

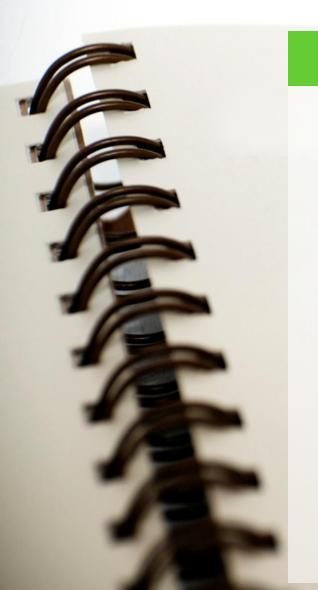
Access Interfaces

Lesson Objectives

By the end of this lesson, you will be able to describe:

- The Diameter access interface
- The ECI access interface
- The OSA/Parlay access interface

Agenda



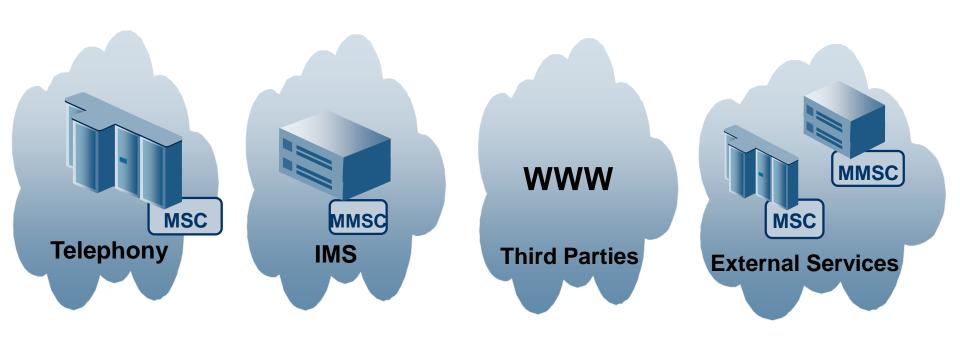
Access Interfaces

Diameter Channel

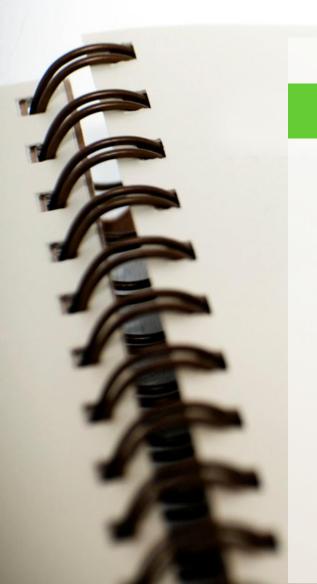
ECI Channel

OSA/Parlay Channel

Access Interfaces



Agenda



Access Interfaces

Diameter Channel

ECI Channel

OSA/Parlay Channel

Overview – Diameter (1)

- Diameter is a successor to the RADIUS (Remote Authorization Dial In User Service) protocol for AAA
- A Diameter Application is not a software application, but a protocol based on the DIAMETER Base protocol (an Application Part)
- Diameter is a request/answer protocol which contains a series of Attribute Value Pairs (AVP).

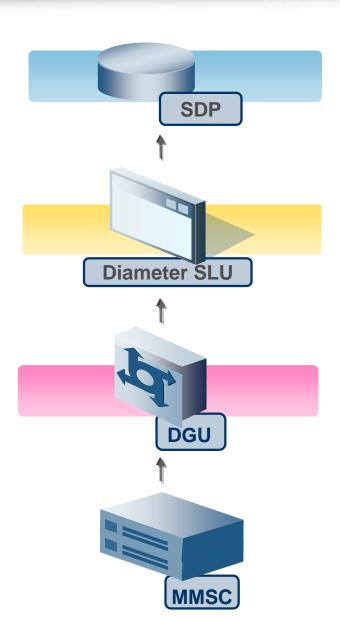


Overview – Diameter (2)

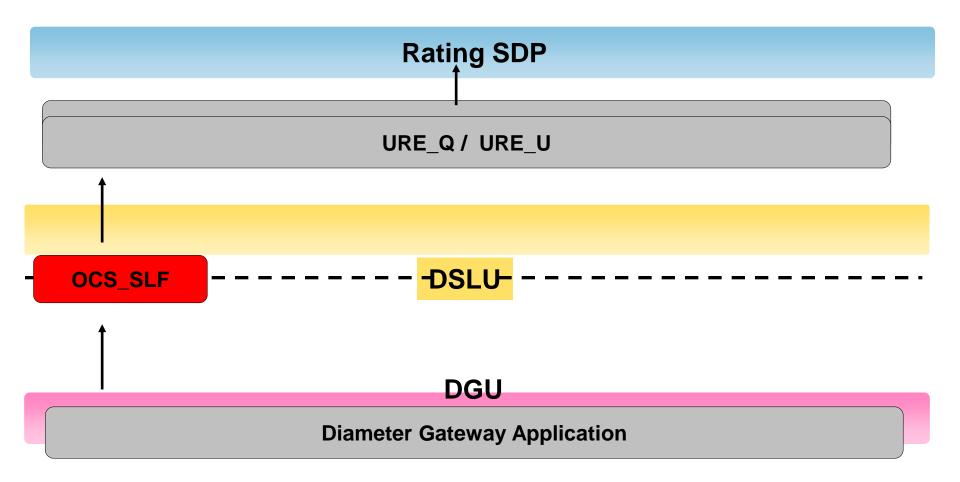
Diameter Applications extend the base protocol, by adding new commands and/or attributes.

- Applications are independent of the Base
- Potentially large numbers of Applications and AVPs can be supported
- Users can define their own applications, commands and AVPs

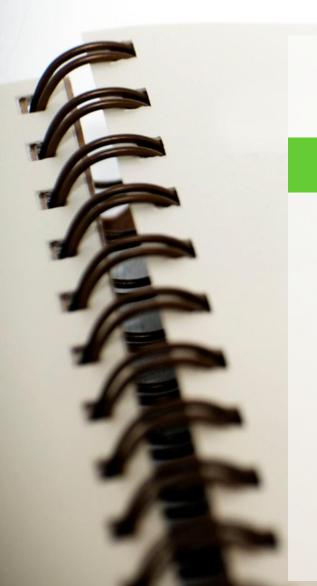
The Diameter Pipe



Diameter Processes



Agenda



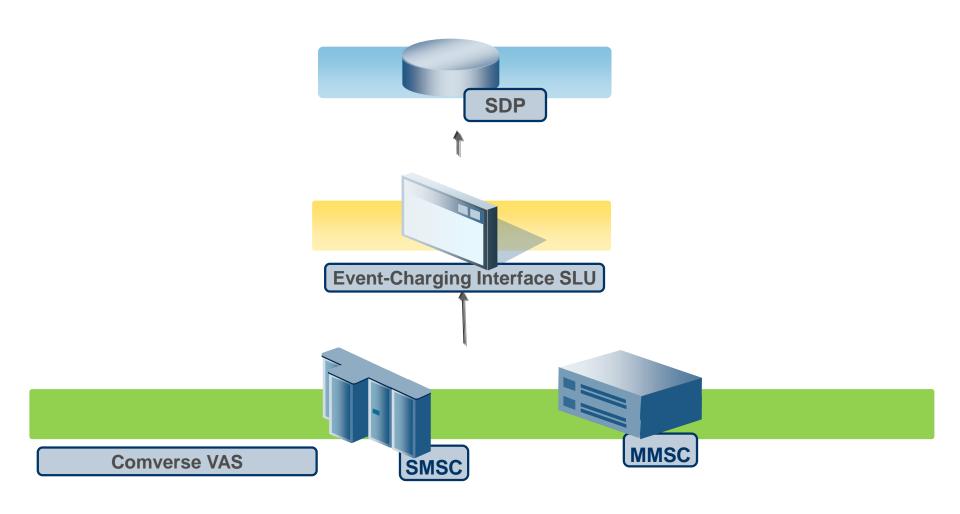
Access Interfaces

Diameter Channel

ECI Channel

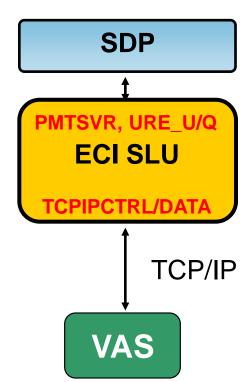
OSA/Parlay Channel

The Event-Charging Interface



The Event-Charging Interface SLU

- Runs OMNI
- Network Connectivity: TCPIPCTRL and TCPIPDATA
- SLF: PMTSVR



Agenda



Access Interfaces

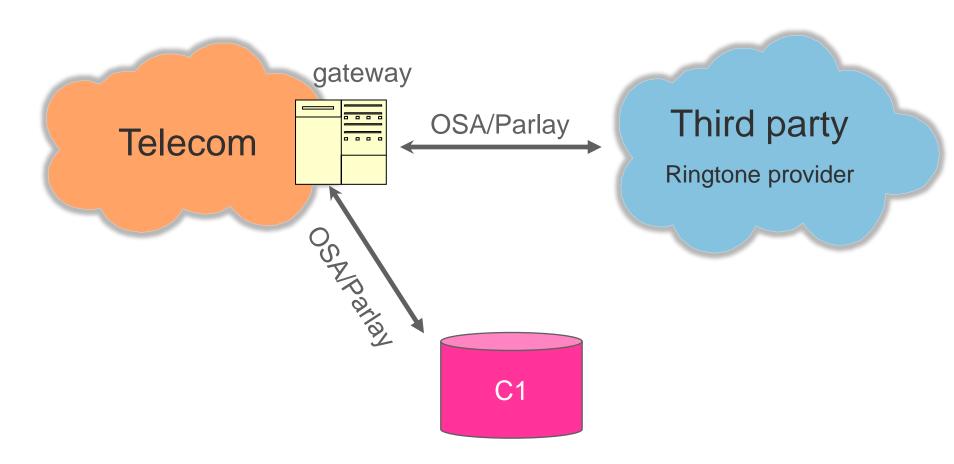
Diameter Channel

ECI Channel

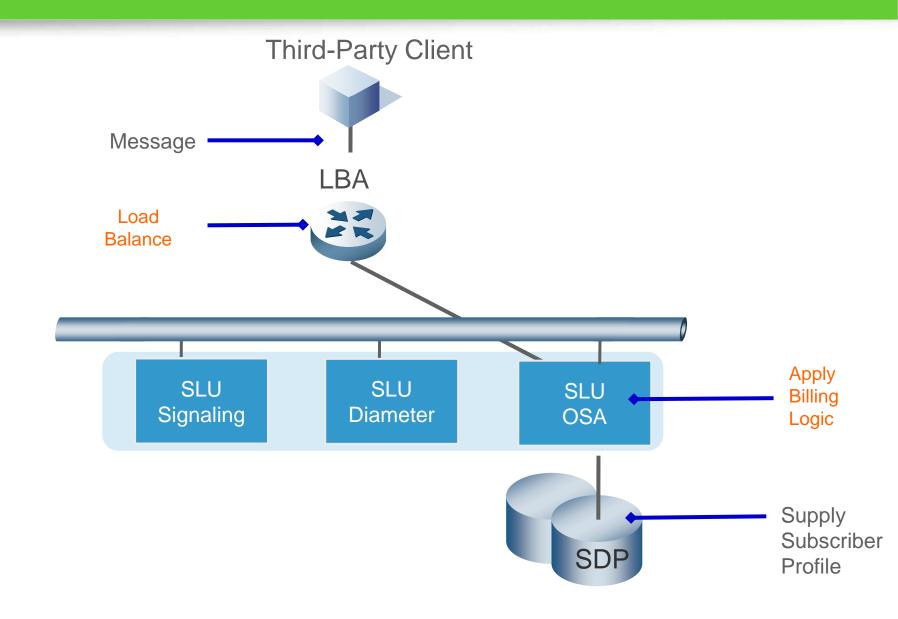
OSA/Parlay Channel

Open Service Access (OSA)

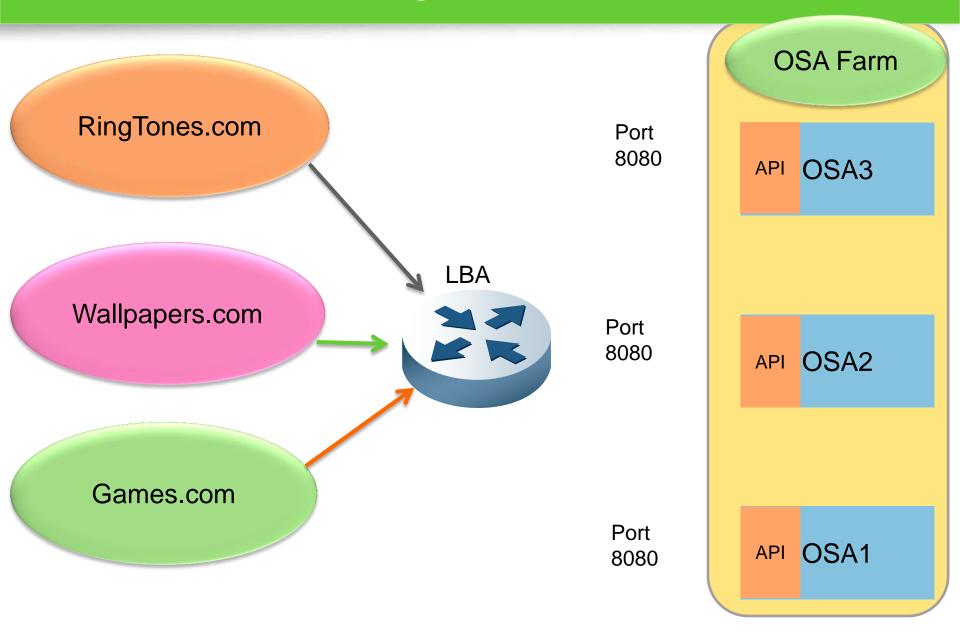
OSA is the open service Access standard in which telecom networks and third parties communicate.



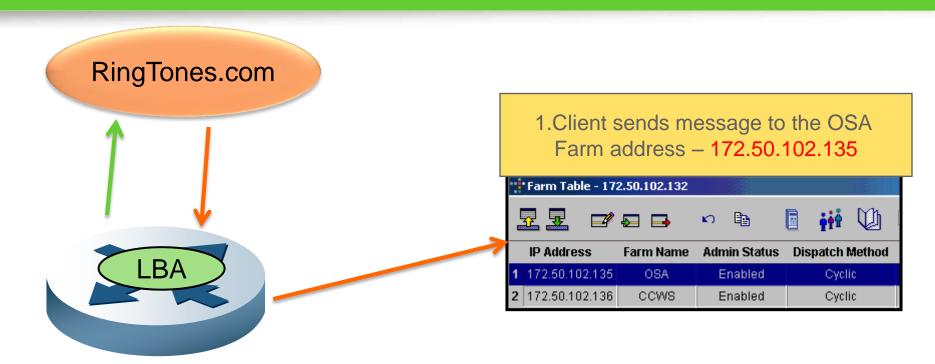
OSA Flow



OSA Load Balancing



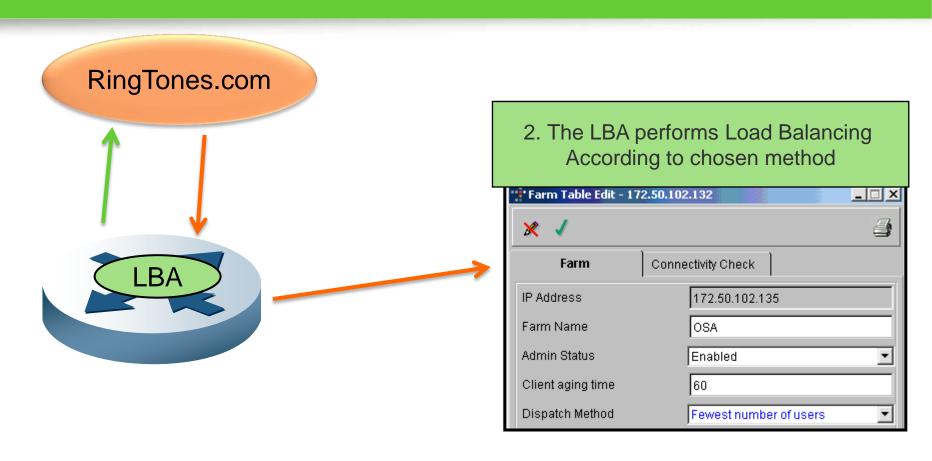
LBA Introduction (1)



OSA2

OSA1

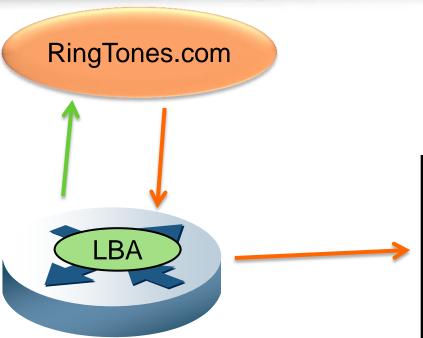
LBA Introduction (2)



OSA2

OSA1

LBA Introduction (3)



3. The LBA forwards the message to OSA1 server – **172.50.100.16**



LBA Introduction (4)



4. OSA1 responds with a specific URL for the rest of the session.

```
OSA System Parameters
Parameter Filename
                                = OsaSystemParameters.dat
Logical Name
                                = SLF OSA
SESSION TIMEOUT
                                = 120
RESERVATION TIMEOUT
                                = 120
SDSINTERACTION TIMEOUT
                                = 15
MAX CONCURRENT SESSIONS
                                = 10000
WEBSERVICE LISTEN PORT
                                = 50012
SLU ID
                                = 1
SLU ID Numeric
                                = 1
HOST ID
                                = osa1
                                = http://172.50.100.16/osa/1/$SESSION IDS
CHARGING SESSION URL
```

Summary

This lesson has covered:

- Diameter access channel
- ECI access channel
- OSA/Parlay access channel



