How To...
Integrate a Forum into a Collaboration Room

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Applicable Releases:
SAP NetWeaver 7.0 SP12
User Productivity Enablement
Enabling User Collaboration
1 Scenario

A project group owns a room (virtual working environment) in the 'Employee Portal' and wants to integrate a forum to share open questions regarding a project.

2 Introduction

Due to the enormous success of SAP Developer Network (SDN) forums, which have attracted more than 700,000 users to date, SAP has integrated SDN-like forums into the collaboration capabilities of SAP NetWeaver.

Forums allow portal users to share information and opinions about specific subjects or questions. Forums are designed with intuitive user interfaces that enable users to discuss common issues and topics, post questions and announcements for the community, escalate questions by asking experts, and get updates on posted comments.

The forums application is delivered with NetWeaver 2004s SP12 and SAP NetWeaver 2004 SPS 20.

It is an alternative solution to the discussion groups that have been available since EP6.0. In comparison with these discussion groups, forums offer an additional moderation function, enhanced subscription configuration, and many other enhancements.

This guide describes how to integrate a forum into an existing room. However, you could also integrate a forum at a higher level (for example, at category level).
Some of the configuration steps, such as the creation of a forum room part, have to be done once. Other configuration steps are required whenever a new forum is needed within a room.

The procedure described here is valid until a generic integration is offered by SAP.
3 The Step-By-Step Solution

In the following scenario, we assume that a project room has already been created. Within the lifetime of a room, you add new applications to the room using room parts.

The aim is to offer a generic approach for making forums available within rooms. This is realized using the following steps:

Generic configuration steps that you do only once:
- Create a forum room part that contains a page with a forum iView.
- Define a forum category and enter the basic permission configuration.

Specific configuration for individual rooms:
- Create a forum to be added to a specific room.
- Add a forum room part to the room in question and assign the forum to it.

3.1 Generic Configuration

3.1.1 Creating a forum room part

A room part consists of at least one page with one iView. To create a room part, you need to provide content such as iViews, pages, and worksets in the Portal Content Directory. You maintain all other configuration data for the room part in the Room Part Administration iView.

In the following example, one forum iView in one page is provided as a room part. The forum iView references a forum that is accessible using an ID. The parameter for the forum ID in the iView is left empty during the content creation process in the Portal Content Directory.

The maintenance of the forum ID parameter is delegated to the room administrator (using an external parameter definition) who adds the room part to the room. This is described in section 3.2.
Steps in the Portal Content Directory

The admin user who performs the following tasks needs to have the ‘Content Administration’ role. The Portal Content Directory is located at Content Administration → Portal Content.

1. Create a folder structure in the Portal Content Directory (PCD)
   - Create a new subfolder called CustomerSpecific in the com.sap.ip.collaboration → RoomPartContent folder.
   - Create two subfolders called iViews and Pages.

2. Create a forum iView
   - In the iViews folder, create an iView based on the ‘Collaboration Forums Default iView’ Template.
   - Call it ‘Forum’.

3. Configure the forum iView
   - Edit the forum iView and define the ‘View on SAP Forums’ parameter by selecting Forums.
   - If you installed the forums application in a two-system setup, you need to add the Forum-specific system alias.
   - Leave Forum View Target blank. This entry is filled during the integration of the room part.
4. Create a page
   - In the Pages folder, create a page called 'Forum' and add the forum iView as a delta link.

5. Create a workset
   - In the RoomPartContent folder, create a workset and add the page you created in the previous step as a delta link.
Steps in the Administration of Room Part Templates

The admin user who performs the following tasks needs to have the 'Content Administration' role. The administration of room part templates area is located at Content Administration → Collaboration Content.

1. Create a new room part template
   • Go to ‘Administration of Room Part Template’.
   • Choose ‘New’.
   • Enter the following parameter/values in the General Properties section:
     Name: Forum
     Description: See screenshot
     Categories: Select one of the available categories
     Workset: Forum
   
   Choose ‘Next’

2. Create a role and assign permissions
   • Create a member role.
   • Assign the page permission to members.
3. Create an external parameter
   - The new parameter is called 'forumViewTarget'.
   - Use the text in the screenshot as the description.
   Note: This external parameter will later be mapped with the iView parameter of the forum iView.

4. Complete the room part template
   - You do not need to configure an extension in this context.
   - For the mapping definition, use the 'forumViewTarget' parameter you defined earlier.
   - Add this parameter as the value for com.sap.nw.forums.portal.Forum.sTarget.
   - Choose 'Next'.
   - Leave the Template Permission tab as it is.
   - Choose 'Done'.

   ![Administration of Room Part Templates](image-url)
3.1.2 Defining a forum workspace for rooms

The admin user who performs the following tasks needs to have access rights for the Forum Administration Console and should be system administrator for the forums application.

You create all forums or subcategories to be used for rooms in the 'Room Forums' category.

1. Add a new category
   - Select Content.
   - Create a subcategory of the root category called 'Room Forums'.

2. Define general permissions for the room forum category
   - Store all forums created in the room context in the 'Room Forums' category.
   - The permission definition of a specific room forum should match the room permissions.

   Tip: The category permissions are inherited from the global forum permissions (located at Settings -> Global Permissions). If you want different permissions, revoke the inherited permissions.

   If the inherited permissions are not displayed, use the following workaround (see right for an example):
   - Check the permission settings for the global permissions.
   - Navigate back and grant permissions for these users and groups in the category.
   - Revoke the inherited permissions.
   - You have now revoked all inherited permissions and can add room-specific permissions to room forums.

1. Check for global permissions
2. The following groups are assigned under Global Forum Permissions
3. Select Content -> Room Forums (category) -> Category Permissions
4. Assign the two groups using Grant New Permission (for example, add Create Poll as a permission). All permissions inherited from global permissions are displayed. You can now revoke these permissions.
As a result, the ‘Room Forums’ category does not inherit any permissions. You can now define room-specific permissions for each forum in the category.

### 3.2 Specific configuration for individual rooms

Once you have configured the forum room part as described in section 3.1, you can use it to add forum functions to an existing room. Before adding the room part to the room, you have to create the room-specific forum to obtain the forum ID. This ID is mapped as a parameter during the room part creation process.

#### 3.2.1 Creating a new forum

You use the Admin Console of the forums application to carry out all tasks described in this section.

1. **Create a forum**
   - Go to Content → 'Room Forums' category.
   - Choose 'Create New Forum'.
   - Enter a name and a description.
   - Select 'Use Global Permissions' for 'Permissions'.
   - Choose 'Create Forum'.
2. Define permissions for the forum
   - Select the forum in question and open the permissions configuration.
   - Grant new permissions for the room member group. Select 'Read Forum' and 'Create Thread'.
   - Note that the 'all member group' for a room has the following syntax:
     
     ROOM_ID_of_Room_MAIN

     Check the room ID of your room on the General tab page of the 'Room Administration' iView.

3. Select the forum ID
   - Select the forum and open it.
   - In the 'Forum Settings', locate the forum ID. You need this information to integrate the forum into the room.

3.2.2 Adding the newly created forum to the room using room part integration

You perform the following steps in the room where you want to integrate the forum as a room part.
1. Add the forum room part to the room
   - Choose the ‘Room Administration’ iView for the room.
   - Choose ‘Add Room Part’.
   - Add the 'Forum' room part.
   - Define a name for the room part.
   - Keep the role mapping if it is suitable.
   - Use the following syntax for the parameter for the forumViewTarget:
     `forum.jspa%3FforumID%3DXX`
     Replace the XX with the forum ID from 3.3.
   - Choose ‘Done’.
   - Refresh the room

2. Check the forum integration
   - If the forum integration was successful, it should look similar to the screenshot.