

Open Source MANO

Team 3

Results

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Who we are?



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Tasks Completed

- ✓ A) on-board Magma ORC with OSM
- ✓ B) on-board Magma AGW with OSM
- ✓ C) on-board SRS-LTE simulators for gnb and UE
- ⚠ D) connect it all together to see traffic in Magma Orchestrator - OSM day 2 action
- ✗ E) implementing 2 additional lifecycle actions (disconnect / connect simulators)
- ✗ F) implementing 2 additional lifecycle actions (connect / disconnect AGW to/from ORC)

Magma ORC, AGW & ENB Onboarded!

← → ↻ No es seguro | <https://ui.54.89.249.116.nip.io/instances/ns>    

Here is the new version 9.0.0.post61 of OSM! 



OSM Version 9.0.0.post61

Projects (admin) ▾

User (admin) ▾

Dashboard > Projects > admin > NS Instances

Dashboard

PROJECT

Packages >

Instances >

SDN Controller

VIM Accounts

K8s >

OSM Repositories

WIM Accounts

ADMIN

NS Instances

 New NS

 init  running / configured  failed  scaling

Entries 10 

Name	Identifier	Nsd name	Operational Status	Config Status	Detailed Status	Actions
<input type="text" value="Name"/>	<input type="text" value="Identifier"/>	<input type="text" value="Nsd name"/>	<input type="text" value="Select"/>	<input type="text" value="Select"/>	<input type="text" value="Detailed Status"/>	
enb	1e461174-08e1-4005-b1d4-2c3b32f63e97	srs-lte-enb_nsd			Done	Action ▾
magma_agw_ns	fe51ee05-5a45-4347-94f4-87950ca14c5e	magma_agw_ns			Done	Action ▾
magma_orc_cnf_onboarded	cb99e9e5-f986-4c5e-9660-543a94c7bab1	magma_orc_cnf_ns			Done	Action ▾

Magma AGW recognized by Magma ORC

← → ↻ No es seguro | <https://team3org.nms.team3.osmhackfest.com/nms/team3net/equipment/overview/gateway/magma-agw/overview>

Equipment/magma-agw

Overview Event Logs Alerts Config Services Config Actions

magma-agw Autorefresh

Magma Access Gateway

Gateway ID
magma-agw

Hardware UUID
93801cdb-49f9-4224-b01e-e8bd2698b0ee

Version
1.7.0-1648117787-73e61141

Status Autorefresh

Health ● Good	Last Check in 17/6/2022, 12:4...	CPU Usage 1.3%
Event Aggregation ● Enabled	Log Aggregation ● Enabled	CPE Monitoring ● Disabled

Connected eNodeBs Autorefresh

Name	Serial Number	Health	MME	IP Address	Actions
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But we had trouble with Kafka & Keystone ☹️

```
ubuntu@ip-192-168-42-191:~$ osm ns-action enb --vnf_name "srsLTE" --vdu_id
srsLTE-vdu --action_name attach-ue --params '{
>   usim-imsi: "772170000000008",
>   usim-k: "c8eba87c1074edd06885cb0486718341",
>   usim-opc: "17b6c0157895bcaa1efc1cef55033f5f"
> }'
```

```
ERROR: Error 401: {
  "code": "UNAUTHORIZED",
  "status": 401,
  "detail": "Error during user authentication using Keystone: Authorization
failed: Unable to establish connection to http://keystone:5000/v3/auth/tokens:
HTTPConnectionPool(host='keystone', port=5000): Max retries exceeded with url:
/v3/auth/tokens (Caused by NewConnectionError('<urllib3.connection.HTTPConnection
object at 0x7fb1486e6250>: Failed to establish a new connection: [Errno 111]
Connection refused'))"
}
```

MANY THANKS TO THE INSTRUCTORS FOR
THEIR HARD WORK TO SOLVE IT!! 😊🔧

We retried attach-ue afterwards...

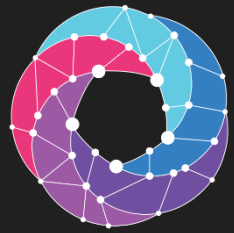
```
{
  "id": "b7dded68-b5a9-4af2-8f04-cb31fc106ed8",
  "operationState": "COMPLETED",
  "lcmOperationType": "action",
  "operationParams": {
    "primitive": "attach-ue",
    "primitive_params": "{\"usim-imsi\": \"772170000000008\", \"usim-k\": \"c8eba87c1074edd06885cb0486718341\", \"usim-opc\": \"17b6c0157895bcaa1efc1cef55033f5f\"}",
    "member_vnf_index": "srsLTE",
    "vdu_id": "srsLTE-vdu",
    "lcmOperationType": "action",
    "nsInstanceId": "1e461174-08e1-4005-b1d4-2c3b32f63e97"
  },
  "detailed-status": {
    "Code": "0",
    "message": "Attached successfully",
    "status": "ok"
  }
}
```

Seems it worked!

But we see nothing on Magma ORC 😞

Other OSM hacks carried out during the week

- Implement RO WIM TAPI connector for a IEEE NetSoft demo
 - Final video required by Monday 20/June 😬🤪
 - Want to see a preview of the Demo Video?



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Questions?

OSM#13 Hackfest
Team 3