Using the ISPF Customization Dialogues

This guide expands on the section in Chapter 3 of the *WebSphere® Application Server Version 4.0.1 for z/OS and 0S/390: Installation and Customization Guide* GA22-7834, which should be your primary documentation. It assume that all the required products and OS/390 components have been configured, and WebSphere Application Server V4.0.1 has been installed with SMP/E using a high-level qualifier of 'WAS401.WAS.BBO*'.

It also assumes that you have Review the first two chapters on "Overview" and "Preparing the Environment" in the *"Installation and Customization"* book.

1. Use the **Worksheets** provided in the book, write down your values needed to customize the installation dialogues. You will need to consult with other systems programmers, specialists or administrators to determine some of them. You also have several tools on your system to determine or verify this information using MVS & TSO commands, ISPF, SDSF, and other tools such as MXI from http://www.secltd.co.uk
2. Start the ISPF customization dialogue by typing the following TSO command using ISPF option 6: **exec 'was401.was.sbboclib(bbowstrt)' 'hlq(was401.was)'** substituting your high-level data set names of the WebSphere target libraries for 'was401.was'.
3. Press 'Enter' then select '`1- New customization`' to get to the main panel.
4. **Load** the IBM default variables (option 'L') from the **hlq.SBBOEXEC(BBOWVARS)** member. We will use these as a base and tailor them for our environment.
5. **Allocate** the target data sets (option 1). We used **WAS390.INSTALL** as the HLQ and default attributes to allocate them.
6. **Customize the variables** from your worksheets using option 2 of the dialogue.

   Caution: Be careful to get all the customized settings correct at this time. Specification (spelling) errors and omissions can be very difficult to diagnose and correct later on.
7. **Save** the variables (option S) in **userid.WAS.SAVECFG.** In case there is an error during the generate step, you can re-load all your customized variables without having to re-enter them. (Otherwise, you get the opportunity to re-enter them again.)
8. **Generate** the installation job streams (option 3). The first step is to provide a JOB statement. Use any job statement that fits your installation. Note that the job name will be generated to match the member name of the PDS. Here's one that works for us:

   ```
   //jobname JOB  1234,USER1,NOTIFY=????,MSGCLASS=O,REGION=0M
   //*              USER=SYSADM1,PASSWORD=SYSADM1
   /*JOBPARM  SYSAFF=SYSB
   ```

   For jobs requiring a userid other than the logged on TSO user's, you can put a comma at the end of the first line, and un-comment the next line putting in the correct userid. (Quite often, it will be the userid with DB2 SYSADM authority.)

   Also note that if you need to run these jobs on a particular system in the sysplex (JES2 MAS or JES3 complex), you should specify the necessary Scheduling Environment (SCHENV), JOBPARM, or JES3 //*MAIN statement at this time.

   Correct any errors flagged by the dialogs and re-generate the jobstreams.

As the jobs and data members are created (or replaced), watch for errors. If there is an ENQ on the PDS, the tailored jobs will stop being generated for that data set and you will not have a complete set of generated jobs and data.

9. **Save** the customized variables again into **userid.WAS.SAVECFG.**
10. **View** the customized installation instructions in **WAS390.INSTALL.CNTL(BBOINSTR)**. (Option 4.)
11. **Print** these instructions for reference and use as a checklist for all the installation and customization steps through the IVP.
12. **Review the instructions** to check for obvious (and not-so-obvious) typographical errors.
13. **Review** the saved variables in the **SAVECFG** data set by sorting the file on the columns containing the values of the variables (cols 12 – 20.) I sort it by sending it to VM and using XEDIT, but am sure there are easier ways… Then scan it for the following:
    a. Data set high-level qualifiers – if there is a typo, it may stand out by not being with the others.
    b. Server names and UserIDs: if you use a column-specific naming convention, these will also stand out if there is a typo.
    c. UIDs & GIDs: It is important that these are all unique. This does not check for UIDs and GIDs have already been assigned in the RACF data base.
14. If necessary, modify your variables using the dialogs, re-generate the jobstreams, re-review the results and reprint the output.

Do **not** be tempted to fix a typo or make a change by modifying the generated output. Many of the variables are used in multiple members of the INSTALL data sets. If you don't get them all, you can be assured of very-hard-to-diagnose problems…

Summary:

At this point, you can proceed with the real work of customizing your system for WebSphere.

1. All the customized job streams, procs, EXECs and configuration datasets are in their proper places awaiting submission and use.
2. Your variables specified in the worksheets and fixed any discrepancies.
3. You have printed copies of the customized installation instructions.

You are now ready to follow the customized instructions. As you do each activity and submit each job, review the output to make sure it was successful, and understand what was customized on your system.