

draft-ietf-grow-rpsl-via

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IETF93

Current status

Usage:

```
job@ db]$ egrep -c "import-via|export-via" *.db
```

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Servers:

IRRD since 3.0.7 and RIPE Whois Server since 1.71

Clients:

AMS-IX Route Servers (AS 6777)

<https://ams-ix.net/technical/specifications-descriptions/ams-ix-route-servers>

Some examples

```
$ egrep 'export-via|import-via' ripe.db
```

```
ripe.db:import-via:      AS6777 from AS-ANY EXCEPT AS31122:AS-AMS-IX-  
RS-EXCLUDED accept ANY
```

```
ripe.db:import-via:      AS6777 from AS10310 accept ANY
```

```
ripe.db:import-via:      AS6777 from AS-ANY EXCEPT AS15169 accept ANY
```

```
ripe.db:import-via:      AS6777 from AS-ANY accept ANY
```

```
ripe.db:import-via:      AS6777 from AS-ANY EXCEPT AS-GOOGLE accept ANY
```

```
...
```

RPSL EBNF

```
%type <string> line_autnum
%type <string> attr_autnum
%type <string> attr_import_via
%type <string> attr_export_via

%token T_IV_KEY // *** import-via: ***
%token T_EV_KEY // *** export-via: ***
%token T_AFI T_PROTOCOL T_WORD T_INTO T_EXCEPT T_REFINE
%token T_ACCEPT T_ANNOUNCE T_TO T_FROM T_PRNGNAME

line_autnum: attr_autnum
            | attr_import_via
            | attr_export_via
attr_import_via: T_IV_KEY attr_import_syntax
attr_import_syntax: opt_protocol_from opt_protocol_into import_simple
                  | opt_protocol_from opt_protocol_into afi_import_exp
attr_export_via: T_EV_KEY attr_export_syntax

attr_export_syntax: opt_protocol_from opt_protocol_into export_simple
```



FACEPALM

Everyone has one of those moments

Plans

- Remove current EBNF (for Bison) based on doc published in 1999
- Add Python code, provide an example implementation based on “Grako” (a tool that takes grammars in a variation of EBNF as input, and outputs memoizing (Packrat) PEG parsers in Python.)

Questions?