

## dhcp-relay

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**Syntax** dhcp-relay {  
    authentication {  
        password *password-string*;  
        username-include {  
            circuit-type;  
            delimiter *delimiter-character*;  
            domain-name *domain-name-string*;  
            logical-system-name;  
            mac-address;  
            option-60;  
            option-82 [circuit-id] [remote-id];  
            routing-instance-name;  
            user-prefix *user-prefix-string*;  
        }  
    }  
    dynamic-profile *profile-name* <aggregate-clients (merge | replace) |  
        use-primary *primary-profile-name*>;  
    overrides {  
        always-write-giaddr;  
        always-write-option-82;  
        client-discover-match;  
        interface-client-limit *number*;  
        layer2-unicast-replies;  
        no-arp;  
        proxy-mode;  
        trust-option-82;  
        disable-relay;  
    }  
    relay-option-60 {  
        vendor-option {  
            (equals | starts-with) (ascii *match-string* | hexadecimal *match-hex*) {  
                default-local-server-group *local-server-group-name* |  
                (default-relay-server-group *server-group-name* |  
                drop);  
            }  
            default-local-server-group *local-server-group-name* |  
            (default-relay-server-group *server-group-name* |  
            drop);  
        }  
    }  
    relay-option-82 {  
        circuit-id {  
            prefix host-name logical-system-name routing-instance-name;  
        }  
    }  
    server-group {  
        *server-group-name* {

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        server-ip-address;
    }
}
active-server-group server-group-name;
group group-name {
    active-server-group server-group-name;
    authentication {
        password password-string;
        username-include {
            circuit-type;
            delimiter delimiter-character;
            domain-name domain-name-string;
            logical-system-name;
            mac-address;
            option-60;
            option-82 [circuit-id] [remote-id];
            routing-instance-name;
            user-prefix user-prefix-string;
        }
    }
}
dynamic-profile profile-name <aggregate-clients (merge | replace) |
    use-primaryprimary-profile-name>;
overrides {
    always-write-giaddr;
    always-write-option-82;
    client-discover-match;
    interface-client-limit number;
    layer2-unicast-replies;
    no-arp;
    proxy-mode;
    trust-option-82;
    disable-relay;
}
relay-option-60 {
    vendor-option {
        (equals | starts-with) (ascii match-string | hexadecimal match-hex) {
            default-local-server-group local-server-group-name |
            (default-relay-server-group server-group-name |
            drop);
        }
        default-local-server-group local-server-group-name |
        (default-relay-server-group server-group-name |
        drop);
    }
}
relay-option-82 {
    circuit-id {
        prefix host-name logical-system-name routing-instance-name;
    }
}
interface interface-name [upto upto-interface-name] [exclude];

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}
traceoptions {
    flag all;
    flag database;
    flag state;
    flag interface;
    flag rtsock;
    flag packet;
    flag packet-option;
    flag io;
    flag ha;
    flag ui;
    flag general;
    flag fwd;
    flag rpd;
    file file-name {
        <files number>;
        <size maximum-file-size>;
        <match regex>;
        <world-readable | no-world-readable>;
    }
}
}

```

<b>Hierarchy Level</b>	[edit forwarding-options], [edit logical-systems <i>logical-system-name</i> forwarding-options], [edit logical-systems <i>logical-system-name</i> routing-instances <i>routing-instance-name</i> forwarding-options], [edit routing-instances <i>routing-instance-name</i> forwarding-options]
<b>Release Information</b>	Statement introduced in JUNOS Release 8.3. traceoptions option introduced in JUNOS Release 8.5. relay-option-60 option introduced in JUNOS Release 9.0. authentication option introduced in JUNOS Release 9.1.
<b>Description</b>	<p>Configure extended Dynamic Host Configuration Protocol (DHCP) relay options on the router and enable the router to function as a DHCP relay agent. A DHCP relay agent forwards DHCP request and reply packets between a DHCP client and a DHCP server.</p> <p>The DHCP relay supports the attachment of dynamic profiles and also interacts with the local AAA Service Framework to use back-end authentication servers, such as RADIUS, to provide subscriber authentication. You can attach dynamic profiles and configure authentication support on a global basis or for a specific group of interfaces.</p> <p>The extended DHCP relay agent options configured with the <b>dhcp-relay</b> statement are incompatible with the DHCP/BOOTP relay agent options configured with the <b>bootp</b> statement. As a result, the extended DHCP relay agent and the DHCP/BOOTP relay agent cannot both be enabled on the router at the same time.</p> <p>The statements are explained separately.</p>
<b>Required Privilege Level</b>	interface—To view this statement in the configuration. interface-control—To add this statement to the configuration.

- Related Topics**
- Extended DHCP Local Server Overview
  - DHCP Relay Proxy Overview
  - Using External AAA Authentication Services with DHCP