



## IRS16ご参考資料 - FTOS™AS4サポート状況のご紹介

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- FTOS™AS4対応状況
- FTOS™AS4実装方式



- FTOS™ 7.7.1からサポート開始
  - AS4\_PATH/AS4\_AGGREGATORを “parse”, “store”, “display”, “advertise”
  - RFC4893ベース
  - extended community の同時サポート
  
- FTOS™ 7.6.1(最新リリース)では未サポート
  - AS4\_PATH/AS4\_AGGREGATORを “unknown/opt-trans” として処理
  
- Eシリーズ(ルータ), Cシリーズ(レイヤ3スイッチ)にてサポート
  - Sシリーズ(1U型)を除く

- “asplain”スタイルによるコンフィギュレーション
  - 7.8.1™にて “asdot”方式をサポート予定
  - “asdot+”のサポート予定はなし
- デフォルトの振舞いに変更はなし

```
router bgp 10001 (“asdot” = 1.34465)
network 200.1.1.0/24
  bgp four-octet-as-support
  neighbor 1.1.1.2 remote-as 10002
neighbor 1.1.1.2 ebgp-multihop 255
neighbor 1.1.1.2 update-source Loopback 0
neighbor 1.1.1.2 send-community extended
neighbor 1.1.1.2 soft-reconfiguration inbound
neighbor 1.1.1.2 no shutdown
```

- コマンドライン(show, debug)出力は、“asdot”
  - AS4サポートに伴う、特別なCLI追加(show)はなし

```
E300-2(config-as-path)#do sh ip bgp | grep 18508
*> 3.0.0.0/8          1.1.1.1                0 1.34465 65100 18508
2914 701 703 80 i
*> 4.0.0.0/8          1.1.1.1                0 1.34465 65100 18508
2914 3356 i
*> 4.21.104.0/24     1.1.1.1                0 1.34465 65100 18508
2914 7018 26207 26207 26207 26207 I
```

(from “show ip bgp”)

```
05:12:38 : BGP: 1.1.1.2 sending UPDATE w/ attr: origin i, path 1.34465 65100 18508 2914
174 9583, nexthop 1.1.1.1,
05:12:39 : BGP: 1.1.1.2 sending UPDATE w/ attr: origin i, path 1.34465 65100 18508 2914
1239 4134 17633, nexthop 1.1.1.1,
05:12:39 : BGP: 1.1.1.2 send UPDATE 222.174.160.0/20, next 1.1.1.1, path 1.34465 65100
18508 2914 1239 4134 17633
05:12:39 : BGP: 1.1.1.2 send UPDATE 222.174.176.0/20, next 1.1.1.1, path 1.34465 65100
18508 2914 1239 4134 17633
```

(from “debug ip bgp”)

### ■ Regexp における “.” (dot)の扱い

- “.” “any single character”
- “¥.” “dot” (exact match)

```
E300-2(config-as-path)#do sh ip bgp regexp ^1¥.34
BGP table version is 166486, local router ID is 1.1.1.2
Status codes: s suppressed, S stale, d dampened, h history, * valid, > best
Path source: I - internal, a - aggregate, c - confed-external, r - redistributed
              n - network, D - denied, S - stale
Origin codes: i - IGP, e - EGP, ? - incomplete

   Network                Next Hop                Metric      LocPrf Weight Path
*>  3.0.0.0/8              1.1.1.1                  0          1.34465 65100 18508
2914 701 703 80 i
*>  4.0.0.0/8              1.1.1.1                  0          1.34465 65100 18508
2914 3356 i
```

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