

GXP Checklist – for self-assessing your Exchange Point in the GNA
Version 1.1
2/21/17



Name of GXP:
Filled out by:
Date:

Design Elements:

- 1) Is the GXP a single non-blocking switch?
- 2) Is the GXP set up as multiple distributed switches?
 - a. If yes what is the capacity between the switches?
 - b. Please elaborate on your plan for keeping it non-blocking:

Colocation:

- 1) Is colocation arranged with the building/facility owner?
- 2) Is colocation arranged with the GXP operator?
- 3) Is colocation "Carrier Neutral"?
 - a. If not what restrictions exist?
- 4) Are fiber cross-connects available in the facility?
 - a. Are they set up through the building/facility owner?
 - b. Are they set up with the GXP operator?
 - c. Other means?
- 5) Are remote hands available?
 - a. If yes, through the facility owner or the GXP operator?
- 6) Is there secure access to the building and GXP location?
 - a. How is this accomplished?
 - b. Are access lists for the building and GXP maintained?
 - i. If so by whom?

Power and Cooling:

- 1) Is AC power available?
- 2) Is DC power available?
- 3) Are there other measures of power?
- 4) Is there adequate or guaranteed UPS/Generator backup?
- 5) Is cooling adequate or guaranteed?

Principles of Operation:

- 1) Is any R&E Network organization (loosely defined) allowed to connect?
 - a. If not, what restrictions exist?
- 2) Is any organization active in R or E (loosely defined) allowed to connect?
 - a. If not, what restrictions exist?

- 3) Is any other sort of organization allowed to connect?
 - a. If not what restrictions exist?
- 4) Is the GXP operator transparent about operations, ie. is information on policies, procedures and costs readily available?
 - a. If yes, please state URL:
- 5) Are there any restrictions on allowed peering?
- 6) Are there any required peerings?
- 7) Does the GXP have 24x7x365 NOC support?
 - a. If not what are the support times and timezone(s)?
 - b. What arrangements have been made for support during off hours (if any)?
- 8) Does the GXP maintain an AUP or other restrictions on allowed traffic, connectors or usage?

Measurement:

- 1) Are performance metrics publicly available?
 - a. Uptime?
 - b. Packet loss?
 - c. Port availability?
 - d. Other?
 - e. Please state URL(s):
- 2) Does the operator have the ability to capture and retain traffic traversing the GXP?
 - a. Is so what is done with this data?
 - b. How long is it maintained?
 - c. Is it covered by a privacy policy?
 - i. Please state URL to that policy:
 - d. Is basic throughput data collected and made available?
- 3) A GXPs must collect aggregate throughput data, is this done?
 - a. Is this information available to the community?
 - b. If so how and where is it published (URL)?
- 4) Does the GXP have the ability to collect data on a per vlan basis?
 - a. This data may not be made generally available, how is it protected?
 - b. This data may be made available to the vlan participants, how is this done?
- 5) All transit data is the property of the connectors not the GXP operator.
 - a. Is this policy upheld (and how)?
- 6) All meta-data is within the sphere of the GXP operator.
 - a. Is this available?

Policies and procedures:

- 1) All GXP operators must create and make generally available policy statements on:
 - a. Privacy – Is this done (and state URL please)

- b. Netflow data – Is this done (and state URL please)?
- c. Packet capture in general – Is this done (and state URL please)?
- d. Operational data that may be used to identify users – Is this done (and state URL please)?

Performance Assurance:

- 1) Is there a performance monitoring device available at the GXP?
 - a. Is it generally available for access (and state URL please)?
 - b. Are you using perfSONAR?
 - c. Is it used for regular testing (Maddash for instance) or Ad Hoc testing or both?
 - d. Are you willing and able to participate in a GNA Maddash?

Operation Level Agreements:

- 1) Does the operator of the GXP publish Service Delivery expectations?
 - a. Time to finalize a connection?
 - b. Configuration of vlan etc time?
 - c. Please state URL
- 2) Will the GXP be a part of either an end to end SLA or OLA?

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