

Typical FR Configuration

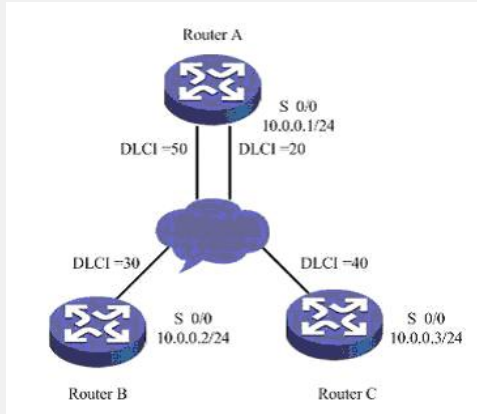
Keywords: MSR ;FR

1. Requirements:

Router A serves as the headquarters, and Router B and Router C are interconnected through FR.

Device: MSR series routers 3

2. Network diagram:



3. Configuration steps:

Device and version: MSR series、 Version 5.20 and Beta 1106

RTA key configuration scripts

```
#
interface Serial0/0
// Set the encapsulation mode to FR, which defaults to DTE
link-protocol fr
// Configure static address mapping to RouterB
fr map ip 10.0.0.2 50
// Configure static address mapping to RouterC
fr map ip 10.0.0.3 20
ip address 10.0.0.1 255.255.255.0
#
```

RTB key configuration scripts

```
#
interface Serial0/0
// Set the encapsulation mode to FR, which defaults to DTE
link-protocol fr
// Configure static address mapping to RouterA
fr map ip 10.0.0.1 30
ip address 10.0.0.2 255.255.255.0
#
```

RTC key configuration scripts

```
#
interface Serial0/0
// Set the encapsulation mode to FR, which defaults to DTE
link-protocol fr
// Configure static address mapping to RouterA
fr map ip 10.0.0.1 40
ip address 10.0.0.3 255.255.255.0
#
```

FR switch key configuration scripts

```

#
// Enable FR switching
fr switching
#
interface Serial5/0
link-protocol fr
// Set the interface type to DCE
fr interface-type dce
fr dlci 50
fr dlci 20
#
interface Serial5/1
link-protocol fr
// Set the interface type to DCE
fr interface-type dce
fr dlci 30
#
interface Serial5/2
link-protocol fr
// Set the interface type to DCE
fr interface-type dce
fr dlci 40
#
// Configure the PVC for RouterA and RouterB switching through FR
fr switch A-B interface Serial5/0 dlci 50 interface Serial5/1 dlci 30
// Configure the PVC for RouterA and RouterC switching through FR
fr switch A-C interface Serial5/0 dlci 20 interface Serial5/2 dlci 40
#

```

4. Tips:

1. The DLCI number is meaningful only at local. It is not a global parameter, and provided by the ISP.
2. A user interface on the FR network can support up to 1024 virtual circuits, where the DLCI available for the user is in the range 16 to 1007.
3. By default, the system allows inverse address resolution to IP and IPX.
4. The link protocol will up after the negotiation between the router and the local FR switch succeeds, which does not mean that the two ends can communicate with each other.