

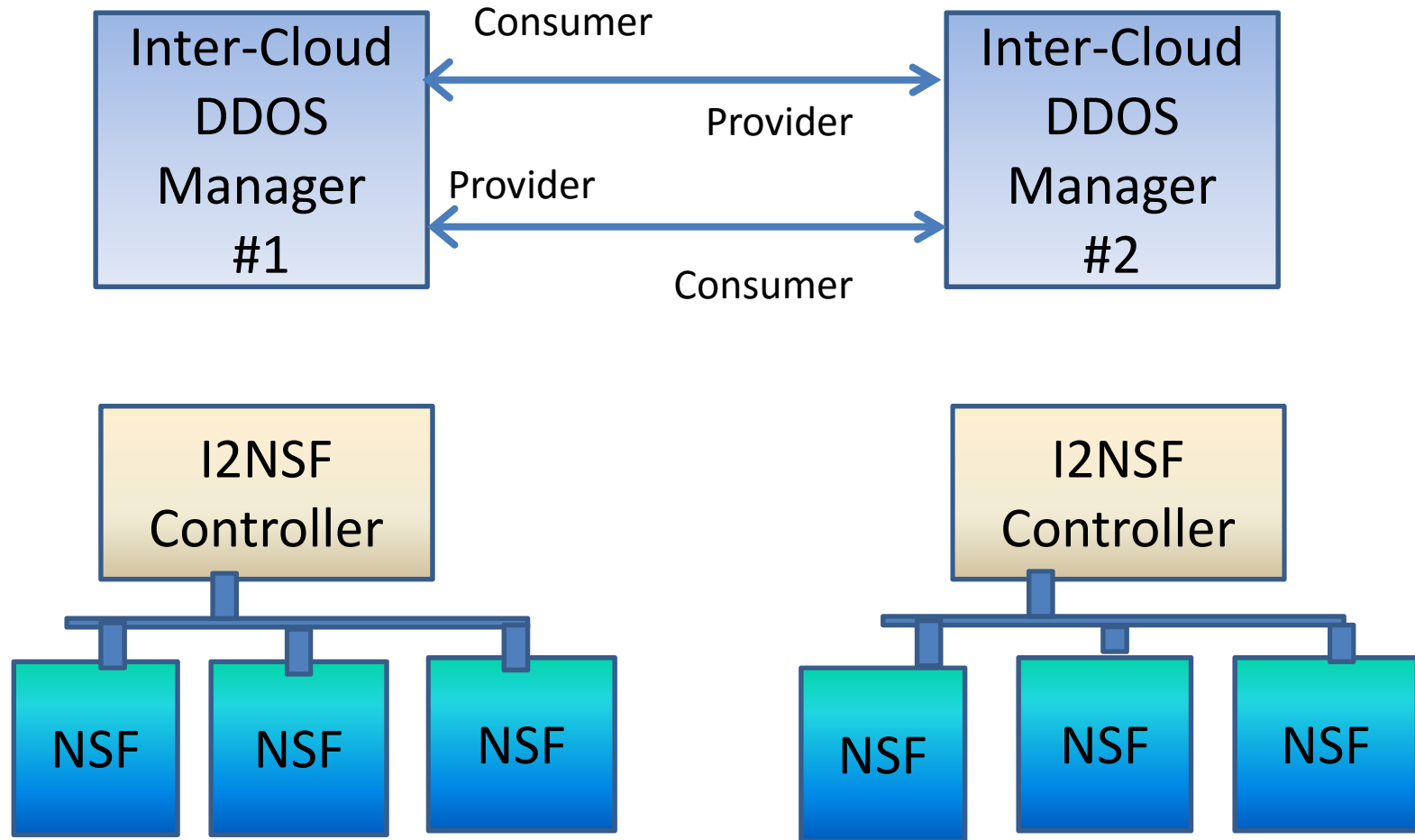
# Inter-Cloud DDoS Yang

Draft-hares-i2nsf-ddos-yang

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# DDOS



[\[I-D.fang-i2nsf-inter-cloud-ddos-mitigation-api\]](#)

# Why this yang module

- Inter-Cloud DDoS API specified
- Creates an application use of capabilities, statistics, and op-state
- Helps improve i2nsf-capabilities

ietf-i2nsf-cloud-ddos

+--rw i2nsf-intercloud-ddos

**+--rw cloud-provider\* [name]**

+--rw cloud-name string;

+--rw cloud-api-type identityref

+--rw cloud-sec-id uint64

**+--rw Inter-Cloud-DDoS-capabilities**

| +--rw capability-query boolean

| +--rw mitigation-req boolean

| +--rw monitor-report boolean

| +--rw monitor-parms boolean

| +--rw knowledge-share boolean

ietf-i2nsf-cloud-ddos

+--rw i2nsf-intercloud-ddos

+--rw cloud-provider\* [name]

....

**+--rw cfg-attack-mitigation-policy [policy-id]**

+--rw policy-id uint64

+--rw policy-name string

+--rw cfg-active boolean //policy cfg active

+--rw cfg-mitigate-policy

| uses cfg-cloud-mitigate-policy -- policy

**+--rw cfg-monitoring-policy\* [mon-policy-id]**

| +--rw mon-policy-id uint64

| uses cfg-mitigate-monitoring --- statistics

**+--rw cfg-cloud-capabilities**

| uses i2nsf-capabilities – capabilities

**+--ro mitigation-opstate**

+--ro mitigation-policy\* [policy-id]

| uses cloud-mitigate\_opstate - operational state

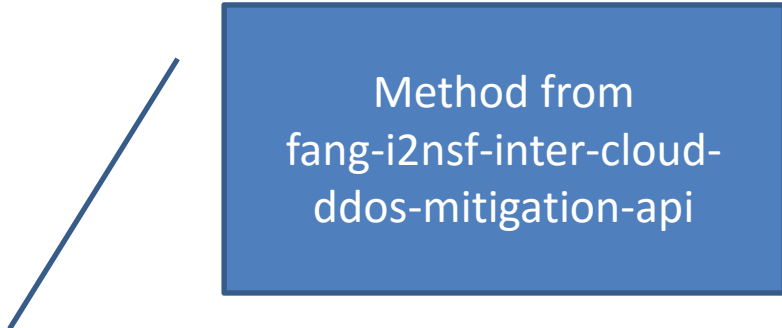
# RPCs and Notifications

rpc:   +--x start-mitigation  
      +--x stop-mitigation [policy-id]  
      +--x reset opstate-counters

notifications:

+--n inter-cloud-capability-change  
+--n policy-change  
+--n opstate-reset  
+--n mitigation-failure

**+-rw cfg-cloud-mitigate-policy\* []**  
+-rw flood-rate-limit  
+-rw syn-flood-mitigation\*  
+-rw tcp-flood-protection\*  
+-rw udp-flood-mitigation\*  
+-rw max-connect-rate  
+-rw max-newconnect-rate  
+-rw frag-packet-rate  
+-rw packet-rate  
+-rw max-newconnect-rate  
+-rw black-hole-function  
+-rw 32-type-rate  
+-rw bgp-signals  
+-rw bgp-flowspec-policy  
    uses fb-rib:ietf-fb-rib:bgp-fb-rib



Method from  
fang-i2nsf-inter-cloud-  
ddos-mitigation-api

# Next Steps

- Feedback on Application Interface