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SOAP Sample Application using TPF XML APIs for z/TPF Enterprise Edition V1 R1

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1.0 ABOUT THIS README

This readme file will guide you through the process of downloading, installing, and using a SOAP sample application on your z/TPF system. This sample application demonstrates how to use the z/TPF XML APIs (APAR PJ30866).

The SOAP sample application package provides you with a complete sample that can be run on your z/TPF system. You can use it as a starting point for your own SOAP application, use it for training purposes, or use it as-is. Go to the <u>IBM TPF Product Information Center</u> for more details about SOAP support.

Note: The TPF development lab does not maintain this application and will not accept APARs on this code.

2.0 SYSTEM REQUIREMENTS

To install and use this SOAP sample application on your z/TPF system, you must have Apache with the mod_tpf_soap module applied to your system because this application uses the Apache HTTP server as its communications binding.

The code and information for installing and using mod_tpf_soap is available as a downloadable tool at www.ibm.com/tpf/download/ztpfsoap.htm

3.0 DOWNLOADING

To download this module, do the following:

1. Click the Download now button to download the compressed sample application code

package (the "tarball") to your PC. The name of this package is **soap_sample_xmlapi_zTPF.tar.Z**.

2. Decompress the tarball on your PC using WinZip or some other PC file decompression tool.

Tip: If you are using WinZip, verify that the "TAR File Smart CR/LF Conversion" option (under Options, Configuration, Miscellaneous) is not selected.

After you have completed this step, you will have the following files on your PC:

- 1. In the directory: C:/your_workdir/local_mod/base/rt
 - Modified version of the tpf_soap_appl_handler user exit (cso4.c)
 - MakeTPF sample makefile (cso4.mak)
- 2. In the directory: C:/your_workdir/soap
 - Sample z/TPF XML API application code (cso7.c)
 - MakeTPF sample makefile (cso7.mak)
- 3. In the directory: C:/your_workdir
 - Sample client html file (soap_sample_client_xmlapi.html). This file will not be used on your Linux system.
- 3. FTP the tarball to your home directory on your Linux system using binary mode:
 - Open an MS-DOS window and activate FTP by using the following command: **ftp your.linux.build.machine.com**
 - Sign in using your user name and password.
 - Set the mode to binary by entering the following command: **binary**
 - Send the file to your Linux system by using the following command: send c:\your_path\soap_sample_xmlapi_zTPF.tar.Z
 soap_sample_xmlapi_zTPF.tar.Z
 - Exit FTP by entering the following command: **bye**
- 4. On your Linux system, create a working directory in your root directory by entering the following command:

mkdir ~/your_workdir

5. Change to the working directory and extract the program files from the SOAP sample application package by entering the following command:

cd ~/your_workdir tar -xzkf ../soap_sample_xmlapi_zTPF.tar.Z

After you have completed this step, you will have the following files on your Linux system:

- 1. In the directory: ~/your_workdir/local_mod/base/rt
 - Modified version of the tpf_soap_appl_handler user exit (cso4.c)
 - MakeTPF sample makefile (cso4.mak)
- 2. In the directory: ~/your_workdir/soap
 - Sample z/TPF XML API application code (cso7.c)
 - MakeTPF sample makefile (cso7.mak)
- 3. In the directory: ~/your_workdir
 - Sample client html file (soap_sample_client_xmlapi.html). This file will not

be used on your Linux system.

4.0 COMPILING, LINKING, AND LOADING

1. Change to the 'rt' directory:

cd ~/your_workdir/local_mod/base/rt

- 2. Create a maketpf configuration file named maketpf.cfg.
 - Ensure that the first assignment of TPF_ROOT in maketpf.cfg is the absolute path to your "/your_workdir" directory.
 - Update other fields (TPF_BSS_NAME, TPF_SS_NAME, USER_VERSION_CODE) if necessary.
- 3. Edit the sample maketpf .mak file for tpf_soap_appl_handler user exit (cso4.mak). Verify that the maketpf_env assignments in cso4.mak are correct for your build environment.
- 4. Compile and link the modified tpf_soap_appl_handler user exit sample program.

maketpf cso4.mak -f

5. Change to the 'soap' directory:

cd ~/your_workdir/soap

- 6. Create a maketpf configuration file named maketpf.cfg.
 - Ensure that the first assignment of TPF_ROOT in maketpf.cfg is the absolute path to your "~/your_workdir" directory.
 - Ensure that the first assignment of APPL_ROOT in maketpf.cfg is the absolute path to your "~/your_workdir" directory.
 - Update other fields (TPF_BSS_NAME, TPF_SS_NAME, USER_VERSION_CODE) if necessary.
- Edit the sample maketpf .mak file for the SOAP sample z/TPF XML API application (cso7.mak). Verify that the maketpf_env assignments in cso7.mak are correct for your build environment.
- 8. Compile and link the SOAP sample z/TPF XML API application program.

maketpf cso7.mak -f

9. Use the standard load procedure to transfer and load the SOAP sample programs (cso4 and cso7) to your test system.

5.0 RUNNING

To run the SOAP sample z/TPF XML API application, you must have the Apache HTTP server running on your z/TPF system (with the mod_tpf_soap module applied). Open the soap_sample_client_xmlapi.html file on your PC in Microsoft Internet Explorer Version 5 or later. Follow the instructions on the page.

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