



Mapping PacketCable DHCP Options to Prime Cable Provisioning Properties

This chapter identifies the mapping of Prime Cable Provisioning properties to the PacketCable DHCP options used for PacketCable provisioning and includes:

- [Option 122 and Cisco Prime Cable Provisioning Property Comparison, page B-2](#)
- [Option 177 and Cisco Prime Cable Provisioning Property Comparison, page B-3](#)

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 Prime 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 Prime Cable Provisioning 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 KeyGen Tool, page 28-9](#), for information on changing these key configuration properties.

Prime Cable Provisioning supports both PacketCable DHCP Option 122 (as specified in RFC 3495 and 3594) and the deprecated PacketCable DHCP Option 177. Prime Cable Provisioning 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 Prime Cable Provisioning receives a DHCP request asking for both options 122 and 177, Prime Cable Provisioning 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 Prime Cable Provisioning Property Comparison

Table B-1 identifies the Prime Cable Provisioning properties as they apply to the definition of Option 122 in RFC 3495 and RFC 3594.

Table B-1 DHCP Option 122 to Prime Cable Provisioning Property Comparison

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



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 Prime Cable Provisioning 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 B-2](#) identifies the Prime Cable Provisioning properties as they apply to the definition of Option 177.

Table B-2 *DHCP Option 177 to Prime Cable Provisioning Property Comparison*

Option 177	Type	Prime Cable Provisioning Property Names
177.1	ip addr	/pktcbl/dhcp/primary
177.2	ip addr	/pktcbl/dhcp/secondary
177.3	fqdn	/pktcbl/snmp/entity/fqdn
177.4	ip addr	/pktcbl/dns/primary
177.5	ip addr	/pktcbl/dns/secondary
177.6	string	/pktcbl/snmp/realm
177.7	boolean	/pktcbl/snmp/tgt
177.8	integer	/pktcbl/provisioning/timer
177.10	integer	/pktcbl/kerberos/authentication/backoff/nomTimeout /pktcbl/kerberos/authentication/backoff/maxTimeout /pktcbl/kerberos/authentication/backoff/maxRetries
177.11	integer	/pktcbl/kerberos/application/backoff/nomTimeout /pktcbl/kerberos/application/backoff/maxTimeout /pktcbl/kerberos/application/backoff/maxRetries
177.12	integer	/pktcbl/snmp/kerberos/ticket/invalidation

Option 177 and Cisco Prime Cable Provisioning Property Comparison