

peer speed-dating

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PEERING WITH OTHER NETWORKS TODAY...

- Usually via email
- Often with not enough information
- No integration with internal systems (or on only one side)
- Potentially in a foreign language (or in very broken English)
- Often difficult to keep track of status



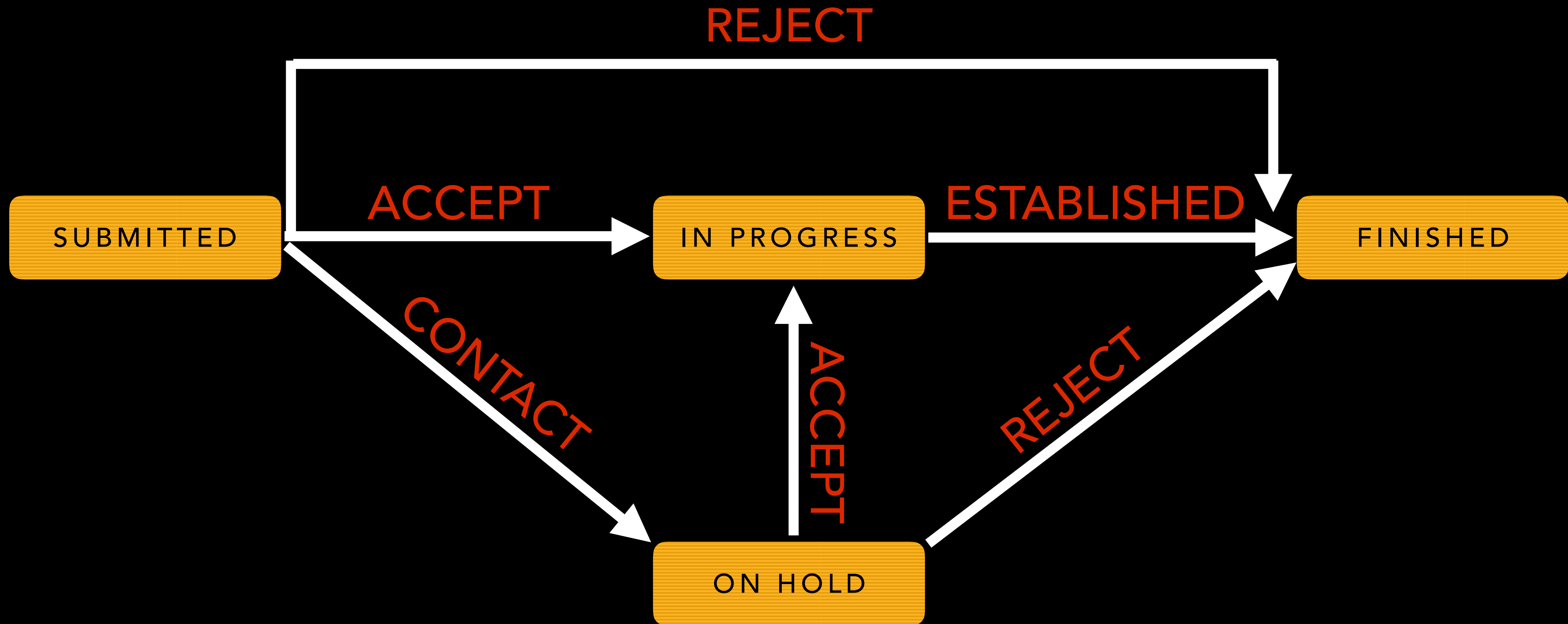
ALL THIS DATA IS
ALREADY IN PEERINGDB...

PINDER

SWIPE RIGHT ON A NEW PEERING RELATIONSHIP



Pinder Peering Request States



What does "CONTACT" mean?

- You are not saying "ACCEPTED" right now...
- You are not saying "REJECTED" either...
- You want to speak to the other party about the request
- They should e-mail / call you out-of-band using your PeeringDB contact
- After discussion, you can then choose to ACCEPT or REJECT in the app

Pinder Swipe Right On A New Peering Relationship!

Source

Destination

Submit

You can peer with directly on these IXs

Pinder Swipe Right On A New Peering Relationship!

Source

65100

Destination

65200

Submit

You can peer with **65200** directly on these IXs

Equinix Melbourne

MegalX Melbourne

Equinix Osaka

Equinix Ashburn

Equinix Dallas

Equinix San Jose

BBIX Osaka

Equinix Hong Kong

MegalX Brisbane

SIX Seattle

LONAP

IX Australia VIC

ECIX-FRA

IX.br (PTT.br) São Paulo

MegalX Sydney

Equinix Sydney

Equinix Chicago

Equinix Los Angeles

Equinix New York

BBIX Tokyo

IX Australia QLD

IX Australia WA

IX Australia WA

Equinix Singapore

IX Australia NSW

AMS-IX

Pinder Swipe Right On A New Peering Relationship!

Source

Destination

Congrats! Your request has been sent!

Pinder Swipe Right On A New Peering Relationship!

Incoming Requests					
#	Sender Infos	ISP Infos	Created At	Request Status	Go
1	Administrator (admin@nowhere.ca)	Alpha - 65100	a few seconds ago	waiting	

Pinder Swipe Right On A New Peering Relationship!

Peering Request

Sender email **admin@nowhere.ca**



ISP Infos

- Name **Alpha**
- ASN **65100**

He wants to peer on ix-lan **26**



Pinder Swipe Right On A New Peering Relationship!

Request status changed!

[Come back to your pending requests](#)

Pinder Swipe Right On A New Peering Relationship!

Incoming Requests					
#	Sender Infos	ISP Infos	Created At	Request Status	Go
1	Administrator (admin@nowhere.ca)	Alpha - 65100	a minute ago	in-progress	

IF ONLY THERE WAS A CLI...

→ pinder git:(master) ./manage.py cli --all

id: 1
sender: User 0
receiver: Alpha
state: finished
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-22T14:20:26.665000Z
modified: 2016-10-23T13:15:10.176929Z

id: 2
sender: User 1
receiver: Bravo
state: finished
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-22T14:20:48.395000Z
modified: 2016-10-23T13:16:03.145830Z

id: 3
sender: Administrator
receiver: Alpha
state: waiting
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-23T09:36:14.542336Z
modified: 2016-10-23T09:36:14.542390Z

→ pinder git:(master) ./manage.py cli --filter finished
Found 2 entries matching state finished

id: 1
sender: User 0
receiver: Alpha
state: finished
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-22T14:20:26.665000Z
modified: 2016-10-23T13:15:10.176929Z

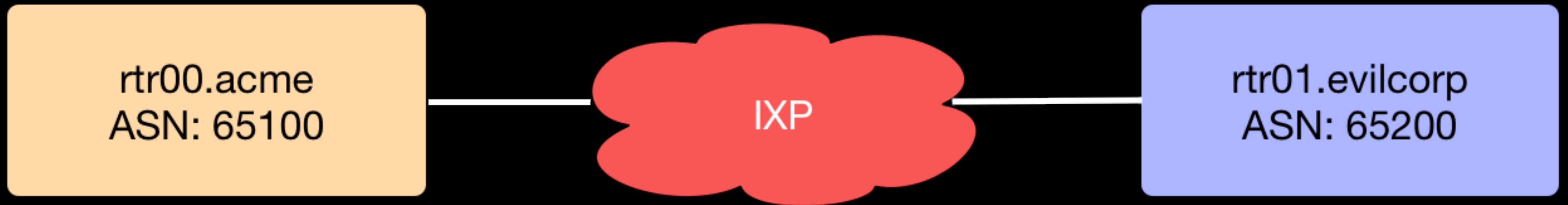
id: 2
sender: User 1
receiver: Bravo
state: finished
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-22T14:20:48.395000Z
modified: 2016-10-23T13:16:03.145830Z

ANSIBLE INTEGRATION?

ACME and EVILCORP

A Love Story Between Two Peers

NETWORK DIAGRAM



RECEIVER APPROVES REQUEST

```
(pinder) → ansible git:(master) ✕ inv get_requests
```

```
id: 2
sender: Administrator
receiver: Bravo
state: waiting
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-23T14:43:19.845968Z
modified: 2016-10-23T14:43:19.846029Z
```

```
(pinder) → ansible git:(master) ✕ inv approve_request --request-id 2
```

```
(pinder) → ansible git:(master) ✕ inv get_requests
```

```
id: 2
sender: Administrator
receiver: Bravo
state: in-progress
sender_is_ready: False
receiver_is_ready: False
created: 2016-10-23T14:43:19.845968Z
modified: 2016-10-23T14:45:24.562990Z
```

```

(pinder) → ansible git:(master) x inv deploy_rtr00
..
# Get accepted requests from pinder *****
* rtr00 - changed=False -----
  [{u'sender': {u'isp': {u'name': u'Alpha', u'asn': 65100}, u'name': u'Administrator', u'email': u'admin@nowhere.ca'}, u'created': u'2016-10-23T14:45:24.562990Z', u'state': u'in-progress', u'receiver': {u'name': u'Bravo', u'asn': 65200}, u'ixlan_id': 5, u'id': 2}]
# Get peeringdb information *****
* rtr00 - changed=False -----
  {65200: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.2', 'ipaddr6': None, 'speed': 10000, 'asn': 65200, 'is_rs_peer': False, 'net_id': 5520}, 65100: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.1', 'ipaddr6': None, 'speed': 10000, 'asn': 65100, 'is_rs_peer': False, 'net_id': 5520}, 25649: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.1', 'ipaddr6': None, 'speed': 10000, 'asn': 65100, 'is_rs_peer': False, 'net_id': 5520}, 25650: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.2', 'ipaddr6': None, 'speed': 10000, 'asn': 65200, 'is_rs_peer': False, 'net_id': 5520}}
.
# Load configuration into the device *****
* rtr00 - changed=True -----
  @@ -29,6 +29,12 @@
  !
  ip routing
  !
+router bgp 65100
+  neighbor 10.0.0.2 remote-as 65200
+  neighbor 10.0.0.2 maximum-routes 12000
+  address-family ipv4
+    neighbor 10.0.0.2 activate
+!
  management api http-commands
  no shutdown
  !
# Confirm peering *****
* rtr00 - changed=False -----
  [{u'sender': {u'isp': {u'name': u'Alpha', u'asn': 65100}, u'name': u'Administrator', u'email': u'admin@nowhere.ca'}, u'created': u'2016-10-23T14:46:15.362958Z', u'state': u'in-progress', u'receiver': {u'name': u'Bravo', u'asn': 65200}, u'ixlan_id': 5, u'id': 2}]

# STATS *****
rtr00      : ok=7 changed=1      failed=0      unreachable=0

```

```

(pinder) → ansible git:(master) x inv deploy_rtr01
..
# Get accepted requests from pinder *****
* rtr01                - changed=False -----
  [{u'sender': {u'isp': {u'name': u'Alpha', u'asn': 65100}, u'name': u'Administrator', u'email': u'admin@nowhere.ca'}, u'creat
6-10-23T14:46:15.362958Z', u'state': u'in-progress', u'receiver': {u'name': u'Bravo', u'asn': 65200}, u'ixlan_id': 5, u'id': 2}]
# Get peeringdb information *****
* rtr01                - changed=False -----
  {65200: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.2', 'ipaddr6': None, 'speed': 10000, 'asn': 6
: 25650, 'is_rs_peer': False, 'net_id': 5520}, 65100: {'status': 'ok', 'updated': '2016-03-16T16:49:58Z', 'ipaddr4': '10.0.0.1',
0:00Z', 'ixlan_id': 781, 'notes': '', 'id': 25649, 'is_rs_peer': False, 'net_id': 5520}}
.
# Load configuration into the device *****
* rtr01                - changed=True -----
  @@ -29,6 +29,12 @@
  !
  ip routing
  !
+router bgp 65200
+  neighbor 10.0.0.1 remote-as 65100
+  neighbor 10.0.0.1 maximum-routes 12000
+  address-family ipv4
+    neighbor 10.0.0.1 activate
+!
  management api http-commands
  no shutdown
  !
# Confirm peering *****
* rtr01                - changed=False -----
  [{u'sender': {u'isp': {u'name': u'Alpha', u'asn': 65100}, u'name': u'Administrator', u'email': u'admin@nowhere.ca'}, u'creat
-10-23T14:46:46.587174Z', u'state': u'in-progress', u'receiver': {u'name': u'Bravo', u'asn': 65200}, u'ixlan_id': 5, u'id': 2}]

# STATS *****
rtr01      : ok=7 changed=1      failed=0      unreachable=0

```

PEERS MARK THEMSELVES READY

```
(pinder) → ansible git:(master) ✕ inv get_requests
```

```
id: 2
```

```
sender: Administrator
```

```
receiver: Bravo
```

```
state: in-progress
```

```
sender_is_ready: True
```

```
receiver_is_ready: True
```

```
created: 2016-10-23T14:43:19.845968Z
```

```
modified: 2016-10-23T14:46:46.587174Z
```

CLOSING THE PEERING REQUEST

```
1101 : OK=2 changed=0 failed=0 unreachable=0
(pinder) → ansible git:(master) ✕ inv complete_requests
id 2 status successfully set to finished
(pinder) → ansible git:(master) ✕ inv get_requests

    id: 2
    sender: Administrator
    receiver: Bravo
    state: finished
    sender_is_ready: True
    receiver_is_ready: True
    created: 2016-10-23T14:43:19.845968Z
    modified: 2016-10-23T14:47:20.994687Z
```

NEXT STEPS...

- We've published the code online: <https://github.com/dotwaffle/pinder>
- Hopefully PeeringDB will steal this idea and integrate it!
- There's even a Dockerfile present in the repository!
- Once it's live, hopefully everyone will integrate their tools with it!

PINDER

SWIPE RIGHT ON A NEW PEERING RELATIONSHIP

<http://peer.sexy/>

