

# Status of SAS and multi-prefix environment

(Source Address Selection)

- Problem statement shows 10 problematic cases within a default use of RFC3484 mechanism

➔ RFC5221

- Requirement describes 10 points to solve them with RFC3484 mechanism

➔ RFC5220

Today

- Solution lists up 4 approaches and evaluates them

- This is the last document for the considerations of protocol work

- Additional inputs

- RFC3484 made the address-selection behavior of a host configurable
  - However, typical users cannot make use of this mechanism.

- Goal

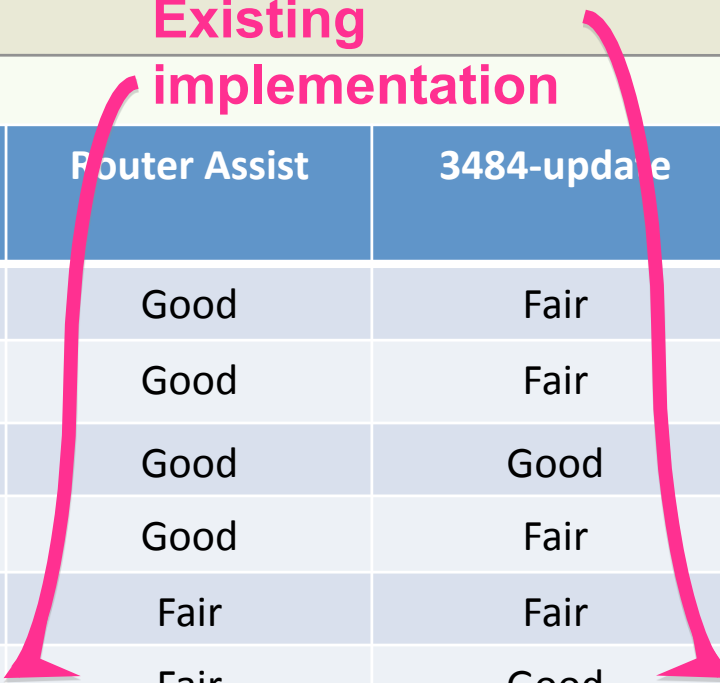
- To enable hosts to perform appropriate address selection automatically

## Updates from -00

- Reflects the comments at the last meeting
- Added 3 items of evaluation
  - ✦ Compatibility with RFC 3493
  - ✦ Compatibility and Interoperability with RFC 3484
  - ✦ Security
- Editorial issue
  - Correct typo
- Others
  - Reference I-D number

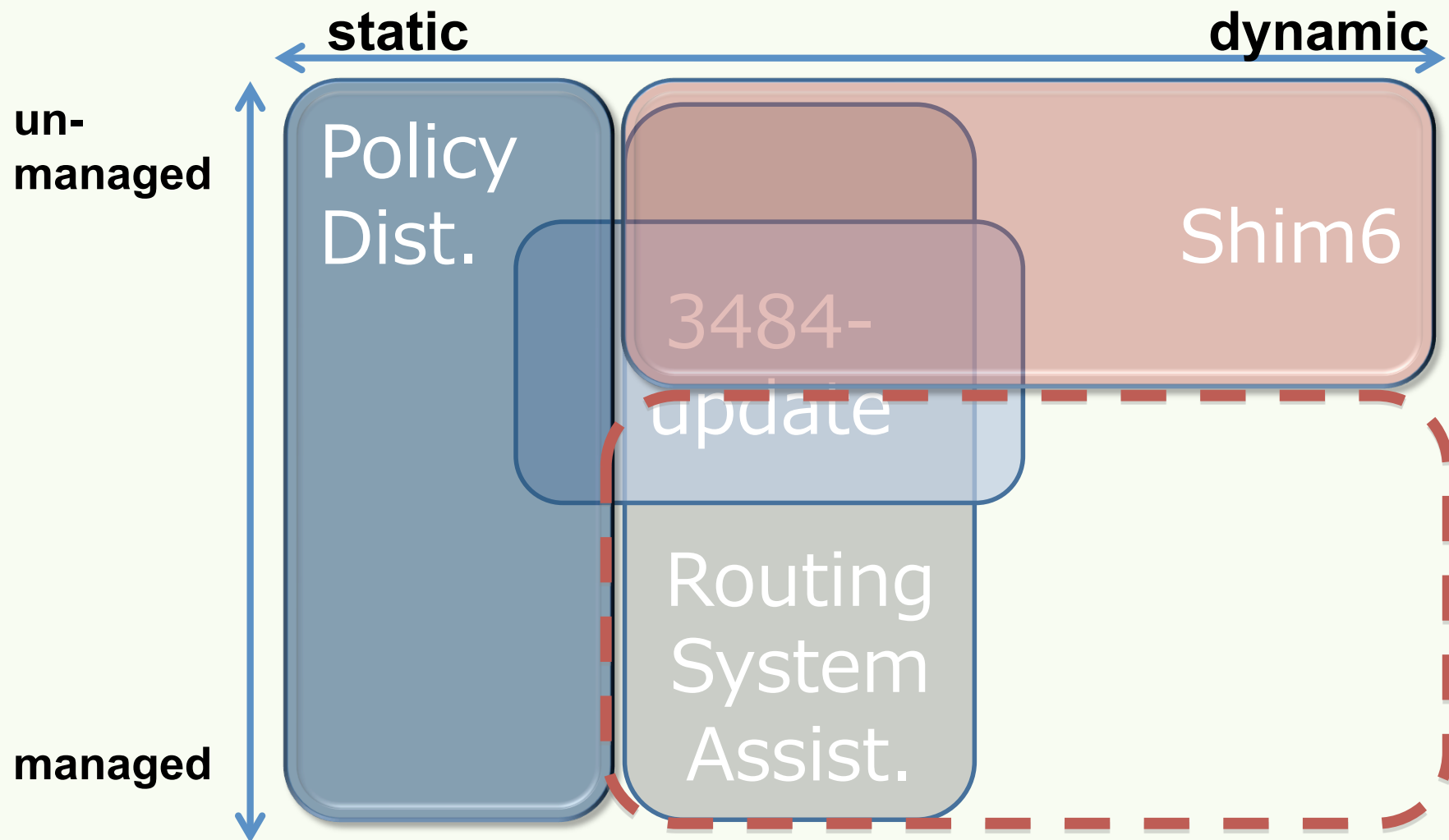
# After the addition

Enable to use  
Existing  
implementation



Requirement	Policy Dist	Router Assist	3484-update	Shim6
Effectiveness	Good	Good	Fair	Fair
Timing	Good	Good	Fair	Fair
Dynamic Update	Good	Good	Good	Good
Node-Specific	Good	Good	Fair	Fair
Appl-Specific	Fair	Fair	Fair	Fair
Multi-Interface	Fair	Fair	Good	Good
Central Control	Good	Good	Fair	Fair
Route Selection	Fair	Good	Fair	Fair
3493 compatibility	Good	Good	Bad	Good
3484 compatibility	Good	Fair	Fair	Bad
Security	Fair	Fair	Fair	Bad
Other Issue	Freq. updates cause traffic	Big Impact on a host's stack	Big Impact on a host's stack	Big impact on a host's stack

# for the conclusion



- Existing 2 mecs could not cover dynamic & managed areas
- but it might be enough to start with.

# Issues

1. Protocol work starts at dhc-wg
2. Need comments for evaluation value themselves
  - a) Do we score appropriate values?
3. Need comments for evaluations
  - a) Do we need additional items?
4. Further suggestions?

# Next Step

- WGLC?
- Proceed in implementation?
  - An auto-configuration mechanism is necessary especially for unmanaged hosts of typical users
  - Sometimes special use address prefix is assigned like ORCHID, this mechanism helps such cases cooperate with RFC3484 algorithm

Thank you,