

## Acronyms

ASN	Autonomous System Number
IGP	Interior Gateway Protocol
EGP	Exterior Gateway Protocol
eBGP	external Border Gateway Protocol
PA	Path Attribute
NLRI	Network Layer Reachability Information

Terminology	Single Link Per ISP	Redundant Links Per ISP
Single ISP	Single Homed	Dual Homed
Multiple ISPs	Single Multihomed	Dual Multihomed

## Typical Routes and eBGP Advertisements

What kind of routes would an ISP advertise to an enterprise	A single default route
How many and what kind of routes would an enterprise advertise to its ISP	Usually just one route—A single route for each contiguous public subnet that is entirely assigned to the enterprise.
How would an enterprise inform its ISP of its internal subnetting	It wouldn't
How would an enterprise handle unused subnets within its assigned block of addresses	Static discard route on the edge router sending unused subnets to NULL
Does BGP use UDP, TCP, or its own protocol like EIGRP does?	TCP
What port number does BGP use?	179
How does BGP learn about neighbors?	They're manually defined in the configuration.
What's in an update message?	PA and NLRI
What's in a PA?	An AS path (list showing each AS in the path)
What's in an NLRI?	A network prefix and length (e.g. 192.168.0.0 /24)
In order of preference, in what ways can a BGP router choose its ID?	<ul style="list-style-type: none"> <li>• Explicit Configuration</li> <li>• Highest Loopback IPv4 Address</li> <li>• Highest IPv4 Address of an UP/UP real interface</li> </ul>