

DTS Fiber BGP Peering Policy

1. Introduction

DTS Fiber (AS33099 and AS36016) operates a regional fiber-optic broadband and transport network serving residential, business, enterprise, and carrier customers.

This document describes the routing policies and requirements governing BGP interconnection with DTS Fiber.

2. Peering Philosophy

DTS Fiber supports interconnection arrangements that improve network performance, reliability, and efficiency for mutual customers.

DTS Fiber will evaluate peering requests based on:

- Technical merit
- Traffic exchange benefits
- Network stability
- Geographic reach
- Capacity requirements
- Operational compatibility

Peering requests are reviewed individually and approval is at the sole discretion of DTS Fiber.

3. Peering Types

DTS Fiber may participate in:

Settlement-Free Peering

Available where:

- Mutual benefit exists
- Traffic ratios are reasonably balanced
- Both parties maintain stable networks
- Adequate capacity is available

Paid Peering

Available when:

- Traffic exchange is significantly imbalanced

- Special routing requirements exist
- Dedicated interconnection capacity is requested

Transit Services

DTS Fiber may provide or purchase IP transit under separate commercial agreements.

4. Technical Requirements

All peers must:

- Operate a public ASN
- Maintain accurate IRR records
- Maintain valid RPKI ROAs where applicable
- Support BGP-4
- Maintain a 24x7 NOC contact
- Provide current PeeringDB information

Recommended:

- IPv4 and IPv6 support
 - BFD support
 - MD5 authentication where appropriate
 - Maximum-prefix limits
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5. Routing Policy

Accepted Routes

DTS Fiber accepts:

- Customer routes
- Transit routes
- Peer routes
- Authorized prefixes covered by:
 - Valid IRR objects
 - Valid RPKI ROAs (preferred)

Rejected Routes

DTS Fiber rejects:

- Martian prefixes
- Bogon ASN advertisements
- Private ASN leakage

- Default routes unless explicitly agreed
 - Unallocated address space
 - Invalid RPKI routes
 - Improperly registered IRR routes
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6. Prefix Filtering

Peers must ensure:

- Only authorized prefixes are advertised
- Proper AS-PATH origination exists
- Route objects are maintained in appropriate IRRs

DTS Fiber reserves the right to filter advertisements using:

- RPKI validation
 - IRR validation
 - Prefix-length filtering
 - AS-PATH filtering
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7. RPKI Policy

DTS Fiber strongly supports Resource Public Key Infrastructure (RPKI).

Routing policy:

Validation State	Action
Valid	Accepted
Not Found	Accepted
Invalid	Rejected

Peers are encouraged to maintain accurate ROAs for all originated prefixes.

8. Maximum Prefix Limits

DTS Fiber maintains maximum-prefix thresholds on all BGP sessions.

Peers exceeding configured limits may have sessions automatically shut down to protect network stability.

Limits are established during provisioning and reviewed periodically.

9. Traffic Engineering

DTS Fiber may use:

- Local Preference
- MED
- AS Path Prepending
- Community-based routing controls

Peers should not excessively prepend or manipulate routes in a manner that negatively impacts network stability.

10. BGP Communities

Where supported, DTS Fiber may publish BGP communities for:

- Traffic engineering
- Blackhole routing
- Local preference adjustments
- Geographic routing controls

Community definitions will be provided separately.

11. DDoS Mitigation and Blackholing

DTS Fiber reserves the right to:

- Filter malicious traffic
- Apply RTBH (Remote Triggered Black Hole) routes
- Coordinate mitigation efforts with peers and upstreams

Blackhole community support may be available upon request.

12. Network Abuse

Peers must:

- Respond promptly to abuse reports
- Maintain abuse contact information
- Cooperate during security incidents

Persistent abuse or operational issues may result in suspension or termination of peering.

13. Maintenance and Outages

Planned maintenance affecting interconnections will be communicated whenever practical.

Emergency maintenance may occur without prior notice when required to preserve network stability.

14. Service Levels

BGP sessions are provided on a best-effort basis unless covered by a separate contractual agreement.

DTS Fiber does not guarantee specific routing paths.

15. Contact Information

Network Operations Center

Organization: DTS Fiber

ASN: AS33099 & AS36016

NOC Email: noc@dtsfiber.com

NOC Phone: (888) 742-8050

Peering Requests

Please provide:

- ASN
 - Company Name
 - PeeringDB/ARIN/RADB Records
 - IPv4 Prefixes
 - IPv6 Prefixes
 - Desired Interconnection Location
 - Technical Contact Information
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16. Reservation of Rights

DTS Fiber reserves the right to modify this policy at any time without notice and to approve, deny, suspend, or terminate any BGP interconnection arrangement at its sole discretion.
