



## AT&T Global IP Network Settlement-Free Peering Policy

### The AT&T peering environment

AT&T, Inc., through its operating subsidiaries ("AT&T"), seeks to interconnect its IP network with other Internet backbone providers on a settlement-free basis when such interconnection provides tangible benefits to AT&T and its customers. AT&T prefers to interconnect with other global IP backbone providers of comparable size and traffic handling capabilities.

For both historical and technical reasons, the new AT&T's IP network spans several different Autonomous System Numbers (ASNs). AS7018 and AS7132 are both available for peering in the US. In the rest of the world, AS7018 does not peer, but other ASNs are available for peering: AS2685 (Canada), AS2686 (Europe and the middle east), AS2687 (Asia-Pacific), and AS2688 (Latin America). Peering requests with ASNs covering AT&T European, Latin American, Canadian or Asia-Pacific IP backbones are handled on an individual case basis. ISPs seeking peering with these ASNs should submit their request in writing to [peering@attglobal.net](mailto:peering@attglobal.net). ISPs should provide a written description of their network including such information as: 1) single country or regional network; 2) if regional-describe countries served and exchange points where they have a presence; 3) provide a list of autonomous system numbers and prefixes served and describe the type of traffic carried by the network (for example direct end users or content providers).

AT&T's US peering policy varies by ASN, as described below.

### AS7018 Peering Policy

Internet backbone providers that desire to initiate US peering sessions with AT&T's AS7018 must provide documented evidence to [peeringcoord@att.com](mailto:peeringcoord@att.com) that they conform to the following criteria. For criteria involving traffic measurements, 3 consecutive months of conforming data is required.

1. Peer must operate a US-wide IP backbone whose links are primarily OC192 or greater in size.
2. Peer must meet AS7018 at a minimum of five mutually agreeable geographically diverse points. The US interconnection points must be chosen from the following list of cities, and must include at least one city on the US east coast and one on the US west coast: New York City, Washington DC/Ashburn VA, Atlanta, Chicago, Dallas, Seattle, San Francisco/San Jose and Los Angeles. In addition one peering point must be in a European country and another in an Asia-Pacific country. Peerings outside the US will be with AT&T's regional AS only.
3. Traffic traveling over the US interconnection links to/from AS7018 must be on-net only and must amount to at least 1 Gbps peak in total.
4. Interconnection bandwidth must be at least OC12 at each US interconnection point.
5. A customer of any of AT&T's dedicated IP services on AS7018 may not simultaneously be a peer of AS7018.
6. Peer must have a professionally managed 24x7 NOC. Peer must agree to fix any problems within a reasonable timeframe. Peer must also agree to actively cooperate to resolve security incidents, denial of service attacks, and other operational problems.
7. Peer must maintain a balanced traffic ratio between its network and AS7018. In particular:
  - a. No more than 2.0:1.0 ratio of traffic flowing in either direction, on average
  - b. Balanced time of day traffic distribution currently as measured by peak to average traffic levels
8. Peer must abide by the following routing policy:
  - a. Peer must use the same peering AS at each US interconnection point, and must advertise a consistent set of routes at each point.
  - b. No transit or third party routes are to be announced; all routes exchanged must be customer routes.
  - c. We expect that peers will filter route announcements from their customers by prefix.
  - d. Neither party shall abuse the peering relationship by any of the non-exhaustive list of actions following, such as: pointing a default route at the other or otherwise forwarding traffic for destinations not explicitly advertised, resetting next-hop, selling or giving next-hop to others.
9. Existing peers of AS7018 will have their peering status reviewed periodically to ensure joint capacity planning and to ensure that all criteria continue to be met. AT&T reserves the right to terminate peering, upon a notice period as determined by the parties' agreement, with peers who do not meet the criteria described above. Maintaining a peering relationship with AT&T is also contingent upon the potential or existing peers continued financial stability. Periodic review of the policies above will be conducted to ensure that the criteria and

eligibility requirements are consistent with AT&T growth and expansion.

10. For current and potential peers having substantial portions of their network outside the US, AT&T may elect to evaluate the conditions for peering with that peer under the policies governing its European, Latin American, Canadian or Asia-Pacific IP ASNs, as set forth above.

Potential peers who meet the criteria described above should submit evidence of their compliance in writing to [peeringcoord@att.com](mailto:peeringcoord@att.com). Potential peers will be contacted within a reasonable timeframe to discuss their requests. Potential peers who do not meet the criteria described above may purchase transit service; that is, become a paying customer of AT&T's dedicated Internet access service. Within the United States, transit service is provided via Managed Internet Service and Managed IP Network Service; outside the United States Global Managed Internet Service is the transit offering.

AT&T reserves the right to terminate peering, upon a notice period as determined by the parties' agreement, with peers who do not meet the criteria described above. Maintaining a peering relationship with AT&T is also contingent upon the potential or existing peers continued financial stability. Periodic review of the policies above will be conducted to ensure that the criteria and eligibility requirements are consistent with AT&T's growth and expansion.

## AS7132 Peering Policy

Internet backbone providers that desire to initiate US peering sessions with AT&T's AS7132 must provide documented evidence to [peering@sbccom](mailto:peering@sbccom) that they conform to the following criteria. For criteria involving traffic measurements, 3 consecutive months of conforming data is required.

### AS7132 Public Settlement-Free Peering Guidelines:

1. For US-based ISPs, coast-to-coast nationwide OC48/STM16 (2.4 Gbps) or larger public IP backbone network.
2. For US-based ISPs, presence at three or more geographically dispersed public peering points listed below.
3. For international ISPs, presence at two or more of the public peering points listed below.
4. A total minimum busy hour traffic exchange of 50 Mbps with AS7132 will be required.
5. Must not have been an IP transit customer of AS7132 in the past six (6) months.
6. Willingness to enter into a Bilateral Interconnection Agreement and Non-Disclosure Agreement with SBC Internet.
7. Operation of a 24x7x365 Network Operations Center (NOC) that proactively monitors all peering connections and provides an escalation path to quickly identify and resolve network problems.
8. No requirement for a balanced traffic exchange ratio due primarily to the asymmetric nature of current broadband metallic transmission systems such as ADSL and cable modems.
9. Joint quarterly capacity planning reviews for interconnection augmentation to accommodate traffic growth and minimize the possibility of latency or packet loss between both networks.
10. Hot-potato routing is implied (i.e. we will not send or honor MEDs)
11. Consistent routes announcements at all public peering points.
12. MD5 passwords are required for all sessions.
13. Meeting the guidelines above for public peering with AS7132 is not a guarantee that peering will be established. AT&T reserves the right to not grant peering with AS7132 to an applicant based on business reasons.
14. Peers who are unable to maintain the minimums listed above will be given 30 days written notice to remedy the situation.
15. Periodic review of the policies above to ensure that the criteria and eligibility requirements are consistent with AS7132 growth and expansion is acknowledged.

### AS7132 Private Settlement-Free Peering Guidelines:

1. For US-based ISPs coast-to-coast nationwide OC-48/STM16 (2.4 Gbps) or larger public IP backbone network.
2. For US-based ISPs presence at three or more geographically dispersed private peering cities listed below.
3. For international ISPs presence at two or more geographically dispersed private peering cities listed below.
4. A total minimum busy hour traffic exchange of 250 Mbps with AS7132 will be required.
5. Must not have been an IP transit customer of AS7132 in the past six (6) months.
6. Willingness to enter into a Bilateral Interconnection Agreement and Non-Disclosure Agreement with AS7132.
7. Operation of a 24x7x365 Network Operations Center (NOC) that proactively monitors all peering connections and provides an escalation path to quickly identify and resolve network problems.
8. No requirement for a balanced traffic exchange ratio due primarily to the asymmetric nature of current broadband metallic transmission systems such as ADSL and cable modems.
9. Joint quarterly capacity planning reviews for interconnection augmentation to accommodate traffic growth and minimize the possibility of latency or packet loss between both networks.
10. Consistent routes announcements at all private peering points.
11. Hot-potato routing is implied (i.e. we will not send or honor MEDs)
12. MD5 passwords are required for all sessions.
13. Meeting the guidelines above for private peering with AS7132 is not a guarantee that private peering will be

established. We prefer to trial peering at several locations to best establish circuit sizing for privates prior to committing dedicated resources. AT&T reserves the right to not grant peering with AS7132 to an applicant based on business reasons.

14. Both companies shall agree to sustain an equal financial burden for the costs of private interconnection via local facilities.
15. Peers who are unable to maintain the minimums listed above will be given 30 days written notice to remedy the situation.
16. Periodic review of the policies above to ensure that the criteria and eligibility requirements are consistent with AS7132 growth and expansion is acknowledged.

AS7132's list of peering cities include:

US:

Equinix: Ashburn/VA, Chicago/IL, Dallas/TX, Los Angeles/CA, Newark/NJ, San Jose/CA  
Switch and Data: Atlanta/GA, New York City/NY, Palo Alto/CA, Seattle/WA  
Terremark: Miami/FL

Europe:

- UK – London - LINX
- NL – Amsterdam - AMS-IX
- DE – Frankfurt - DE-CIX
- FR – Paris - PARIX
- BE – Brussels – BNIX
- ES – Madrid - ESPANIX

AT&T reserves the right to terminate peering, upon a notice period as determined by the parties' agreement, with peers who do not meet the criteria described above. Maintaining a peering relationship with AT&T is also contingent upon the potential or existing peers continued financial stability. Periodic review of the policies above will be conducted to ensure that the criteria and eligibility requirements are consistent with AT&T's growth and expansion.

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