

NOTE AUGUST 2008

Change documents

SAP® provides different techniques to fulfil the legal requirements related to change history. One is the [logging of table changes](#) ; another technique is realised with the help of change documents.

Change documents only keep track of changes. Tracking the creation of data records is not part of it. The change documents are controlled via so-called change document objects. These objects are administrated via transaction **SCDO**.

Change Document Objects: Overview

Change		Create	Generate update pgm.	Generation info
Object	Text			
BELEG	BELEG			
BELEGD	BELEGD			
BELEGM	BELEGM			

Exhibit: SCDO - object overview

For each available object, SAP® has defined the corresponding tables for which change documents are supposed to be created.

Change Document Object: Change

Generation info				
Object	BELEG			
Text	BELEG			
Tables				
Name of Table	Copy as internal tab.	Doc. for individual fields at delete	Name of Ref. tab.	Name of old field string
BKDF	<input type="checkbox"/>	<input type="checkbox"/>		
BKPF	<input type="checkbox"/>	<input type="checkbox"/>		
BSEC	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
BSED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	XF05L	
BSEG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	XF05L	
BSEG_ADD	<input checked="" type="checkbox"/>	<input type="checkbox"/>	XF05L	
BSET	<input checked="" type="checkbox"/>	<input type="checkbox"/>	XF05L	

Exhibit: SCDO - object – table reference overview

The change document objects are stored in the table **TCDOB** together with the individual table assignments.

Display of Entries Found

Table to be searched				
TCDOB		Objects for change document creation		
Number of hits		7		
Runtime		00:00:01	Maximum no. of hits	
		500		
Object	Table Name	F	D	Table Text
BELEG	BKDF			
BELEG	BKPF			
BELEG	BSEC	X		
BELEG	BSED	X	XF05L	
BELEG	BSEG	X	XF05L	
BELEG	BSEG_ADD	X	XF05L	
BELEG	BSET	X	XF05L	

Exhibit: TCDOB - object – table reference overview

One of the main differences is that only especially selected fields are part of the change history whereas table logging always includes all fields.

Another pretty handy transaction to identify the applied logging technique for a table is the transaction **AUT01 [Maintain] /AUT03 [Display]**.

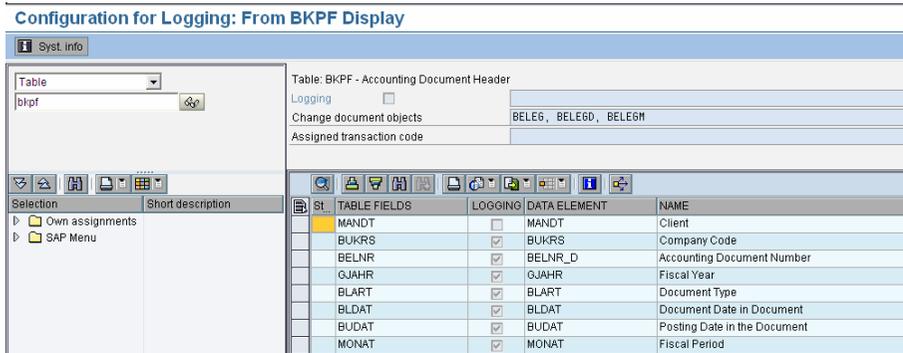


Exhibit: AUT01 – table example BKPF

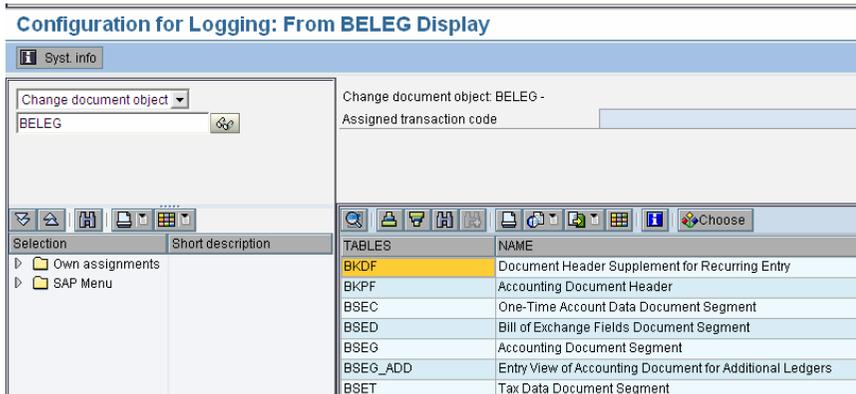


Exhibit: AUT01 – Object BELEG

Here you can also check what kind of logging is provided for tables, change document objects or even transactions.

The change document information is stored in tables again. The table **CDHDR** has the change document header information whereas the table **CDPOS** has the item information. The change document number is part of the object id **OBJKTID** [Object value] in case you have to search for a special document.

The reports **RSSCD100** provides an overview of change documents, and the report **RSSCD150** the detail view.

The report **RSSCD110** allows even cross-client evaluation of change documents.

The deletion of change documents is only allowed during the retention period, if a full back of the complete change history is available at any time that provides the all information.

Therefore the authorization on the object **S_SCD0** with activity 06 may only be available through an emergency user in a production environment. The deletion report **RSCDOK99** should also get special attention by protecting the report with a special authorization group.

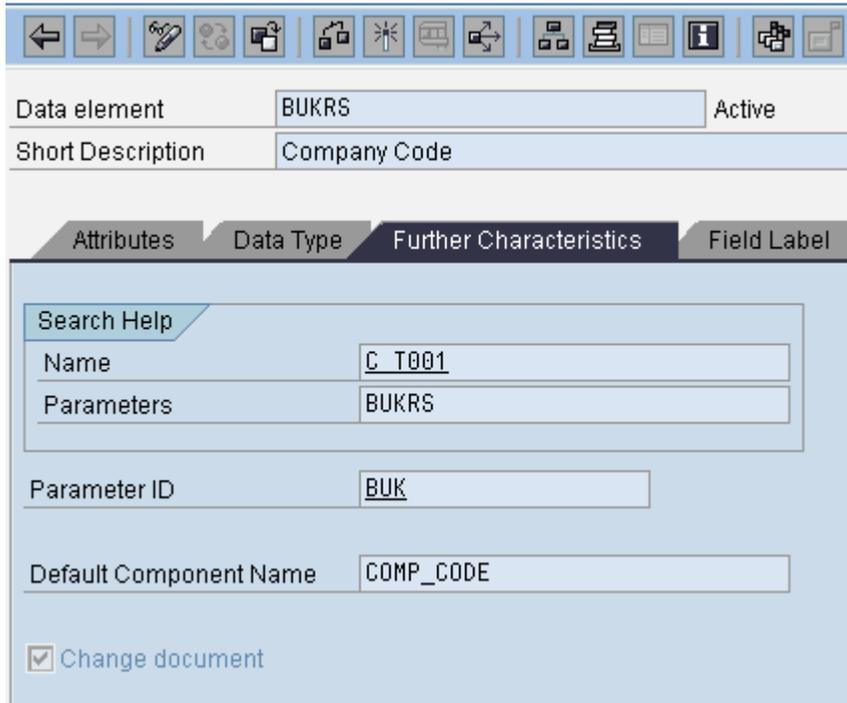
Changes to change document objects are logged with the help of the change document object **AENDBELEG** and should usually not occur.

Creation / Change of change document objects - Overview

Change document object are created within transaction **SCDO**.

The field selection maintenance for the logging is executed via transaction **SE11**. Within the data element maintenance you can activate the change document attribute.

Dictionary: Display Data Element



Data element: **BUKRS** Active
 Short Description: Company Code

Attributes | Data Type | **Further Characteristics** | Field Label

Search Help
 Name: **C T001**
 Parameters: **BUKRS**

Parameter ID: **BUK**

Default Component Name: **COMP_CODE**

Change document

Exhibit: Change document indicator

Change document object needs to be generated as part of the creation process. With that a function module is created that leads the required logging information in the source code. The individual function modules need to be integrated into any ABAP/® program that is involved in table updates. The above steps are covered for all SAP® standard change document objects of course, and only need to be executed for customer specific developments or changes to standards which can generally not be recommended.

After setting the indicator you need to go back to transaction **SCDO**,

and execute **Generate update pgm.**

The individual function modules are listed in the generating info within **SCDO** for every change document object:

Change Document Object: Generation Information				
Change documents: Display information about generated sources				
Change doc. object: BELEG				
Generation on: 24.12.2006 23:40:04				
of: DDIC				
Include programs and function modules				
Data declaration, TOP	FF0SLCDT			
Consisting of	FF0SLCDF			
and	FF0SLCDV			
Update function module	BELEG_WRITE_DOCUMENT			
Call update function module	FF0SLCDD			
Dictionary structures				
FBSEC	FBSED	FBSEG	FBSEG_ADD	FBSET

Exhibit: function modules