

## Homework Lesson 8

### TODO

- ◆ Check all the tools from SAP menu Tools -> ABAP Workbench and from the current lesson, viz.: Debugger, Data modeler, Trace, Job
- ◆ Analyze your ZXXX\_HW07 report using the runtime analyzer (t/a SAT).
- ◆ Find in Google/SCN: how to understand in runtime that program is working in update task. Hint: SY\* field
- ◆ Play a bit with transaction SM59 – check RFC destinations etc.
- ◆ Create new report ZXXX\_HW08\_MAT for updating material master record
  - Selection screen
    - Parameter - Material number (SH – please find the standard data element with search help)
      - If empty – material should be created
      - If not empty – description should be changed according to the next parameter
    - Parameter, obligatory – Material description (please find the correct standard data element)
  - Use FM BAPI\_MATERIAL\_SAVEDATA for material creation
    - FM above has a lot of importing parameters – please select which are necessary yourself.
  - Check result:
    - if ok - BAPI\_TRANSACTION\_COMMIT
    - If NOT ok - BAPI\_TRANSACTION\_ROLLBACK
  - If material saved – show I-message from your class saying that Material has been created or changed successfully
  - If NOT – show I-message from your class saying that Material is not created or changed.
  - All the messages from BAPI return table should be shown using BAL LOG (popup window) after your own I-message
  - Please assign NEW t/a ZXXX\_HW08\_MAT to it
- ◆ Please copy ZXXX\_HW07 into new report ZXXX\_HW08\_BADI and enhance with BADI, Enhancement point and Enhancement section the following way:
  - Create an enhancement spot ZXXX\_ES\_HW08 (SE18)
  - Create a BADI ZXXX\_BD\_HW08
  - Create an interface ZIFXXX\_HW08 directly from SE18 with one method CHANGE\_DATA\_BEFORE\_DISPLAY
    - One changing parameter CT\_DATA (your structure table type) is needed
- ◆ Implement the BADI as follows:
  - Put your user name at the beginning of each object description in order it is displayed like “ZK\_XXX Bosch”
- ◆ After BADI create explicit enhancement point with own enhancement spot and implement the following way:
  - Put your current date (SY-\* field ) at the beginning of each object description in order it is displayed like “28/06/2016 ZK\_XXX Bosch”
- ◆ After enhancement point please create enhancement section with no default code and implement as follows:
  - Put current time (SY-\* field ) at the beginning of each object description in order it is displayed like “16:00 28/06/2016 ZK\_XXX Bosch”
- ◆ Please assign NEW t/a ZXXX\_HW08\_BADI to it

## TO READ

◆ Related SAP HELP (<http://help.sap.com/>) links:

- [Test and Analysis Tools in ABAP](#)
- [Debugger](#)
- [Setting Watch points](#)
- [Managing the SQL Trace](#)
- [Job Scheduling Explained](#)
- [RFC](#)
- [RFC scenarios](#)
- [BAPI](#)
- [Enhancements of the standard](#)
- [Switch framework](#)
- [Modifying the Standard](#)
- [Customer exits](#)

◆ SCN links:

- [Locating SD User Exit routines](#)
- [Open FI \(Business Transaction Events\)](#)