

3 State Encoding for PCN

Draft-moncaster-3-state-encoding-00

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Requirements

- Allow 3 PCN encoding states
- Provide support for CL-style admission AND termination in single scheme
- Minimise use of standards-track DSCPs
- Simple extension to baseline encoding scheme
- Optional extension to allow end-to-end ECN *

** Note: this implies revealing ECN & PCN marks to the receiver so it can e.g. request a codec to reduce its rate. It also requires the clean passing of ECT codepoints to facilitate this.*

Basic Proposal

	not-ECN 00	ECT(0) 10	ECT(1) 01	CE 11
DSCP 1	Not-PCN	NM	CU	ExM
DSCP 2	Not-PCN	CU	CU	ThM

- DSCP1 might be Voice-Admit
- DSCP 2 would be local
- ECN would need to be tunnelled
- CL fully supported
- Relatively easy extension if SM is used with baseline as deployment route

Extended Proposal

	not-ECN 00	ECT(0) 10	ECT(1) 01	CE 11
DSCP 1	Not-PCN	NM	NM(CE)	ExM
DSCP 2	Not-PCN	NM ECT(0)	NM ECT(1)	ThM

- DSCP1 might be Voice-Admit
- DSCP 2 would be local
- ECN now carried end-end
- PCN marks can be revealed with appropriate negotiation
- CL fully supported
- Relatively easy extension if SM is used with baseline as deployment route

Next Steps

- Aim is to produce this as experimental
- Will make minor modifications to current draft
- ECN part will be optional as in current draft
- Work needed on appropriate signalling to negotiate ECN
- Will delay pushing this forward until baseline encoding gets through WGLC

Questions?

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