

Carrier Routing System CRS-1  
XR 12000  
ASR 9000

Hardware

QNX Neutrino realtime operating system  
microkernel

RTOS

Package installation envelops PIE  
software management updates SMU

Packet Management

sh install active summary

diff sh config  
commit errors sh config failed  
full target config sh config merge  
current config  
no unconfigured interfaces sh run

config

sh conf rollback  
commit changes  
label #l  
comment #c  
confirmed [minute] #s

create new persistent config clear config inconsistency  
delete pending changes clear  
rollback config

SDR

Secure Domain Router  
full RPs and Linecards  
designated shelf controller DSC

traces

debug logs  
sh ospf trace hello

IOS

XR

XE

similar to IOS

Linux Kernel

allows to run applications Wireshark  
IOSd routing functions