TWAMP Extension to monitor Services KPIs

draft-sp-ippm-monitor-services-kpi-00
IETF93

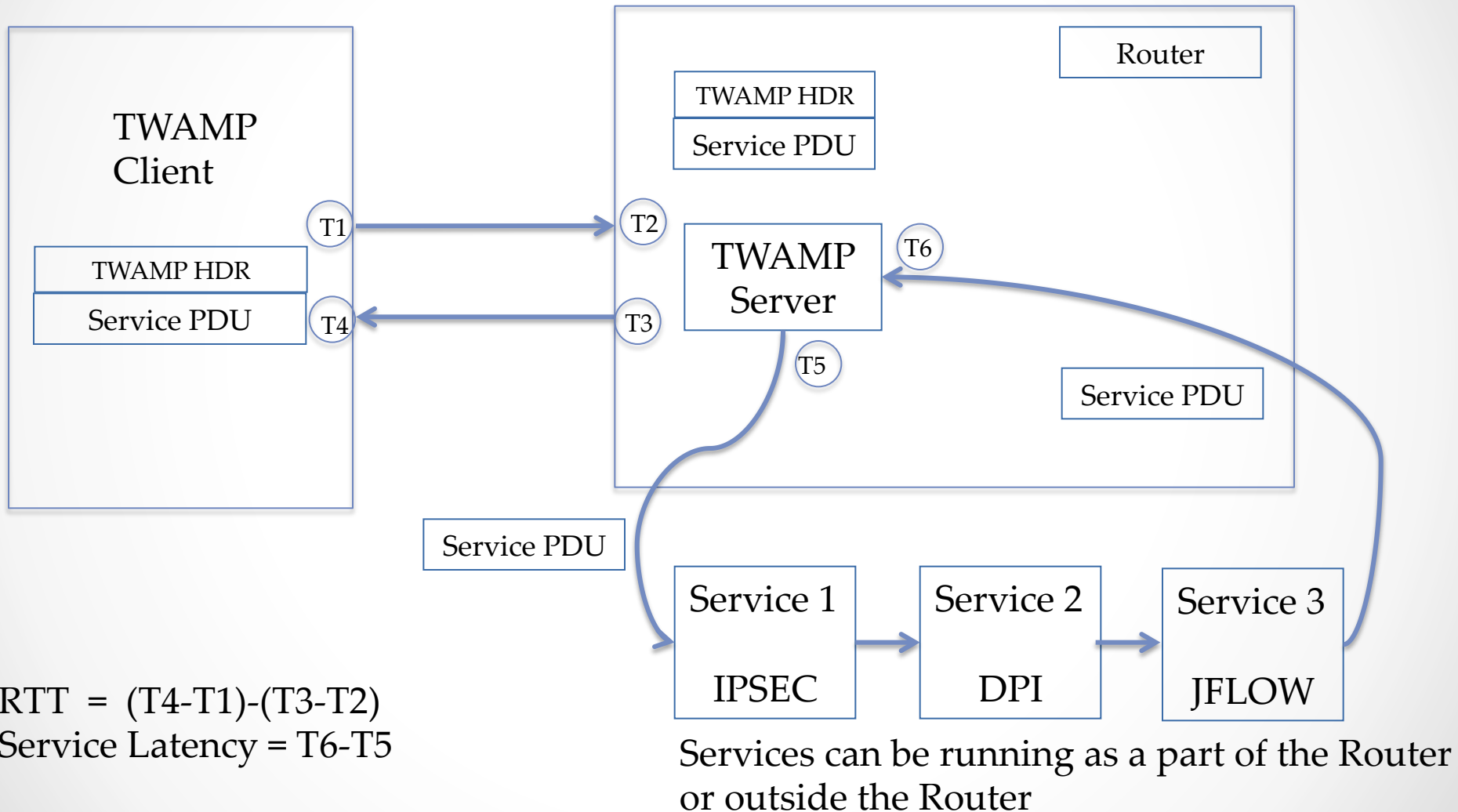Srivathsa Sarangapani
Peyush Gupta
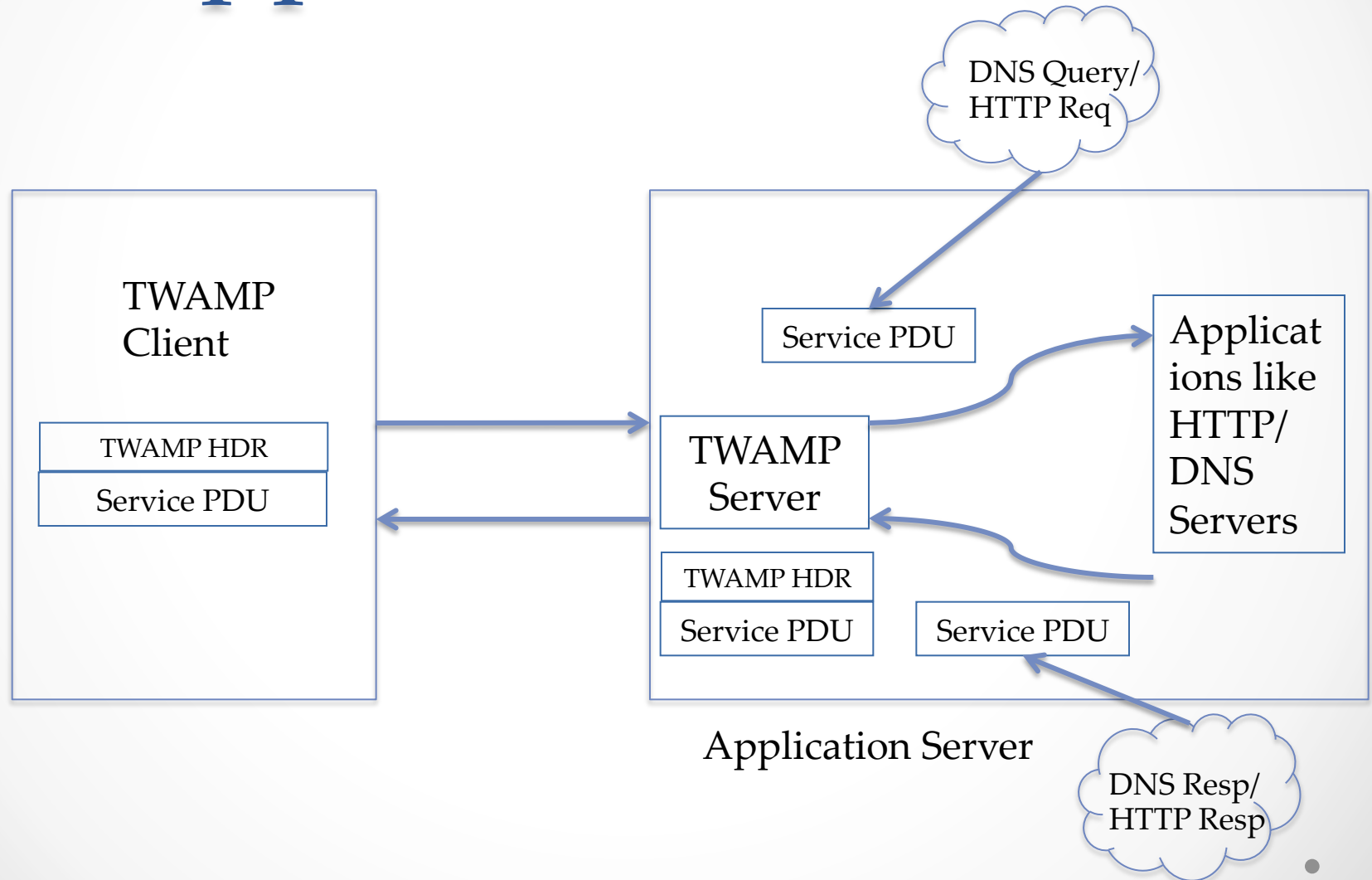
Goal

Extending TWAMP to calculate Services KPIs.

Examples
- Service Latency
- Liveliness of an Application/Service
- Service load
- Number of Drop/Discard packets per service
- Flow setup rate and drop rate for a service
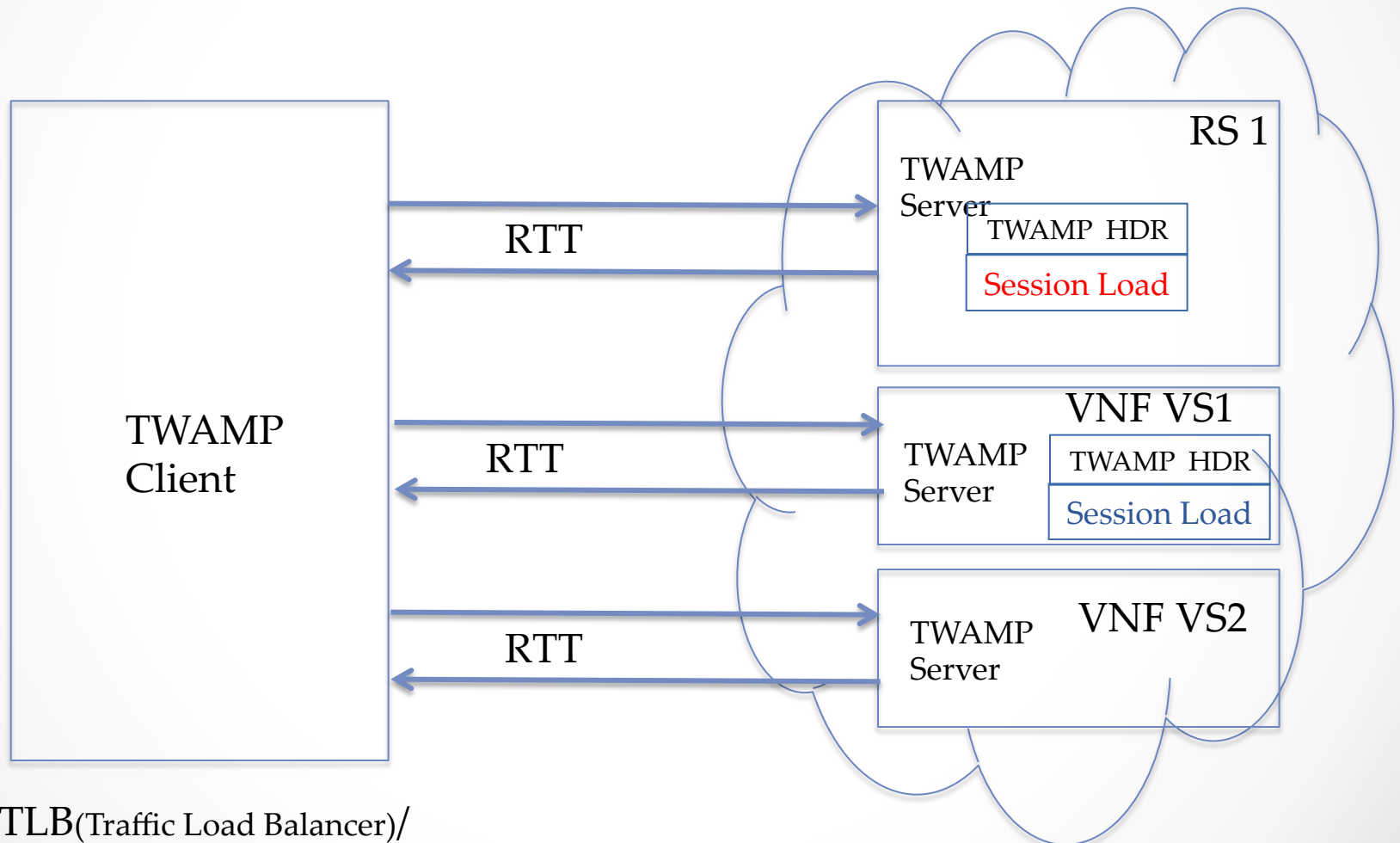
Service Latency

TWAMP Client

TWAMP HDR

Service PDU

Router

TWAMP HDR

Service PDU

T1 → T2

T4 ← T3

TWAMP Server

T6

T5

Service PDU

Service PDU

RTT = (T4-T1)-(T3-T2)
Service Latency = T6-T5

Service 1	Service 2	Service 3
IPSEC	DPI	JFLOW

Services can be running as a part of the Router or outside the Router

Liveliness of an Application/Service

Service load

Service load here can mean: Session/Subscriber/Tunnel/Bandwidth/Flows etc.

TWAMP Client

RTT

RS 1

TWAMP Server

| TWAMP HDR |
| Session Load |

VNF VS1

TWAMP Server

| TWAMP HDR |
| Session Load |

VNF VS2

TWAMP Server

TLB(Traffic Load Balancer)/
SLB(Server Load Balancer)

Multiple RS(Real Server) or
VNF(Virtual Server) in Cloud

Next Steps

- Seek Reviewers from TWAMP community

- Eventually, WG adoption

- Comments are welcome

- Any interested co-authors?