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SOAP Sample Application 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.

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 [IBM TPF Product Information Center](#) 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/ztpfbeta/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_zTPF.tar.Z**.

3. 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) is not selected.

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

- Sample client setup (soap_sample_client.html)
 - Modified version of the tpf_soap_appl_handler user exit (cso4.c)
 - MakeTPF sample makefile (cso4.mak)
 - Sample echoInfonodes application code (cso5.c)
 - MakeTPF sample makefile (cso5.mak).
4. 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_zTPF.tar.Z" soap_sample_zTPF.tar.Z
 - Exit FTP by entering the following command:
bye
 5. On your Linux system, create a working directory in your root directory by entering the following command:

```
mkdir ~/your_workdir
```

6. 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_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 echoInfonodes application code (cso5.c)
 - MakeTPF sample makefile (cso5.mak)
3. In the directory: ~/your_workdir
 - Sample client html file (soap_sample_client.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 (`cs04.mak`). Verify that the `maketpf_env` assignments in `cs04.mak` are correct for your build environment.
4. Compile and link the modified `tpf_soap_appl_handler` user exit sample program.

`maketpf cs04.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.
7. Edit the sample `maketpf.mak` file for the SOAP sample application (`cs05.mak`). Verify that the `maketpf_env` assignments in `cs05.mak` are correct for your build environment.
8. Compile and link the SOAP sample application program.

`maketpf cs05.mak -f`

9. Use the standard load procedure to transfer and load the SOAP sample programs (`cs04` and `cs05`) to your test system.

5.0 RUNNING

To run the SOAP sample 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.html` file on your PC in Microsoft Internet Explorer Version 5 or later. Follow the instructions on the page.

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