



PacketCable DHCP Options to BACC Properties Mapping

This appendix identifies the mapping of BACC properties to the PacketCable DHCP options used for PacketCable provisioning.

The minimum required set of these properties is configured, during installation, in the `<BACC_HOME>/cnr_ep/conf/cnr_ep.properties` file. This file is located on the 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 BACC properties, you can also set these properties on a device or a class of service. Setting them at the RDU, using either the administrator's user interface or the API, overrides the corresponding values set in the `cnr_ep.properties` file.



Note

See [“Using the `changeNRProperties.sh` Tool” section on page 12-43](#) for information on changing key these configuration properties.

BACC supports both PacketCable DHCP option 122 (as specified in RFC 3495 and 3594) and the deprecated PacketCable DHCP option 177. BACC 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 BACC receives a DHCP request asking for both option 122 and 177, BACC will ignore the request for option 177 and populate only option 122 content.



Caution

There should be only one instance of each property in `<BACC_HOME>/cnr_ep/conf/cnr_ep.properties`.

Option 122 and BACC Property Comparison

Table B-1 identifies the BACC properties, as they apply to the definition of option 122 in RFC-3495 and RFC-3594.

Table B-1 DHCP Option 122 to BACC Property Comparison

DHCP Option	Type	BACC 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 BACC, 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 BACC 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 BACC properties, as they apply to the definition of option 177

Table B-2 DHCP Option 177 to BACC Property Comparison

Option 177	Type	BACC Property Names
177.1	ip addr	/pktebl/dhcp/primary
177.2	ip addr	/pktebl/dhcp/secondary

Table B-2 DHCP Option 177 to BACC Property Comparison (continued)

Option 177	Type	BACC Property Names
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

