Test Paths and Remote Server Locations

These charts provide several use cases that show acceptable and unacceptable paths for end-to-end testing, and remote test server placement.

These charts should help ensure the clear identification of FCC-Designated IXPs, and their role in acceptable testing paths.

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Path From Customer Premises to Remote Server in FCC-Designated IXP

LEGEND
- Customer Premises
- Network Facility
- FCC Qualified IXP
- Remote Test Server
- ETC Router
- Transit Provider Router
- FCC-Designated ASN Router
- Network Link
- Testing Path
- ETC Network
- Transit Network
- FCC-Designated ASN Network

Available for Public Use
ALTERNATIVE PATH THROUGH THE FCC-DESIGNATED IXP TO ALTERNATIVE FACILITY

Remote Test Server Device at Alternative Location Where Path Passes Through FCC-Designated IXP Facility

LEGEND

- Customer Premises
- Network Facility
- FCC Qualified IXP
- Remote Test Server
- ETC Router
- Transit Provider Router
- FCC-Designated ASN Router
- FCC-Designated ASN Network
- ETC Network
- Transit Network
- Network Link
- Testing Path
Path Through a Transit Provider to the FCC-Designated IXP

**ACCEPTABLE PATH**

ETC Distribution Network

Transit Provider Network

Remote Test Server Device in FCC-Designated IXP

FCC-Designated ASN

ASN Active Interface

FCC-Designated IXP Facility

**LEGEND**

- Customer Premises
- Network Facility
- FCC Qualified IXP
- Remote Test Server
- ETC Router
- Transit Provider Router
- FCC-Designated ASN Router
- Network Link
- ETC Network
- Transit Network
- FCC-Designated ASN Network
- Testing Path

Available for Public Use
Path Through a Transit Provider Then Through an FCC-Designated IXP to Alternative Facility

Legend:
- Customer Premises
- Network Facility
- FCC Qualified IXP
- Remote Test Server
- ETC Router
- Transit Provider Router
- FCC-Designated ASN Router
- Testing Path
- Network Link
- ETC Network
- Transit Network
- FCC-Designated ASN Network
- ASN Active Interface
- FCC-Designated IXP Facility
Path From Customer Premises to Remote Server Is NOT in FCC-Designated IXP

NOT ACCEPTABLE

FCC-Designated IXP Facility

Remote Test Server in Facility With a Connection to FCC-Designated IXP Facility

Direct Link to ASN in IXP

FCC-Designated ASN

ASN Active Interface

ETC Distribution Network

NETWORK TRANSPORTER

TRANSPORTER DISTRIBUTION NETWORK

TRANSPORTER ROUTER

FCC-QUALIFIED IXP

REMOTE TEST SERVER

CUSTOMER PREMISES NETWORK

LEGEND

Customer Premises
Network Facility
FCC Qualified IXP
Remote Test Server
ETC Router

Transit Provider Router
FCC-Designated ASN Router
Network Link
Testing Path
Alternative Path, But It Does Not Pass Through FCC-Designated IXP

Remote Test Server Device at Alternative Location, Possibly in Same City as FCC-Designated IXP

LEGEND

- Customer Premises
- Network Facility
- FCC Qualified IXP
- Remote Test Server
- ETC Router
- Transit Provider Router
- FCC-Designated ASN Router
- Network Link
- Testing Path
- ETC Network
- Transit Network
- FCC-Designated ASN Network
- FCC-Designated IXP Facility
- ASN Active Interface
Path From Last ETC Node Before Customer Premises to Server in FCC-Designated IXP

ETC Distribution Network

ETC Aggregation Devices That Are a Part of Last-Mile Portion of Network, e.g. DSLAM, CMTS, OLT, Wireless Tower

FCC-Designated IXP Facility

ETC Controlled/Owned Router/Switch/Net Device

Remote Test Server Device in IXP

ASN Active Interface

FCC-Designated ASN

FCC-Designated ASN Network

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