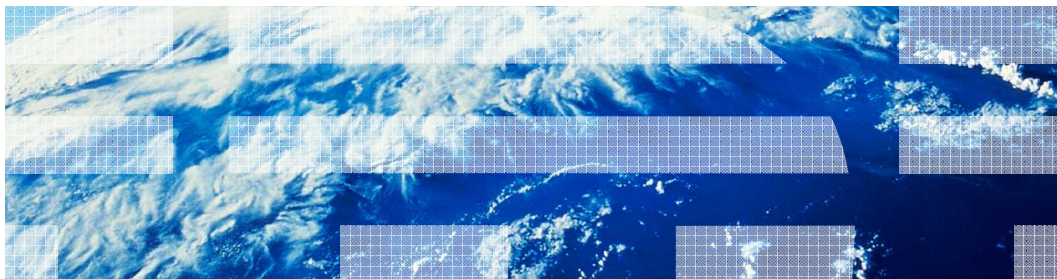


Business Process Management IBM Business Process Manager V8.0.1

SAP Solution Manager integration

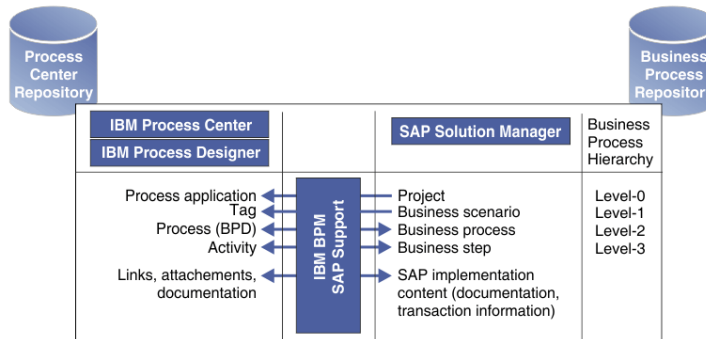


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This presentation gives you an overview of the integration between IBM Business Process Manager and SAP Solution Manager.

Overview

- Enable the exchange of process model data between IBM Business Process Manager and SAP Solution Manager
 - Import business blueprints from SAP Solution Manager to Process Designer
 - Make changes to the process model in Process Designer
 - Export processes back to SAP Solution Manager
 - Import updates from SAP Solution Manager
 - Works with SAP Solution Manager V7.1 with 0005 or lower patch level



2

SAP Solution Manager integration

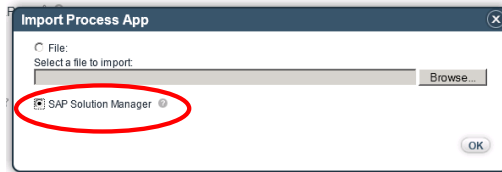
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The SAP Solution Manager integration allows you to import business blueprints from SAP Solution Manager into IBM Process Center. After importation, you can edit them using IBM Process Designer and then export the completed blueprints back to SAP Solution Manager. To keep projects synchronized, you can also re-import a blueprint which has been updated in SAP Solution Manager.

The diagram shows you how elements map from SAP Solution Manager to IBM Process Center. Each SAP Solution Manager project, which can contain multiple processes, is imported as a process application into Process Center. Each SAP process is imported as a business process definition (BPD). A business step is imported as an activity. A business scenario becomes a tag in Business Process Manager. Most of these elements can be changed and the changes exported back to SAP Solution Manager. However business scenarios updates cannot be exported back to SAP Solution Manager.

Connect to SAP Solution Manager

- Select SAP Solution Manager on the import

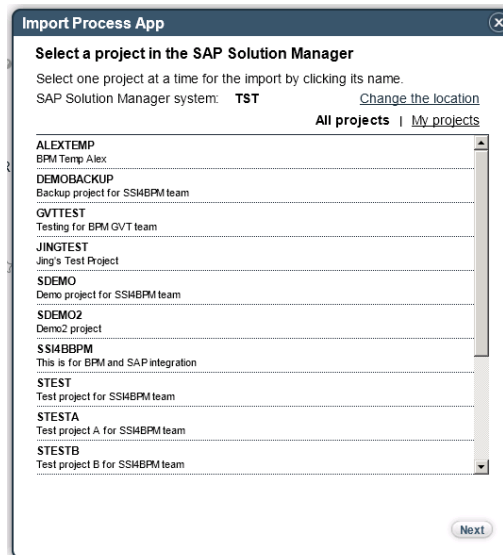


The screenshot shows the 'Import Process App' dialog box with the 'System name' section expanded. The 'System name' dropdown menu is set to 'TST'. Below it, the 'SAP Solution Manager location' is '9.184.167.129', the 'Two-digit system number' is '00', and the 'Three-digit SAP client' is '100'. The 'User ID' is 'wayne' and the 'Password' is masked with dots. A 'Remember my password' checkbox is checked. A 'Next' button is at the bottom right. A yellow callout bubble points to the 'System name' dropdown menu with the text: 'Lists all the connections you have entered previously'.

Before you can set up the connection from Process Center, you must obtain an account in the SAP Solution Manager environment. Then, when you perform the import, use the SAP Solution Manager location and your user name and password for this account to access the models in SAP Solution Manager. For your convenience, Process Center stores the connection parameters from previous sessions; you can select them in the 'System name' drop down list.

List of projects in SAP Solution Manager

- Select the project to import



On the Import Process App window, select the project to import. There are links for showing all projects or only projects authored by your login user ID. Select a project from the list and click the Next button.

Import the project

The screenshot illustrates the process of importing a project from SAP Solution Manager into Process Center. It is divided into three main sections:

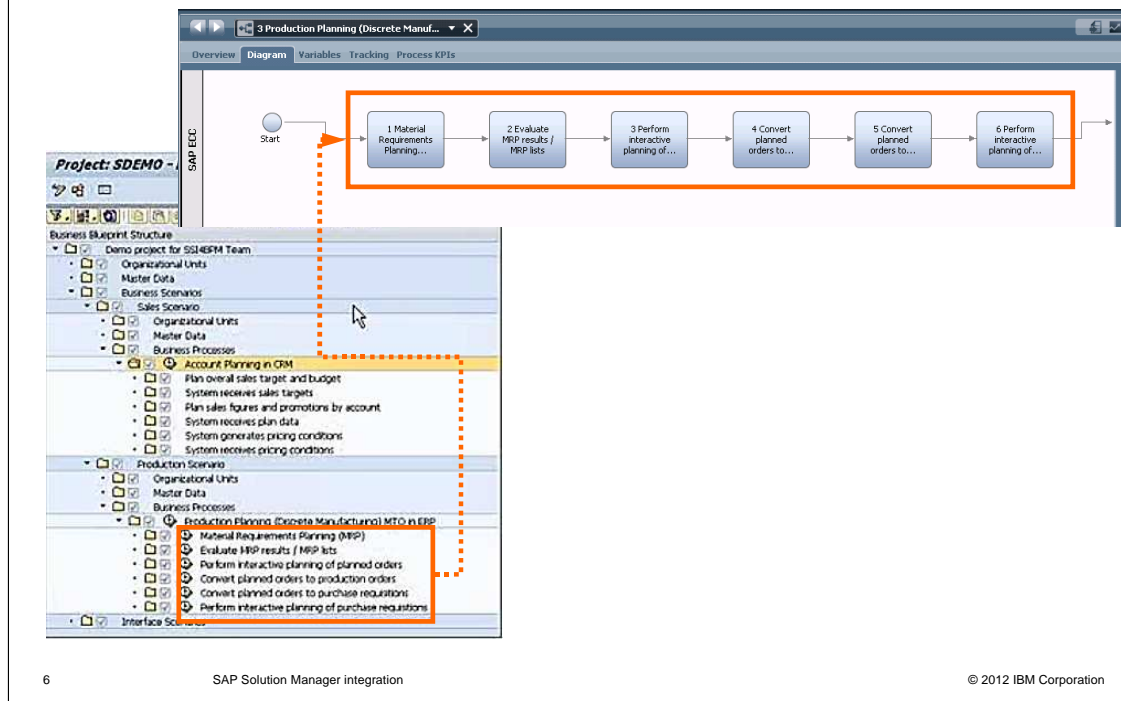
- Top Left:** A tree view of the project structure for 'Project: SDEMO - Display - Business Blueprint'. The 'Account Planning in CRM' process is highlighted with an orange box.
- Top Right:** An 'Import Process App' dialog box titled 'Select the SAP processes to import'. It lists three processes: '1 Account Planning in CRM' (highlighted with an orange box), '2 Billing in ERP', and '3 Production Planning (Discrete Manufacturing) CTO in ERP'.
- Bottom:** A navigation bar with tabs for 'Process Apps', 'Toolkits', 'Servers', and 'Admin'. Under the 'Process Apps' tab, the 'SDEMO (SDEMO)' application is highlighted with an orange box.

At the bottom of the slide, there is a page number '5', the text 'SAP Solution Manager integration', and the copyright notice '© 2012 IBM Corporation'.

Next you are shown a list of processes in the project that you selected. You can select one or more processes to import. After importing, the project from SAP Solution Manager becomes a process application in Process Center. And the SAP processes become business process definitions within the process application.

Note that the process application acronym is the first seven characters of the SAP Solution Manager project name.

Business steps become activities



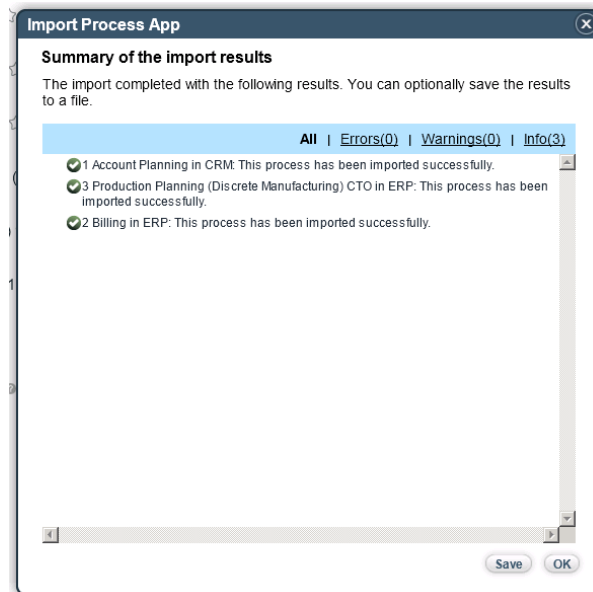
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SAP Solution Manager integration

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This slide shows you that the business steps in your SAP Solution Manager process become activities in the business process definition.

Summary of import results



When the import is complete, Process Center reports the results. You can filter the messages to see errors, warnings or information messages. In this example, the import was successful. If you have import problems that you want to analyze, then you can save the messages to a file.

Artifacts in Process Designer (1 of 2)

The screenshot displays the SAP Process Designer interface. The main workspace shows a process flow with five steps: 1. Account Planning in CRM, 2. Billing in ERP, 3. Production Planning (Discrete Manufacturing) CT..., 4. Determine prices and conditions, and 5. Date and meter. A callout box points to these steps with the text "Steps become activities".

The left sidebar contains a tree view with categories like "Processes", "User Interface", "Implementation", "Decisions", "Data", and "Performance". A callout box points to this area with the text "Blueprint becomes process app".

The bottom section shows the "SAP Solution Manager" integration. The "General" tab is selected, and the "Custom" sub-tab is active. A table lists SAP transactions shared with SAP Solution Manager:

Type	Logical Component	Object	In Scope	Name	Standard	
Transaction	SAP ECC	VF01	<input checked="" type="checkbox"/>	Create Billing Docu...	<input type="radio"/>	Add
Transaction	SAP ECC	VF02	<input checked="" type="checkbox"/>	Change Billing Docu...	<input type="radio"/>	Remove
Transaction	SAP ECC	VF03	<input checked="" type="checkbox"/>	Display Billing Docu...	<input type="radio"/>	

A callout box points to the "Custom" tab with the text "Processes become BPD's". Another callout box points to the "SAP transactions" table with the text "SAP transactions".

At the bottom of the slide, the text reads: "8 SAP Solution Manager integration © 2012 IBM Corporation".

Here you see the imported elements in Process Designer. The blueprint becomes a process application. And, within that, the processes become business process definitions.

To see SAP transactions in Process Designer, go to the Custom tab for the process. You can make updates to the transactions, including adding and removing them.

Artifacts in Process Designer (2 of 2)

The screenshot displays the IBM Process Designer interface. The main workspace shows a BPMN diagram titled "2 Billing in ERP" with five tasks: "1 Create billing document", "2 Select billing-relevant documents", "3 Determine business partner", "4 Determine prices and conditions", and "5 Determine and create text". The diagram is organized into swim lanes for "CRM SERVER", "SAP ECC", and "SAP BW SERVICE". A yellow callout box points to the "Start" node with the text "Logical component becomes swim lane".

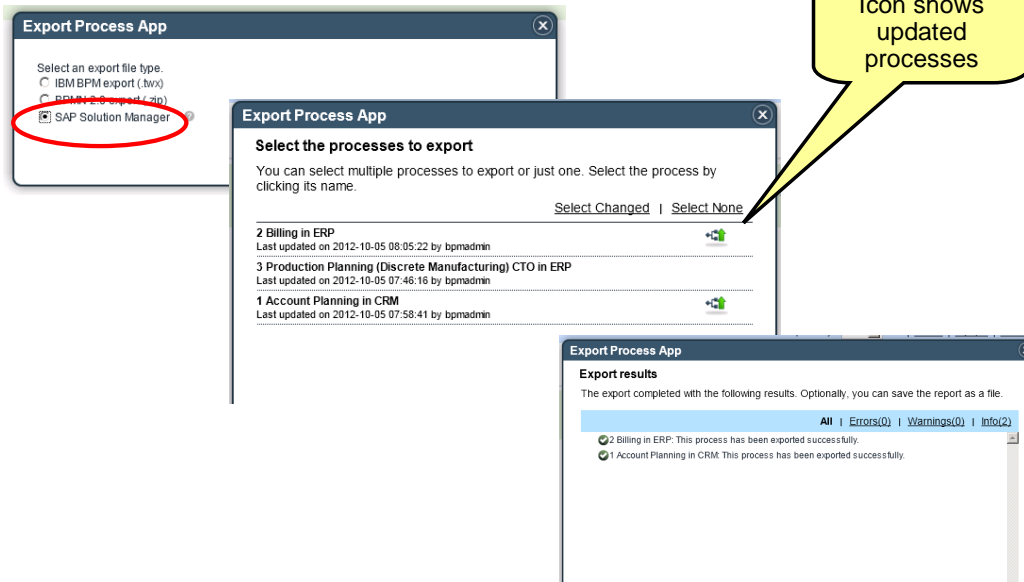
The Properties panel at the bottom is open for the selected task "1 Create billing document". It shows fields for Name, Presentation, and Documentation. The Documentation field contains a link: "SAP Documentations: Billing Document Template". A yellow callout box points to this link with the text "Documentation becomes a link".

At the bottom of the screenshot, the page number "9" is on the left, "SAP Solution Manager integration" is in the center, and "© 2012 IBM Corporation" is on the right.

Logical components from SAP are depicted in Process Designer as swim lanes. Documentation in SAP Solution Manager becomes a clickable link in Process Designer. If you click a documentation link, then you are taken to a browser to view the document.

Export the process

- First make sure there are no validation errors and take a snapshot



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SAP Solution Manager integration

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To export a process application from Business Process Manager, first you must take a snapshot. Then, in the export wizard, select 'SAP Solution Manager'. Next you are presented with a list of processes to export. Processes that you updated in Process Designer are marked with a special icon, which includes a green arrow pointing upward. These processes need to be exported to SAP Solution Manager in order to synchronize them. After the export is complete, messages about the export are displayed.

Export notes

1. Export conflicts arise if the SAP project was updated while also being updated in IBM Business Process Manager
 - An element deleted in BPM and changed in SAP is deleted
 - An element changed in Business Process Manager and deleted in SAP is created
 - Business Process Manager updates element1.attr1 and SAP updates element1.attr2, both changes are stored
2. Flow sequence is lost on export
 - SAP does not provide API to update 'edges'
 - New activities are appended to the end of the step list
 - Resolve in SAP by modifying the step order and editing the edges in the graphics tab
3. A failed export can result in partial updates
 - SAP does not provide multi-operation transactions with rollback

Here are several things to be aware of when performing an export. If a project is updated in both SAP Solution Manager and IBM Business Process Manager at the same time, then the results of the export depend on the changes made. If an element was deleted in IBM Business Process Manager and changed in SAP Solution Manager, then the element is deleted from SAP as a result of the export. If an element was changed in IBM Business Process Manager and deleted in SAP Solution Manager, then the element is recreated in SAP with the changes applied. For a given element, if one attribute is updated in IBM Business Process Manager and another attribute is updated in SAP Solution Manager, then both changes are reflected in the element after the export.

Another thing to be aware of is simultaneous updates to the flow in the business process definition. If you changed the flow sequence in SAP, or if you added new activities, then those changes are lost after the export from IBM Business Process Manager. There isn't an API to update the flow or edges in SAP Solution Manager; so you need to rebuild your changes manually in SAP Solution Manager after the export.

If you encounter a failure during the export, then a subset of your export is reflected in SAP. The reason for this is that SAP Solution Manager doesn't provide transaction-rollback functionality. However, you can fix the issue that caused the export to fail and then re-export the project in its entirety.

Import updates from SAP Solution Manager

The image displays two screenshots of the 'Import Process App' dialog box. The left screenshot shows a list of projects with a yellow callout bubble pointing to a project with a blue icon, stating 'Icon shows projects already imported to Process Designer'. The right screenshot shows a list of SAP processes with a yellow callout bubble pointing to a process with a green arrow icon, stating 'Icon shows updated processes'. Both screenshots include a 'Next' button and an 'Import' button.

When you update a project in SAP Solution Manager, then you can re-import that project into IBM Business Process Manager in order to synchronize the repositories. As you see on this slide, there is an icon to indicate which projects have already been imported to Business Process Manager. Also, there is an icon containing a downward pointing green arrow that appears on the process list to signify processes that have been changed in SAP and need to be re-imported into IBM Business Process Manager.

Summary

- Covered the SAP Solution Manager integration

In summary, you have learned how to use the new SAP Solution Manager integration feature in IBM Business Process Manager.

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