



WELCOME TO THE DETROIT INTERNET EXCHANGE

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TABLE OF CONTENTS



BRINGING NETWORK ACCESS CLOSER TO MICHIGAN BUSINESSES & COMMUNITIES

Welcome to the DET-iX	2
What is the DET-iX?	2
Why Join the DET-iX?	2
Cost Savings	2
Improved End-User Experience	2
Increased Redundancy	2
Larger Bandwidth Capacity	2
Who Can Connect?	3
Conditions of Joining	3
Become a Member	3
Route Server Connections	4
Traditional Connections	4
Why Use DET-iX Route Servers?	4
DET-iX Route Server Details	4
Peering Partners	5

WELCOME TO THE DET-iX

Thank You for Your Interest in the Detroit Internet Exchange (DET-iX)

WHAT IS THE DET-iX?

The Detroit Internet Exchange (DET-iX) is a not-for-profit Regional Internet Exchange Point (IXP). This IXP, where networks come together to peer or exchange traffic, reduces the traffic a member purchases from an upstream transit provider. The collaboration of local, regional, and global networks allows traffic to be shared freely between members rather than paying a large Tier 1 provider to make the connection.

WHY JOIN THE DET-iX?

Joining the Detroit Internet Exchange is FREE. Members benefit from:

Cost Savings

- Routing a Large Percentage of Traffic Through an Exchange Decreases Spend on Transit Providers
- Ports at the Detroit Internet Exchange are FREE

Improved End-User Experience

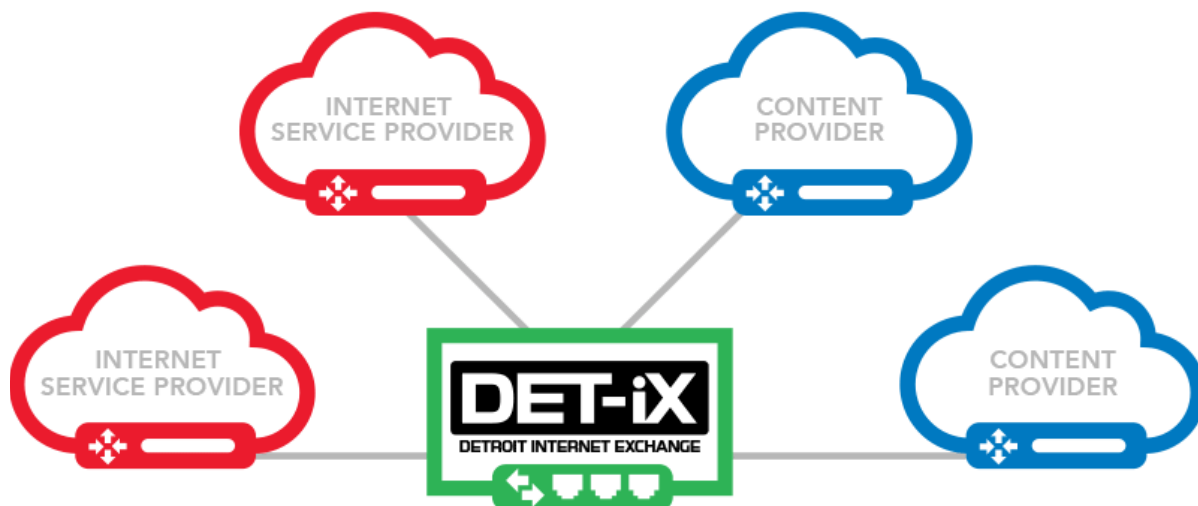
- Increase Network Speed, Reduce Hops & Lower Latency by Creating More Direct Paths Between Networks

Increased Redundancy

- Adding Peers Minimizes Transit Provider Dependence

Larger Bandwidth Capacity

- Distribute Large Traffic Amounts Across Many Networks



WHO CAN CONNECT?

Any organization that controls an ASN and IP addresses can connect to an exchange point. Some example organizations include Internet Service Providers, Content Delivery Networks, Automotive Manufacturing, Academic Institutions, Local Governments, and many more.

CONDITIONS OF JOINING

- Have Control of an Autonomous System Number (ASN) & IP Addresses (/24 or Larger)
- Network Access to a DET-iX Enabled Data Center
- Create an Entry in PeeringDB (peeringdb.com)

BECOME A MEMBER

For more information, use one of the following methods to contact:

- Email: peering@detroitix.com
- Phone: 1.800.227.1957

ROUTE SERVER CONNECTIONS

TRADITIONAL CONNECTIONS

Traditionally at an internet exchange, members will establish bilateral peering relationships with each other member connected to the exchange fabric. As the number of connected members increases, it becomes increasingly more difficult to manage peering relationships.

WHY USE DET-iX ROUTE SERVERS?

Peering with route servers creates a lower barrier to entry for incoming members. By using route servers for peering relationships, the number of Border Gateway Protocol (BGP) sessions per router stays at a couple or few instead of many. This is a more sustainable way of maintaining IXP peering relationships with many participants.

DET-iX ROUTE SERVER DETAILS

*Route Server	ASN	IPv4 Address	IPv6 Address
Route Server #1	7949	209.124.52.255	2607:f790:100::255
Route Server #2	7949	209.124.53.0	2607:f790:100::256
Route Server #3 (CDN)	7949	209.124.53.254	2607:f790:100:1000

*Route advertisement can be suppressed by using a standard BGP community of 0:(ASN).

*Due to AS7949 being removed from the AS Path when receiving routes, a 'no bgp enforce-first-as' is required.

It is recommended to peer to both Route Server #1 and #2 for redundancy. As of 12/2020, the route servers are learning approximately 85k IPv4 prefixes and 36k IPv6 prefixes. These prefixes are selected to be the best routes and the number per member is determined based on these factors:

- Filtering Mode Selected
- Your Peering Policy
- Peering Policy of Other Members

Route Server #3 is a high-capacity router connected to the DET-iX. This router has access to cache appliances that do not support direct member BGP peering (Netflix OCA's, Twitch, etc.).

PEERING PARTNERS

Member	ASN	Speed	IPv4	IPv6	Route Server	Policy
123NET	12129	40G	209.124.52.123	2607:F790:100::123	Yes	Open
A2 Hosting, Inc.	55293	10G	209.124.52.4	2607:F790:100::4	Yes	Open
AAA - The Auto Club Group	31923	10G	209.124.52.64	2607:F790:100::64	Yes	-
ACD.net/ACD Telecom, Inc.	14103	10G	209.124.52.99		Yes	Selective
Acenet, Inc	22878	10G	209.124.52.17	2607:F790:100::17	No	Open
Air Advantage	27216	10G	209.124.52.50	2607:F790:100::50	Yes	Open
Akamai Technologies	20940	100G	209.124.52.14	2607:F790:100::14	Yes	Open
Amazon.com	16509	100G	209.124.52.60	2607:F790:100::60	No	Selective
Amplex Electric, Inc	20205	10G	209.124.52.42	2607:F790:100::42	Yes	Open
Aptient Consulting Group Inc.	63126	1G	209.124.52.24	2607:F790:100::24	Yes	Open
Baker College	393665	10G	209.124.52.58	-	Yes	Open
CacheFly	30081	10G	209.124.52.48	2607:F790:100::48	No	Selective
Casair	19310	20G	209.124.52.43	2607:F790:100::43	Yes	Open
Clear Rate Communications	22438	1G	209.124.52.13	2607:F790:100::13	Yes	Open
Cloudflare	13335	10G	209.124.52.26	2607:F790:100::26	Yes	Open
CMSInter.net, LLC	26271	10G	209.124.52.16	2607:F790:100::16	Yes	Open
Cutting Edge Computers	62611	10G	209.124.52.62	2607:F790:100::62	Yes	Open
D & P Communications	13728	10G	209.124.52.28	2607:F790:100::28	Yes	Selective
Daystarr Communications	21527	10G	209.124.52.25	2607:F790:100::25	Yes	Open
DET-iX Route Server #1	7949	-	209.124.52.255	2607:F790:100::255	-	Open
DET-iX Route Server #2	7949	-	209.124.53.0	2607:F790:100::256	-	Open
DET-iX Route Server #3 (CDN) Netflix, Twitch	7949	-	209.124.53.254	2607:F790:100::1000	-	Open
Everstream	30517	10G	209.124.52.18	2607:F790:100::18	Yes	Open
Facebook	63293	10G	209.124.52.37	2607:F790:100::37	No	Selective
Fastly, Inc.	54113	10G	209.124.52.34	2607:F790:100::34	Yes	Selective
General Motors LLC	30383	20G	209.124.52.53, 54	2607:F790:100::53, 54	Yes	Selective
Google Inc.	15169	20G	209.124.52.20	2607:F790:100::20	Yes	Open
Grid4 Communications	36394	1G	209.124.52.49	2607:F790:100::49	Yes	Open



BRINGING NETWORK ACCESS CLOSER TO MICHIGAN BUSINESSES & COMMUNITIES

DETROIT INTERNET EXCHANGE

Member	ASN	Speed	IPv4	IPv6	Route Server	Policy
Hurricane Electric	6939	20G	209.124.52.27	2607:F790:100::27	Yes	Open
LakeNet LLC	11910	10G	209.124.52.52	2607:F790:100::52	Yes	Open
LightSpeed Communications	63242	10G	209.124.52.6	2607:F790:100::6	Yes	Open
Limelight Networks	22822	100G	209.124.52.63	2607:F790:100::63	No	Selective
M3 Wireless	54932	10G	209.124.52.51	2607:F790:100::51	Yes	Open
ManagedWay Company	53292	10G	209.124.52.2	2607:F790:100::2	Yes	Open
MEI Telecom	54373	10G	209.124.52.44	2607:F790:100::44	Yes	Open
Mercury Network Corporation	13549	10G	209.124.52.23	2607:F790:100::23	Yes	Open
Merit Network Inc.	237	100G	209.124.52.12	2607:F790:100::12	No	Open
Microsoft	8075	100G	209.124.52.65	2607:F790:100::65	No	Selective
Microsoft	8075	100G	209.124.52.66	2607:F790:100::66	No	Selective
Miller Canfield	36127	10G	209.124.52.67	2607:F790:100::67	Yes	-
MITCON	64223	20G	209.124.52.45	2607:F790:100::45	Yes	Open
Network Services Group	15154	10G	209.124.52.19	2607:F790:100::19	Yes	Open
Nexcess.net LLC	36444	10G	209.124.52.5	2607:F790:100::5	Yes	Selective
Oakland Schools	14241	10G	209.124.52.41	2607:F790:100::41	Yes	Open
Salesforce.com	14340	10G	209.124.52.47	2607:F790:100::47	Yes	Selective
Secant / Aanalytics	27287	1G	209.124.52.31	2607:F790:100::31	Yes	Open
Spartan Net	10423	20G	209.124.52.15	2607:F790:100::15	Yes	Open
St. Clair County RESA	393474	10G	209.124.52.40	2607:F790:100::40	Yes	Selective
Subrigo Corporation	19257	1G	209.124.52.36	2607:F790:100::36	Yes	Open
TelNet Worldwide	27553	10G	209.124.52.29	2607:F790:100::29	Yes	Open
US Signal	26554	2G	209.124.52.7	2607:F790:100::7	No	Open
Verizon Digital Media Services (EdgeCast Networks)	15133	100G	209.124.52.39	2607:F790:100::39	Yes	Open
Washtenaw Fiber Properties	267	10G	209.124.52.56	2607:F790:100::56	Yes	Open
Xfernet	27630	10G	209.124.52.33	2607:F790:100::33	Yes	Open
Xiber LLC	27630	10G	209.124.52.55	2607:F790:100::55	Yes	Open