New and Changed Information

New and Changed Information

Table 1: New and Changed Unicast Routing Features

Feature	Description	Changed in Release
BGP	Added support for RFC 5549.	6.2(8)
Advanced BGP	Added support for the BGP Next-Hop Unchanged feature.	6.2(8)
Advanced BGP	Added the ability to configure an IPv4 route over an IPv6 next hop.	6.2(8)
Basic BGP	Added support for the BGP PIC Edge feature.	6.2(8)
BGP MIBs	Added support for CISCO-BGP-MIBv2 MIB.	6.2(8)
Prefix peering	Added support for the **timers prefix-peer-wait** command.	6.2(8)
Route Policy Manager and policy-based routing	Added the route map support matrix for routing protocols and policy-based routing.	6.2(2)
Unicast FIB	Removed references to the deprecated **show ip fib** commands.	6.2(2)
Static Route over VLAN	Added support for configuring a static route without next hop over a VLAN, also known as switch virtual interface (SVI).	6.2(2)

Feature	Description	Changed in Release
4-byte AS numbers	Added the ability to configure 4-byte AS numbers in asdot notation.	6.2(2)
ARP	Configures the maximum number of ARP entries in the neighbor adjacency table	6.2(2)
BGP	Added BFD support for the IPv6 address family.	6.2(2)
BGP	Added the ability to configure BGP to advertise the default route.	6.2(2)
BGP	Added the ability to advertise routes that are suppressed by the aggregate-address command.	6.2(2)
BGP conditional route injection	Introduced this feature.	6.2(2)
Duplicate address detection	Added the ability to set the number of consecutive neighbor solicitation messages that the device sends from the IPv6 interface.	6.2(2)
EIGRP	Added support for route-map filtering.	6.2(2)
EIGRP	Added support for configuring the administrative distance of routes.	6.2(2)
EIGRP	Added the ability to configure all EIGRP interfaces as passive by default.	6.2(2)
FabricPath anycast HSRP	This feature was introduced.	6.2(2)
Glean optimization	Introduced this feature to improve the performance of glean packets.	6.2(2)
HSRP	Added support for multiple group optimization (MGO).	6.2(2)
IPv6	Added the ability to configure the maximum number of neighbor discovery entries in the neighbor adjacency table.	6.2(2)
IS-IS	Added support for configuring the administrative distance of routes.	6.2(2)

Feature	Description	Changed in Release
IS-IS	Added the ability to configure all IS-IS interfaces as passive by default and then activate only those interfaces where adjacencies are desired.	6.2(2)
Local policy routing	Introduced this feature.	6.2(2)
OSPFv2 and OSPFv3	Added the filter keyword to the table-map command to specify that only routes permitted by the route map are downloaded to the RIB.	6.2(2)
OSPFv2 and OSPFv3	Added the optional name-lookup parameter for OSPFv2 and OSPFv3 instances.	6.2(2)
OSPFv3	Added the ability to advertise locally generated router LSAs with the maximum metric value possible.	6.2(2)
OSPFv3 MIBs	Added OSPFv3 SNMP/trap support.	6.2(2)
Policy-based administrative distance	Introduced this feature.	6.2(2)
Reliable static routing backup using object tracking	Introduced this feature.	6.2(2)
Route policy manager	Added support for null interfaces to the match interface command.	6.2(2)
Route summarization	Added the ability to prevent discard routes from being created.	6.2(2)
TCAM utilization	Added the ability to monitor TCAM utilization on M1 Series modules.	6.2(2)
Unicast FIB	Added the ability to check for inconsistent, missing, or failed routes in the unicast FIB.	6.2(2)
Unicast RIB	Added the optional keyword longer-prefixes [detail] to the show routing command to display specific routes for a particular prefix.	6.2(2)
VRRPv3 and VRRS	Introduced these features.	6.2(2)

Feature	Description	Changed in Release
Policy-based routing	Added support for deny access control entries (ACEs) in a sequence for the following sequence-based features: VACLs, policy-based routing, and QoS.	6.1(3)
BGP	Added support for additional BGP paths.	6.1(1)
BGP	Added the ability to set the default weight for routes from a neighbor using the **weight** command in the neighbor address family configuration mode.	6.1(1)
IS-IS	Added support for IPv6.	6.1(1)
IS-IS	Added the **no adjacency-check** command to disable strict adjacency mode.	6.1(1)
Layer 3 routing using a mixed chassis	Added support for M2 Series modules.	6.1(1)
OSPFv2	Added support for more than four process instances for OSPFv2 per VDC.	6.1(1)
OSPFv2 and OSPFv3	Added support for configuring the administrative distance of routes for OSPFv2 or OSPFv3.	6.1(1)
Policy-based routing and WCCPv2	Added support for policy-based routing and WCCPv2 on the same interface if bank chaining is disabled.	6.1(1)
RIP	Added the ability to configure Cisco NX-OS RIP to be behaviorally compatible with Cisco IOS RIP in the way that routes are advertised and processed.	6.1(1)
Route policy manager	Added support for the **set distance** command and for the **inter-area** and **intra-area** options in the **match route-type** command.	6.1(1)
BGP	Added the **as-path multipath-relax** option to the **bestpath** command.	6.0(1)

Feature	Description	Changed in Release
BGP	Added support for setting next-hops on reflected routes using an outbound route-map.	6.0(1)
BGP bestpath	Added the **med confed** option to the **bestpath** command to force bestpath to do a MED comparison only between paths originated within a confederation.	6.0(1)
IPv4 and IPv6	Updated for F2 Series modules.	6.0(1)
Static routing	Updated for F2 Series modules.	6.0(1)
BFD on VRRP	Added BFD support to VRRP.	5.2(1)
BGP	Added support for the BGP PIC core feature.	5.2(1)
BGP	Added the **cost-community ignore** option to the **bestpath** command.	5.2(1)
EIGRP	Added support for EIGRP wide metrics.	5.2(1)
Maximum routes	Added support to configure the maximum number of routes allowed in the routing table.	5.2(1)
Route-map enhancements	Added support for **set extcommunity cost** and **set extcommunity rt** commands.	5.2(1)
Route-policy enhancements	Added support for **set interface** commands.	5.2(1)
VPN address mode	Added support for VPNv4 and VPNv6 address modes.	5.2(1)
OSPFv2	Added options for the **max-metric router-lsa** command.	5.1(2)
IP Glean Throttling	Added support for glean throttling rate limiters to protect the supervisor from the glean traffic.	5.1(1)
WCCP	Added support for WCCPv2 Error Handling for SPM Operations.	5.1(1)
Static routing	Added the **name** option to the **ip route** command.	5.1(1)

Feature	Description	Changed in Release
Layer 3 Interoperation with the N7K-F132-15 Module	Added support for the Layer 3 Interoperation with the N7K-F132-15 Module.	5.1(1)
BFD	Added support for BFD.	5.0(2)
Dynamic TCAM allocation	Enabled by default and cannot be disabled.	5.0(2)
IPv6	Added support for IPv6 Path MTU discovery.	5.0(2)
HSRP	Added support for IPv6.	5.0(2)
Object Tracking	Added support for IPv6.	5.0(2)
IS-IS	Added support for BFD and stateful restart.	5.0(2)
TCAM and FIB Size	Added support for larger TCAM and FIB sizes with XL modules.	5.0(2)
Route Maps	Added support for **match mac-list**, **match metric**, and **match vlan** commands.	5.0(2)