

A Brief Overview of SPAU Adjustments for SAP NetWeaver 7.00 ABAP System



Applies to:

SAP NetWeaver ABAP Systems (examples based specifically on SAP NetWeaver 700 ABAP System)

For more information, visit the [ABAP homepage](#).

Summary

Exact steps to carry out SPAU activities are usually unclear and difficult to find. This document describes the various scenarios that could arise during SPAU, using specific examples and corresponding actions to be carried out.

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Introduction/Overview

SPAU adjustments are required during an upgrade or importing of support packages. The existing objects of the SAP standard are overwritten by the new objects delivered. In order to help customers keep those objects that have been modified from a previous release, SAP offers upgrade adjustment for all objects being upgraded in the form of SPAU and SPDD. These can be used to enter the modifications into the corresponding new objects being delivered at the upgrade/import.

Objects altered using the Modification Assistant can be **automatically** accepted into the system, if the modifications made in the customer version do not directly conflict with the one in the original version.

If conflicts/collisions occur between the two versions, the system offers **semi – automatic** adjustment support.

In other cases the objects would have to be adjusted **manually** using the ABAP Workbench itself.

Transaction SPAU allows us to adjust programs, function modules, screens, interfaces, documentation and text elements after an upgrade/import. Also, it provides support for adjusting ABAP Dictionary objects where no data loss can occur like search helps, views, lock objects and texts.

As SPAU involves many changes to the system, there are some necessary guidelines to be followed before starting the SPAU adjustments. The next section describes the preparations towards SPAU.

Preparing to Run SPAU

Note: Before doing anything, please ensure that you already have a recent working backup of the entire system (including database). This is very important as the SPAU adjustments might cause inconsistencies if not done properly and risk complete system inconsistency.

As you would have to make manual changes to the code/dictionary objects, it's necessary to set the System Change option to "All Objects"

1. Start transaction SE03 as "DDIC" and choose Tools – Administration – Set system change option
2. Select Modifiable in the Global Setting box.
3. Choose Continue
4. Choose Edit – Select All
5. Save all entries.
6. Log off as DDIC and login with your user.

Work with your user and do not use "DDIC" for running SPAU.

Whenever an object is modified, a request query dialog box appears asking you to specify a Change Request where modifications should be recorded. Create a new change request for the first change you do. Use the same request for all further changes using SPAU.

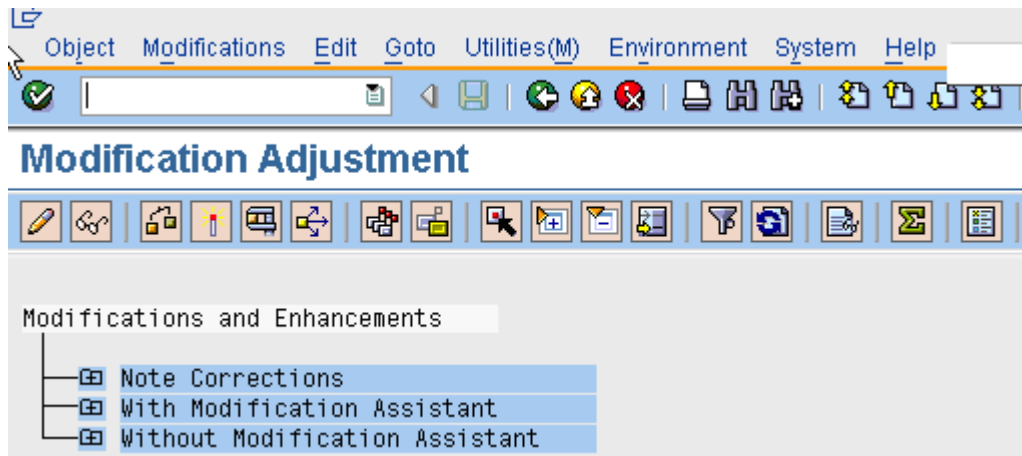
The screenshot shows the 'System Change Option' dialog box in SAP. The 'Global Setting' is set to 'Modifiable'. Below this, there are two tables. The first table lists software components and their modifiability status. The second table lists namespace/name ranges and their modifiability status.

Software Component	Technical Name	Modifiable
BBPCRM	BBPCRM	Modifiable
SAP CRM UIF 510	CRMUIF	Modifiable
Customer Developments	HOME	Modifiable
Local Developments (No Automatic Transport)	LOCAL	Modifiable
PI_BASIS 2005_1_700	PI_BASIS	Modifiable
Cross-Application Component	SAP_ABA	Restricted Modifiability
SAP Application Platform	SAP_AP	Modifiable

Namespace/Name Range	Prefix	Modifiable
Customer Name Range		Modifiable
General SAP Name Range		Modifiable
Test Generation Namespace for BW	/1APO/	Modifiable
Bank Analyzer: Generated Objects	/1BA/	Modifiable
ABAP & GUI Tools	/1BCABA/	Modifiable
ABAP Workbench	/1BCDWB/	Modifiable
Enqueue Function Groups	/1BCDWBEN/	Modifiable
BCPPF/PPF: Generated Objects Only	/1BCPPF/	Modifiable
Generation Namespace for Web Dynpro Components	/1BCWDY/	Modifiable

SPAU – General Functions

Usually 3 types of objects need adjustments which are Notes, Objects modified With Modification Adjustment, and Objects modified Without Modification Adjustment.



We shall first have a look at the color legends which are extremely important for deciding the adjustment type for the object.



Automatic adjustment, the modification of the customer can be adopted automatically. Clicking here causes the system to automatically adjust the object. This would work for objects changed with Modification Adjustment.



Semi – automatic adjustment, this means that each tool will individually offer you support during the adjustment process. When adjusting programs, the split screen editor is called, whereas in the other tools any entries made in the collision dialog box lead to the necessary adjustments being made automatically. This also works for objects changed with Modification Adjustment.



Manual Adjustment – This means you would not be getting any special support from the system for adjusting the objects. Using Version Management, the old versions have to be retrieved and saved or else the newly imported objects have to be recorded and saved.



Unknown adjustment mode – For these objects, the adjustment mode could not be decided. For these, if SPAU is started – a background process can be started which would then determine the adjustment mode for the particular object.



Reset to Original – If this option is chosen, all the modifications are lost and the original version that was imported with the SAP support package will be activated. *At Technical Validation, it is recommended to “Reset to Original” for most of the objects as no modifications are to be made.*

We would now see how to adjust objects of the 3 different categories mentioned.

Adjusting Notes

For Notes, the adjustment mode would usually be either of the following two:

Example 1:

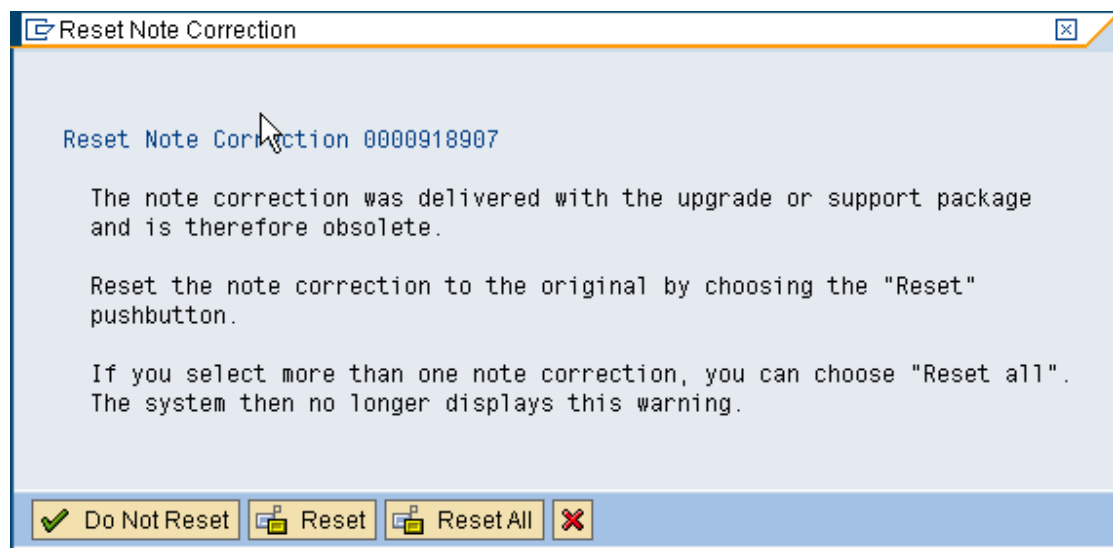
○○○ 0000908023 Unable to process Upload SynBO type in MAM-Foreign key error


Reason:

The above shows that the Note is now obsolete for the system. This is due to the fact that a newer version of code corrections has been applied to the system through a SAP Support Package. Hence the code corrections contained in the Note are considered “old” for the system and obsolete.

Action:

Click on the “Obsolete” icon and you get the following the screen:



Here, as the Note is already obsolete select “Reset” and the original SAP standard would be activated. This can be done for more than one Note: by selecting all obsolete notes using the  icon and then selecting “Reset All” in the above screenshot. After doing this, the note will be removed from the Note Corrections list.

Example 2:

○▲○ 0000978064 Duet 1.0 SP01: Corrections in Reporting scenario.

In this case, any of the three cases might occur:

Case 1:

Clicking on the semi – automatic adjustment icon would download and try to apply the note to the system again. If a newer version of the note exists and **if the Note Application goes through without any warnings/errors**, the status is then shown as object adjusted :

✓ 0000876001 MAM: User status of PM/CS notification tasks

Case 2:

If a newer version of the Note is available, downloading it again might result in the following screen:

Note correction no longer needs to be implemented

Message no. 0M271

Diagnosis

The SAP Note correction implemented in advance was delivered with the upgrade or the support package.

Procedure

Reset the SAP Note correction to the original version.

In this case, SPAU detects that the Note is now obsolete and it has to be reset to original as described in Example 1.

Case 3:

While re – applying the Note, you might also get warnings for some of the objects stating that “Corrections copied incompletely” or “All changes exist”. **In this case do not use the split screen editor to bring in the changes manually. Please create ticket for the Note. This is usually due to issues with the Note Validity which needs to be set correctly by the Note Author. Once this is done, SPAU would automatically consider the Note as obsolete or the Note re - application would go ahead without any errors.**

Case 4:

Sometimes even though the re – implementation goes through without any issues, SPAU shows the message “Note correction still implemented” and the status for the Note is still inconsistent. This also occurs due to incorrect Validity for the Note corrections. The same actions are to be taken as described in Case 3.


Example 3:

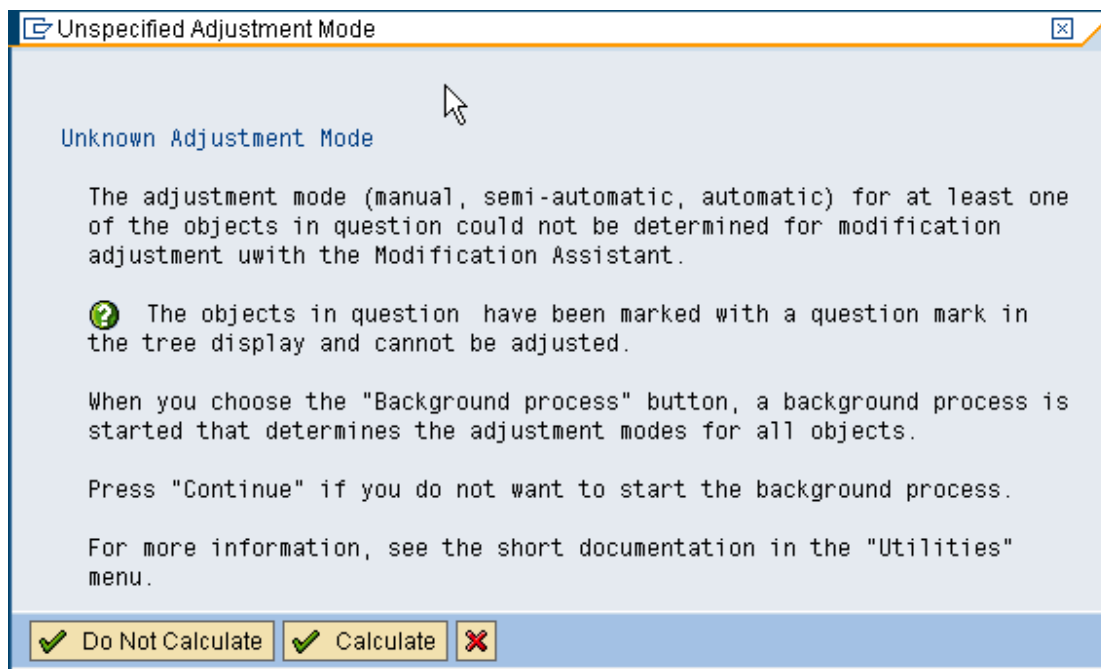
0000990867 CRM Web UI: Performance improvements

Reason:

In this case SPAU is not able to determine the adjustment mode for the object modified using the Modification Assistant.

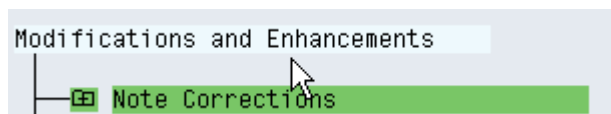
Action:

Click on the  symbol, and a dialog box should open asking to run a background job to calculate the adjustment mode for the object. Please find the screenshot below:



Clicking on “Calculate” will start the process “Determine Adjustment modes” either in background or foreground. Once this process is finished, the adjustment mode for the Note in question would change to either of the Examples 1 or 2. Following action should be taken considering the adjustment mode calculated.

Once all the Notes have been adjusted the “Notes Corrections” node in SPAU should look Green.

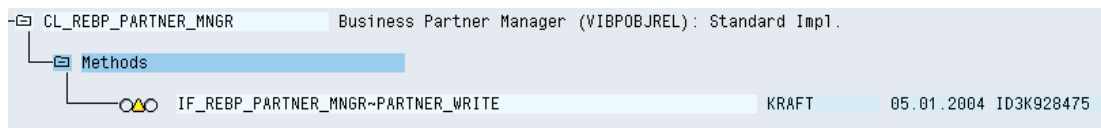


This completes the SPAU adjustments for Notes. Next we move on to the adjustment for objects modified with the Modification Assistant.

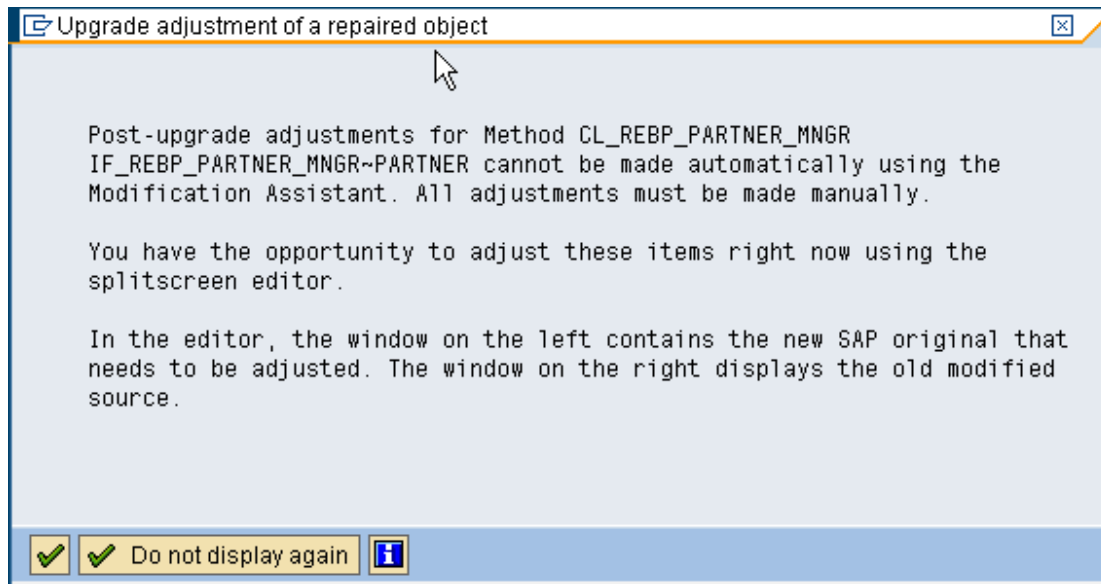
Adjusting Objects Modified with Modification Assistant

There are usually many different types of objects which would require adjustment:

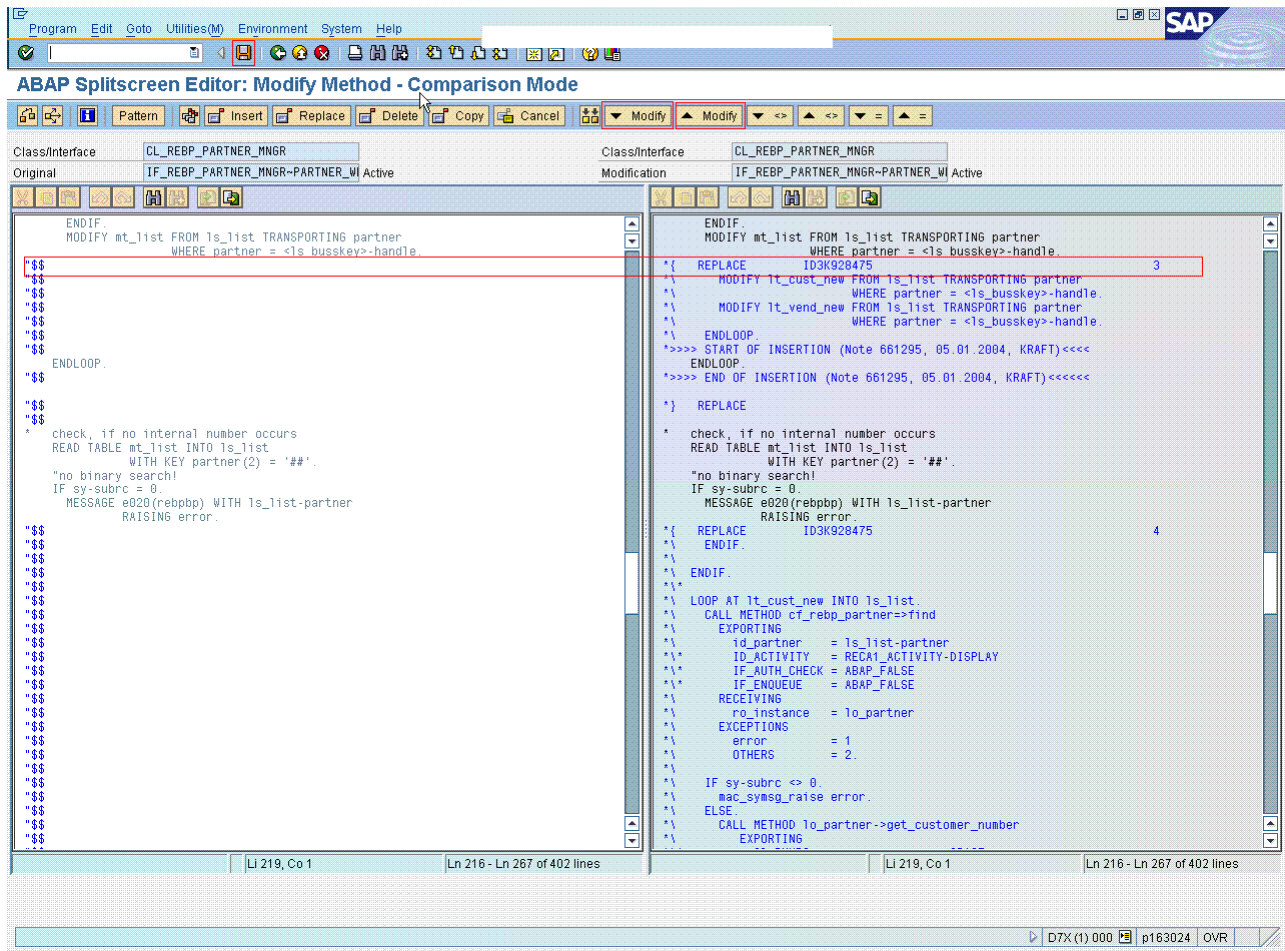
Case 1:





In the above screenshot, we see the method requires adjustment manually using the split – screen editor. Clicking on the adjustment icon opens the split – screen editor for accepting/rejecting the modifications to the SAP standard.



Since the code snippet in the new original differs from the one in the old original, automatic adjustment is not possible and the split – screen editor is called. In the following screenshot, the window on the left displays the new SAP original, while window on the right displays the source code modified.



The split screen has two buttons on top  and  which would bring the cursor to the location where differences exist between the two code snippets.

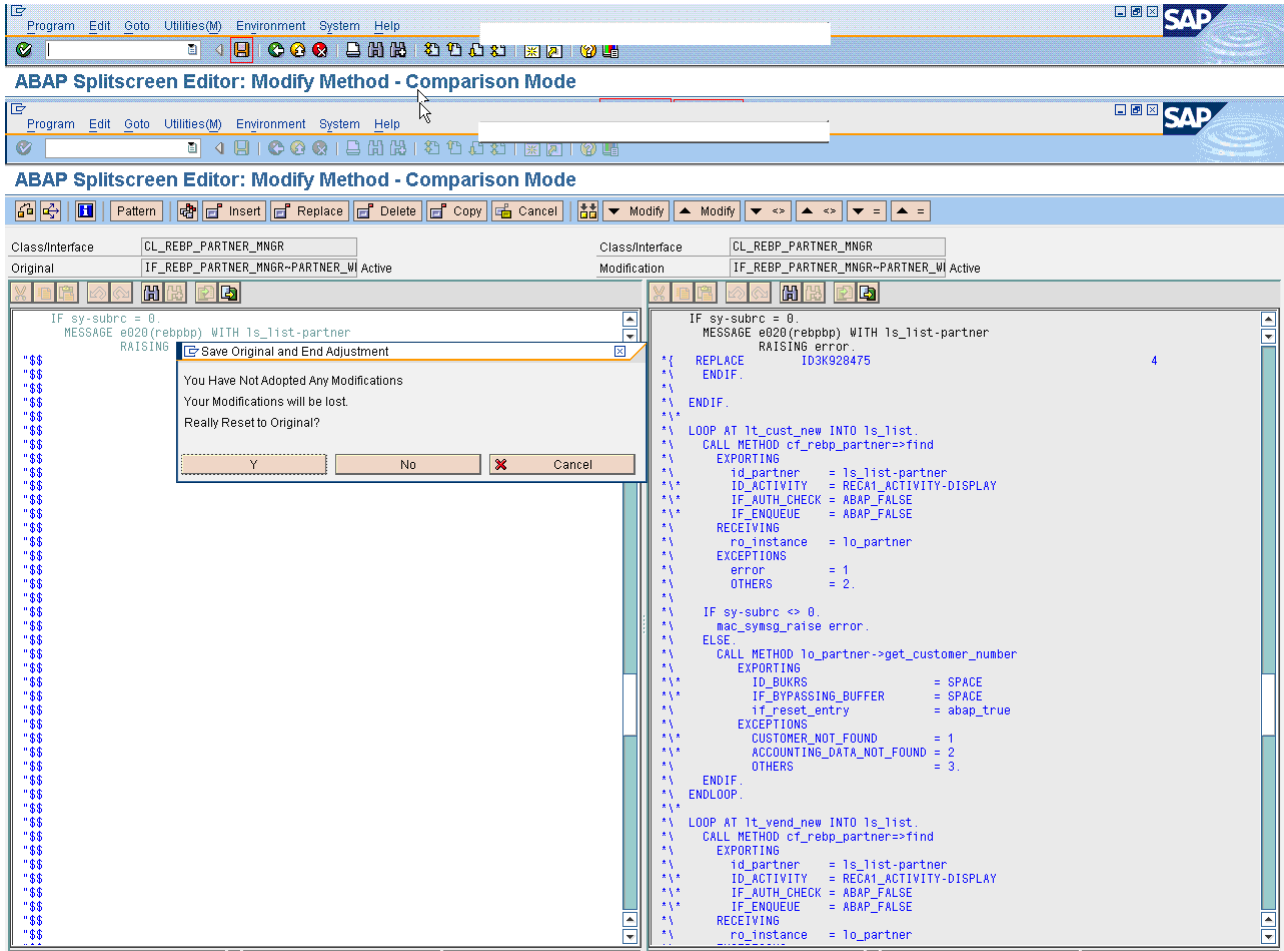
Use the two tabs to browse through the differences between the programs.

Now let's see how to deal with the changes shown in the above screenshot.

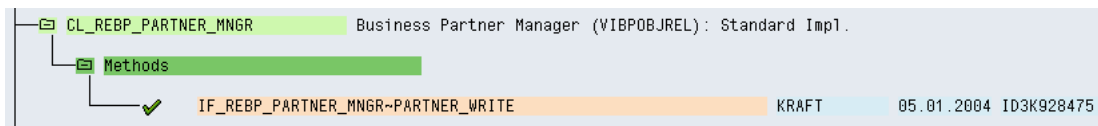
Do not accept the modifications:

The highlighted line in the screenshot shows that line no 219 in the SAP standard (left) is "***\$" whereas the same line in the modified code (right) is "{ REPLACE ID3K928475". But in this case we see that the line on the right i.e. the modification is commented out because of the "*" in the beginning of the line. Hence in this case it would be recommended to bring in the SAP standard and discard the modifications (which are commented anyways). Use the "Next Modification" tab to browse to further changes and decide accordingly if the modifications are required.


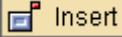
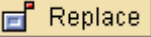
It would be necessary to analyze each and every difference between the codes. Once done, press the “Save” button and you will be prompted with a dialog box stating that No modifications have been adopted.

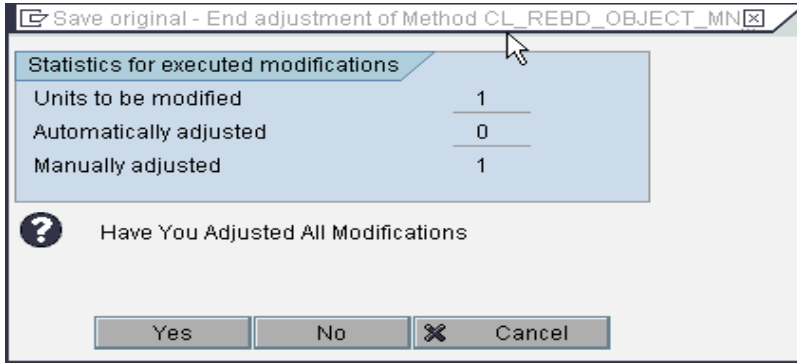


Pressing “Y” will reset the object to original SAP standard code. In case any modifications have been adopted; the screen will be shown accordingly. Next press the “Back” button and you get the message “Adjustment for the Method using Modification Assistant is finished”.



Accepting the modifications:

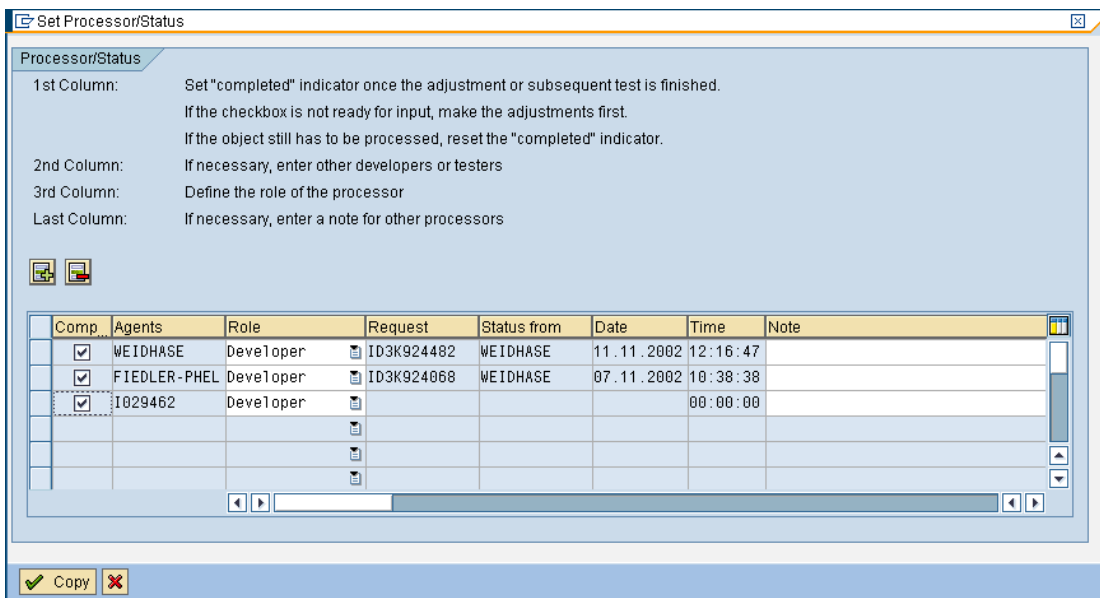
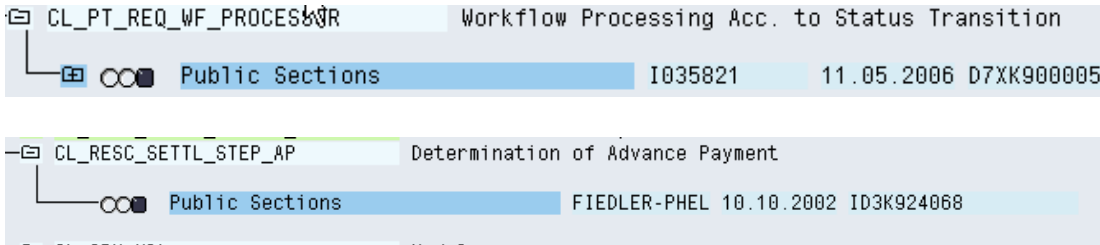
In special cases, if the modifications have to be brought in, position the cursor on the modifications block and click on  **Copy** tab which would then copy the modification to the buffer. Next place the cursor where you need the modification to be inserted/replaced on the left split screen. Press the  **Insert** or  **Replace** tab to bring in the modifications. On saving the dialog shows the manual modifications made:



Click on "Yes" to accept the changes.

Note: Please note that modifications should be brought in manually only if absolutely necessary, because this would be deviating from the SAP standard.


Case 2 :



In these cases, the above popup shows all the user ids which have tried changing the object in question. In this case each of the users needs to confirm that his/her changes manually by checking the completed check box. Once done clicking the copy button makes the modification complete automatically.

Case 3:

CL_FOPC_UI_SCHEDULE_CENTRAL	Central	Scheduling
Protected Sections	I032649	25.08.2005 C3TK900875
Private Sections	I032649	25.08.2005 C3TK900875

In this case clicking on the  button gives the following popup where you can either accept or reject the modifications:

Accept Modification ✖

A method has been modified:
Should the modifications be saved?

	Original(new)	Modification
Component	WORKFLOW_DELETE	WORKFLOW_DELETE
Visibility	Public	Protected
Type	Static	Instance-spec
Final	<input type="checkbox"/>	<input type="checkbox"/>
Abstract	<input type="checkbox"/>	<input type="checkbox"/>
Exception Classes	<input type="checkbox"/>	<input type="checkbox"/>

To decide whether to accept or reject the changes, see the description for the Request C3TK900875 in se03.

Requests (Free Selection)


- [-] Released
 - [-] Workbench Workbench request
 - [-] C3TK900874 ✓ I032649 Note 862131 CSN Message: 2214587
 - [-] C3TK900875 ✓ I032649 Repair
 - [-] Object List of Request
 - [-] Request Attributes

[Note 862131](#) is valid for FINBASIS 300 SP10 i.e. SAPK-30010INFINBASIS.

Now open the Version Management for the protected section of the respective class:

Versions: Protected Header (ABAP Objects) CL_FOPC_UI_SCHEDULE_CENTRAL										
Version	Cat	Fla	SAP	Rel.	Arch	Request	Project	Date	Time	Author
Version(s) in the development database:										
<input type="checkbox"/>	activ		X	640		D7XK900164		27.10.2005	12:51:49	SAP
Version(s) in the version database:										
<input checked="" type="checkbox"/>	00003	I		640		SAPK-30010INFINBASIS		27.10.2005	12:52:55	SAPUSER
<input checked="" type="checkbox"/>	00002			640		C3TK900074		27.10.2005	12:34:12	I032649
<input type="checkbox"/>	00001	S	X	640				00.00.0000	00:00:00	

We see that the last change was brought in by Finbasis 300 SP10. This suggests that the note corrections/modifications should already be in the system. Thus, choose the reject modification option in the popup to complete the modification adjustment.

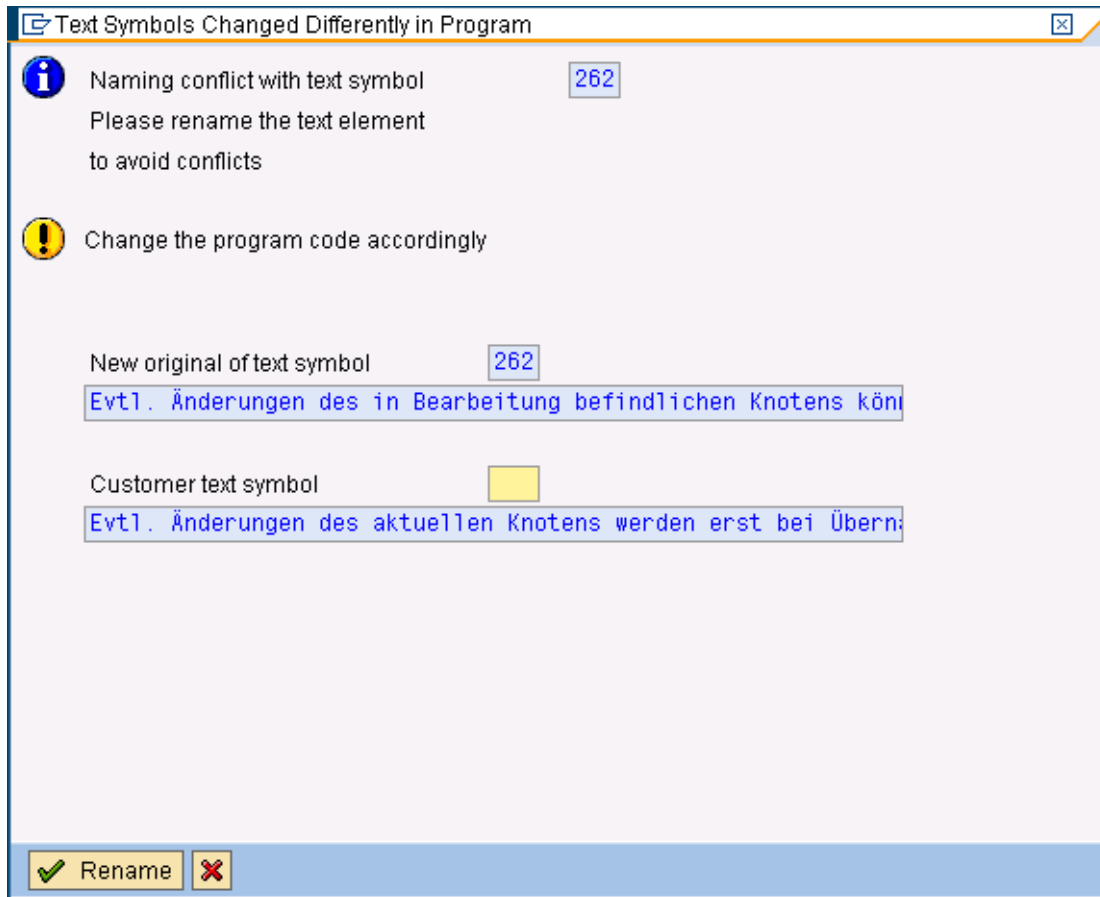
Or, you can select the particular object and select reset to original tab  from the toolbar options to reject all the modifications.

Case 4:

CL_SRM_SP_BDV	BDV: Basis Class
Program Texts	KOHLSTETTERV 23.08.2002 ID3K923605
Methods	

Clicking on the adjustment symbol opens a prompt as shown in the screenshot below. The problem here is that the request ID3K923606 where the text element might have been added to the class. Now, when the Support package containing the Note tries to add the same text element again, conflict arises as the element is already available.

In this case, reset the object to Original or else SPAU will prompt to rename the program text due to insertion of duplication text elements to the class as shown below.



As it would not be suitable to add a new entry by renaming the text symbol and then deleting it again to bring back the consistency, it is recommended to reset the object to Original.

Adjusting Objects Modified without Modification Assistant

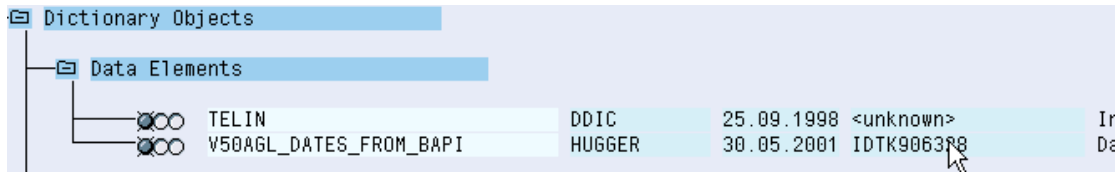
For adjusting the objects modified without modification assistant, the Version Management tool is very useful. Most changes made without the Modification Assistant record the change through a Transport Request.

Using the Transport Organizer tool, find the request description and why the change was recorded. If it corresponds to a Note, check if the note is still valid for the system.

If the Note belongs to a earlier Support Package than available in the system, Reset the object to Original.

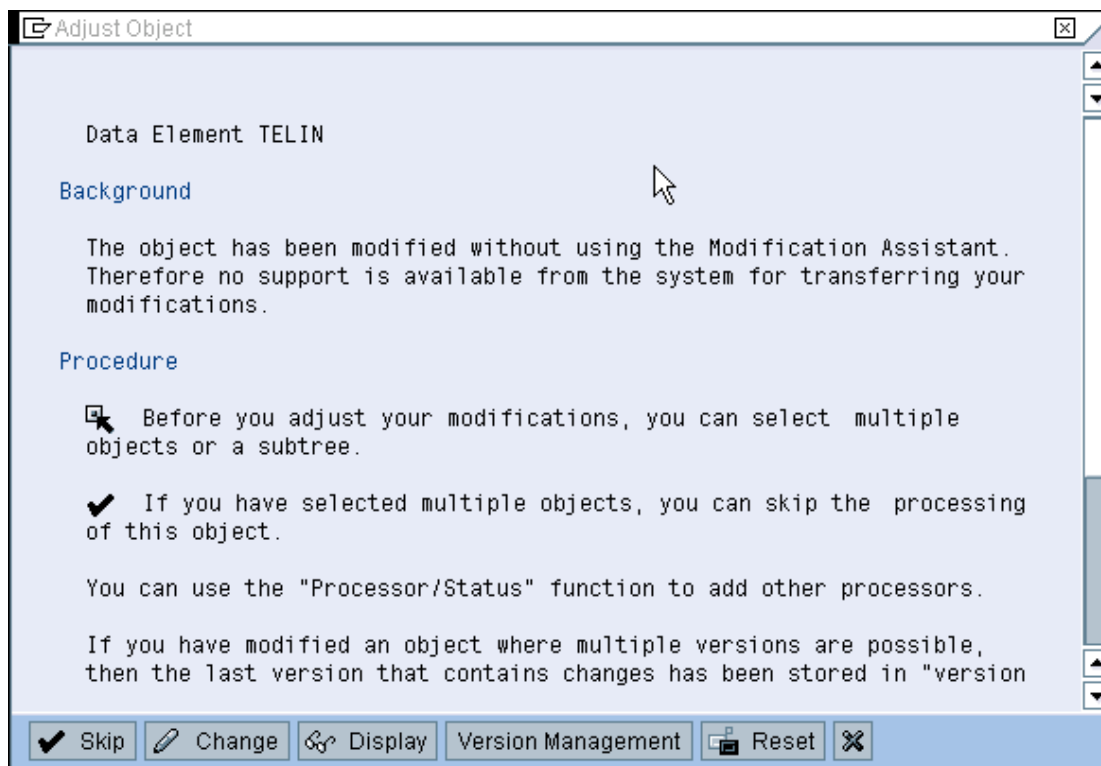
Some of cases mentioned below will explain the procedure:


Case 1:




Object Name	Processor	Created On	Created By	Version	Status
TELIN	DDIC	25.09.1998	<unknown>		Ir
V50AGL_DATES_FROM_BAPI	HUGGER	30.05.2001	IDTK906388		Ds

First, we adjust the element TELIN. The following prompt is displayed:



Click on Version Management and all the stored versions of the data element are shown along with the active version. Select any two versions and click on  to compare the versions. It shows any differences, if any between the two. For example if we compare the active version and version 4 of the above object we get 2 differences as in the screenshot.

Version Display/Comparison of Data Elements


Delta display Single/Double Column  Field catalog

Object Name	Version	Request	Date	Author
TELIN	Activ		25.03.2007	SAP
TELIN	00004	SAPKE47019	08.09.2003	SAPUSER

General Attributes

Data element	TELIN
Short Text	In-House Telephone Number
Type cat.	Domain
Domain name	CHAR5
Name of Ref. Type	
Parameter ID	
Change document	<input type="checkbox"/>
Maintain FLs	<input checked="" type="checkbox"/>
ShortFieldLabelLen	10
Short field label	InHouseTel
Short field label	In.Tel.No.
Med.FieldLabelLen.	15
Medium Field Label	In-House TelNo.
Medium Field Label	In-House No.
LongFieldLabelLen.	20
Long field label	In-House Tel.Number

We see that the older version corresponds to request SAPKE47019 or SAP_APPL 470 SP19. Checking the system status shows that SAP_APPL 500 SP25 is installed on the system. Hence in this case we can reject all the old changes (as they would have already come with the latest SP) and reset the object to original.

Hence in the Modification prompt select  Reset.

Case 2:

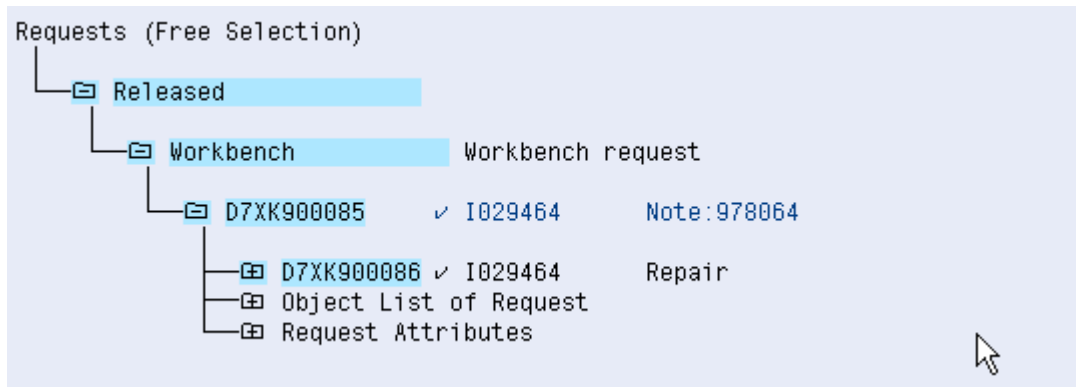


The screenshot shows a tree view with 'Database Tables' and 'Structures' expanded. Under 'Structures', there is a folder for '/OSP/S_REPCHKSUM_INFO' with the description 'OSP : Report Checksum BKT details'. Below this folder, a table lists 'Structure Fields' with the following details:

Structure Fields	I029464	26.09.2006	D7XK900085
------------------	---------	------------	------------

This would be the most usual type of adjustment to be made wherein the inconsistency occurs due to the application of a Note.

In the above screenshot, first check the description of the request D7XK900085 using the Transport Tools. In this case its repair in [Note 978064](#).



On opening Note 978064 we see that component RFC_DEST has been added to the structure manually. Also we note that the Note is a part of SAP BASIS 640 SP19 which is currently installed on the system. This means that the modifications would also have come through the SP import hence requiring adjustment to the manual changes. To check if both the manually changed version and version generated by SP import are consistent, we use the Version Management tool.

Versions: Table Definition /OSP/S_REPCHKSUM_INFO

Version	Cat	Fla	SAP Rel.	Arch	Request	Project	Date	Time	Author
Version(s) in the development database:									
<input checked="" type="checkbox"/>	activ		X		640		26.12.2006	08:02:09	SAP
Version(s) in the version database:									
<input type="checkbox"/>	00003	I			640	SAPKB64019	26.12.2006	08:00:01	SAPUSER
<input type="checkbox"/>	00002				640	D7XK900085	26.09.2006	09:14:43	I029464
<input type="checkbox"/>	00001	S	X		640		00.00.0000	00:00:00	

Here select the Version 3 and Version 2, former request from SP Import and latter from the Note applied manually. Comparing them shows no inconsistencies.

Object Name	Version	Request	Date	Author	Object Name	Version	Request
/OSP/S_REPCHKSUM_INFO	00003	SAPKB64019	26.12.2006	SAPUSER	/OSP/S_REPCHKSUM_INFO	00002	D7XK900

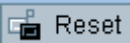
General Attributes:
Unchanged

Field Name	Data element	Check table	N	DType	Lngh	Group	Ref.Type (Coded)	PrUsage	TL	Field Name	Data element
SAPID	/OSP/DT_SAPID		<input type="checkbox"/>	CHAR	32					SAPID	/OSP/DT_SAPID
USERID	XUBNAME		<input type="checkbox"/>	CHAR	12					USERID	XUBNAME
CHKSUM	/OSP/DT_MD5		<input type="checkbox"/>	NUMC	255					CHKSUM	/OSP/DT_MD5
REPORT	/OSP/DT_PROGNAME		<input type="checkbox"/>	CHAR	40					REPORT	/OSP/DT_PROGNAME
REP_SRC_SYSTYPE	/OSP/DT_SYSTYPE		<input type="checkbox"/>	CHAR	50					REP_SRC_SYSTYPE	/OSP/DT_SYSTYPE
BW_RP_TYPE	/OSP/DT_RP_BW_TYP		<input type="checkbox"/>	CHAR	2					BW_RP_TYPE	/OSP/DT_RP_BW_TYP
RFCDEST	/OSP/DT_RFCDEST		<input type="checkbox"/>	CHAR	32					RFCDEST	/OSP/DT_RFCDEST
DEL_FLAG	/OSP/DT_FLAG		<input type="checkbox"/>	CHAR	1					DEL_FLAG	/OSP/DT_FLAG
SCENARIO	/OSP/DT_REPSCENARIO		<input type="checkbox"/>	CHAR	255					SCENARIO	/OSP/DT_REPSCENAR
SUB_SCENARIO	/OSP/DT_SUBSCENARIO		<input type="checkbox"/>	CHAR	4					SUB_SCENARIO	/OSP/DT_SUBSCENAR
CREATED_BY	/OSP/DT_AS4USER		<input type="checkbox"/>	CHAR	12					CREATED_BY	/OSP/DT_AS4USER
CREATED_ON	/OSP/DT_TIMESTAMP		<input type="checkbox"/>	CHAR	14					CREATED_ON	/OSP/DT_TIMESTAMP
MODIFIED_BY	/OSP/DT_AS4USER		<input type="checkbox"/>	CHAR	12					MODIFIED_BY	/OSP/DT_AS4USER
MODIFIED_ON	/OSP/DT_TIMESTAMP		<input type="checkbox"/>	CHAR	14					MODIFIED_ON	/OSP/DT_TIMESTAMP
CATALOG_ID	/OSP/DT_CATALOG_ID		<input type="checkbox"/>	CHAR	255					CATALOG_ID	/OSP/DT_CATALOG_I







And further scrolling

Fields
Unchanged

Now comparing the Version 4 and active version gives the same result. Thus now we can Reset the object to original. In this case doing this means that the content brought in by the latest SP will be active. The note changes will not be lost because the note changes are being brought in by the BASIS SP19 itself.

Complete the SPAU adjustment using the  Reset tab. You can verify if the changes brought in by Note 978064 still exist by checking in SE11 tcode for the structure /OSP/S_REPCHKSUM_INFO. The added component exists.

Case 3:

Search Helps			
	COOPC_ITEM	OPC: Namespace Browsing as Search Help	
	COOPC_ITEMLIST	OPC: Search Help for Item Alias List	
	COOPC_SERVER	OPC: OPC Server Browsing as Search Help	
	COOPC_SERVERLIST	OPC: Search Help for Server Alias List	
	Created/Generated	SCHMIDTMA	15.09.2000 T04K900063
	Search Help Fields	SCHMIDTMA	15.09.2000 T04K900063

Take the search help adjustment as one more example. Here on modifying the object, use the Version Management Tool again.

Versions: Search Help Definition COOPC_SERVERLIST										
Version	Cat	Fla	SAP	Rel.	Arch	Request	Project	Date	Time	Author
Version(s) in the development database:										
<input checked="" type="checkbox"/>	activ		X	640				25.01.2002	12:31:55	SAP
Version(s) in the version database:										
<input type="checkbox"/>	00005	I		640		UPGRADE640		04.05.2004	19:55:21	SAPUSER
<input type="checkbox"/>	00004	I		620		UPGRADE620		15.11.2003	15:06:14	SAPUSER
<input type="checkbox"/>	00003	S		620		T04K900063		00.00.0000	00:00:00	
<input type="checkbox"/>	00002	I		620		UPGRADE620		14.08.2002	12:04:47	SAPUSER
<input type="checkbox"/>	00001	S		46C		T04K900063		00.00.0000	00:00:00	

Compare the Active version and the version creating the issue i.e. Version 4. On comparing we see there are no differences between the 2 versions.

Object Name	Version	Request	Date	Author	Object Name	Version	Request											
COOPC_SERVERLIST	Activ		25.01.2002	SAP	COOPC_SERVERLIST	00003	T04K900											
Elem. src. help	COOPC_SERVERLIST		COOPC_SERVERLIST															
Short text	OPC: Search Help for Server Alias List		OPC: Search Help for Server Alias List															
Selection method	TCOOPC_SERVER		TCOOPC_SERVER															
Text table	TCOOPC_SERVERT		TCOOPC_SERVERT															
Search help exit	F4IF_SHLP_EXIT_COOPC_SERVRLIST		F4IF_SHLP_EXIT_COOPC_SERVRLIST															
Hot key																		
Dialog type	Dialog depends on set of values		Dialog depends on set of values															
Attribute Unchanged																		
Parameter																		
Src. hlp. pr	IMP	EXP	LPos	SPos	SDIs	Data element	Mod	Default	Src. hlp. pr	IMP	EXP	LPos	SPos	SDIs	Data element	Mod	Default	
PLANT	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	WERKS_D	<input type="checkbox"/>		=	PLANT	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	WERKS_D	<input type="checkbox"/>	
SERVERALIAS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>	COOPC_SERVERALIAS	<input type="checkbox"/>		=	SERVERALIAS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	1	<input type="checkbox"/>	COOPC_SERVERALIAS	<input type="checkbox"/>	
SERVERDESCR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	<input type="checkbox"/>	COOPC_SERVERTXT	<input type="checkbox"/>		=	SERVERDESCR	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	<input type="checkbox"/>	COOPC_SERVERTXT	<input type="checkbox"/>	
Parameter Unchanged																		

Hence now in the modification adjustment, choose **All entries adjusted** tab to complete the adjustment.

Thus we see for most of the adjustment for objects modified without the Modification Assistant, Version Management and the Transport Organizer tools play a very important role for analyzing the adjustment action.

Summary

As SPAU Adjustment is originally intended to allow the customer to overwrite the SAP delivered standard with his own modifications, this is highly risky and should be carried only after consulting the functional and technical experts at the customer location responsible for the system.

Also the above would not fully reflect the complete scenarios and possibilities that might occur during the SPAU adjustment. This tries to give a brief overview on how to start SPAU adjustment and more experience would definitely help in identifying better ways of executing SPAU adjustments.

In case of any confusion whatsoever, please consult colleagues or get in touch with SAP Support to complete the SPAU adjustment.

Further suggestions for improvements to this document are highly welcome and would help in understanding SPAU better.

Note: Please ensure that a valid backup exists for the system before starting any SPAU related activities.

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