

# Rotating images with Symbian AIW

## Overview

This code snippet shows how to rotate an image 90/180/270 degrees with the AIW (Application Interworking Framework) handler.  
This snippet can be self-signed.

## Preconditions

 Note: This API is not part of the public SDK. It can be found in the [SDK API Plug-in](#).

## MMP file

The following library is required:

```
LIBRARY servicehandler.lib
```

## In the resource file

Add the following headers:

```
#include <AiwCommon.hrh>
#include <AiwCommon.rh>
```

Then define a submenu item as follows in the MENU\_PANE resource:

```
MENU_ITEM
{
command=ERotateSub;
cascade=r_rotate_menu;
txt = "Rotate";
}
```

Then define the actual submenu item as follows:

```
RESOURCE MENU_PANE r_rotate_menu
{
    items =
    {
        MENU_ITEM
        {
            command=EAIWPlaceHolder1;
            txt = "Rotate";
        }
    };
}
```

After this, you can define the AIW menu interest item as follows:

```
RESOURCE AIW_INTEREST r_aiwmnenutst_ROTATE
{
    items =
    {
        AIW_CRITERIA_ITEM
        {
            id = EAIWPlaceHolder1;
            serviceCmd = KAiwCmdRotate; //from aiwcommon.hrh
            serviceClass = KAiwClassMenu; //from aiwcommon.hrh
            contentType = "image/*";
        }
    };
}
```

## Source file

Add the following header:

```
#include <AiwServiceHandler.h>
```

Construct the CAiwServiceHandler and attach the menu:

```
iServiceHandler = CAiwServiceHandler::NewL();
iServiceHandler->AttachMenuL(R_ROTATE_MENU, R_AIWMENUTST_ROTATE);
```

Because the menu items for rotating were defined as submenus, you can handle adding the menu with the following code inside the DynInitMenuPaneL implementation:

```
if ( iServiceHandler->HandleSubmenuL( *aMenuPane ) )
{
    return;
}
if(iImageFileName.Length()
&& BaflUtils::Parse(iImageFileName) == KErrNone)
{
    CAiwGenericParamList& paramList = iServiceHandler->InParamListL();

    TAIwVariant varFile(iImageFileName);
    TAIwGenericParam paramFile( EGenericParamFile, varFile );
    paramList.AppendL( paramFile );

    TAIwVariant varMime(_L("image/jpeg"));
    TAIwGenericParam paramMime( EGenericParamMIMETYPE, varMime );
    paramList.AppendL( paramMime );

    iServiceHandler->InitializeMenuPaneL(
        *aMenuPane,
        aResourceId,
        EAIWExampleCmdLast1,
        paramList);

}
else if(aResourceId == your Menu id goes here)
```

```
{  
// Use aMenuPane->SetItemDimmed to dim out the menu item.  
}
```

And when the user selects the menu item, you just need to forward the command to CAiwServiceHandler in your command handler's default block as follows:

```
CAiwGenericParamList* paramList = CAiwGenericParamList::NewLC();  
  
TAiwGenericParam filePath( EGenericParamFile, iImageFileName );  
paramList->AppendL( filePath );  
  
TAiwVariant varMime(_L("image/jpeg"));  
TAiwGenericParam paramMime( EGenericParamMIMEType, varMime );  
paramList->AppendL( paramMime );  
  
iServiceHandler->ExecuteMenuCmdL(  
    aCommand,  
    *paramList,  
    NULL,  
    0,  
    this);  
  
CleanupStack::PopAndDestroy(paramList);
```