A YANG Data Model for Routing Policy Management
IETF 102, Montreal

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Updates since last IETF

- Imports IETF modules
- Reduced grouping nesting
- Changed to IETF YANG style, e.g., enumerations use lowercase letters
- More policy actions added
- BGP example updated
Tree Structure

```
+-rw routing-policy
  +--rw policy-definitions
    +--rw policy-definition* [name]
      +--rw name string
      +--rw statements
        +--rw statement* [name]
          +--rw name string
          +--rw conditions
            | ... 
          +--rw actions
            ... 
```

- Policies are expressed as a sequence of top-level policy definitions each of which consists of a sequence of policy statements.
- Policy statements in turn consist of simple condition-action tuples.
- Conditions may include multiple match or comparison operations, and similarly, actions may effect multiple changes to route attributes, or indicate a final disposition of accepting or rejecting the route.
Policy Actions

+--rw routing-policy
   +--rw policy-definitions
      +--rw policy-definition* [name]
         +--rw statements
            +--rw statement* [name]
            +--rw actions
               +--rw policy-result? policy-result-type
               +--rw set-metric? Uint16
               +--rw set-preference? uint8

When policy conditions are satisfied, policy actions are used to set various attributes of the route being processed, or to indicate the final disposition of the route, i.e., accept or reject.
Next Steps

- Collect/address comments
- Request YANG Doctor review

Question?

Thank You