沈杨豪 2007-09-11 发表

Typical Configuration Of IMA on AR28, AR46 Series Routers

[Requirements]

RTA is bound to an IMA-group through two lines, and interworks with RTB through th e ATM network. RTB is also bound to an IMA-group through two lines.

[Networking diagram]



[Configuration script]

Configuration script (RTA)		
#		
sysname RTA		
#		
interface Atm1/0		
ima ima-group 1	Add the ATM1/0 interface to IMA-group 1/	
#		
ime ime group 1	/Add the ATM1/1 interface to IMA group 1/	
#	Add the Arivir r interface to IMA-group 1/	
interface Atm1/2		
#		
interface Atm1/3		
#		
interface Ima-group1/1		
pvc to-rtb 5/32	/Set ATM PVC to 5/32/	
map ip 10.1.1.2 broadcas	st /Mapping of the peer address/	
#	205.205.202 /Local IP address/	
<i>π</i>	Or a firmer time a saint (DTD)	
Configuration script (RTB)		
#		
sysname RIB		
#		
ima ima-group 1	/Add the ATM1/0 interface to IMA-group 1/	
#	The the renario interface to have group in	
interface Atm1/1		
ima ima-group 1	/Add the ATM1/1 interface to IMA-group 1/	
#		
interface Atm1/2		
#		
interface Atm1/3		
#		
nueriace inia-group i/ i	Set ATM PVC to 5/207/	
map ip 10 1 1 1 broades	/Mapping of the peer address/	
ip address 10.1.1.2 255.255.255.252 /Local IP address/		
#		

[Verification]

Reply from 10.1.1.2: bytes=56 Sequence=5 ttl=255 time=1 ms

--- 10.1.1.2 ping statistics ---

- 5 packet(s) transmitted
- 5 packet(s) received
- 0.00% packet loss
- round-trip min/avg/max = 1/1/1 ms

[Tip]

1. Inverse Multiplexing for ATM (IMA) is a technology that apportions the cell flow fro m the ATM layer to multiple E1/T1 links in a certain sequence in the send direction, a nd then restores the cell flow by demultiplexing at the receive end. These physical lin ks compose one IMA logical link (IMA-group), and its rate is close to the rate sum of all the physical links in the group.

2. To use IMA in China, you must use the IMA-E1 module.

3. There are two kinds of IMA-E1 modules: 75 ohm (BNC coaxial cable) and 120

ohm (shielded twisted pairs) for different lines.

4. Default parameters of the IMA interface:

Parameter	Optional parameter (default value)	Setting command
Clock	Master, slave (slave)	clock master, clock slave
Frame form at	CRC4, no-CRC4 (CR C4)	frame-format crc4-adm, frame-format no-c rc4-adm
Scramble	Enabled, disabled (e nabled)	Scramble, undo scramble
Line CODE C format	AMI, HDB3 (HDB3)	code { ami hdb3 }

To connect a line, **make sure that parameters on the router are the same as thos e of the line**; otherwise, the line cannot be up, or there are a lot of errors on the port after the line is up, resulting in failure to ping the peer.