

draft-perreault-sunset4-cgn-mib-00

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Context

- NAT MIB work ongoing in BEHAVE
- Charter discussions outcome:
 - Generic NAT stuff goes in BEHAVE
 - CGN-specific stuff goes in SUNSET4
- Outcome:
 - NAT MIB split in two parts
 - This draft builds on top of the NAT MIB draft in BEHAVE and contains CGN features only

CGN Features

- Per-subscriber stuff
 - Counters
 - Limits
 - Notifications
- Limit on the number of active subscribers
- Notification when limit is exceeded

Subscriber stuff

```
NatSubscribersTableEntry ::=
  SEQUENCE {
    natSubscriberIdentifierType      InetAddressType,
    natSubscriberIdentifier          InetAddress,
    natSubscriberIntPrefixType      InetAddressType,
    natSubscriberIntPrefix          InetAddress,
    natSubscriberIntPrefixLength    InetAddressPrefixLength,
    natSubscriberPool               NatPoolIndex,
    natSubscriberCntTranslates      Counter64,
    natSubscriberCnt00P             Counter64,
    natSubscriberCntResource        Counter64,
    natSubscriberCntStateMismatch  Counter64,
    natSubscriberCntQuota           Counter64,
    natSubscriberCntMappings       Gauge32,
    natSubscriberCntMapCreations    Counter64,
    natSubscriberCntMapRemovals     Counter64,
    natSubscriberLimitMappings      Unsigned32,
    natSubscriberMapNotifyThresh    Unsigned32
  }
```

To-Do

- Tidy up
- Anything else?
- Get reviews!
- Adopt?