

BGP Communities

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Informational Communities

Region Coding

WiscNet embeds informational code in to BGP routes. This code is always 5 digits starting with 5.

2381:5RCCP

1st	2nd - Region	3rd+4th - Code - POP	5 - Peer Relationship	
5	1 - North West (Superior area)	2 digit POP code	1	Transit
	2 - North Central (Ashland area)	unique per region. 01-99	2	Peer - Public (IX)
	3 - North East (Marinette area)		3	Peer - Private (PNI)
	4 - West (Minneapolis area)		4	Peer - Research
	5 - Central (Wausau area)		5	Cache
	6 - East (Green Bay area)		7	Aggregate
	7 - South West (Platteville area)		8	Customer
	8 - South (Madison area)			
	9 - South East (Milwaukee area)			
Examples	2381:51011	Transit from Northwest Region, Pop # 01		
	2381:59342	Peer from South East region, pop # 34		

Specific

3 digit communities are uniquely defined per individual peer or transit.

Region	Name	Community
4 West	wn_PeerPrivMSPApple	2381:311
	wn_PeerPubMspMICE	2381:211
	wn_TransitMspTelia	2381:111
	wn_TransitMspGTT	2381:112
8 South	wn_PeerPrivMsnUWSysNet	2381:381
	wn_PeerPubMadix	2381:281
9 South East	wn_PeerPrivMkeUWSysNet	2381:391

wn_PeerPubMKEIX	2381:291
wn_TransitMkeTelia	2381:192
wn_PeerPrivChiAmazon	2381:398
wn_PeerPrivChiAkamai	2381:324
wn_PeerPrivChiApple	2381:394
wn_PeerPrivChiByteDance	2381:395
wn_PeerPrivChiEdgecast	2381:397
wn_PeerPrivChiFacebook	2381:396
wn_PeerPrivChiFastly	2381:328
wn_PeerPrivChiGoogle	2381:392
wn_PeerPrivChiLimelight	2381:395
wn_PeerPrivChiMicrosoft	2381:327
wn_PeerPrivChiNetflix	2381:393
wn_PeerPrivChiStackpath	2381:325
wn_PeerPrivChiTwitch	2381:399
wn_PeerPrivChiValve	2381:329
wn_PeerPubChiChiX	2381:293
wn_PeerPubChiEquinix	2381:292
wn_TransitChiTelia	2381:191
wn_TransitChiHurricane	2381:193

Actions

Action communities are available to WiscNet BGP speaking members. Please contact support@wiscnet.net for setup and further information. Note that reference to the Informational Codes above is required.

Encoding	Community	Action
	2381:911	Blackhole trigger, ipv4 or ipv6 - customers only
	65535:0	GRACEFUL_SHUTDOWN (rfc8326) Accepted from Customers and Peers

	65535:666	Todo: RFC7999 BLACKHOLE
Global Actions		
2381:A000 A - Action	2381:1000	Global - Prepend 1x to all peers
	2381:2000	Global - Prepend 2x to all peers
	2381:3SSS	Special actions, such as Cache leaking. Contact for details.
	2381:4000	Global - Prepend 4x to all peers
	2381:6000	Global - Do not advertise (no-export)
	2381:8LLL	Adjust internal BGP attributes within AS2381 for dual homed peers - Localpref - Prefer Highest (Lpref +40) : 2381:840 - Localpref - Prefer High (Lpref + 20) : 2381:8820 - Localpref - Depref/Lower (Lpref -20) : 2381:8780 - Localpref - Depref/Lowest (Lpref -40) : 2381:8760 - MED - Prefer (MED -3): 2381:8507 - MED - Depref (MED +7): 2381:8517
<i>Examples</i>	2381:8780	<i>Deprefer this BGP session</i>
	2381:8820	<i>Prefer this BGP session</i>
Peer Relationship Actions		
6500P:A000 P - Peer Type A - Action	6500P:A000	Peer Types: 1 - Transit 2 - Public Peer 3 - Private Peer 4 - Research 8 - Customer
	6500P:A000	Actions: 1 - Prepend 1x 2 - Prepend 2x 4 - Prepend 4x 6 - Do Not Advertise (no-export)
<i>Examples</i>	6500:3:1000	<i>Prepend 1x to all Private Peers</i>
	6500:2:4000	<i>Prepend 4x to all Public Peers</i>
	6500:1:6000	<i>Do not advertise to Transit providers</i>
	6500:8:6000	<i>Do Not Advertise to WiscNet Customers</i>
Per Peer AS Actions		
6540A:ASN A - Action	65401:ASN	Prepend 1x to ASN
	65402:ASN	Prepend 2x to ASN
	65404:ASN	Prepend 4x to ASN
	65406:ASN	Do not advertise to ASN
<i>Examples</i>	65406:6939	<i>Do Not Advertise to AS 6939 (Hurricane Electric)</i>
	65404:3356	<i>Prepend 4x to AS 3356 (Level3)</i>