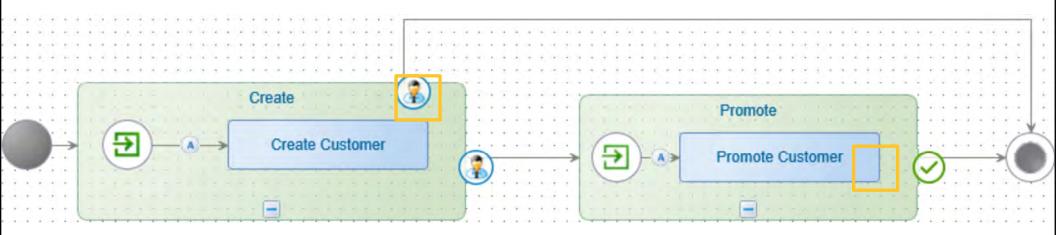


Secondary Constructs / Transition Types

Transition Types

- Conditional: transition only if condition evaluates to true
- Activity Completed: transition automatically once activity complete
- User Event: transition only if user submits event (i.e., clicks button)





User Event Transitions

- Set event name on transitions of type User Event
- Event name becomes button on Process Experience
- Add button to Action Bar in parent entity



Layouts and States

- Layout may be added to activities in a state
- Each Layout may be different (different presentation for different teams (user roles)
- Layouts created in Lifecycle Child Entity



Chapter 7 - Topics

- Lifecycle Building Block
- Lifecycle Model Designer

Chapter 7 - Exercises (~2:30)

Chapter 7 - Summary

- Lifecycle Building Block
- Lifecycle Model Designer

Chapter 7 - Exercises

Chapter 8 - Advanced Features and Integration

Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises

File Building Block

- Attach a file to an Entity Instance
- Only ONE file permitted
- Files kept in document store:
 - Process Platform Database
 - OpenText Content Server
- File actions become available in Action Bar



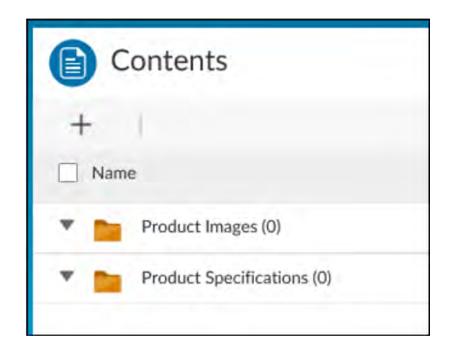
Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises

Content Building Block

- Add multiple files to an entity
- Content creates a child entity with File building block attached
- Display Organization helps categorize files in document store



Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises

Web Service Building Block

Web Service building block generates Web Service

wrapper for entity

Available operations:

- Read
- Create
- Update
- Delete

Web Service Details

Namespace

http://schemas/NorthwindWarehouseApplication/Product/operations

Basic operations

- Create
- □ Read
- □ Update
- □ Delete

Web Services and Relationships

- To One:
 - Set, Clear operations
- To Many:
 - AddTo, Get, RemoveFrom operations
- Child:
 - Create, Get, Delete operations
- Parent:
 - Get operation

Operations on relationships OrderLine ☐ Create Get Delete CustomerOrder Set

Clear

Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises

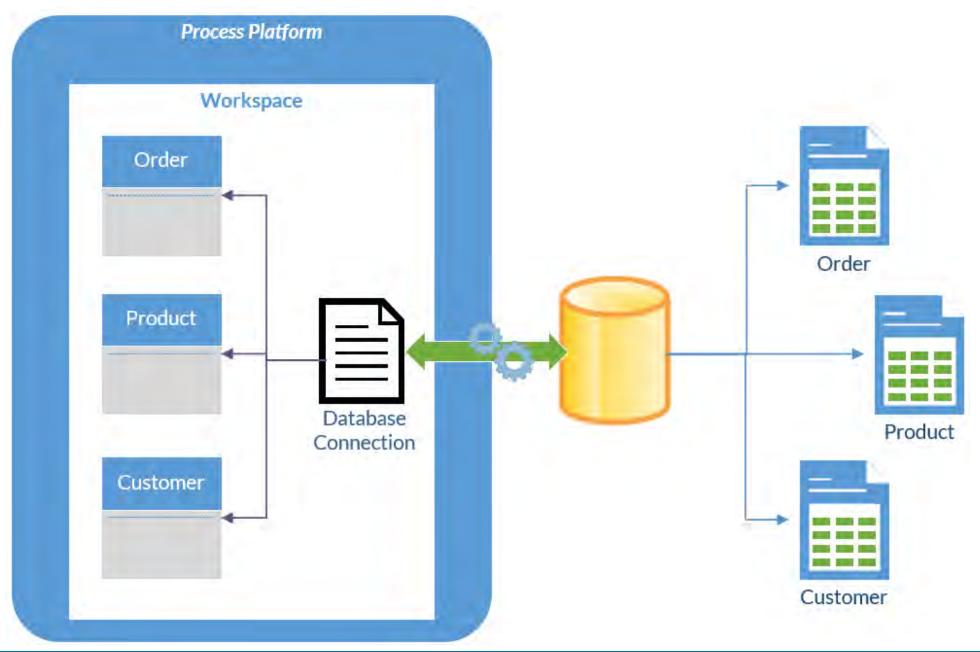
External Entities

- Create Entities from an existing database:
 - Database table
 - Process Component Library
 - MyInbox (Process Platform)
 - MBPM
 - Case360

Steps for Generating Entity

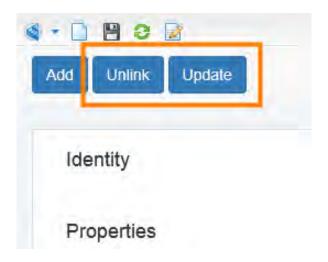
- 1. Establish a connection to source
 - Internal connection to Process Component Library, MyInbox
 - External connection to MBPM, Case360, database
- 2. Generate metadata from source
 - Create usable objects from connection
- 3. Generate entities from metadata objects

Steps for Generating Entity from Database



Tips for Generated Entities

- Entities are "linked" to source
 - Tip: database tables must be migrated to Process Experience
- Unlink entities from source to edit entities
- Update entities if source changes
- Not all column types can be imported



Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises (optional)

Chapter 8 - Topics

- File Building Block
- Content Building Block
- Web Service Building Block
- External Entities

Chapter 8 - Exercises

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