

Griffin Internet Peering Policy July 2009

Introduction

This document is produced for the purposes of providing information about the Griffin Internet network and should be read in its entirety. The content of this document is correct at the time of issue, however no guarantee is given regarding the accuracy of the contents nor shall any part of this document become contractually binding in any form.

Griffin Internet assumes no liability as a result of actions or inactions that result directly or indirectly from this document.

Company Information

Griffin is the UK's leading channel only supplier of white label managed broadband. Through a network of Partners Griffin provide UK businesses with a range of business broadband products including ADSL, SDSL, L2TP, LLU, MPLS IPVPN, Leased Lines, SAN Hosting, Dedicated Servers and Managed IP Services.

Griffin has won a host of business awards including the Sunday Times Tech Track and Fast 50 awards as well as industry awards such as the Comms Business ISP of the year award and Storage product of the year.

Autonomous Systems

Griffin Internet operates with the single global Autonomous System Number (ASN) of ASN20500.

All autonomous systems transited by the Griffin Internet network are contained in the AS-SET (or AS-MACRO in RIPE-181 terminology) AS-GRIFFIN which is stored in the RIPE Internet routing registry. Some customer information is only available at other Internet Routing Registries (IRR), such as Routing Assets Database (RADB).

The preferred method of filter generation is to build them automatically from the AS-GRIFFIN data stored in the global IRR.

The current set of prefixes transited within AS-GRIFFIN, as registered in the RIPE IRR, is appended to the bottom of this document.

Peering Points

Griffin Internet is present at the following public peering points (also known as Internet Exchange Points (IEPs), amongst other names).

Exchange	Location	IP address	Ports	Notes
LINX	London, UK	195.66.224.38	1GB	Telecity Group HEX 8/9
LINX	London, UK	195.66.226.38	100MB	Telecity Group HEX 6/7
AMS-IX	Amsterdam	195.69.144.61	1GB	
LoNAP	London, UK	193.203.5.158	1GB	Telecity Group HEX 6/7

In addition Griffin Internet can sustain private peering at the following data centres:

Data centre	Location	Type
Telecity Group 8/9 HEX	London, UK	Direct
Telecity Group 6/7 HEX	London, UK	Direct
City Life Line (Clifton Street)	London, UK	Direct
Telehouse North	London, UK	Datahop
Telehouse East	London, UK	Datahop
Telehouse Metro	London, UK	Datahop
TelecityGroup Meridian Gate	London, UK	Datahop
Telecity Group Sovereign House	London, UK	Datahop
Telecity Group Bonnington House	London, UK	Datahop
Interxion Hanbury Street/Brick Lane	London, UK	Datahop
Global Switch London 1	London, UK	Datahop
Level(3) Goswell Road	London, UK	Datahop
Level(3) Braham Street	London, UK	Datahop
London Hosting Centre (Telstra)	London, UK	Datahop
Thus (Legend) iPhouse	London, UK	Datahop

Peering Policy

This document sets forth Griffin Internet's policy for settlement-free interconnection (the 'policy'), also known as 'peering'. Griffin Internet updates this policy from time to time and maintains the current version on the Griffin Internet peering web site at www.griffin.com/network.

Definitions

Section 1 of the policy lists the requirements that an Internet network requesting peering (the 'requester') must satisfy in order to qualify for settlement-free peering. For the purposes of this policy, an Internet network must be a single Autonomous System Number (ASN). A company with more than one ASN will have each ASN considered separately.

Section 2 of the policy lists the operational requirements that must be met by the requester.

Section 3 outlines the process by which peering will be established.

This policy applies to all requests for settlement-free interconnection with the Griffin Internet network either by dedicated connections ('private peering') or by multi-party network access points ('public peering').

1. Peering Requirements

1.1 Public Peering

1.1.1 Network scope: The requester shall have the ability to interconnect with Griffin Internet in a minimum of two peering locations where Griffin Internet has a peering point of presence.

1.1.2 Minimum utilisation: The peering requester must have a minimum aggregate of 5Mb/s and a maximum of 200Mb/s on any single peering exchange.

1.1.3 Minimum number of routes: The peering requester must carry a minimum of 1 unique route in interconnect routers, and announce consistent routes using BGP4 at all peering locations. Griffin Internet will not permit routes longer than a /24 from its peers.

1.1.4 Existing IP transit customers of Griffin Internet are not generally eligible for peering.

1.2 Private Peering

1.2.1 Network scope: The requester must operate an Internet network in either:

- Two cities in Europe,
- One city in the Americas, and/or
- Pacific Rim

1.2.2 Network capacity: The requester must have a backbone with a minimum 100MB between any two backbone cities.

1.2.3 Minimum interconnect: The requester shall have the ability to interconnect with Griffin Internet in a minimum of two geographically diverse peering locations where Griffin Internet has a peering point of presence. The peering requester must have the ability to interconnect directly at a minimum GigE (1000Mbps) or greater capacity levels at each point of interconnection.

1.2.4 Minimum number of routes: The peering requester must carry full customer routes in Interconnect routers, and announce consistent routes using BGP4 at all peering locations. Griffin Internet will not permit routes longer than a /24 from its peers.

1.2.5 Existing IP transit customers of Griffin Internet are not generally eligible for peering.

2. Operational Requirements

2.1 The requester must operate a 24x7 network operations centre (NOC) or an equivalent support system that responds to reported issues within 24 hours and can resolve abuse, security, or routing issues within 48 hours.

2.2 The requester must operate a network with sufficient redundancy and capacity that the failure of a single node will not significantly affect performance.

2.3 The ratio of the aggregate amount of traffic exchanged between the requester and Griffin Internet shall be roughly balanced and shall not exceed bidirectional ratio of 2:1.

2.4 Hot-potato routing is implied (i.e. we will not send or honour Multiple Exit Discriminators MEDs).

2.5 MD5 passwords are not required for Border Gateway Protocol (BGP) sessions.

2.6 The requester shall not point default into or transit the other network where that network has not advertised a route for the destination in question.

2.7 The requester shall monitor the usage of all interconnection links. If the utilisation of any single link should exceed 90% for a period of at least one hour for three consecutive days, the networks shall work together to increase capacity or to reroute traffic in order to reduce utilisation.

2.8 The requester shall be responsible for communicating with its customers with respect to its Internet network and the services, including Internet connectivity.

2.9 The interconnection requester must provide 48 hours notice to Griffin Internet Operations department for scheduled maintenance. Said maintenance windows to be between 00:00hrs and 06:00hrs of local time.

2.10 Joint quarterly capacity planning reviews for interconnection augmentation to accommodate traffic growth and minimise the possibility of latency or packet loss between both networks.

2.11 Peers who are unable to maintain the minimums listed in sections 1 and 2 may be given 30 days written notice to remedy the situation.

2.12 Peers must have up to date and accurate records in peeringdb.com.

3. Peering Process

3.1 The requester and Griffin Internet must enter into a bilateral peering agreement.

3.2 The requirements set forth in section 1 of this policy must be met at the time the request for settlement-free peering with Griffin Internet is made. All requirements in this policy must continue be met in order for the requester to remain eligible for peering.

3.3 Griffin Internet may require a trial peering connection spanning a minimum of one month with the requester to measure accurately the traffic ratios between the requester and Griffin Internet. A successful trial does not guarantee that Griffin Internet will peer with this requester.

3.4 All requests for settlement-free peering must be submitted via e-mail to peering@griffin.com. The e-mail should include:

- ◆ The requester's complete contact information (name, phone, email)
- ◆ The requester's ASN
- ◆ A list of suggested interconnection points
- ◆ A trace-route showing the current path taken to www.griffin.com/network
- ◆ An IP address Griffin Internet can trace-route to for testing purposes

3.5 Griffin Internet reserves the right to grant or refuse peering to a requestor, whether or not they would otherwise meet these requirements.

IRR entry

http://www.ripe.net/cgi-bin/whois?full_query_string=&searchtext=AS20500&object_type=aut-num