

**Note:** Make sure that the Cisco Application eXtension Platform (AXP) is ready on the service module before running the automated installer.

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### Telnet to the Cisco 280x ISR

```
telnet 192.168.1.39
2800_w_axp> enable
```

### Session into the Service Module

```
2800_w_axp#service-module Integrated-Service-Engine 1/0 status
```

**Example** This example shows typical output from sessioning into the service module.

```
Service Module is Cisco Integrated-Service-Engine1/0
Service Module supports session via TTY line 66
Service Module is in Steady state
Getting status from the Service Module, please wait..
AppRuntimeEnvironment 0.0.6
Online on Bryce
```

### Check State

Check the output as shown in the previous example. The Cisco AXP service module should be in *Steady State* and **Online** should also appear.

### Session into the Cisco AXP Service Module

```
2800_w_axp# service-module Integrated-Service-Engine 1/0 session
se-Module>
```

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### Check Resources

Make sure that the Cisco AXP service module has sufficient resources to host your application. To view the resources that are currently assigned to all applications, enter the following command:

```
se-Module> show resource limits
```

**Note:** Carefully consider the existing resources and future requirements for applications that have not yet been loaded. Plan the capacity requirements at appropriate intervals. See the "Dedicated Application Resources" section in the Cisco AXP Developer Guide.

### Invoke the Installer Tool

On the service module, enter the following command:

```
se-Module> software install package url ftp://ip-address/tcpdump.pkg username username password pa
```

After the installer downloads the .pkg and .prt files, a virtual instance is created on the Cisco AXP service. The files are unpacked into / (the root) directory of the virtual instance.

**Note:** The Cisco AXP service module reboots.

### Verify Application is in List

After the reboot, check the application is installed by showing all applications:

```
se-Module> show software packages
```

### Start the Application

```
se-Module> app-service application name
```

### Check Status

To show the status of all applications, enter the following command:

```
se-Module> show app-service state
```

**Note:** After an application starts there may be a delay of several minutes before the command shows the application as being online. **Example**

In this example the virtual instance of application *tcptrace* is entered in Cisco AXP application service EXEC mode.

```
se-Module> app-service tcptrace
```

```
se-Module(exec-tcptrace)>
```

The session is now in the virtual instance of the *tcptrace* application, in Cisco AXP application service EXEC mode. When typing commands you can include the ? character which calls a utility that lists the available commands.

### Show State

An important command to use during this stage of the installation is the **show state** command. The output is the same as that seen from the service module context above, but for convenience, you can also view the state of your application from the Cisco AXP application service EXEC mode.

To view the state of your application, enter the following command:

```
se-Module(exec-tcptrace)> show state
```

### Show Resource Limits

To view the individual resource allocation (set during the packaging step) for the tcptrace application, enter the following command:

```
se-Module(exec-tcptrace)> show resource limits
```

This command shows resources for one application, and limited information about overall system resources.

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