

## Specifying a USB Modem Interface on J-series Routers

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The J-series Services Routers contain two USB ports controlled by a single USB controller. One USB port can support USB devices, while the other one can act as a USB modem.

The USB modem provides a dial-in remote management interface, and supports dialer interface features by sharing the same dial pool as a dialer interface. The dial pool allows the logical dialer interface (**dln**) and the physical interface (**umd0**) to be bound together dynamically on a per-call basis.

The following dialer interface features are supported by the USB modem interface:

- Encapsulation PPP
- CoS
- NAT
- Interface statistics
- Packet capture
- GRE tunnel
- Stateful firewall
- Traffic sampling

To configure a USB modem interface, include the following statements at the **[edit interfaces]** hierarchy level:

```
[edit interfaces]
umd0 {
  dialer-options {
    pool pool-name <priority priority>;
  }
  modem-options {
    dialin (console | routable);
    init-command-string initialization-command-string;
  }
}
```

The pool name specified at the **[edit interfaces umd0 dialer-options pool]** hierarchy level must be the same as the pool name specified at the **[edit interfaces dln unit *logical-unit-number* dialer-options pool]** hierarchy level.

Configure the USB modem to operate as a dial-in WAN backup interface by including the **dialin** statement and specifying the **routable** option. If the USB modem is to be used as a dial-in console, specify the **console** option in the **dialin** statement.

When the Services Router applies the modem AT commands configured in the `init-command-string` statement or the default sequence of initialization commands to the modem, it compares them to the initialization commands already configured on the modem and makes the following changes:

- If the commands are the same, the router overrides the existing modem values that do not match. For example, if the initialization commands on the modem include `S0 = 0` and the router's `init-command-string` configuration includes `S0 = 2`, the Services Router applies `S0 = 2`.
- If the initialization commands on the modem do not include a command in the router's `init-command-string` statement configuration, the router adds it. For example, if the `init-command-string` statement includes the command `L2`, but the modem commands do not include it, the router adds `L2` to the initialization commands configured on the modem.

Include the following statements at the `[edit interfaces dln]` hierarchy level to support a minimum configuration for a dialer interface connected to a USB modem:

```
[edit interfaces dln]
[Unresolved xref] ppp;
unit logical-unit-number;
dialer-options {
    dial-string dial-string-numbers;
    pool pool-name <priority priority>;
}
ppp-options {
    chap;
    access-profile name;
    local-name name;
    passive;
}
family inet {
    mtu bytes;
    address address {
        [Unresolved xref] address;
    }
}
```

For more information about configuring dial-in, see *Configuring ISDN Logical Interface Properties*.