Simple ABAP/4 for trouble shooting

Update terminate

Update terminate: Message/SAP internal mail will be sent to the transaction owner, either Error message Or ABAP runtime error (short dump) might be created.

Analyzing the error

Go to transaction code SM13 to analyze the update error.

(Or Select *Tools --> Administration --> Monitoring --> Update*)

Go to detail in update modules, You will get the following information:

Where the error occurred: Program name, function module, line number and error text. (go to ABAP short dump Or Editor to locate the position)

Why the error occurred:

Type of ABAP object

In Workbench organizer, there are several ABAP objects which are transportable

Object In Transport request contain the following key

Object list				
PgmID	Obj	Object name	Funct.	ObjStatus
LIMU	REPS	ZSULIC01		

PgmID: Program Id in request and task, normally there are 2 types for ABAP objects

       R3TR - name for R/3 Repository objects and Customizing objects

       LIMU - enables transport of R/3 Repository object components

Obj: Object type (for example, DOMA, DTEL, FORM, PROG..)

Object name:

       Name of the each object

Funct.:   Function D,K,M

ObjStatus: LOCKED,ERR_IMP,OK_IMP and OK_GEN

Version management

serves different purposes and user groups:

- The developer can keep track of his or her work ("What have I changed?")

- The developer can restore a previous version by reactivating it.

- The system administrator can monitor work ("Which objects were changed and how were they changed in a specific time interval?")

- It provides the basis for the auditor, who requires a complete history of changes.

- It enables customers to adjust data with the help of the system after upgrading to a new Release.

ABAP object Version compare

ABAP program

      Transaction code SE38, Under menu Utilities-->Version management

Function module

      Transaction code SE37, Under menu Utilities-->Version management

Data Dictionary

      Transaction code SE11, Under menu Utilities-->Version management

Object Browser

      Transaction code SE80, Go to specific object and under menu utilities, Version management

Workbench Organization

      Transaction code SE09, under menu Environment

ABAP object Version compare

From Version management, you can

1. Display the object in other version

2. Compare the object in 2 versions

3. Retrieve the content of older version

4. Remote compare with another system

5. Display Transport Request

Content

Introduction R/3 Basis system overview

ABAP/4 overview

Component, Program, ABAP dictionary, Function Module , Message/Transaction code, etc.

Common Statement / Command

- Main event in ABAP program

- General ABAP command

Transportation for ABAP objects

Type of problem and how to investigate

Program bug, ABAP runtime error, Update terminate, Unexpected error message.

Type of problems

ABAP Runtime Error

Cause: Program error, system exception, database process error, etc.

Using transaction code ST22 to analyze error.

Unexpected message

Update Terminate

Cause: Update module can not be completed

Program bug

Cause: Written code is not correct

ABAP Runtime error - Analysis

ABAP Runtime Errors

Error ID

ABAP runtime errors	LOAD_PROGRAM_LOST
Occurred on	01.07.2003 at 16:53:59

Date and time

>> Short dump has not been completely stored. It is too big.

ABAP dump analysis sections

1	What happened?
2	What can you do?
3	Error analysis
4	How to correct the error
5	System environment
6	User, transaction...
7	Information on where termination occurred
8	Contents of system fields
9	Chosen variables
10	Active calls / events
11	Internal notes
12	Active calls in SAP kernel
13	List of ABAP programs affected
14	List of internal tables
15	Directory of application tables (contents)
16	Directory of data areas (administration information)
17	Directory of data areas (contents)
18	ABAP control blocks CONT
19	End of runtime analysis

Double click to display detail