

Product Number: NS-xxxx-BGP1-CONFIG

The Product and/or Service information, descriptions and/or specifications herein are for the purpose of providing a general understanding of the same. Clients are advised to see the applicable *Globix* agreement for all Terms and Conditions which bind *Globix* whether with respect to warranty, guaranty, disclaimer or otherwise, if any, in connection with the provision of this Product and/or Service.

Border Gateway Protocol (BGP) is a routing protocol used to share routing information between networks (*autonomous systems*) that are otherwise under separate administrative control. BGP can also be used to provide redundancy for mission-critical Internet applications. For multi-homed solutions, BGP routing automatically re-routes traffic to a secondary leased line Internet connection of at least 1.544 Mbps in the event of an outage on a primary leased line Internet connection of at least 1.544 Mbps. This re-routing of traffic is transparent and when the problem is resolved, traffic is re-routed back to the primary line.

Product Description

Product Specifications:

- BGP requires a globally unique Autonomous System Number (ASN). An ASN may be obtained by completing the "Autonomous System Number Template" available from ARIN at <http://www.arin.net/templates/asntemplate.txt>.
- *Globix* clients may select three levels of routing information: Full Internet routing table, *Globix* routes, default route
- Client routes should be listed in the Internet Routing Registry (RIR) and must be registered in the Routing Arbiter Database (RADB). More information on the RADB/IRR may be obtained at <http://www.radb.net>.
- *Globix* configures BGP routing for colocated customers and for dedicated leased line access customers with connections of at least 1.544 Mbps.

Product Requirements and Limitations:

- Customer must have rights to the IP address space being announced to *Globix* via BGP.
- *Globix* will accept a Classless Inter-Domain Routing (CIDR) block of /26 or greater.
- *Globix* configures, but does not build or maintain, client BGP configurations as part of this service offering. If needed, assistance may be obtained from *Globix* Network Services.
- *Globix* does not accept routing information for non-routable addresses, exchange point networks, other 'special' networks
- Clients that are multi-homed must ensure that *Globix* routes are not forwarded to their other ISP(s) and that routes from other ISP(s) are not announced to *Globix*.
- Contents of a client's Interior Gateway Protocol (IGP) should not be redistributed into BGP without explicit distribute-lists. BGP network statements may also be used.
- In the event of a customer BGP announcement adversely affecting the *Globix* backbone or others, *Globix* reserves the right to filter client announcements or shutdown a customer BGP peering session.

Customer Name: _____

New Service Existing Customer Upgrade/Modify Existing Service

Upon completion, return this form to a Globix Internet Consultant, or e-mail the form to support@globix.com.

All organizations that exchange BGP routing information must have an Autonomous System (AS) number. The AS number uniquely identifies an organization within the global routing system. If not already done, an AS number must be obtained by referring to ARIN (<http://www.arin.net>) for the Americas, RIPE (<http://www.ripe.net>) for Europe, or APNIC (<http://www.apnic.net>) for Asia.

1. AS number: _____

Globix typically configures BGP peering over a directly connected network. If necessary, Globix can provide an IP subnet for the peering session. If providing the addresses for the peering session, please make Globix aware of the IP address of the router port where the Globix connection terminates. Please also make Globix aware of the IP address that should be used on the Globix router port. These addresses will also be used to establish the BGP peering session. (Only with approval from the Globix Network Architecture group, Globix may peer via eBGP-multihop.)

2. IP Subnet (select one):

- Request that Globix provide subnet for peering connection
- Customer to provide network

Customer router port IP address: _____

Globix router port IP address: _____

Subnet mask: _____

BGP route exchange requires routers with a minimum of 128MB memory. In order to ensure the integrity of Globix core and upstream routing systems, Globix filters all routing announcements that are originated by customers. For this reason, customers need to specify the prefixes (network numbers and subnet masks) and AS numbers advertised to Globix. Note that the list of prefixes advertised to Globix will typically be the same as those advertised to other providers. Also, changes to this list must be communicated to Globix via email at support@globix.com.

3. Specify the list of network prefixes to be advertised to Globix:

(May be in network/length (e.g. 204.254.224.0/24) or network, netmask (e.g. 204.254.224.0, 255.255.255.0))

4. Please list all AS numbers advertised to Globix:

In order to select which path a multi-homed customer uses to send traffic onto the Internet, Globix needs to send/advertise a set of preferred routes via the Globix connection. Globix is able to advertise the following subsets of routing information.

5. Select one of the following options:

- Globix and Globix customer routes only
- Default only
- All Internet routes known to Globix

Internet Routing Registries (IRRs) maintain a database of what BGP announcements should be coming from each Autonomous System Number on the Internet. It is important to update one of the major IRRs because many ISPs and other providers use an IRR to build BGP filters. Globix has chosen to update the RADB (<http://www.radb.net>) and has informed peers to build filters based on the data contained in the RADB. If networks are not properly registered in the RADB it will impact how traffic is routed on the Internet. For each network provided in section (3), it is necessary to update the appropriate RADB database entries. RADB information is available at <http://www.radb.net>.