

TTSE33A

Lesson 1: Introduction

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Agenda

- Introduction to ABAP
- The use of ABAP in SAP systems
- Development prerequisites
- First program ,Hello World!' + Exercise
- Online help for ABAP



What is ABAP?

- ABAP = Advanced Business Application Programming
- Similarities with Cobol and Pascal
- Established in 1980
- Since 1998 object oriented ABAP objects established
- Fully compatible to older versions

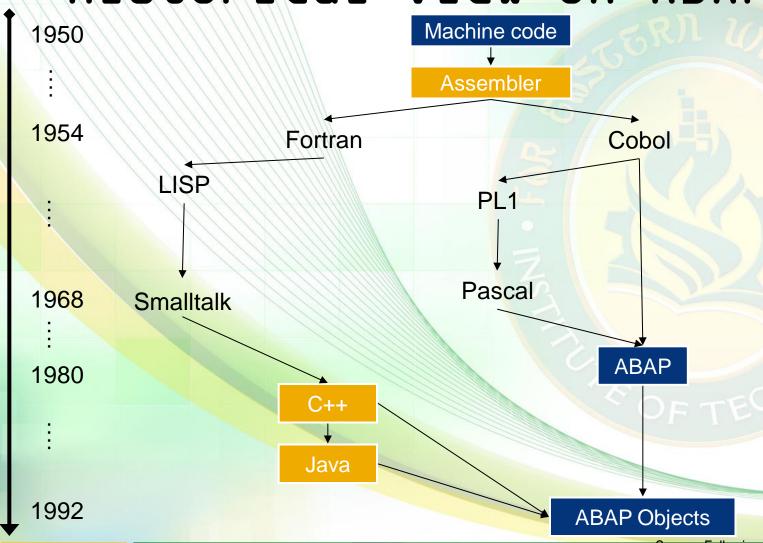


What is ABAP?

- Multilanguage support
- Embedded SQL statements
- Platform independent
- Database independent
- Reusability of code fragments



Historical view on ABAP





Compiling ABAP

Presentation layer

SAPGui

SAPGui

layer

Calls program for the first time

Short message about compiling

Application layer

Application server

Application server

Compiling

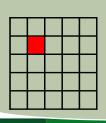
Database server

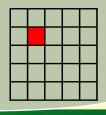
Database layer

Database server

Program has to be compiled

ABAP Source code





SAPGui

Runs program

Application server

Database server

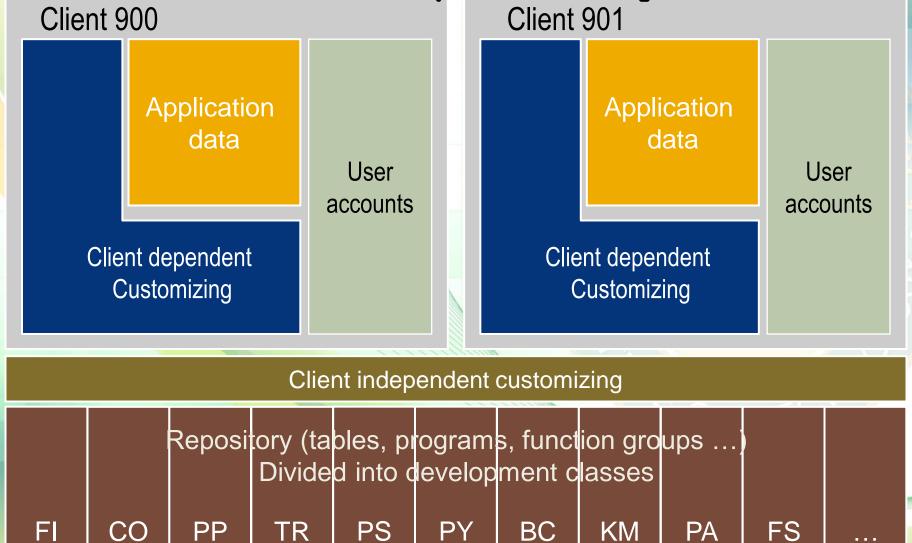
Return compilation

ABAP Compilation

Source: Following SAP AG

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ABAP Repository



Source: Own illustration



Prerequisites for ABAP development

- 1. Access to repository (is maintained in client settings)
- 2. User with development profile and access key
- 3. Own package and own transport request
- 4. Pay attention to the namespaces



Prerequisites for ABAP

- development
 Access to repository (is maintained in client settings)
 - Access to repository is needed
 - Check access in transaction SCC4





Prerequisites for ABAP

- development User with development profile and access key
 - The access key allows development of new programs or changes to existing one
 - Access key are always username dependent!
 - Access keys must be requested from SAP as license cost increase by the number of development users
 - Access keys can be obtained from your local UCC



Prerequisites for ABAP

- Own package and own transport request
 - Own packages enable you to group your developments
 - Transport requests enable you to transport new developments to other SAP systems
 - You may develop new programs using the local package \$TMP, but transport of these developments is not possible



Prerequisites for ABAP Pay attention to the namespaces

- 4.
 - Only use namespace Y and Z, e.g. ZZ_* or YY_* as these are customer namespaces
 - SAP uses namespace from A to X for own programs and **imple**mentations
 - Changing SAP objects is not possible unless you have a modification key



Transport of ABAP developments

Development System (DEV)



Quality Assurance System (QAS)



Production
System (PROD)

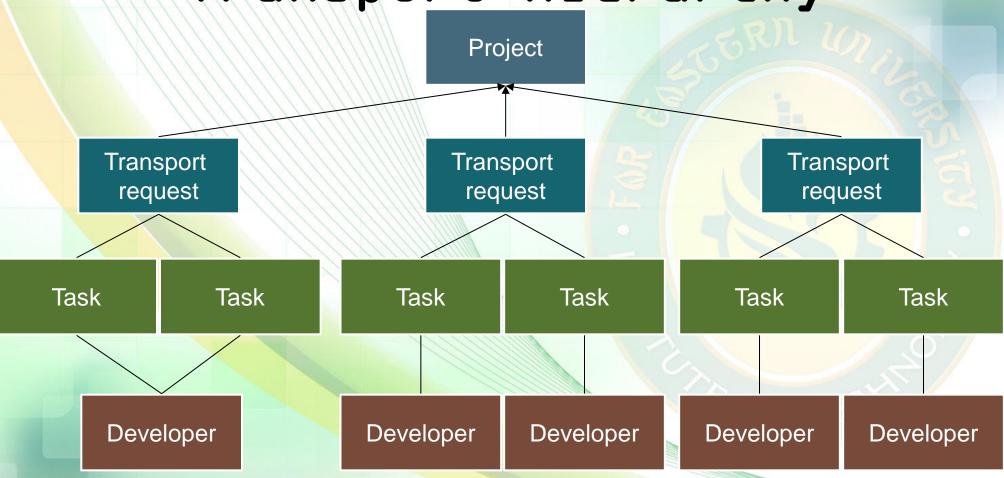


Source: Own illustration

- Developments are transported from DEV to QAS using transport requests
- Exporting transport requests creates files for transportation
- You may either import all or only one transport request in your destination system

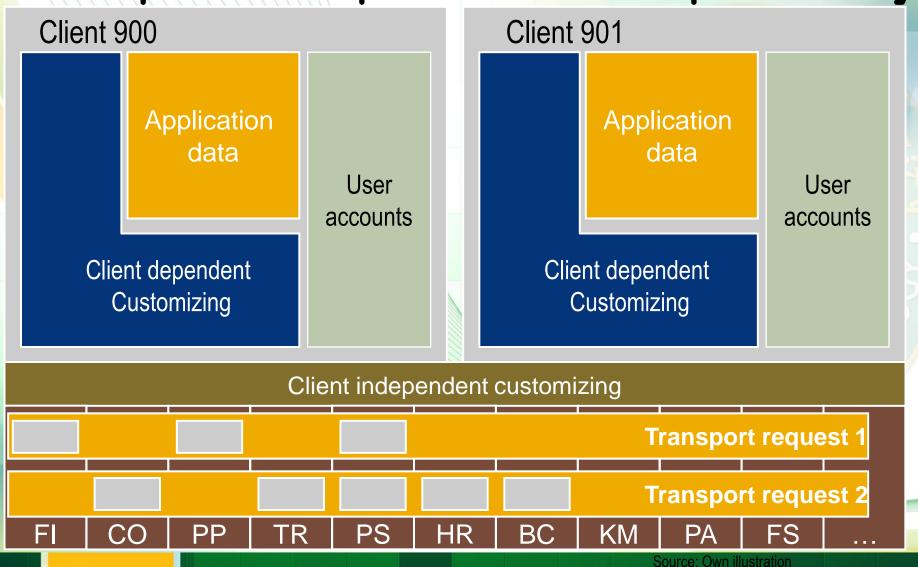


Transport hierarchy



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Transport requests in repository





Transport requests: releasing and exporting Release of transport requests can be done in Transport Manager

- Release of transport requests can be done in Transport Manager
 TA SE09 or SE10
- First release all tasks, then release transport request
- Tasks have to be released by each developer
- In urgent situations a task can be taken over to complete the export

The first program: Hello Create a new package World!

- Create a new transport request
- 3. Create the new program
- Enter access key
- 5. Adjust program attributes
- Assign program to package 6.
- Save, check and activate program 7.
- Release and export new program 8.