draft-ashwood-nvo3-operational-requirement-03

Status Update

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Initial requirements from RFC 6136 – L2VPN OAM

Req#	Description	Req#	Description
R1	MUST - NV-Edge/Edge discovery	R13	MUST – OAM & data frame fate share
R2	MUST - pro-active fault monitoring	R14	MUST – exercise all ECMP/LAG paths
R3	MUST - monitor/trace of all paths	R15	MUST – scalable proactive probe for all VNI
R4	MUST - fault verification	R16	MUST – extensible to new f() and elements
R5	MUST - fault localization	R17	MUST – transparent to non participant dev
R6	MUST - fault underlay to trigger fault	R18	MUST – inside not leak outside NVO3 domain
R7	MUST - per VNI loss measurement	R19	MUST – outside not leak inside to same/ lower level
R8	MUST - per VNI pair 2 way delay	R20	MUST be transparent to higher domain
R9	MUST- per VNI pair 1 way delay	R21	MAY allow interworking with underlay OAM
R10	MUST - per VNI pair frame jitter	R22	MUST be independent of application OAM
R11	MAY - per VNI pair throughput measure	R23	MUST be preferentially treated
R12	MAY – per VNI pair discard measure		

Version – 02 text added 8 new Requirements

Req#	Description
R24	MUST – VNID change
R25	MUST – VNID change < 2 sec re-converge
R26	MUST – delete VNI
R27	MUST – add VNI
R28	MAY – merge VNIs
R29	MUST – supporting VNI data query/add
R30	MUST – Graceful migration
R31	MUST - Inter Operator OAM

Working Group Documents OAM Requirements mapping to oam-requirements-03.txt

Wg: Data-plane-reqs-01	Req#
Connectivity check	R2
Performance measurement	R7-R12
Stats gather	R7-R12
Fault Isolation	R5
Transparent to higher layer OAM	R17
Alarm Propagation	R21
Proactive / Reactive test LAG/ECMP members	R14
Ping 'like' test	R2,R2,R3

Non Wg: Draft-xx-nvo3-
vxlan/nvgre ping
Overlay-ping
Vxlan/nvgre router alert

Wg: Framework-03	Req#
Throughput	R11
Delay	R8,R9
Loss	R12
Jitter	R10

Wg: Use-cases-02	Req#
Continuity	R2
Loopback	R2
Link trace	R3
Alarms	R21
Measurements	R7-R12
Translate OAM e2e	R21

Non – wg documents OAM mapping but these are primarily Functional Specs

Next Steps

1. Feedback – especially MUST/MAY
2. Anything missing?
3. Clean up – from 3 + editors
4. Pruning – what do we not want
5. Wg adoption?