



Mapping PacketCable DHCP Options to Cisco BAC Properties

This appendix identifies the mapping of Cisco BAC properties to the PacketCable DHCP options used for PacketCable provisioning and includes:

- [Option 122 and Cisco BAC Property Comparison, page C-2](#)
- [Option 177 and Cisco BAC Property Comparison, page C-2](#)

The minimum required set of these properties is configured, during installation, in the *BPR_HOME/cnr_ep/conf/cnr_ep.properties* file. This file resides on the Cisco Network Registrar host. The set of properties defined in *cnr_ep.properties* is applied to all PacketCable voice technology devices in the provisioning group. Like other Cisco BAC properties, you can also set these properties on a device or a Class of Service. Setting them at the RDU, using either the administrator user interface or the application programming interface (API), overrides the corresponding values set in the *cnr_ep.properties* file.

**Note**

See [Using the KeyGen Tool, page 14-8](#), for information on changing these key configuration properties.

Cisco BAC supports both PacketCable DHCP Option 122 (as specified in RFC 3495 and 3594) and the deprecated PacketCable DHCP Option 177. Cisco BAC does not ignore DHCP requests when it cannot populate option 122 and/or 177 content. Whatever Option 122/177 content is available is populated and the decision to ignore the option is left to the eMTA.

When Cisco BAC receives a DHCP request asking for both options 122 and 177, Cisco BAC ignores the request for Option 177 and populates only Option 122 content.

**Caution**

There should be only one instance of each property in *BPR_HOME/cnr_ep/conf/cnr_ep.properties*.

Option 122 and Cisco BAC Property Comparison

Table C-1 identifies the Cisco BAC properties as they apply to the definition of Option 122 in RFC 3495 and RFC 3594.

Table C-1 DHCP Option 122 to Cisco BAC Property Comparison

| DHCP Option | Type | Cisco BAC Property Name |
|-------------|---------|--|
| 6 | IP addr | <i>/ccc/dns/primary</i> |
| 6 | IP addr | <i>/ccc/dns/secondary</i> |
| 122.1 | IP addr | <i>/ccc/dhcp/primary</i> |
| 122.2 | IP addr | <i>/ccc/dhcp/secondary</i> |
| 122.3 | FQDN | <i>/ccc/prov/fqdn</i> Note Option 122.3 is automatically filled by Cisco BAC; consequently, do not set this property manually. |
| 122.4 | Integer | <i>/ccc/kerb/auth/backoff/nomTimeout</i> <i>/ccc/kerb/auth/backoff/maxTimeout</i> <i>/ccc/kerb/auth/backoff/maxRetries</i> |
| 122.5 | Integer | <i>/ccc/kerb/app/backoff/nomTimeout</i> <i>/ccc/kerb/app/backoff/maxTimeout</i> <i>/ccc/kerb/app/backoff/maxRetries</i> |
| 122.6 | String | <i>/ccc/kerb/realm</i> |
| 122.7 | Boolean | <i>/ccc/tgt</i> |
| 122.8 | Integer | <i>/ccc/prov/timer</i> |
| 122.9 | Integer | <i>/ccc/security/ticket/invalidation</i> |



Caution

If any of */ccc/kerb/auth/backoff/nomTimeout*, */ccc/kerb/auth/backoff/maxTimeout*, or */ccc/kerb/auth/backoff/maxRetries* are defined, they must all be defined. Similarly, if any of */ccc/kerb/app/backoff/nomTimeout*, */ccc/kerb/app/backoff/maxTimeout*, or */ccc/kerb/app/backoff/maxRetries* are defined, they must all be defined.

Option 177 and Cisco BAC Property Comparison

In accordance with PacketCable compliance wave 26, Option 177 is deprecated, and Option 122 is now the preferred MTA provisioning option. For legacy devices that still support Option 177, Table C-2 identifies the Cisco BAC properties as they apply to the definition of Option 177.

Table C-2 DHCP Option 177 to Cisco BAC Property Comparison

| Option 177 | Type | Cisco BAC Property Names |
|------------|---------|-------------------------------|
| 177.1 | ip addr | <i>/pktcbl/dhcp/primary</i> |
| 177.2 | ip addr | <i>/pktcbl/dhcp/secondary</i> |

Table C-2 DHCP Option 177 to Cisco BAC Property Comparison (continued)

| Option 177 | Type | Cisco BAC Property Names |
|-------------------|-------------|---|
| 177.3 | fqdn | <i>/pktcbl/snmp/entity/fqdn</i> |
| 177.4 | ip addr | <i>/pktcbl/dns/primary</i> |
| 177.5 | ip addr | <i>/pktcbl/dns/secondary</i> |
| 177.6 | string | <i>/pktcbl/snmp/realm</i> |
| 177.7 | boolean | <i>/pktcbl/snmp/tgt</i> |
| 177.8 | integer | <i>/pktcbl/provisioning/timer</i> |
| 177.10 | integer | <i>/pktcbl/kerberos/authentication/backoff/nomTimeout</i> <i>/pktcbl/kerberos/authentication/backoff/maxTimeout</i> <i>/pktcbl/kerberos/authentication/backoff/maxRetries</i> |
| 177.11 | integer | <i>/pktcbl/kerberos/application/backoff/nomTimeout</i> <i>/pktcbl/kerberos/application/backoff/maxTimeout</i> <i>/pktcbl/kerberos/application/backoff/maxRetries</i> |
| 177.12 | integer | <i>/pktcbl/snmp/kerberos/ticket/invalidation</i> |

