

## AXP Packaging Tool Arguments

| Argument    | Description  | Required/Optional | Range of Expected Values   | Example                   |
|-------------|--|-------------------|--|---------------------------|
| project-dir | Project directory. Contains package files, templates, and temporary files created during packaging.  | Required          | Any valid directory on the machine.  | xyz_src/empty_app/package |
| auth-bundle | Software authorization file location. File contains authorization details that allow your application to run on the target application service module. (Replaces dev-cert and dev-auth parameters from AXP 1.1 or higher.) | Required          | Any valid authorization file.  | /xyz_src/auth_bundle.sig  |
| private-key | Location of private key file. File contains the RSA key used to sign the third party application software.   | Required          | Any valid private key.   | /xyz_src/privkey.txt      |
| name        | Name of packaged application   | Required          | Cannot contain white space or special characters.  | myapp                     |
| version     | Version of packaged application  | Required          | [0-9]+([.][0-9]+){0,8} Only numbers are permitted. <b>Note:</b> If you are repackaging a Cisco AXP 1.1 application with the Cisco AXP 1.5 SDK, you must use a different version number for your application and use the same UUID for your application as you used for Cisco AXP 1.1. This ensures that the application is | 1.0                       |

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|             |   |          |   |                                    |
|-------------|---|----------|---|------------------------------------|
|             |   |          | identified and upgraded correctly when upgrade CLI commands are used.   |                                    |
| description | Description of application?s function   | Optional | Any valid string.   | myapp utility                      |
| uuid        | Application?s unique identifier   | Optional | Either:1. (Recommended) a UUID value generated, for example, with the Linux ?uuidgen? tool. or 2. A UUID automatically generated when you do not enter a value. If you are repackaging a Cisco AXP 1.1 application with the Cisco AXP 1.5 SDK, you must use the same UUID for your application, and use a different version number for your application. This ensures that the application is identified and upgraded correctly when upgrade CLI commands are used. | 25773fde-b599-459c-b0fa-5be90cc73e |
| source-dir  | Directory location for the application files to be packaged. The directory structure must mirror the desired directory structure on the target file system.                       | Required | Any valid directory that contains application files to be packaged.   | /xyz_src/empty_app/build           |
| protect     | List of files to be protected. The files are in a text file containing a list of files, one per line, that are checked for signs of alteration before application initialization. | Optional | Any valid file location.  |                                    |

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| preupgrade        | Location of preupgrade script.  | Optional | Any valid script. See the ?Scripts Performed before Installation? section on page 145.   | /bin/preupgrade.sh               |
| preupgrade-oldver | Location of preupgrade-oldver script  | Optional | Any valid script. See the ?Scripts Performed before Installation? section on page 145.   | /bin/preupgrade-oldver.sh        |
| deps              | Package Dependencies. The UUIDs of all the packages on which the application depends. Refer to <i>Dependencies</i> in the Cisco AXP SDK section of the Cisco AXP Developer Guide.   | Optional | One or more UUIDs and versions. Multiple UUIDs are separated by colons. For one UUID, the version is separated from the UUID by a comma.   | f463dc25-4749-48bd-b08c-25d8939c |
| disk-limit        | Maximum amount of disk space allowed for application?size specified in megabytes. Refer to <i>Disk Limit</i> in the Cisco AXP SDK section of the Cisco AXP Developer Guide.   | Required | 2M or higher. Minimum value of 2M (2 MB). This value must be larger than the size of files specified in source-dir. The maximum value is the same as the maximum space allowed by the vserver. <b>Note:</b> If disk-wildcard is set, the disk-limit specifies the minimum required disk resources. | 10M                              |
| memory-limit      | Amount of memory space allowed for application?size specified in megabytes. For this RAM usage limit, consider the target hardware resources. The application might fail to install or run if the requested amount of resources is not available on the | Required | Memory limit specified in megabytes. Must be a positive value. Up to the maximum allowed by the vserver. (1M = 1048576 bytes). <b>Note:</b> If memory-wildcard is set, the memory-limit specifies the minimum required memory resources.   | 256M                             |

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|               |  |  |   |                     |
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|               | target hardware.   |  |   |                     |
| cpu-wildcard  | CPU wildcard. Grants extra CPU resources to an application if those resources are available.   | Optional   | No argument needed.<br><b>Note:</b> If cpu-wildcard is set, the cpu-limit specifies the minimum required CPU resources.   | y                   |
| swap          | Swap Space. ON: Enable swap after reboot OFF: Disable swap after reboot.   | Optional   | ON, OFF   | ON                  |
| postinstall   | Location of postinstall script. The script is run after installation. For example, the script allows console access to be gained and then modification of the package. The script must be packaged with the application. | Optional   | Any valid location for a post install script. Specify the location of the script using a relative path with respect to the common root directory. For example, if script postinstall.sh is in directory /xyz-source/build/bin, and the common root directory is /xyz-source/build, specify the location of the script as /bin/postinstall.sh. | /bin/postinstall.sh |
| cap-config    | Location of capabilities configuration file. The file can relax some restrictions in the virtual instance by configuring capabilities that have been granted by the development authorization file.                      | Optional   | Any valid location containing a capabilities configuration file.  | /bin/postinstall.sh |
| file          | Location of configuration text file.   | Optional if all other required parameters are specified. Otherwise required. | Any valid location containing a text configuration file.  | /bin/textfile.txt   |
| disk-wildcard | Disk wildcard. Grants extra disk resources to an application if those resources are  | Optional   | No argument needed. Values: y, <none>.<br><b>Note:</b> If disk-wildcard is set, the disk-limit specifies the minimum  |                     |

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|                    |   |          |  |                       |
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|                    | available.  |          | required CPU resources.  |                       |
| memory-wildcard    | Memory wildcard. Grants extra memory resources to an application if those resources are available.  | Optional | No argument needed. Values: y, <none><br><b>Note:</b> If memory-wildcard is set, the memory-limit specifies the minimum required memory resources.   |                       |
| cpu-limit          | CPU resources utilized by the application. Based on CPU index, not percentage utilization. Refer to <i>CPU Limit</i> in the Cisco AXP SDK section of the Cisco AXP Developer Guide. | Required | Must be greater than 100. <b>Note:</b> If --cpu-wildcard is set?the --cpu-limit specifies the minimum required cpu resources.  | 1000                  |
| shutdown-timeout   | Shutdown Timeout  | Optional | Time (in seconds) granted for shutdown scripts before the application is killed. This time period allows the application to shut down processes. Default: 30<br>Must be greater than or equal to 0 and less than 300. For example, it enables processes to be ended that would allow a database to be left in a consistent state if they were terminated too soon. | 40                    |
| user-defined-linux | Creates an application package that does not have a dependency on a AXP Reference OS. Installing this package creates a skeleton virtual instance.                                  | Optional | No argument is required. Values: y, <none>   | y                     |
| tmpfs              | Sets the temporary file system type for an application  | Optional | ?disk?: disk-based temporary file system.<br>?mem?:  | ?disk? ?mem? ?mem,32? |

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|                 |  |          |   |    |
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|                 | to be either disk-based or memory-based. If an application uses a memory-based temporary file-system, the size of the file system can also be specified. Refer to <i>Application /tmp Directory</i> in the Cisco AXP SDK section of the Cisco AXP Developer Guide.                               |          | memory-based temporary file system. This is the default. A size of 16 MB is assumed unless a different value is specified (see mem, <size> below). ?mem, <size>?: indicates a specific size of memory-based file system. For example, ?mem,32? specifies a 32 MB memory-based file system.. |    |
| share-timezones | Causes the time zone information, which is currently being used in the host, to be shared by the guest OS. The timezone information is copied into the guest OS running this application package. Refer to <i>Share Timezones</i> in the Cisco AXP SDK section of the Cisco AXP Developer Guide. | Optional | Values: ON, OFF<br>Default: ON.   | ON |

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