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, i.e. 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?