Note Language: English   **Version: 8 Validity:**   Valid Since 08.10.2010

Summary

Symptom
This note contains general information about using redundancy avoidance in Easy Access

Other terms
Easy Access, CONDENSE_MENU, SORT_USER_MENU, user menu, Signal 11
Program termination, short dump, activity group, role, SSM_CUST
Performance, workplace

Reason and Prerequisites
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Solution

Redundancy avoidance in the Easy Access menu

Contents:

1. General notes about the functions of redundancy avoidance
2. How to use redundancy avoidance
3. Known problems when using redundancy avoidance
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1. General notes about the functions of redundancy avoidance

In the Easy Access menu, you can split redundancy avoidance into two parts.
In the first step, you can remove global redundancies at menu level. This
means that transactions that exist more than once are removed. You cannot
determine the position in which the transaction remains.

```
     Example:



     Root

        |- Activity group 1

        |          |-- Folder 1

        |          |        |-- Transaction SM04

        |          |-- Folder 2

        |                   |-- Transaction SU01

        |

        |- Activity group 2
```

```
                        |-- Folder 3

                        |       |-- Transaction SP01

                        |-- Folder 4

                                |-- Transaction SM04
```

In this example, transaction SM04 exists twice. The system removes the
second instance. As a result, folder 4 is empty and, therefore, the system
also removes it.

The system then displays only

     o   Activity group 1 -> Folder 1

     o   Activity group 1 -> Folder 2

     o   Activity group 2 -> Folder 3

In the second step, you can remove redundancies in texts, as described in
the following example:

Display without redundancy avoidance

     o   The setting "Show first level" is deactivated.

     o   You assigned two single activity groups, each of which contains a
         part of the SAP standard menu.

```
        Root

          |-- Logistics

          |       |-- Materials management

          |               |-- Purchasing

          |                       |-- Purchase order

          |                               |-- Display

          |-- Office

          |       |

          |       |-- Work center

          |-- Logistics

          |       |-- Materials management

          |               |-- Purchasing
```

```
                |            |-- Purchase order

                |                       |-- Change

                |                       |-- Release

                |-- Human resources

                       |

                       |-- Manager's desktop
```

When redundancy avoidance is activated, the system groups identical paths, resulting in the following display:

```
        Root

        |-- Logistics

        |       |-- Materials management

        |               |-- Purchasing

        |                       |-- Purchase order

        |                               |-- Display

        |                               |-- Change

        |                               |-- Release

        |-- Office

        |       |-- Work center

        |-- Human resources

                |-- Manager's desktop
```

The system adds the transactions "Change purchase order" and "Release purchase order" to the existing path using the algorithm. The system then removes the folders that are empty as a result of this action.
However, the system can summarize only if the complete path is identical, starting from the root node.
Redundancy avoidance takes only the long texts into account, regardless of the elements behind them.

For example, the following constellation may cause errors:

-   Transaction 1: FB70 Accounting -> Financial Accounting -> Customers -> Posting -> Invoice

-   Transaction 2: FB60 Accounting -> Financial Accounting -> Vendors -> Posting -> Invoice

o   Activity group 1

Root

  |-- Folder 1

     |-- Invoice   (transaction FB70)

o   Activity group 2

Root

  |-- Folder 1

     |-- Invoice   (transaction FB60)

-   Assigning both activity groups to one user

In this case, the system groups the invoice entries, because the complete path that leads to the relevant entry is identical:

Root -> Folder 1 -> Invoice

In this case, the system does not determine that there are two different entries.

2. How to use redundancy avoidance

o   Avoiding redundancy: Switch CONDENSE_MENU

Table: SSM_CUST

ID: CONDENSE_MENU

PATH: YES or NO

Default value: NO

Redundancy avoidance is deactivated.

Effect if YES is set:

Redundancy avoidance is activated.

o   Sorting the menu entries: Switch SORT_USER_MENU

Prerequisite: Redundancy avoidance is activated.

        Table: SSM_CUST

        ID: SORT_USER_MENU

        PATH: YES or NO

Default value: NO

        The menu nodes are not sorted.

        Effect if YES is set:

-   The system sorts the menu options alphabetically, irrespective
    of their type (folder, transaction, ..).

-   As a result, transactions and folders may be mixed in the
    sequence.

        Example:

          Root

            |-- AAAAAAAA (transaction)

            |-- DDDDDDDD (transaction)

            |-- FFFFFFFF (folder)

            | |-- BBBBBBBB (transaction)

            | |-- GGGGGGGG (transaction)

            | |-- JJJJJJJJ (transaction)

            | |-- ZZZZZZZZ (transaction)

            |-- WWWWWWWW (transaction)

            ...

    o Deleting duplicate transactions in all activity groups and roles:
       Switch DELETE_DOUBLE_TCODES

        Table: SSM_CUST

        ID: DELETE_DOUBLE_TCODES

        PATH: YES or NO

The effect of the switch depends on whether Note 1246860 is already implemented in your system.

- Original effect (Note 1246860 has not yet been implemented)

    The switches DELETE_DOUBLE_TCODES and CONDENSE_MENU are linked. DELETE_DOUBLE_TCODES works only if CONDENSE_MENU is also activated.

    Default value: YES

    Effect if YES is set: Duplicate transactions are then removed from all activity groups or roles even if the redundancy avoidance is also activated.

    Effect if NO is set: Duplicate transactions are not removed. In this case, it does not matter whether the redundancy avoidance is activated.

- Effect after Note 1246860 has been implemented

    The switches DELETE_DOUBLE_TCODES and CONDENSE_MENU are no longer linked. DELETE_DOUBLE_TCODES functions independently of CONDENSE_MENU.

    Default value: NO

    Effect if YES is set: Duplicate transactions are removed.

    Effect if NO is set: Duplicate transactions are not removed.

    The effect is no longer influenced by whether the redundancy avoidance is activated.

3. Known problems when using redundancy avoidance

(a) Easy Access runtimes are long when redundancy avoidance is activated.

If the user menus are large, Easy Access may have a log runtime. The size of the user menu should not exceed 2000 nodes.

Tasks:

1. In the table SSM_CUST, check whether node sorting is active
(SORT_USER_MENU = YES). Deactivate this parameter.

2. Check how many entries your user menu contains. If required,
reduce the number of entries.

(b) If redundancy avoidance is activated, Easy Access terminates
during logon.

In Release 4.6B and 4.6C, the Easy Access menu may terminate
during logon if redundancy avoidance and user menu sorting are
active. The work process is restarted with signal 11.

This is an error in the ABAP kernel.

Tasks:

1. In the table SSM_CUST, deactivate user menu sorting. The
termination occurs when the system sorts an internal table.

2. If you are using Release 4.6B or 4.6C, import a 4.6D kernel.
This kernel is downward-compatible.

You can find the correction instructions for the kernel patch
in Note 19466 "Downloading SAP kernel patches" and Note 318846
"Installing 4.6D R/3 kernel in 4.6A/B/C SAP Systems".

(c) Missing folders when redundancy avoidance is activated

When redundancy avoidance is activated, menu paths may
disappear when you assign several activity groups or roles to a
user. This occurs if transactions exist more than once in
different activity groups or roles. As standard, the system
removes the transactions that occur more than once. The system
also removes the folders that become empty as a result of this
process.

Tasks:

Note 357877 describes an enhancement that enables you to
deactivate the removal of redundant transactions when
redundancy avoidance is activated. Check that you have
installed the relevant Support Package and that you have set
the relevant parameters in the table SSM_CUST.

4. Supplements to this note

Listed below are certain situations that occurred
when processing customer messages for redundancy avoidance.

o (a) Redundancy avoidance is generally deactivated in the workplace.

This is because the names of the roles are displayed in the first
level of the workplace.

Since redundant information differs with respect to these role
names, they are not filtered out if redundancy avoidance is
activated.

In Easy Access, you can also deactivate redundancy avoidance by
activating the setting "Show first level". You can activate this
setting in Easy Access by choosing "Extras -> Settings".

o Note 1246860 provides a detailed description of the contexts when
setting up user menus.

Header Data

Release Status: Released for Customer
Released on: 08.10.2010   12:47:28
Master Language: German
Priority: Recommendations/additional info
Category: Consulting
Primary Component: BC-DWB-SEM Session Manager

Secondary Components:

                        BC-SEC-AUT-PFC ABAP Authorization and Role
                        Administration
                        WP-WSR Workplace Server

Valid Releases

Software Component	Release	From Release	To Release	and Subsequent
SAP_APPL	46	46A	46B	
SAP_APPL	46C	46C	46C	X
SAP_APPL	470	470	470	
SAP_BASIS	46	46D	46D	
SAP_BASIS	60	610	640	

Software Component	Release	From Release	To Release	and Subsequent
SAP_BASIS	70	700	702	X
SAP_BASIS	71	710	720	X

Related Notes

Number	Short Text
1485848	OBN Failure with NWBC v1.0 during navigation to transaction
1459115	User menu: Displaying empty folders
1246860	Displaying entries in user menu
870026	Menu entries are missing in compressed user menu
772904	Duplicate entries in SUS menu
451960	Audit Information System (AIS), Role concept
380029	FAQ| SAP Easy Access Customizing
357877	Easy Access: Removing duplicate transactions
334993	Easy Access: avoiding redundancy with large menus
322853	Effectiveness of multiple profiles in user menu
321965	Easy Access: Redundancy avoidance
318846	Installing the 4.6D kernel in 4.6A/B/C SAP systems
203994	Changed behavior: user menus in 4.6
19466	Downloading SAP kernel patches