

607:YYYY:4001::/48 ?

～IPv6アドレスってどのあたりが使われているんですたっけ～

佐藤秀樹

2018年6月のある日の経路

- `dix-ieg#show ipv6 route`
- IPv6 Routing Table - default - 51721 entries
- Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
- B - BGP, R - RIP, H - NHRP, I1 - ISIS L1
- I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP
- EX - EIGRP external, ND - ND Default, NDp - ND Prefix, DCE - Destination
- NDr - Redirect, O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1
- OE2 - OSPF ext 2, ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
- la - LISP alt, lr - LISP site-registrations, ld - LISP dyn-eid
- a - Application
- S `::/0 [1/0]`
- via Null0, directly connected
- B `607:YYYY:4001::/48 [20/0]`
- via `FE80::XXXX:2, GigabitEthernet0/0/0`
- B `2001::/32 [200/0]`
- via `2001:DC2:1000:6003::1`

2018年6月のある日の経路

- dix-ieg#show ipv6 route
- IPv6 Routing Table - default - 51721 entries
- Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
- B - BGP, R - RIP, H - NHRP, I1 - ISIS L1
- I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP
- EX - EIGRP external, ND - ND Default, NDp - ND Prefix, DCE - Destination
- NDr - Redirect, O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1
- OE2 - OSPF ext 2, ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
- Ia - LISP alt, Ir - LISP site-registrations, Id - LISP dyn-eid
- a - Application
- S ::/0 [1/0]
- via Null0, directly connected
- B 607:YYYY:4001::/48 [20/0]
- via FE80::XXXX:2, GigabitEthernet0/0/0
- B 2001::/32 [200/0]
- via 2001:DC2:1000:6003::1

おや？

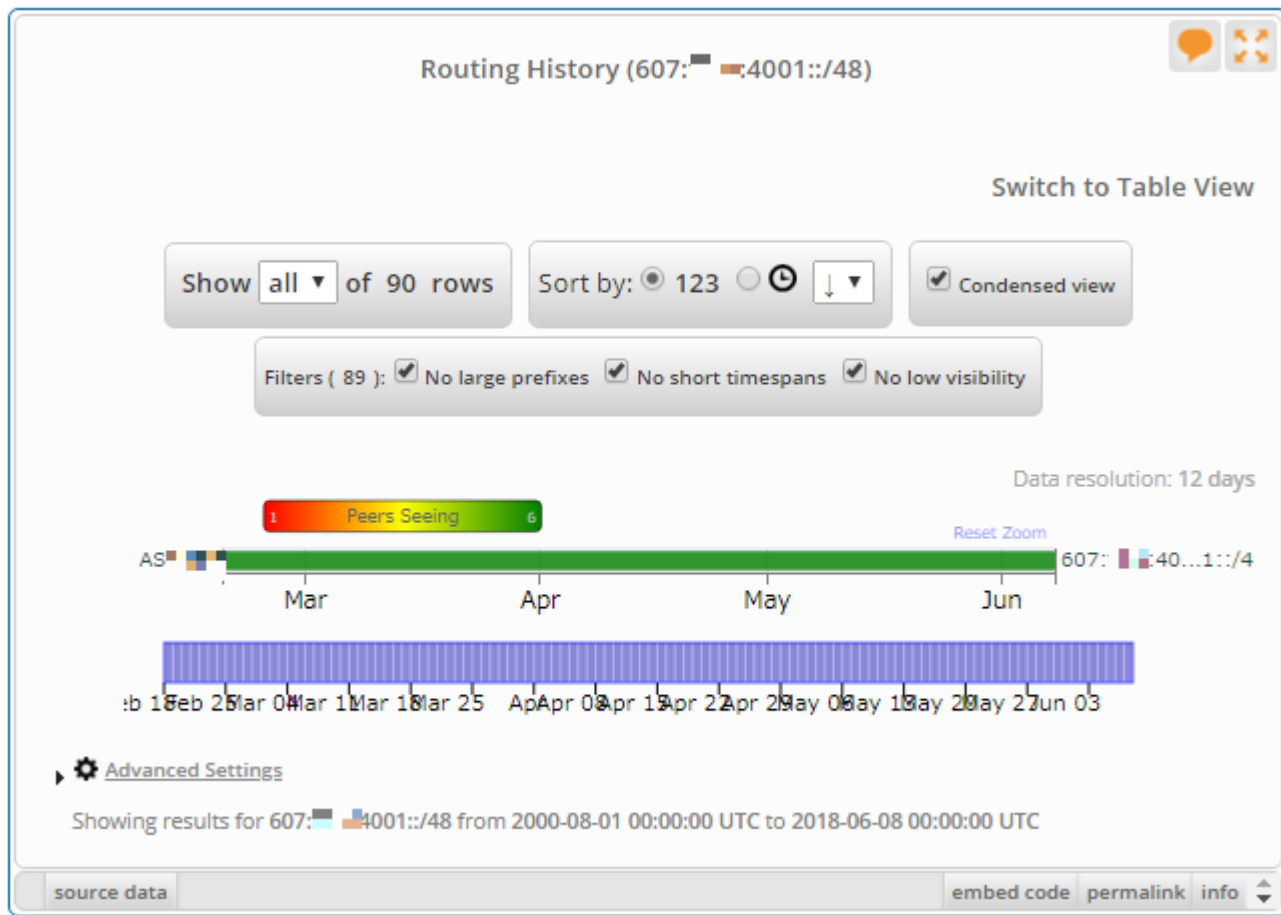
B 607:YYYY:4001::/48 [20/0]

IPv6 Prefix	Allocation	Reference	Notes
0000::/8	Reserved by IETF	[RFC4291]	[1] [2] [3] [4] [5] [6]
0100::/8	Reserved by IETF	[RFC4291]	0100::/64 reserved for Discard-Only Address Block [RFC6666] . Complete registration details are found in [IANA registry iana-ipv6-special-registry] .
0200::/7	Reserved by IETF	[RFC4048]	Deprecated as of December 2004 [RFC4048] . Formerly an OSI NSAP-mapped prefix set [RFC4548] .
0400::/6	Reserved by IETF	[RFC4291]	
0800::/5	Reserved by IETF	[RFC4291]	
1000::/4	Reserved by IETF	[RFC4291]	
2000::/3	Global Unicast	[RFC4291]	The IPv6 Unicast space encompasses the entire IPv6 address range with the exception of ff00::/8, per [RFC4291] . IANA unicast address assignments are currently limited to the IPv6 unicast address range of 2000::/3. IANA assignments from this block are registered in [IANA registry ipv6-unicast-address-assignments] . [7] [8] [9] [10] [11] [12] [13] [14] [15] [16]
4000::/3	Reserved by IETF	[RFC4291]	
6000::/3	Reserved by IETF	[RFC4291]	

割り当てられていない範囲です。

2000::から3fff:ffff:ffff:ffff:ffff:ffff:ffff:ffff
までがつかわれています。

RIPE STATで確認してみます。 それなりの期間この状態でした。



Routing Status (607:4001::/48)

At 2018-06-07 08:00:00 UTC, 607:4001::/48 was 3% visible (by 6 of 174 RIS full peers).

First ever seen announced by AS [AS icons] on 2018-03-01 16:00:00 UTC.

Originated by: AS [AS icons]

No less-specific covering prefixes.

Advanced Settings

Showing results for 607:4001::/48 as of 2018-06-07 08:00:00 UTC

Latest available results are 25 hours old.

Results exclude routes with very low visibility (less than 3 RIS full-feed peers seeing).

source data embed code permalink info

どうやらタイポされていそう。

607:4001::/48

Search

Related Resources

AS

607:4001::/48 is announced by AS

2607:4001::/48

Search

Related Resources

AS

2607:4001::/48 is announced by AS

2607:4001::/32

Routed, less specific prefix to 2607:4001::/48

Geolo





Peering DBでコンタクト先を発見



Contact Information


Some of this network's contacts are hidden because they are only visible to authenticated users and you are currently not logged in.



Contact Information

Role ▾	Name	Phone E-Mail
NOC		
Policy		

登録されているコンタクト情報を、アカウントを持っている方だけに表示させる機能があります。

連絡後すみやかに修正いただけました


差出人 Network Operations  ☆




件名 RE: RIPE stat says AS  originating 607:  :4001::/48 2018/06/09 5:41

宛先 (自分) <hideki@nic.ad.jp> ☆


Cc peering@nic.ad.jp <peering@nic.ad.jp> ☆


Hi Hideki,
This should be fixed now. Can you please confirm?






-----Original Message-----
From: Hideki Sato <hideki@nic.ad.jp>
Sent: Friday, June 8, 2018 3:20 AM
To: Network Operations 
Cc: peering@nic.ad.jp
Subject: Re: RIPE stat says AS  originating 607:  :4001::/48

CAUTION: This email is from an external source. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I realized that you have 2607:  :/32 so I assume that there is a typo...

On 2018/06/08 18:07, Hideki Sato wrote:
Hello ,

I am Hideki Sato from JPNIC. I just wanted to inform you about 607:  4001::/48 prefix.
I observed 607:  :4001::/48 route on BGP and RIPE stat says that you, AS  are stated originating the prefix from this March.
As you know the prefix is reserved by IETF so I suspect that it might be something wrong on your network.

Best Regards,
Hideki Sato

ところでJC1006では

3-1-2. 経路フィルタ ←

3-1-2-1. Ingress の Prefix フィルタ ←

[1] 以下の Special-Use Prefix を reject する ←

- デフォルト : `::/0 exact` ←
- 予約済みアドレス (元 IPv4 互換アドレス) ←
: `::/96 or longer` ←
- 未指定アドレス : `::/128 exact` ←
- ループバックアドレス : `::1/128 exact` ←
- IPv4 射影アドレス : `::ffff:0:0/96 or longer` ←
- トラフィック破棄専用 (Discard-Only) アドレス ←
: `100::/64 or longer` ←
- ベンチマークテストアドレス : `2001:2::/48 or longer` ←
- ドキュメントアドレス : `2001:db8::/32 or longer` ←
- ユニークローカルアドレス : `fc00::/7 or longer` ←
- リンクローカルアドレス : `fe80::/10 or longer` ←
- 予約済みアドレス (元サイトローカルアドレス) ←
: `fec0::/10 or longer` ←
- マルチキャストアドレス : `ff00::/8 or longer` ←

[2] 自 AS で持っている Prefix を reject する ←

(例) 自 AS で持っている Prefix を `2001:db8::/32` と仮定した ←
場合、`2001:db8::/32 or longer` を reject する ←

**64:ff9b::/96も入っ
ていませんでした**

2000::/3以外の経路を受け取る必要は？

- 2000::/3以外はかなり長期間不要かもしれない
 - 2000::/3 (3fff:ffff:ffff:ffff:ffffまで) でIPv6の1/8をカバー
 - 42.5週間
- 2c00::/12が2006年10月にAFRINICに割り当てられてから、新たな割り当て無し。
- IRRを見るべき？ bogonは？ ？ ？
- 経路障害向けにはJPNIC経路奉行のご利用と

