

nicc[®]

UK Interoperability Standards

Open Forum 2018

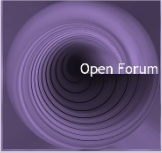


7th November 2018



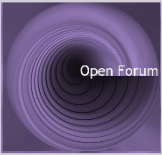
**SIP Overload Control (SOC)
Task Group**

Philip Williams – BT
Chair of Group



- SIP overload control
 - hop-by-hop (nodal) method
 - not destination rate control
 - control parameters piggy-backed on SIP requests & responses
 - Target node
 - SIP server being protected by overload control from SIP request traffic
 - Source node
 - source of SIP (client) request traffic being sent to an adjacent target node
- Two RFCs
 - 7339 SIP Overload Control
 - 7415 SIP Rate Control
 - Via header parameters
 - oc control parameter value
 - oc-algo control restriction (\equiv Throttling \equiv Filtering) scheme
 - oc-validity duration of control
- ND1653: Overload Control for SIP in UK Networks

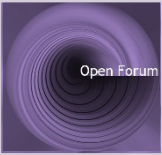




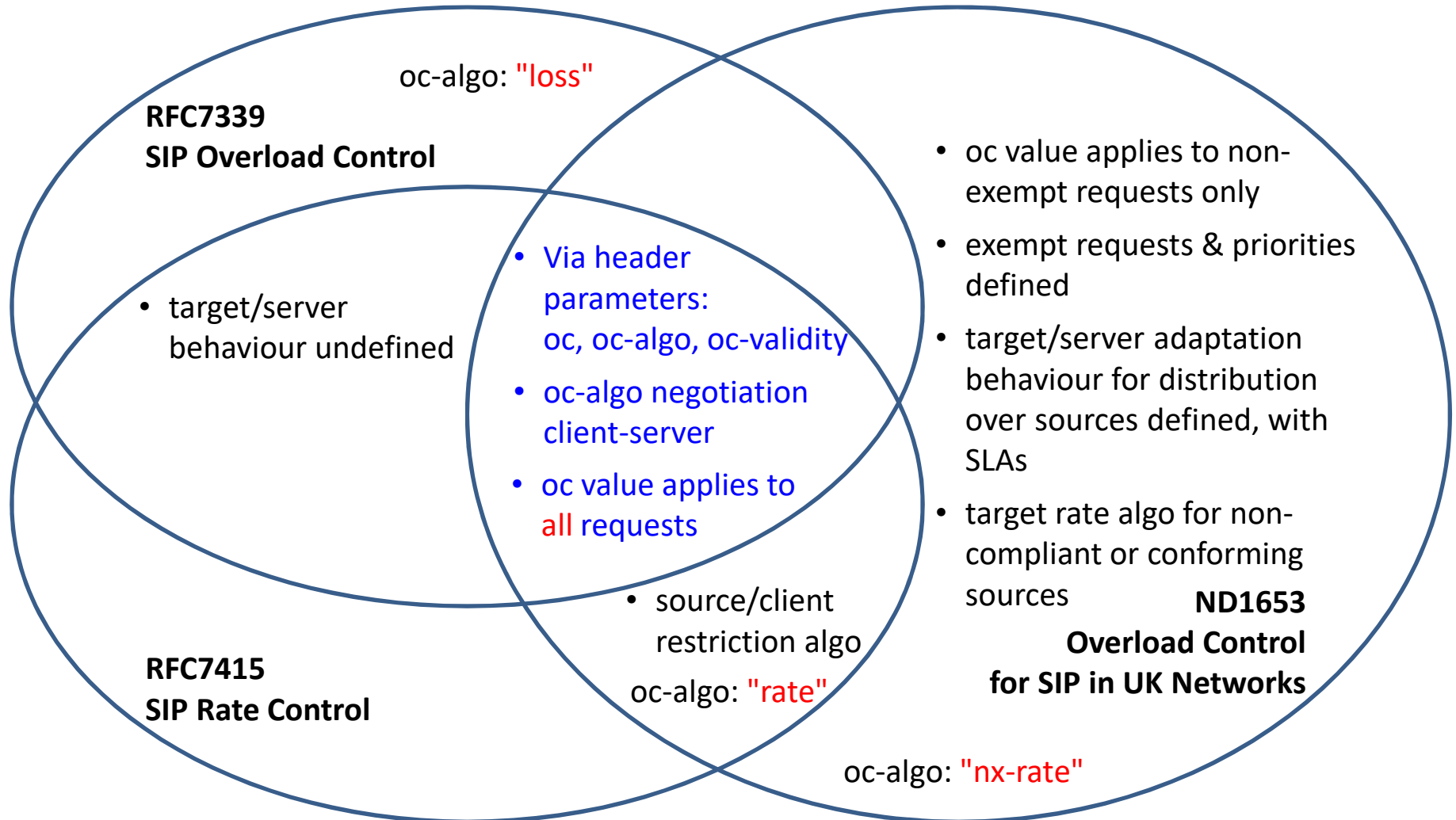
Focus of SOC TG

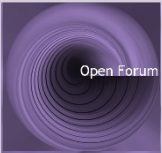
- Precise interpretation of the RFCs
- Relationship between ND1653 and the RFCs
- Interworking between them when co-existing



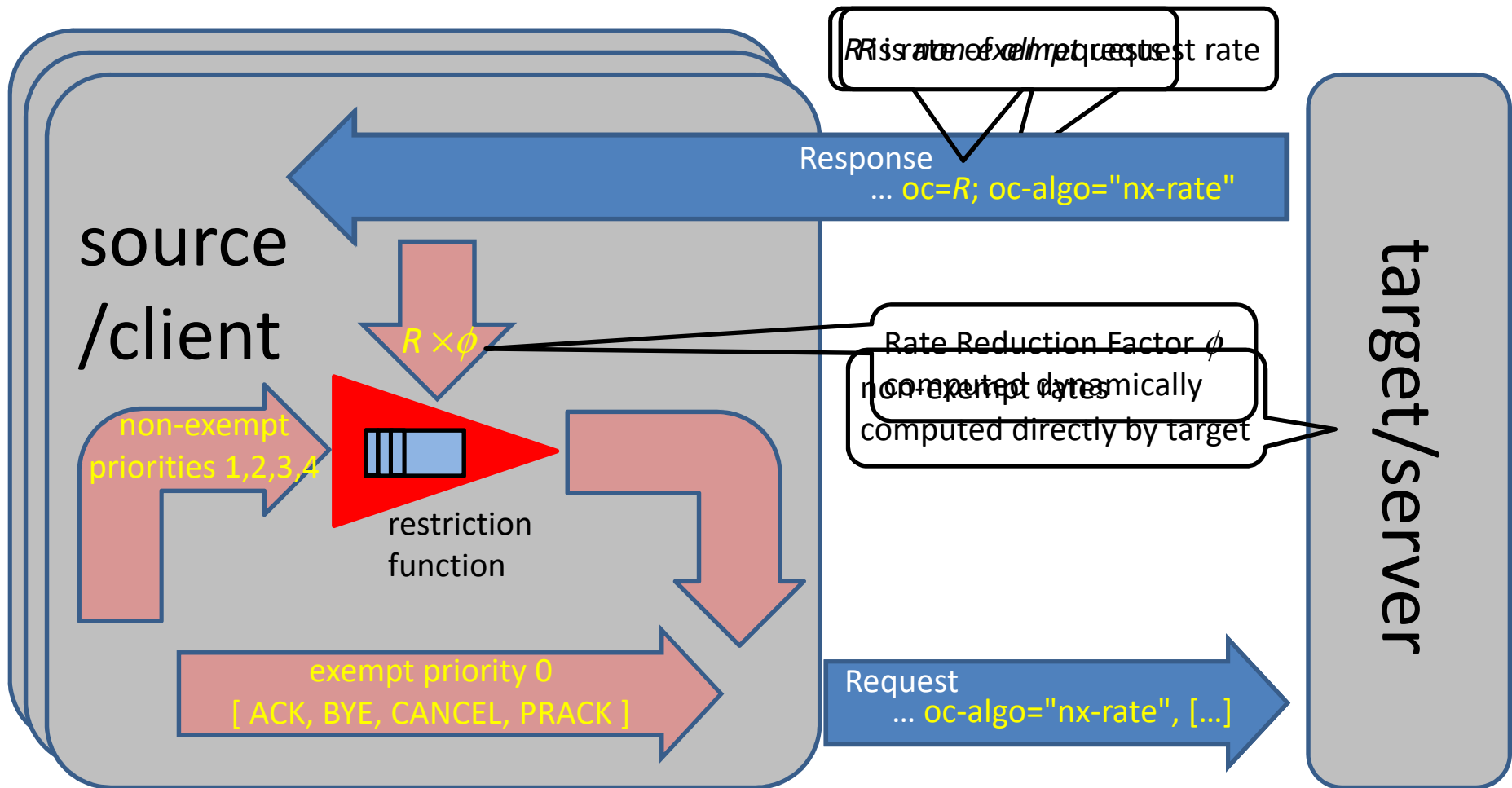


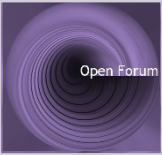
Relationship between RFCs and ND1653 – initial view





Rate Reduction Factor (for RFCs)



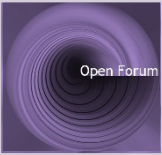


Differing interpretations and values of oc-algo parameter

- Protocol structure of RFC7339 accommodates a list of named restriction algorithms
 - but only "loss" & "rate" for oc-algo defined so far in the RFCs
- The TG compared ND1653 variants with differing interpretations of the oc-algo rate parameter
 - Decision: non-exempt (restrictable) max request rate with oc-algo value "nx-rate"
 - Proposal paper distributed to TSG for consultation, accepted

Interpretation of oc-algo value	max rate of all requests	max rate of non-exempt (restrictable) requests	
		"rate"	"nx-rate"
oc-algo parameter value	"rate"	"rate"	"nx-rate"
RFC7339 & RFC7415 compliance	yes	no	no
Requires Rate Reduction Factor	yes	no	no
...






Next steps

- SOC TG approval (now)
- Consensus approval
- Publish ND1653:
 - Overload Control for SIP in UK Networks
- RFC considerations
 - Register new oc-algo value "nx-rate"?
 - New RFC?





Thank you