



Comverse Knowledge Group

*Learn, Share, Grow*

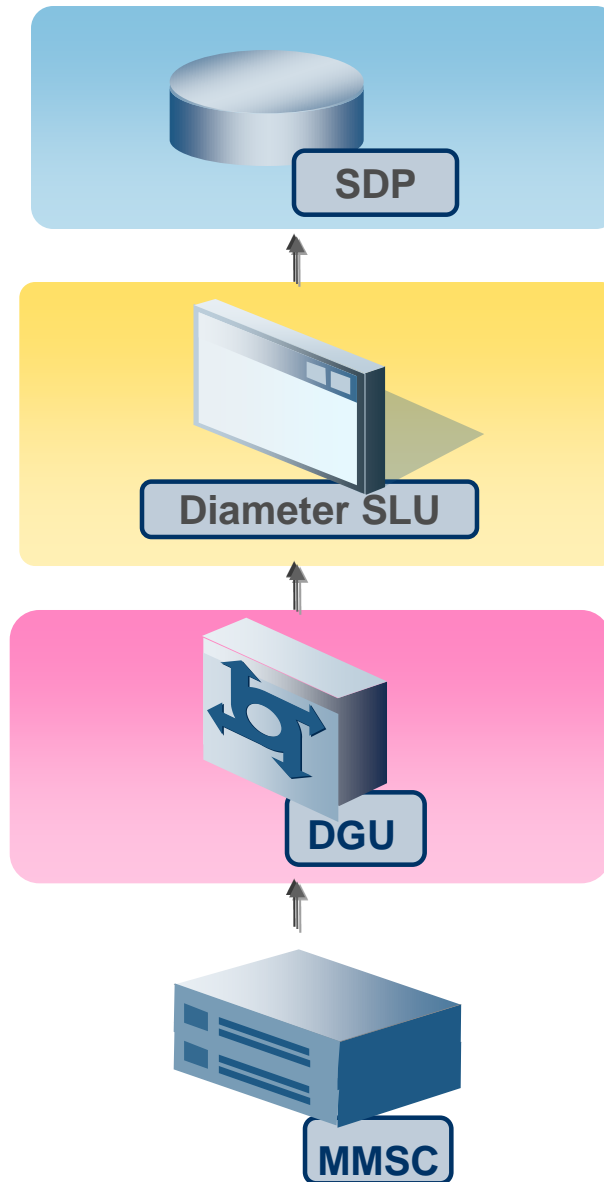
## The Diameter Pipe – Configuration

# Lesson Objectives

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

- DGU and its connectivity to the MSC
- DSLU and its connectivity to the DGU

# Diameter Overview



# Agenda

Platform Configuration – DGU

Platform Configuration – DSLU

Client-Access Configuration

Access-Application Configuration



# Platform Configuration – DGU

- **File:** /home/omni/ipf/conf/**dguPlatform.dgu1**



**Hostname/IP addresses/Cluster**

**Number of DSLUs**

# DGU Configuration Steps

**Step 1:**  
**Configure  
the  
platform  
file**



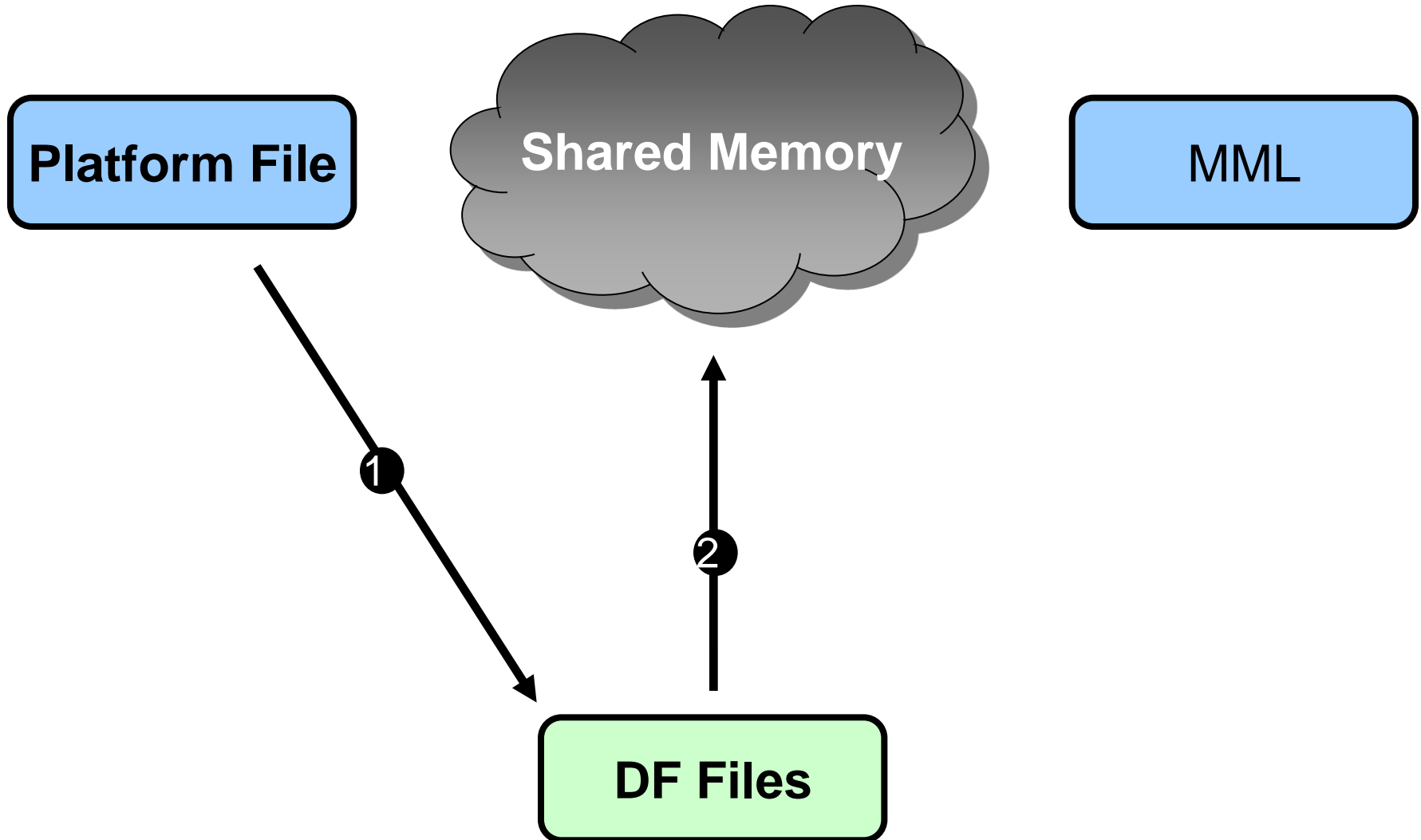
**Step 2:**  
**Run  
the  
script**



**Step 3:**  
**Restart the  
OMNI  
platform**

1. File: /home/omni/ipf/conf/**dguPlatform.dgu1**
2. Command: #OMNI\_HOME/ipf/conf/configureDGU **dgu1**
3. Command: **service omni start**

# Configuration by Using the Platform File



# Agenda

Platform Configuration – DGU

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# Platform Configuration – DSLU

File: home/omni/ipf/conf/**dguPlatform.dgu1**



**Hostname/IP addresses/Cluster**

**Enable OCS\_SLF**

**OPT\_OCS=yes      # enable OnlineChargingSystem using Diameter**

# DSLUI Configuration Steps

**Step 1:**  
**Configure  
the  
platform  
file**



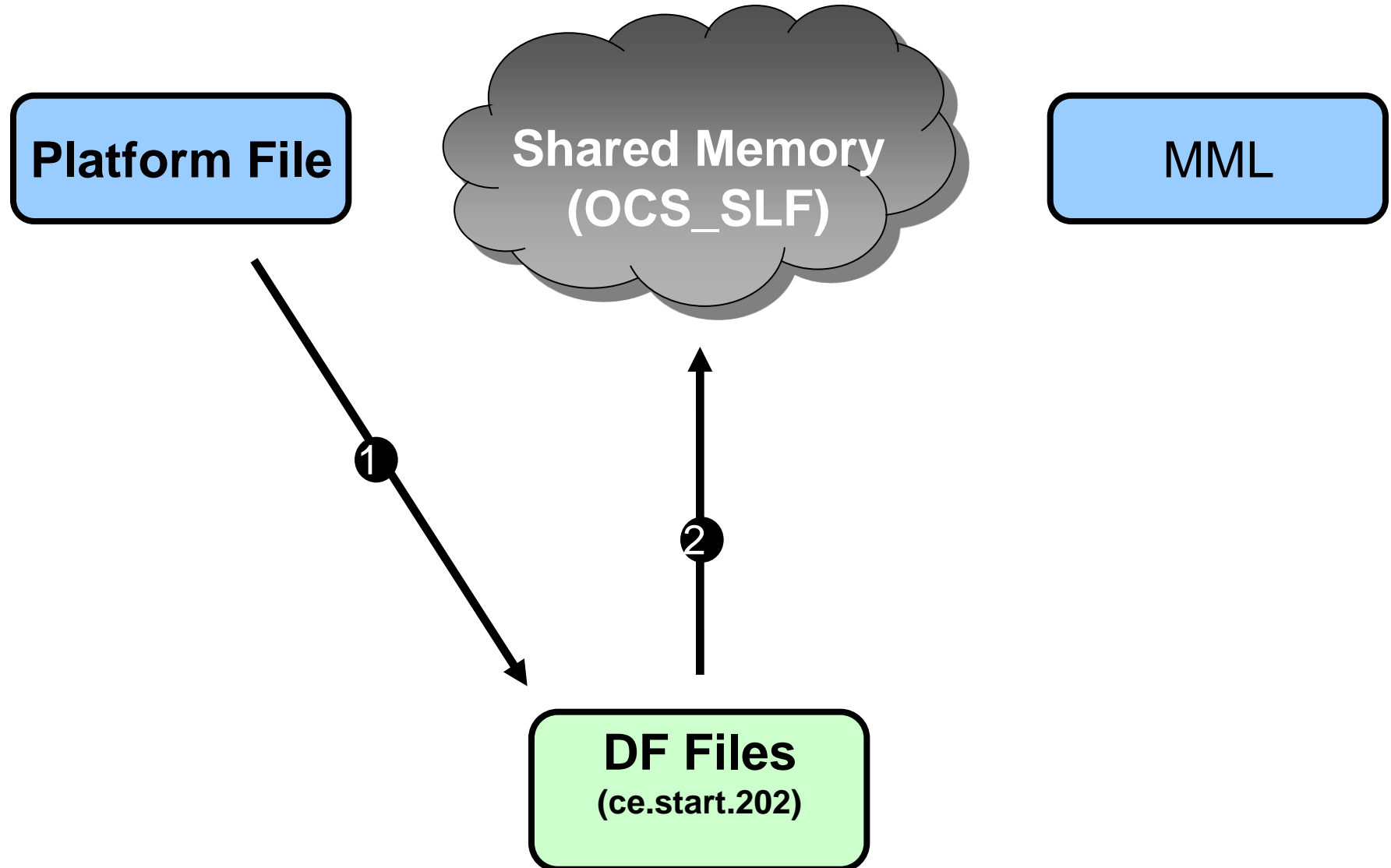
**Step 2:**  
**Run  
the  
script**



**Step 3:**  
**Restart the  
OMNI  
platform**

1. File: /home/omni/ipf/conf/**platform.dslu1**
2. Command: #OMNI\_HOME/ipf/conf/configureSNCP **slu1**
3. Command: **Init a**

# Configuration by Using the Platform File



# Agenda

Platform Configuration – DGU

Platform Configuration – DSLU

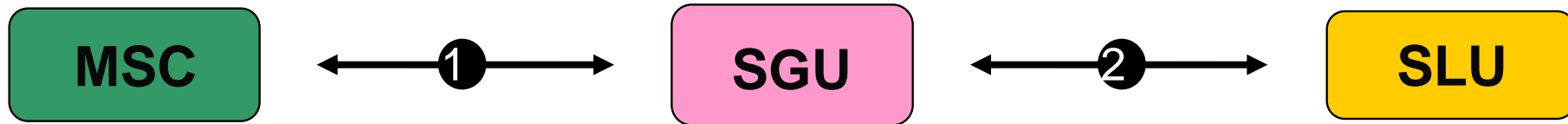
Client-Access Configuration

Access-Application Configuration



# Signaling Network Configuration

- Configuring the Signaling Network



- Step 1 was done on the SGU
- Step 2 was done on the SLU
- At startup, the SLUs register on the SGUs

# Diameter Network Configuration

- Configuring the Signaling Network



- Step 1 was done on the DGU
- Step 2 is ALSO done on the DGU
- At startup, the DGUs “register” on the DSLUs

# Network Elements and Structure

- **Realm**

**movilnet.com**

- **Peer**

**smc1.movilnet.com**

# Network Configuration Steps

**1.Create Local DGU Realm**



**2.Create Peer Realm**



**3.Create Peers**



**4.Create and Add Peer Services**



**5. Activate Peers**



# Network Configuration Architecture (1)

**realm: converse.com**



# Network Configuration Architecture (2)



- Peers: **smsc1, smsc2, smsc3**
- Peers Fully Qualified Domain Name: **smsc1.movilnet.com**
- Service: **SMS\_Service**

# Agenda

Platform Configuration – DGU

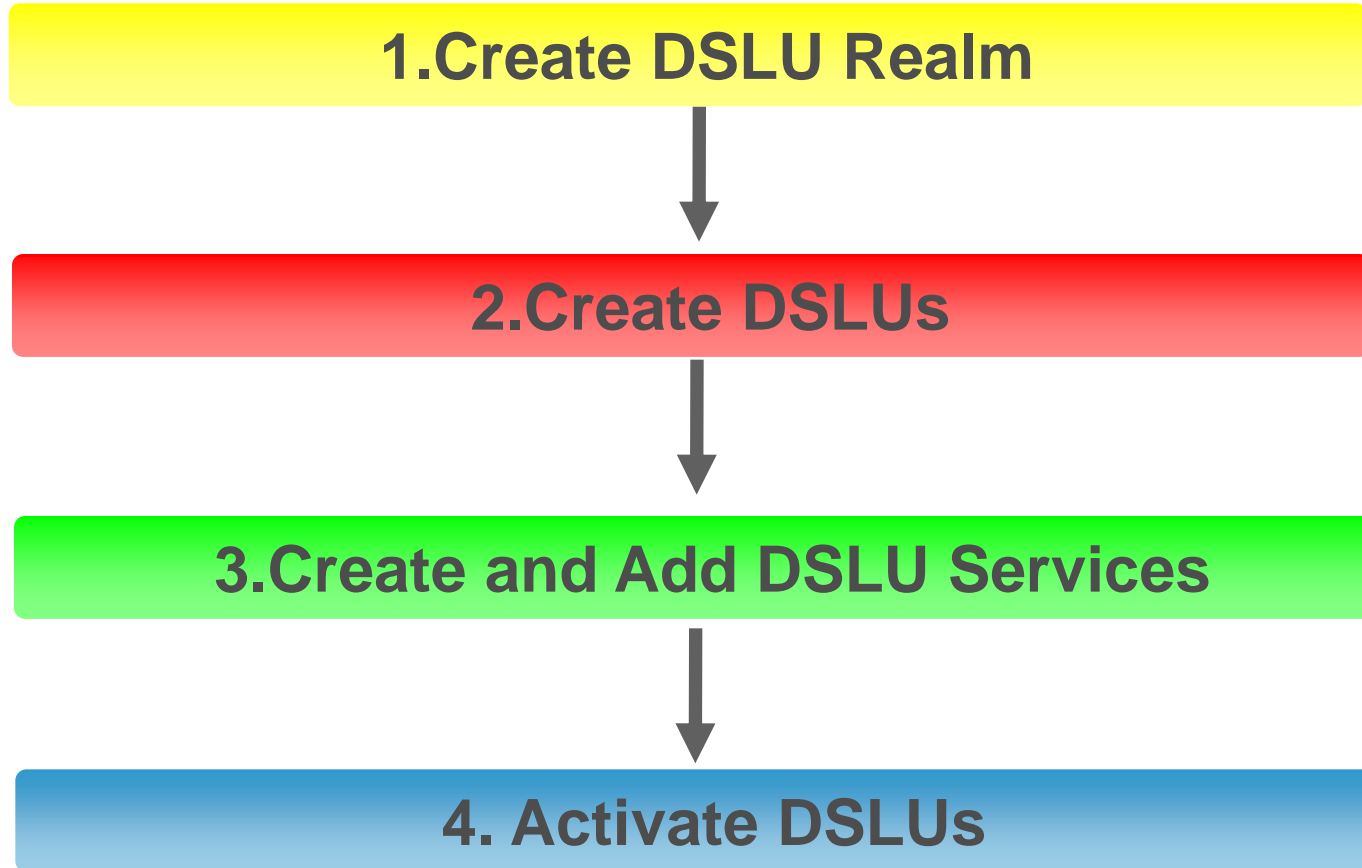
Platform Configuration – DSLU

Client-Access Configuration

Access-Application Configuration



# Network Configuration Steps

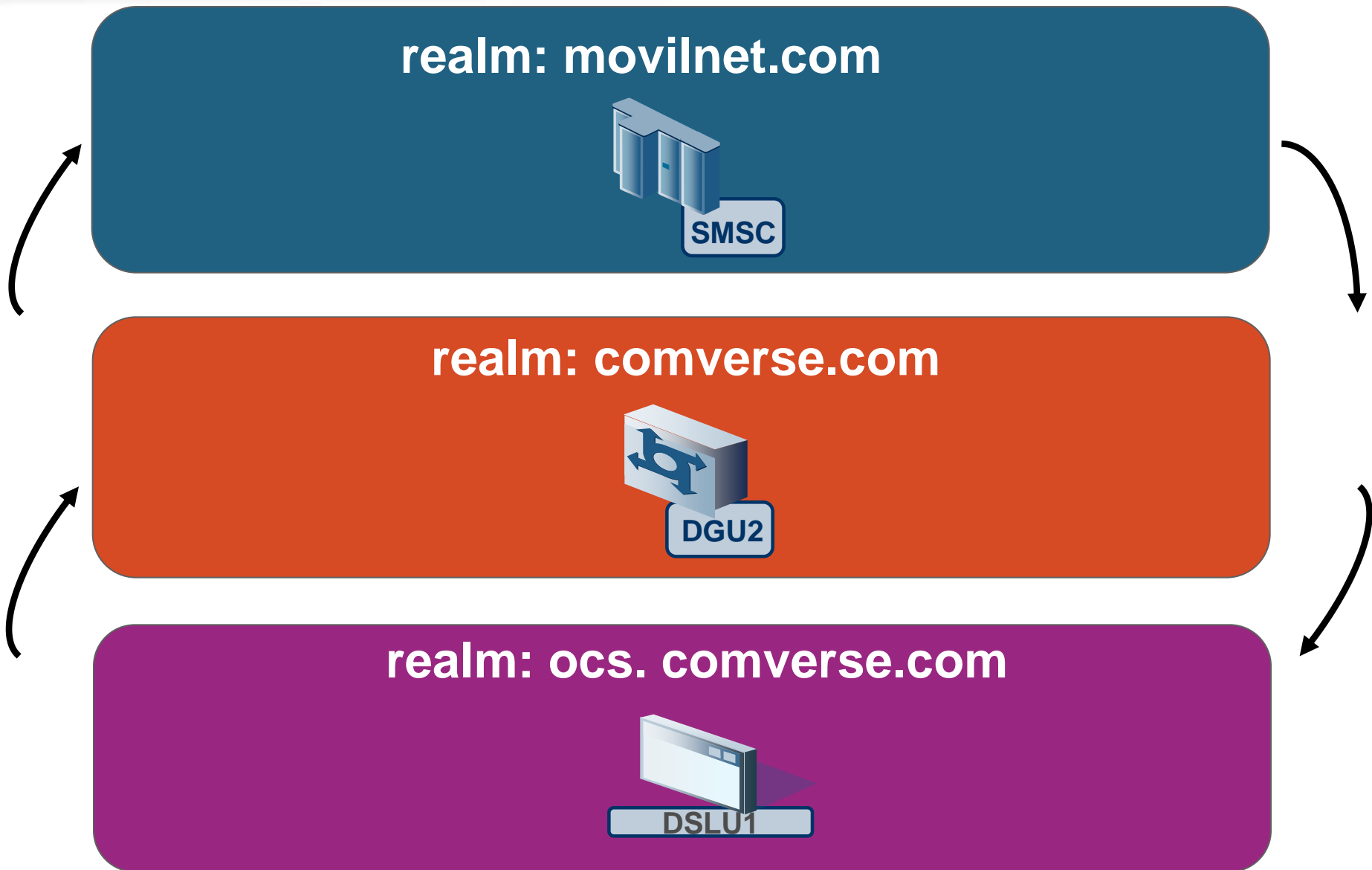


# Network Configuration Architecture



- Peers: **dslu1, dslu2, dslu3**
- Peers Fully Qualified Domain Name:  
**dslu1.comverse.com**
- Service: **IMS\_Services**

# Complete Network Configuration

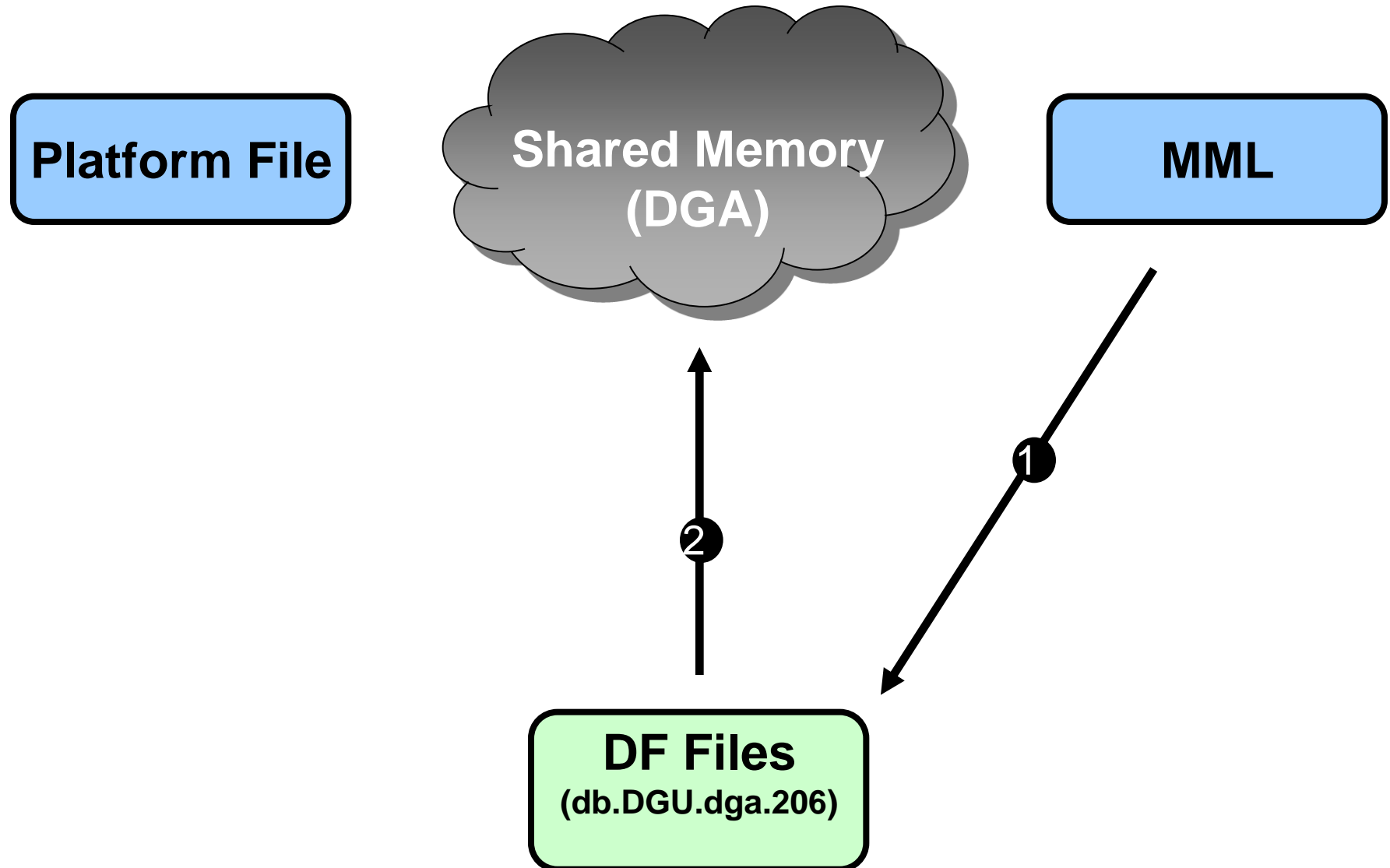


# DGU Network Configuration



1. Edit the file: `/home/omni/conf/db.DGU.dga.206`
2. Restart OMNI: `#service omni stop/start`
3. From OMD: `pevt or DGA>>#tr`

# Static MML Configuration





# Validating DGA Process Configuration

Command: **OMD DGA**

```
DGU:dgu1> omd DGA
name=omd19535, path=omd, node=, target=DGA

current time is Thu Jan 31 12:06:49 2008
type '?' for command list
DGA>>
```

Command: **pevt**

```
# init a
# exit
SNCP:slu2> pevt
005003 29-Jan-2008 17:43:54 slu2.RC Info Full client RC registered [entry=20 pi
d=25543 queue=0x2c30010]
005003 29-Jan-2008 17:43:54 slu2.IP Info Full client IP registered [entry=14 pi
d=25536 queue=0x2c40011]
005003 29-Jan-2008 17:43:54 slu2.TREATMENT Info Full client TREATMENT registere
d [entry=23 pid=25546 queue=0x2c50012]
017023 29-Jan-2008 17:43:54 slu2.TAP Info process TREATMENT is active (initiali
zed) on CE slu2
005003 29-Jan-2008 17:43:54 slu2.IP_NM Info Full client IP_NM registered [entry
```

# Summary

This lesson has covered the basic configuration of the Diameter pipe.