

Proposal To Define a New Derived Type AddressOrPrefix

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Problem Statement

- For Softwires provisioning (see backup slides), need attributes which could be either prefixes or full addresses
- RFC 6733 defines the Address derived AVP data format
 - does not convey prefixes
- Need an AVP data format to do the job

Solution Alternatives

- Grouped AVP
 - Address family
 - Prefix length
 - Value
- New AddressOrPrefix derived type
 - modelled on Address type with addition of prefix length field

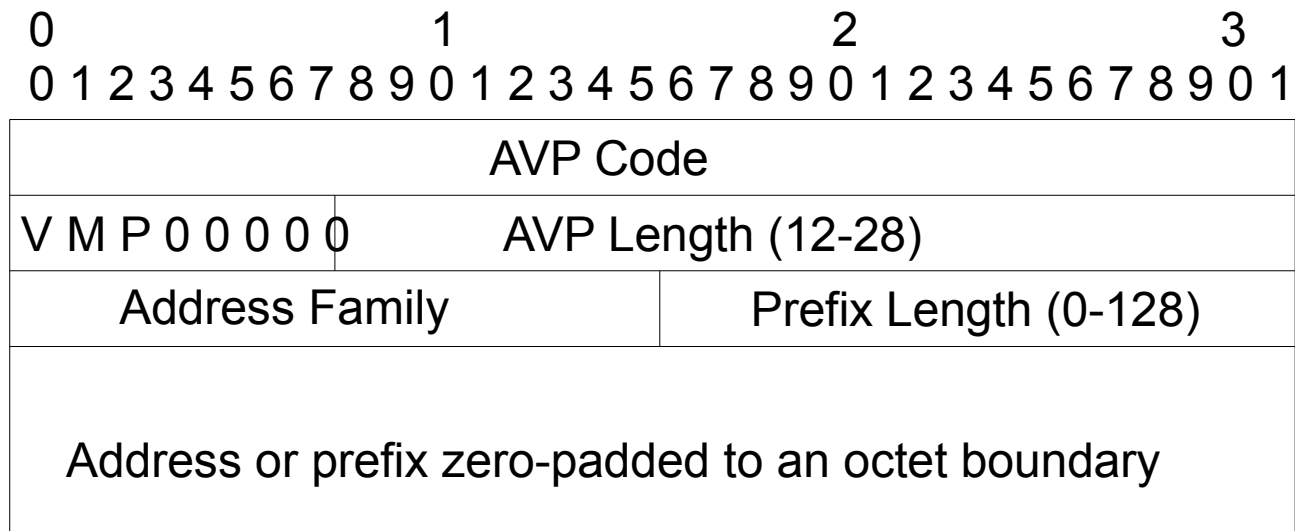
New derived type => simpler specifications

Procedural Considerations

- Addition of new derived AVP data formats allowed by Section 4.3 of RFC 6733
- If proposal accepted, should new format be documented separately, or should it remain in draft-zhou-dime-4over6-provisioning-03 and successors?
- Would this be an update to RFC 6733?

Backup Slides

Proposed AVP Data Format



Examples Of Usage In draft-zhou-dime-4over6-provisioning-03

```
LW4over6-Binding ::= < AVP Header: TBD04 >  
  { Tunnel-Source-Pref-Or-Addr }  
  { LW4over6-External-IPv4-Addr }  
  [ Port-Set-Identifier ]  
  *[ AVP ]
```

```
MAP-E-Attributes ::= < AVP Header: TBD06 >  
  1*{ Border-Router-Name }  
  1*{ MAP-Mapping-Rule }  
  [ MAP-Mesh-Mode ]  
  [ MAP-End-User-IPv6-Prefix ]  
  *[ AVP ]
```

```
MAP-Mapping-Rule ::= < AVP Header: TBD09 >  
  { Rule-IPv4-Addr-Or-Prefix }  
  { Rule-IPv6-Prefix }  
  { EA-Field-Length }  
  [ Port-Set-Identifier ]  
  *[ AVP ]
```