

Mobile Softswitch Solution (MSS) 18 (Virtual and Native Deployment)



Why invest in MSS 18 package



MSS Supports VoLTE and VOWI-FI:

- Handover (SRVCC & DRVCC)
- Control of IMS Conference
- Mobile Originating ICS I2

Enhanced :

- Mid-call Codec Services
- SIP and MSC in Pool Handling

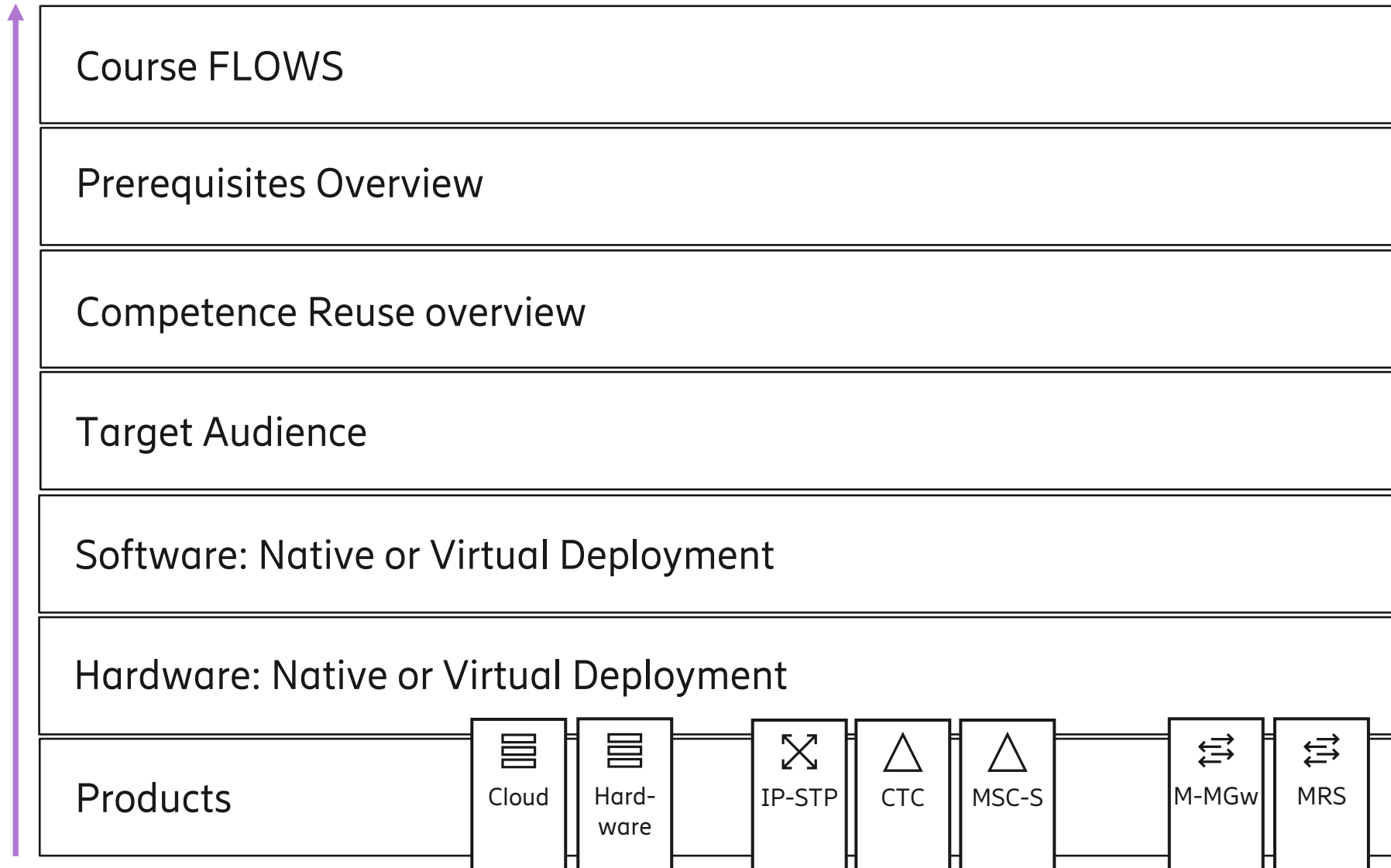
New Business

End-2-end Competence of ISUP, BICC, SIP-I, SIP, 2G, 3G, 4G, 5G & Wi-fi Voice call interworking

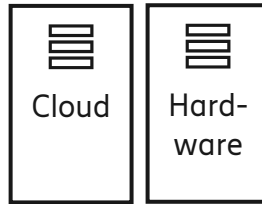
Can Share hardware with others nodes based on Multi-application and/or Cloud

Reduce costs

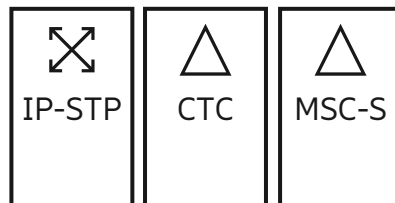
What is in the training package? Result of below factors



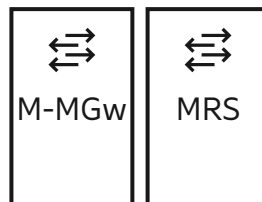
MSS product overview



Several Hardware options are supported, based on Cloud, HDS and BSP products.



STP, MSC and MSC-S native and virtual AXE based Applications.



Both M-MGw and MRS can handle Media for: SIP-I, SIP, 2G, 3G, 4G, 5G and Wi-Fi.

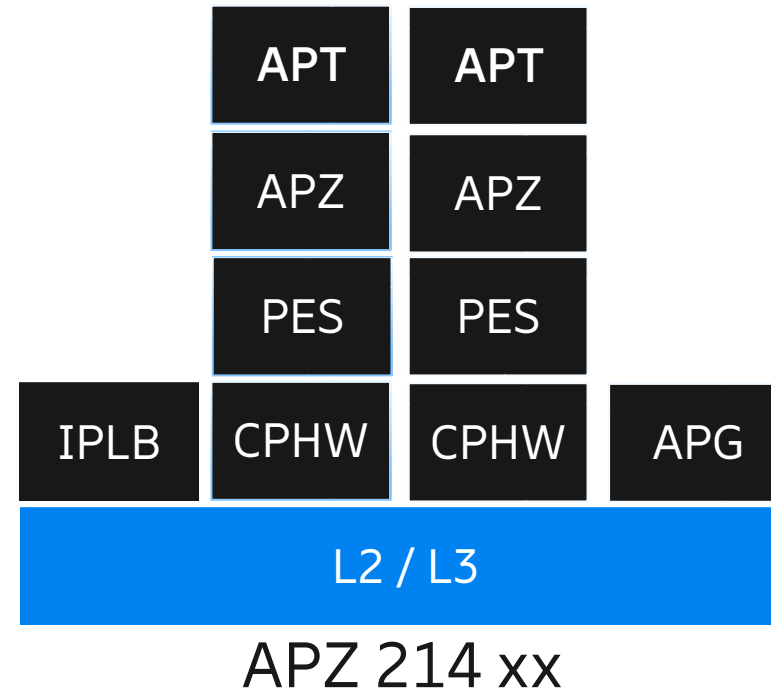
Compact or High Capacity?



Dual Blade (DB) - Compact

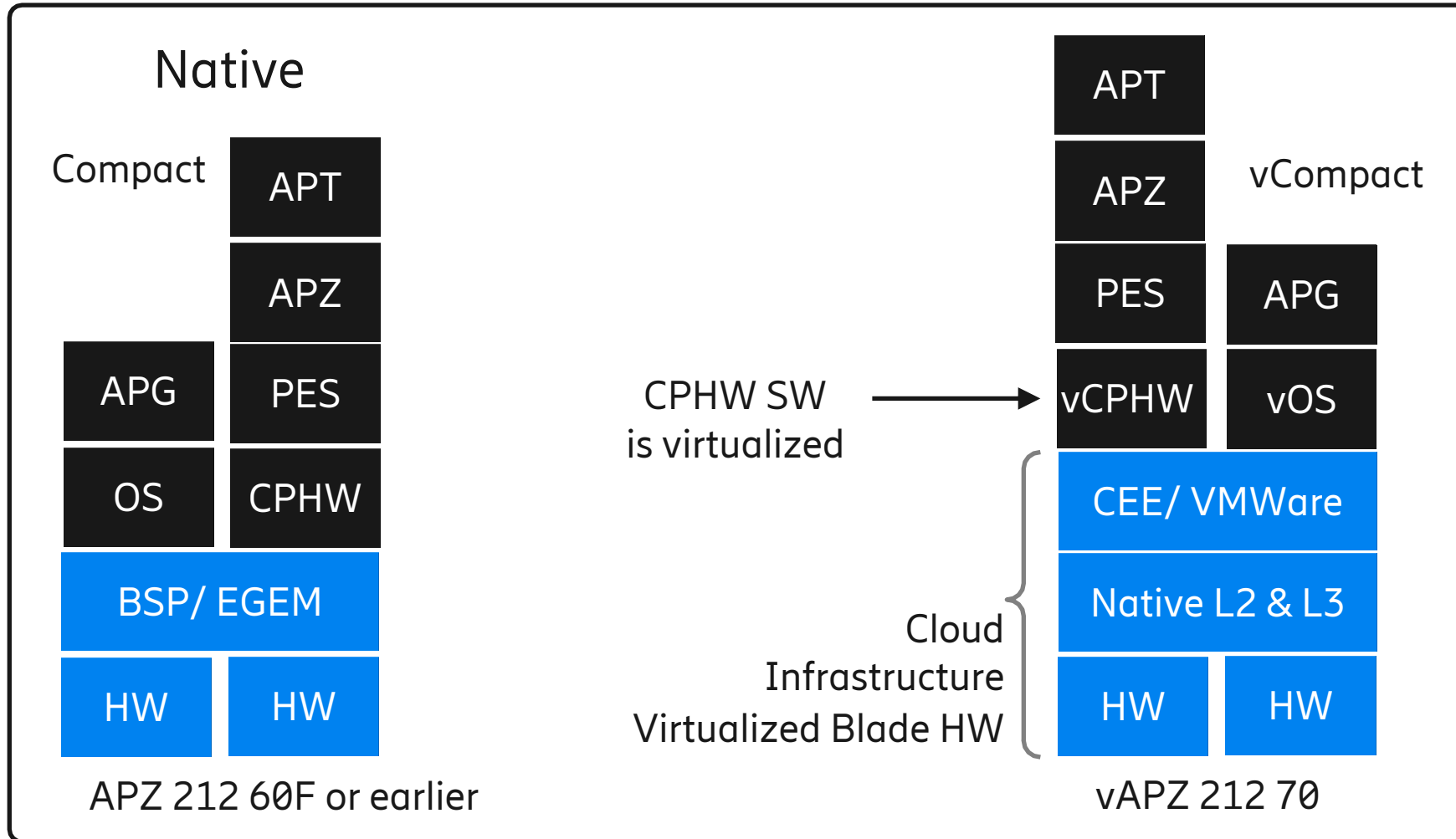


Blade Cluster (BC) – High Capacity

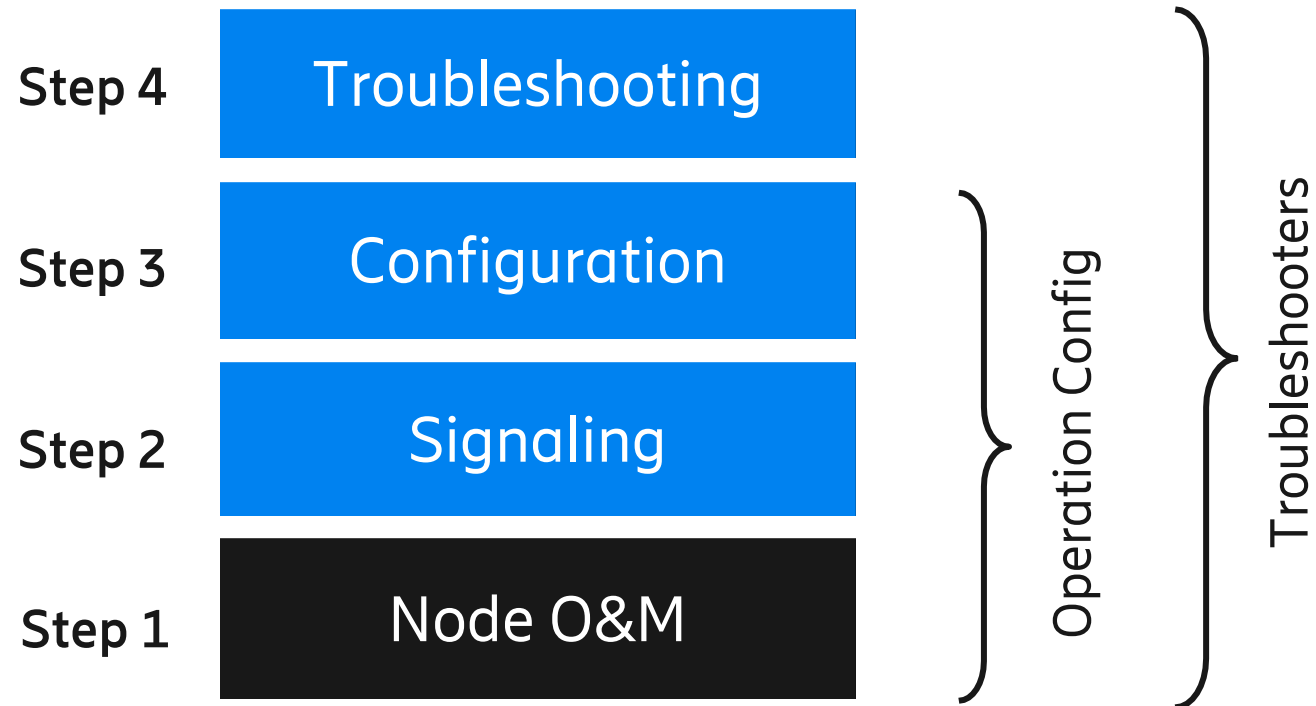


Dual Blade Competence is needed for Blade Cluster

Native or virtualized deployment?

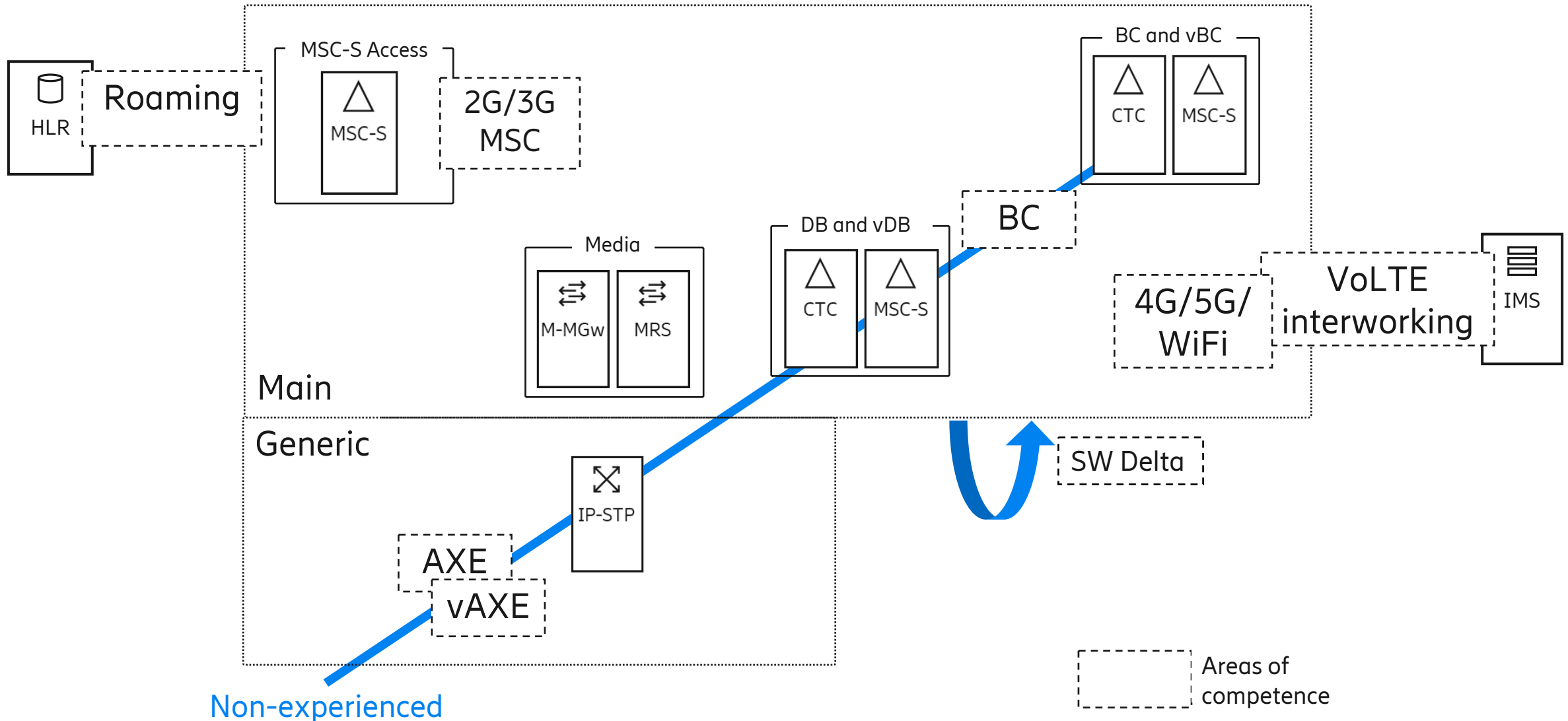


Target audiences



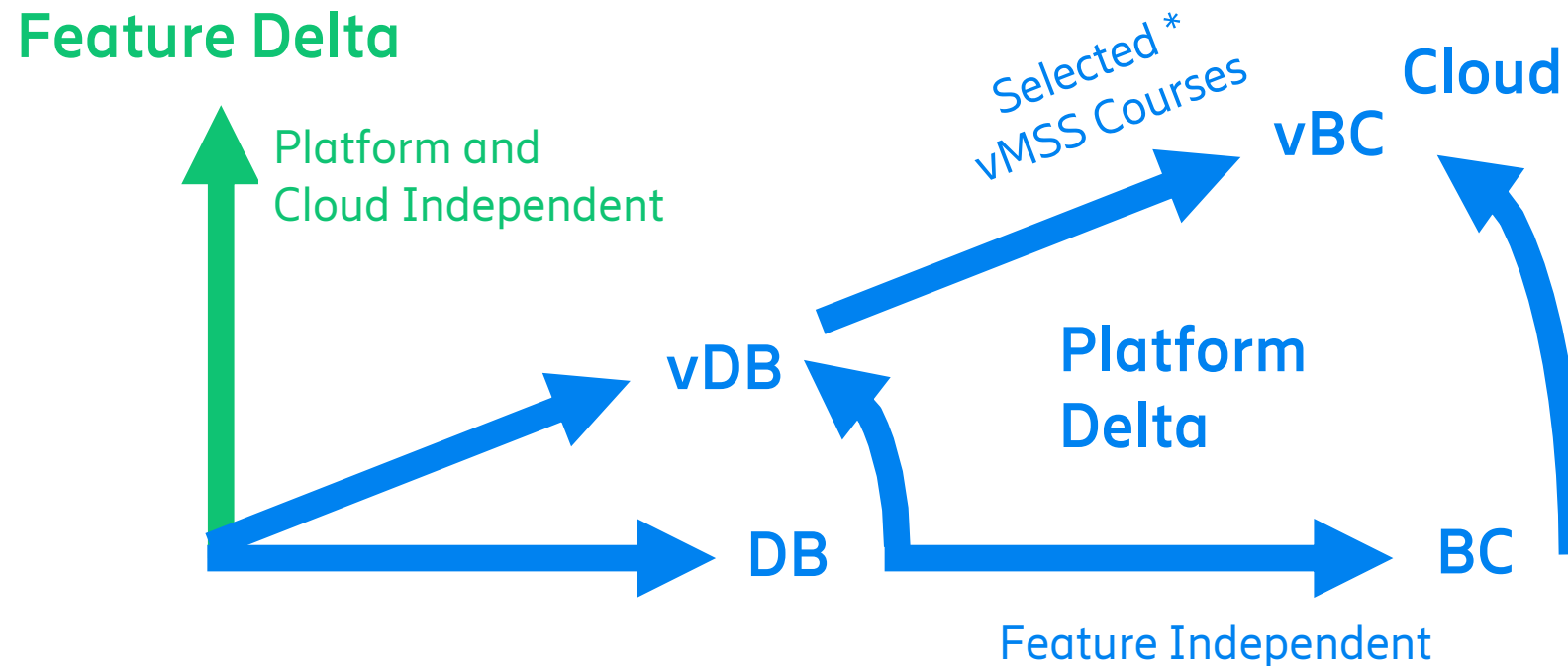
Advanced training is needed for Troubleshooting

Competence reuse overview



Non-experienced

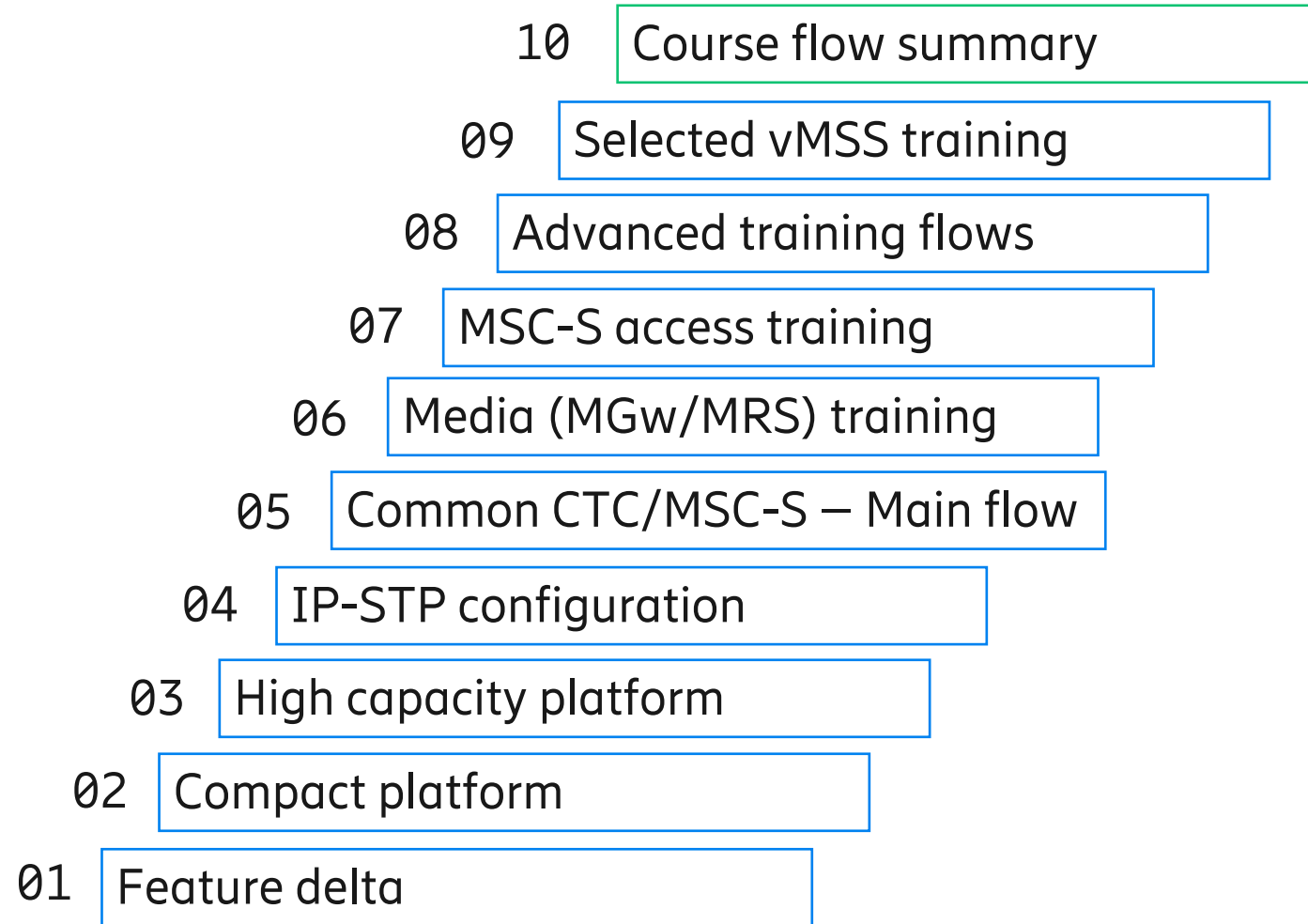
Platform delta vs Feature delta



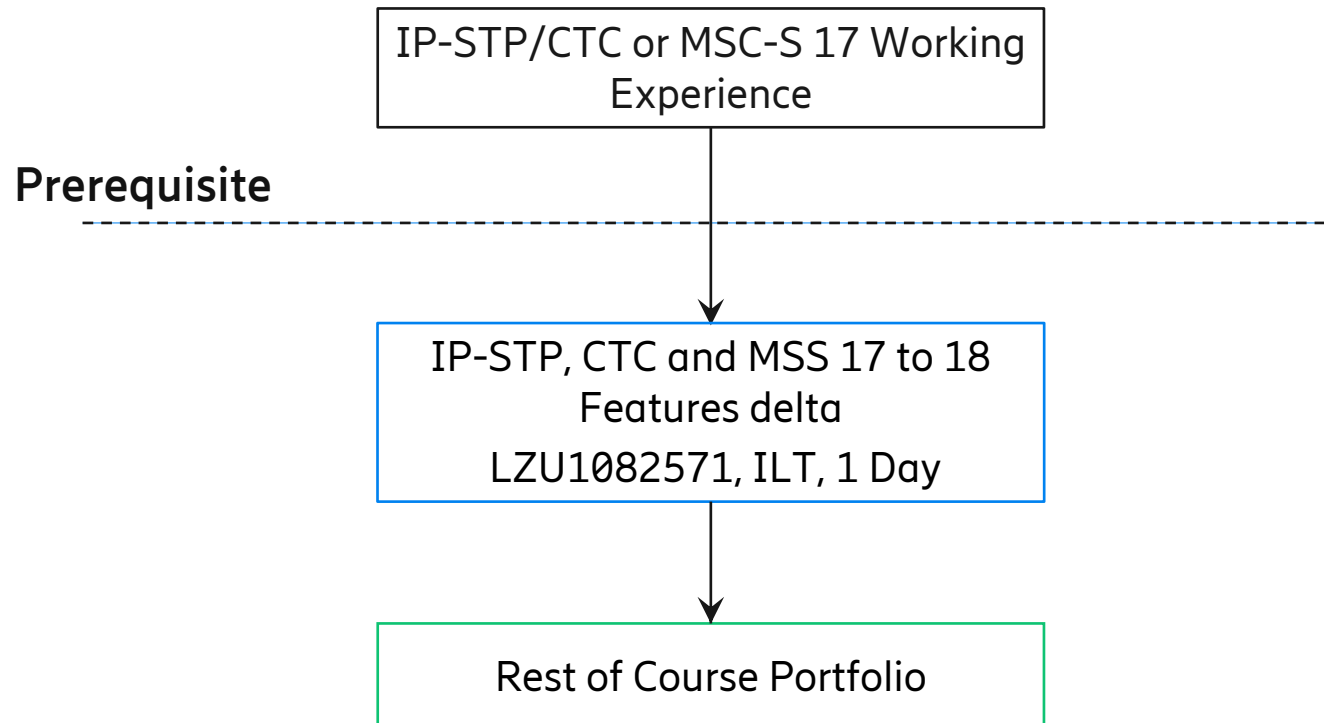
Competence is reused with Platform and Feature Deltas

* Most MSS Courses are independent of Cloud & Platform

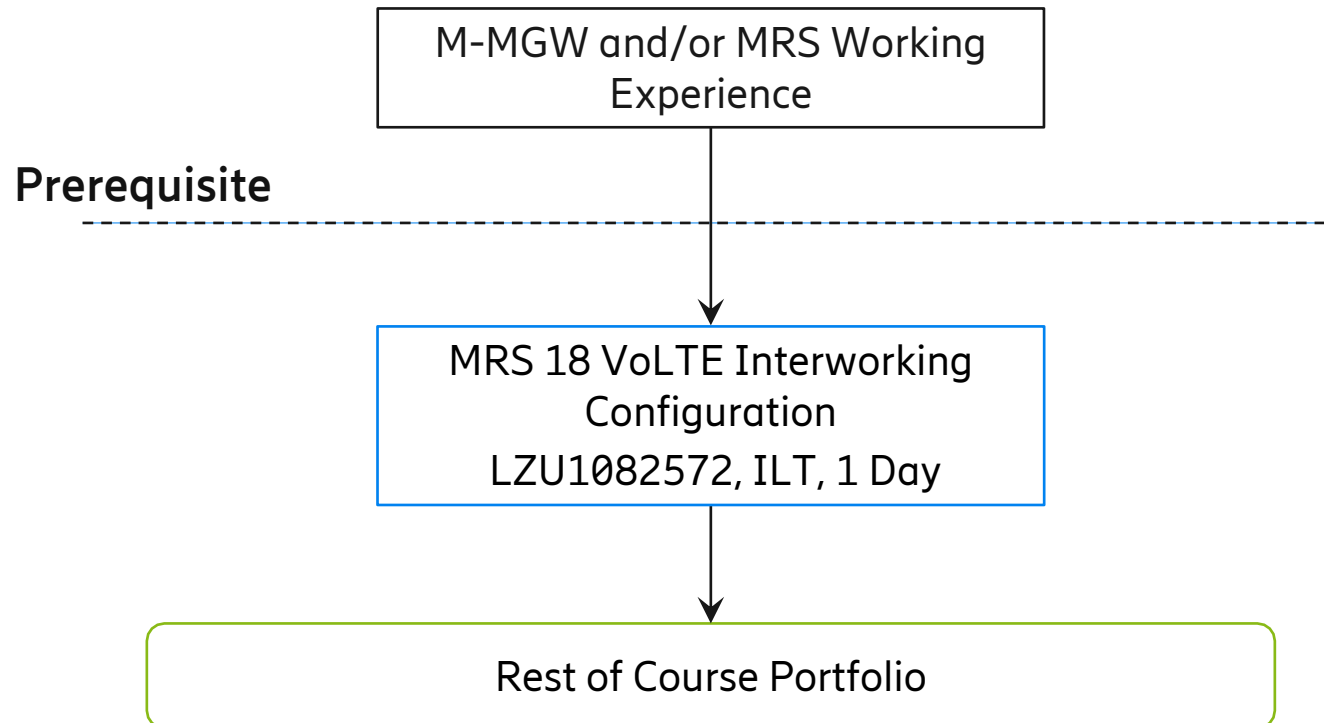
Course flows overview



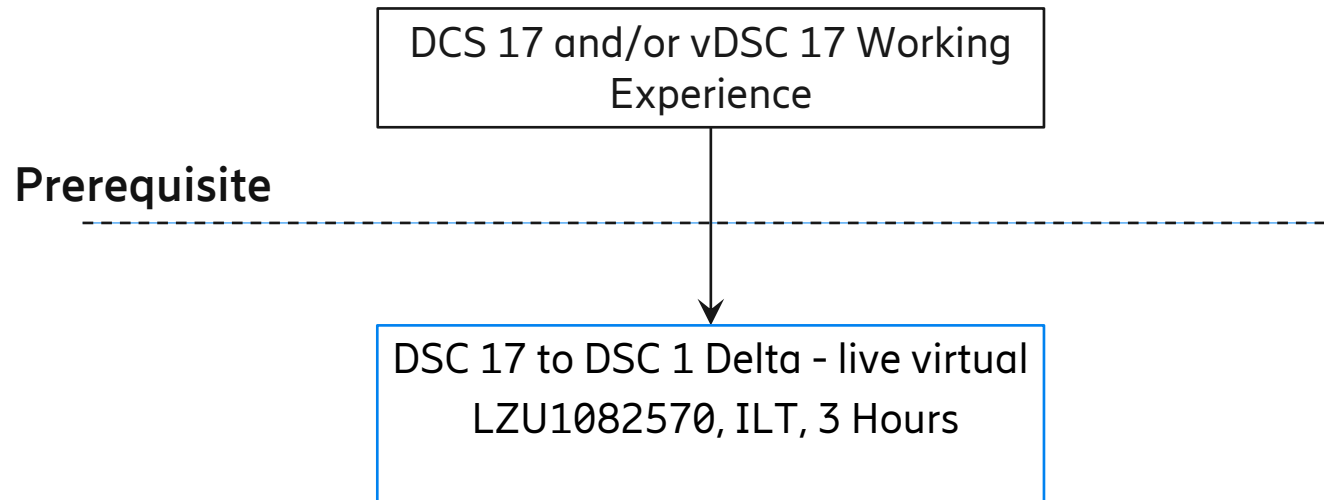
01a. MSC-S 17 to 18 delta



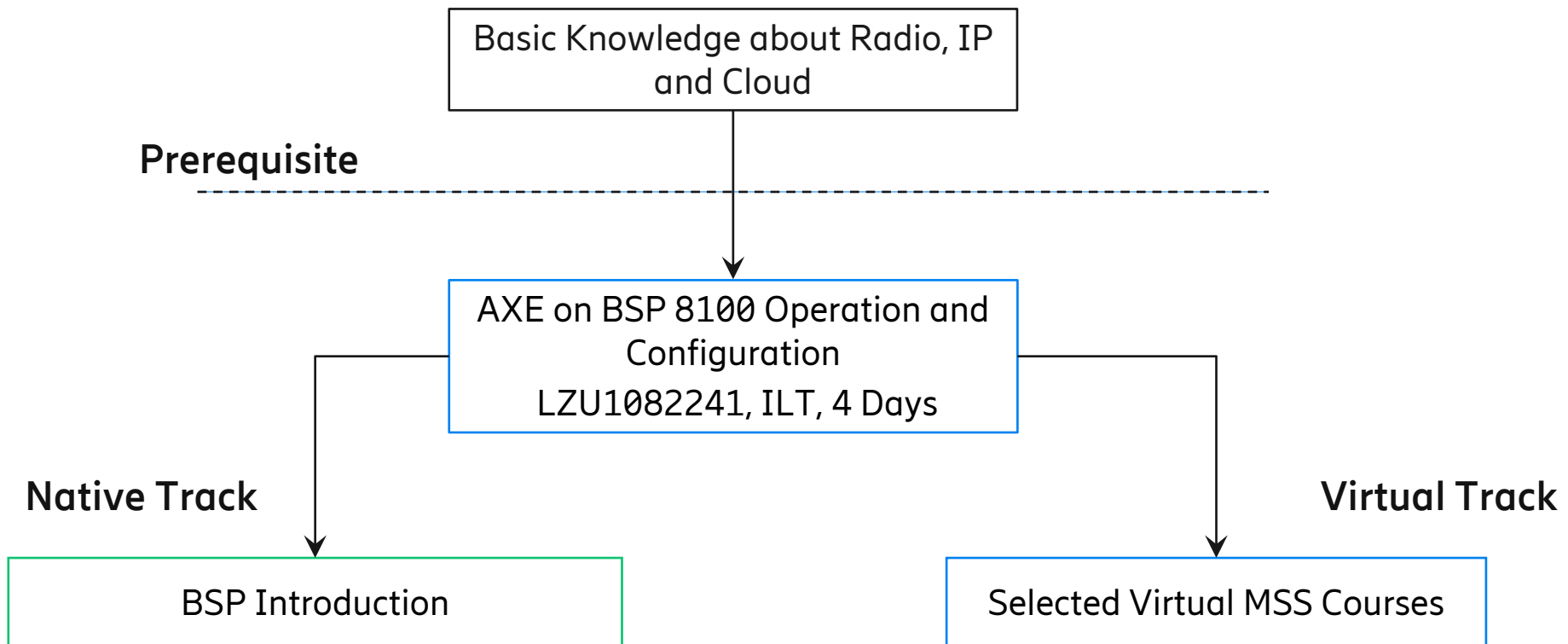
01b. VoLTE media interworking delta



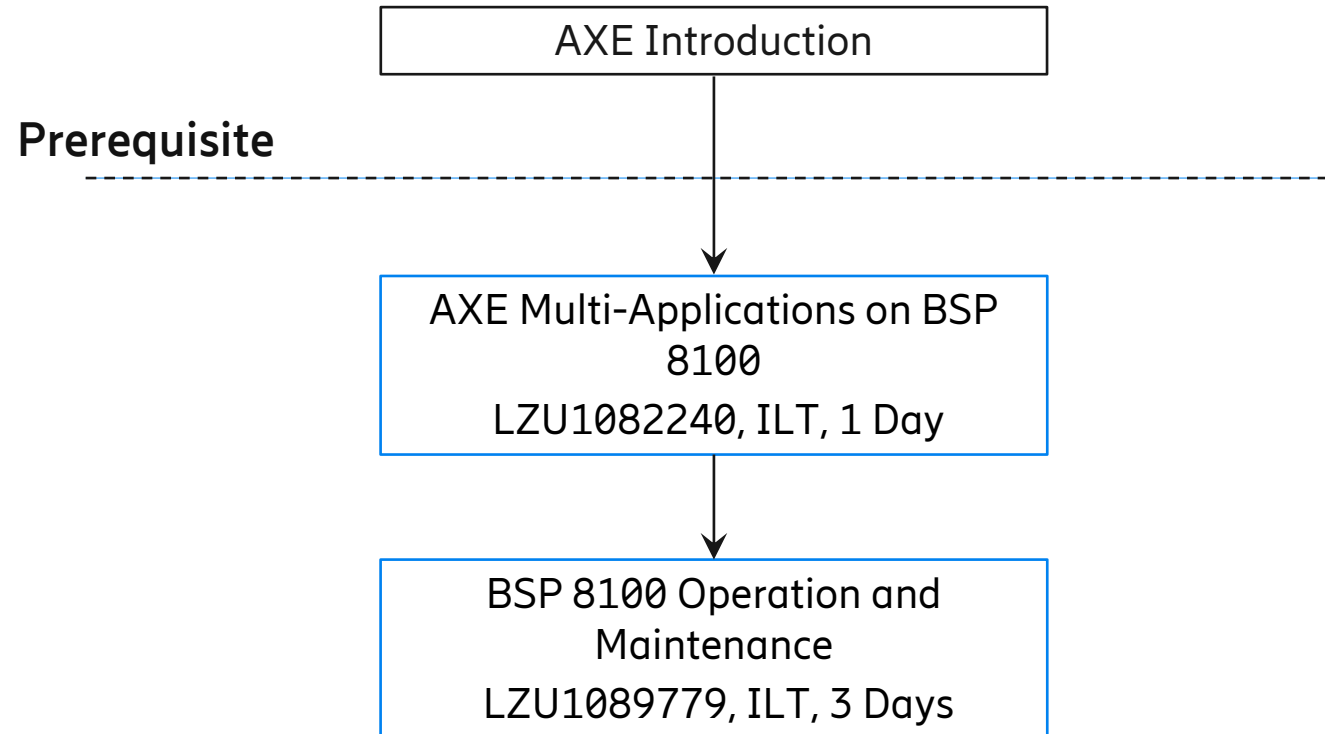
01c. DSC 17 to 18 delta



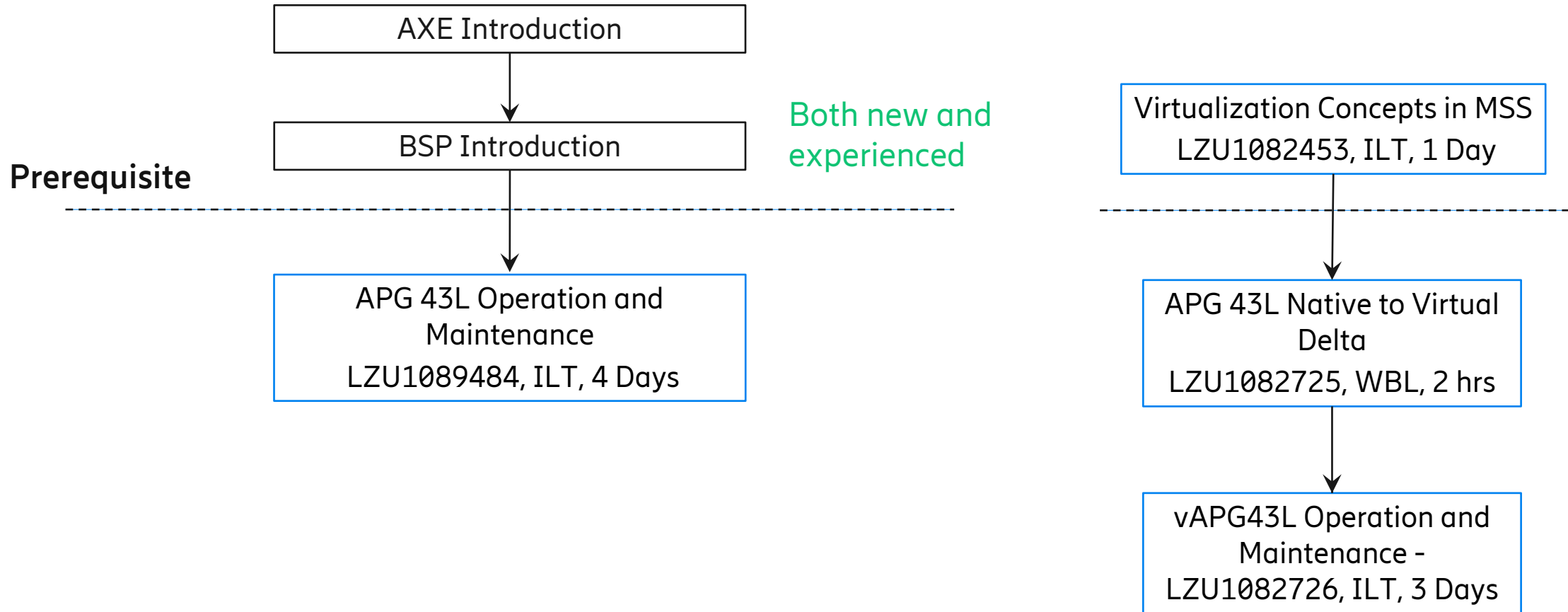
02a. AXE introduction



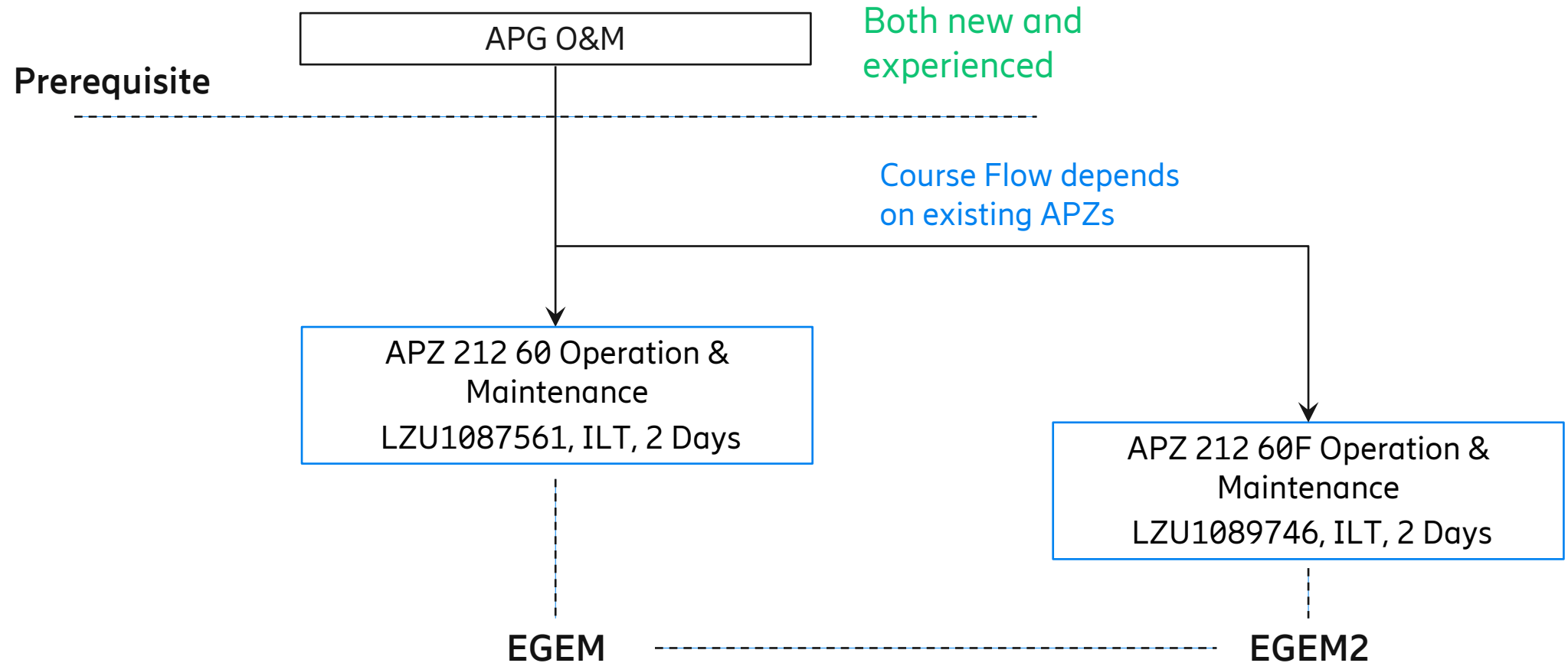
02b. BSP introduction



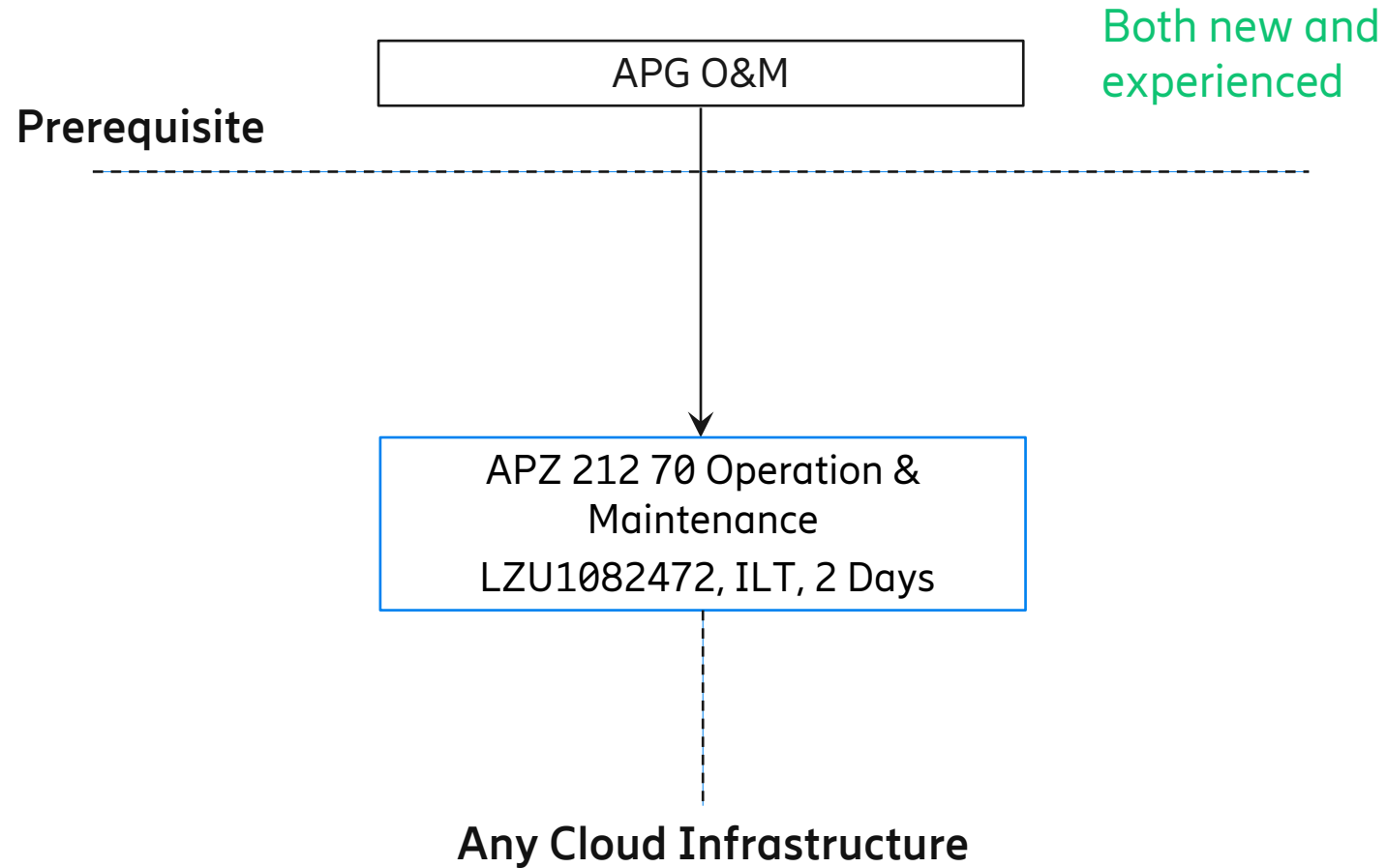
02c. APG/vAPG O&M



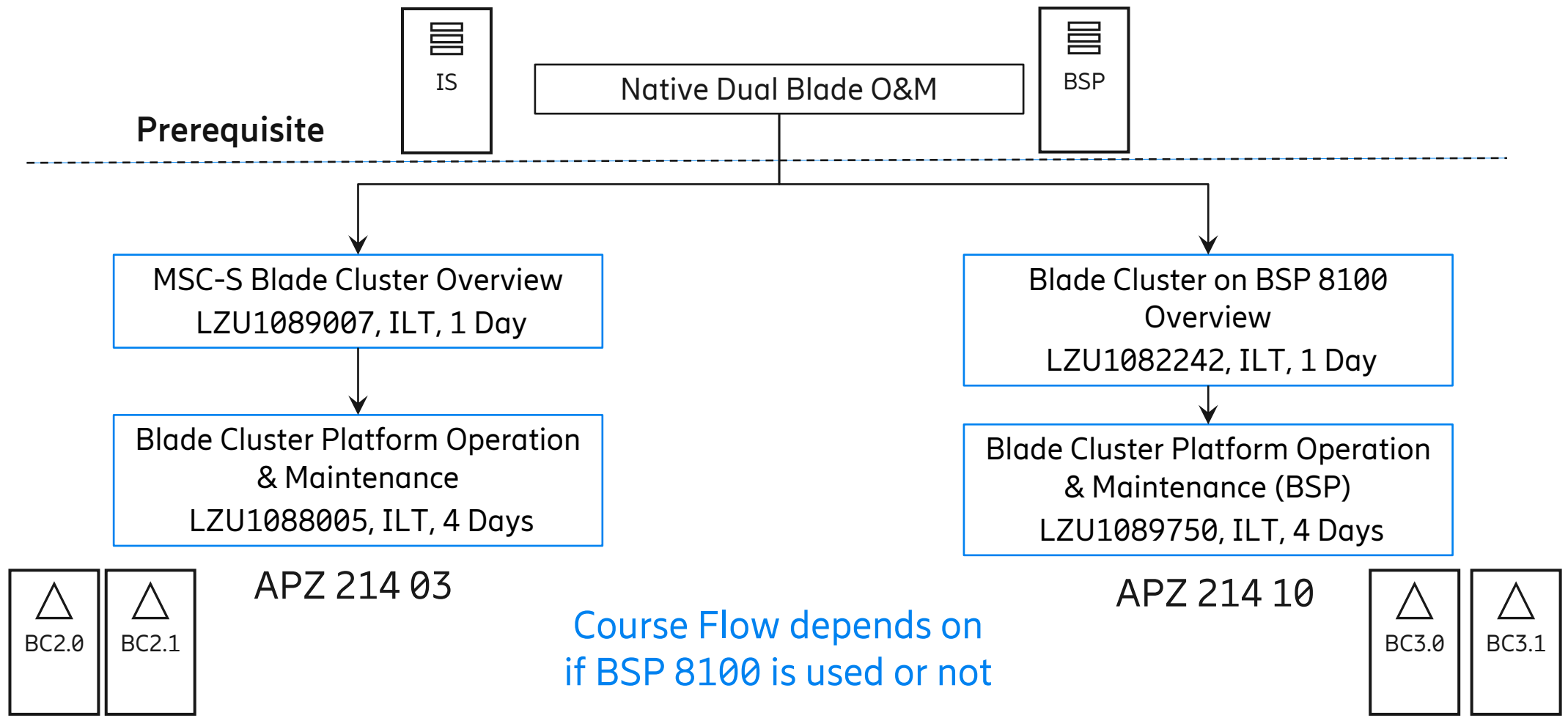
02d. Native dual blade O&M



02e. Virtual dual blade O&M



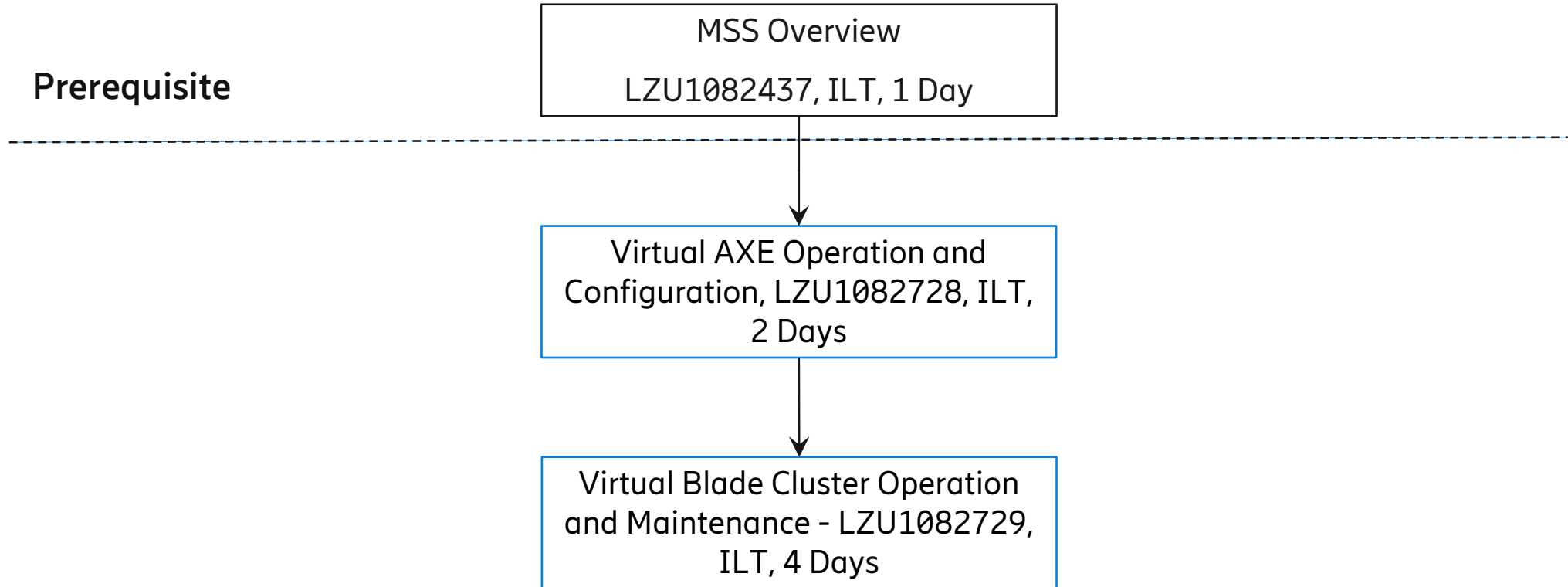
03a. High capacity - native blade cluster



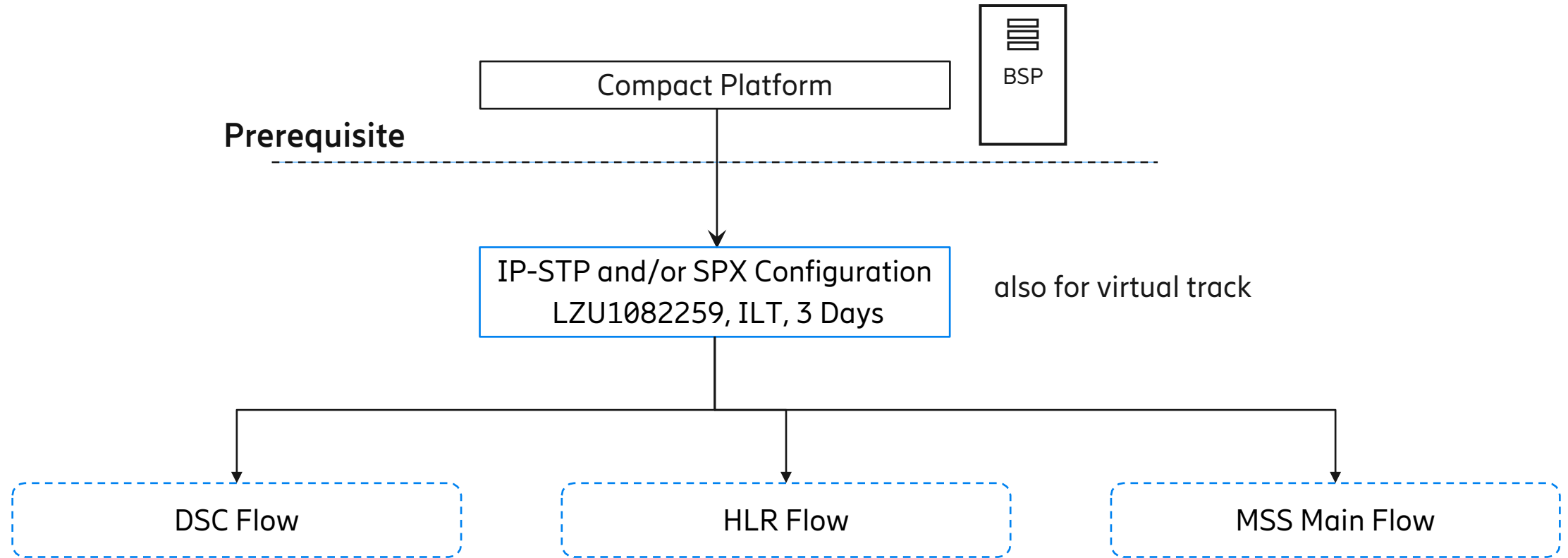
Course Flow depends on if BSP 8100 is used or not

*training is needed if APZ 214 xx is used

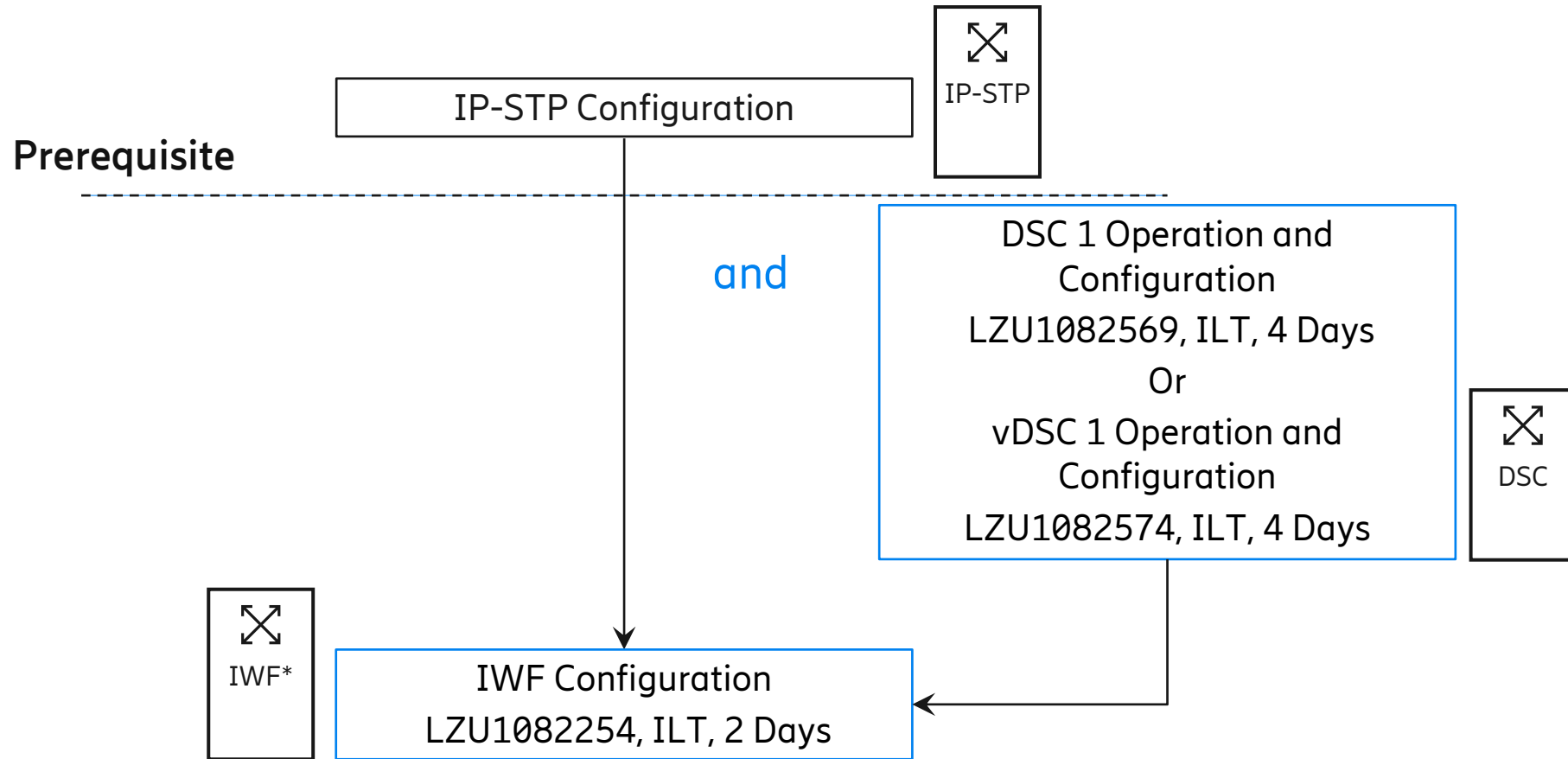
03b. High capacity - virtual blade cluster



04a. IP-STP and/or SPX configuration

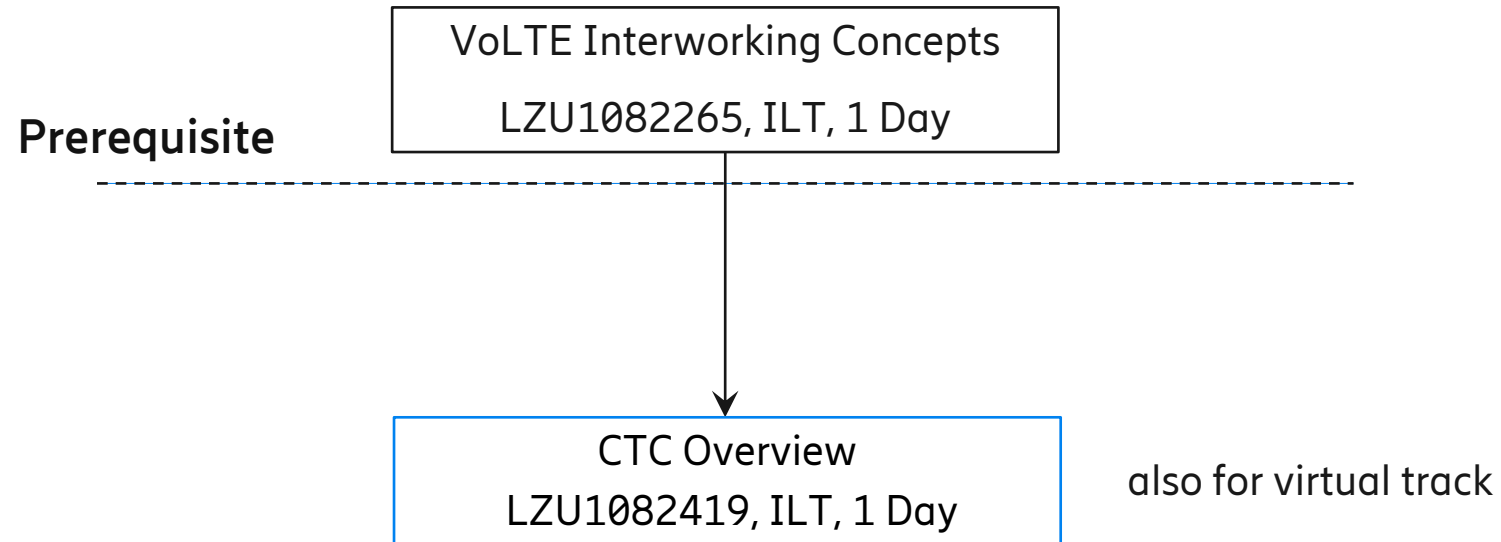


04b. Diameter interworking

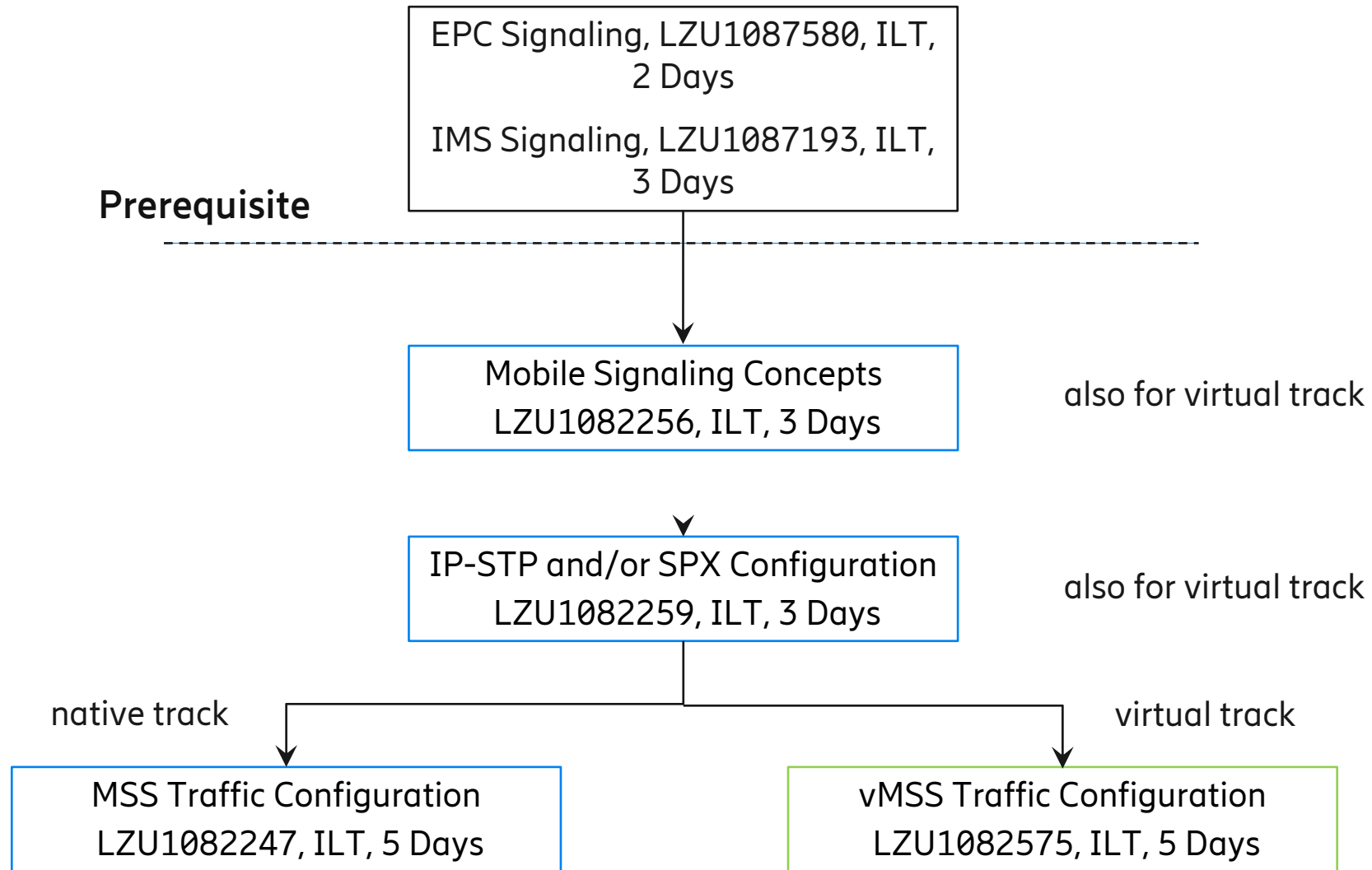


* The IWF converts MAP to Diameter, and vice versa and is mandatory for VoLTE Roaming Interworking

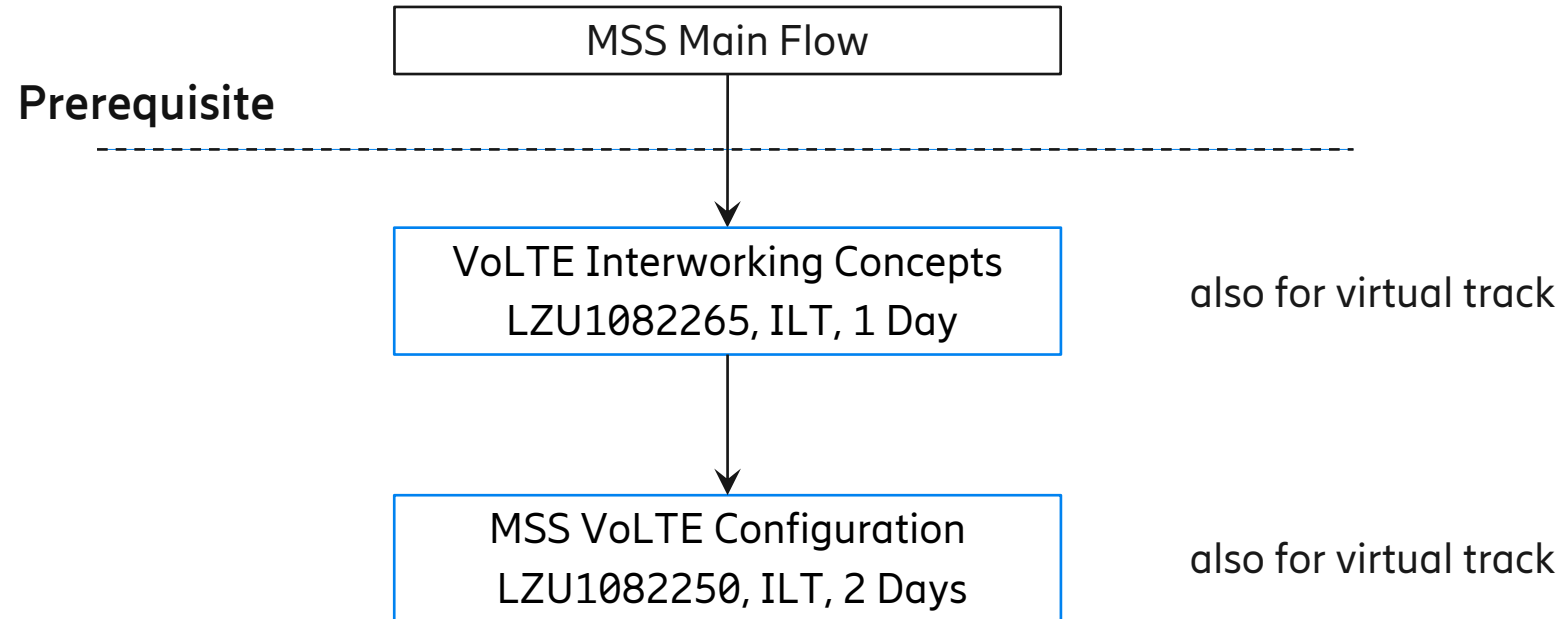
05a. CTC Overview



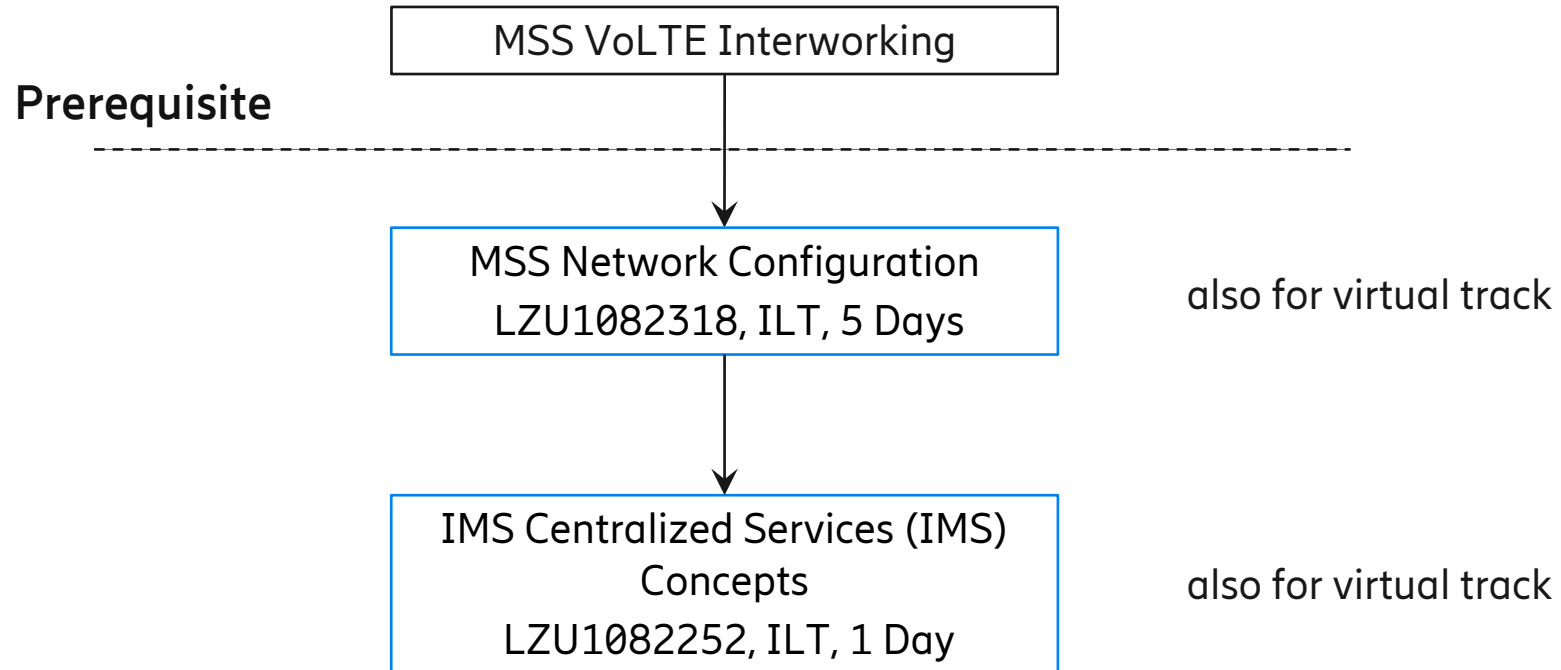
05b. MSS Main Flow



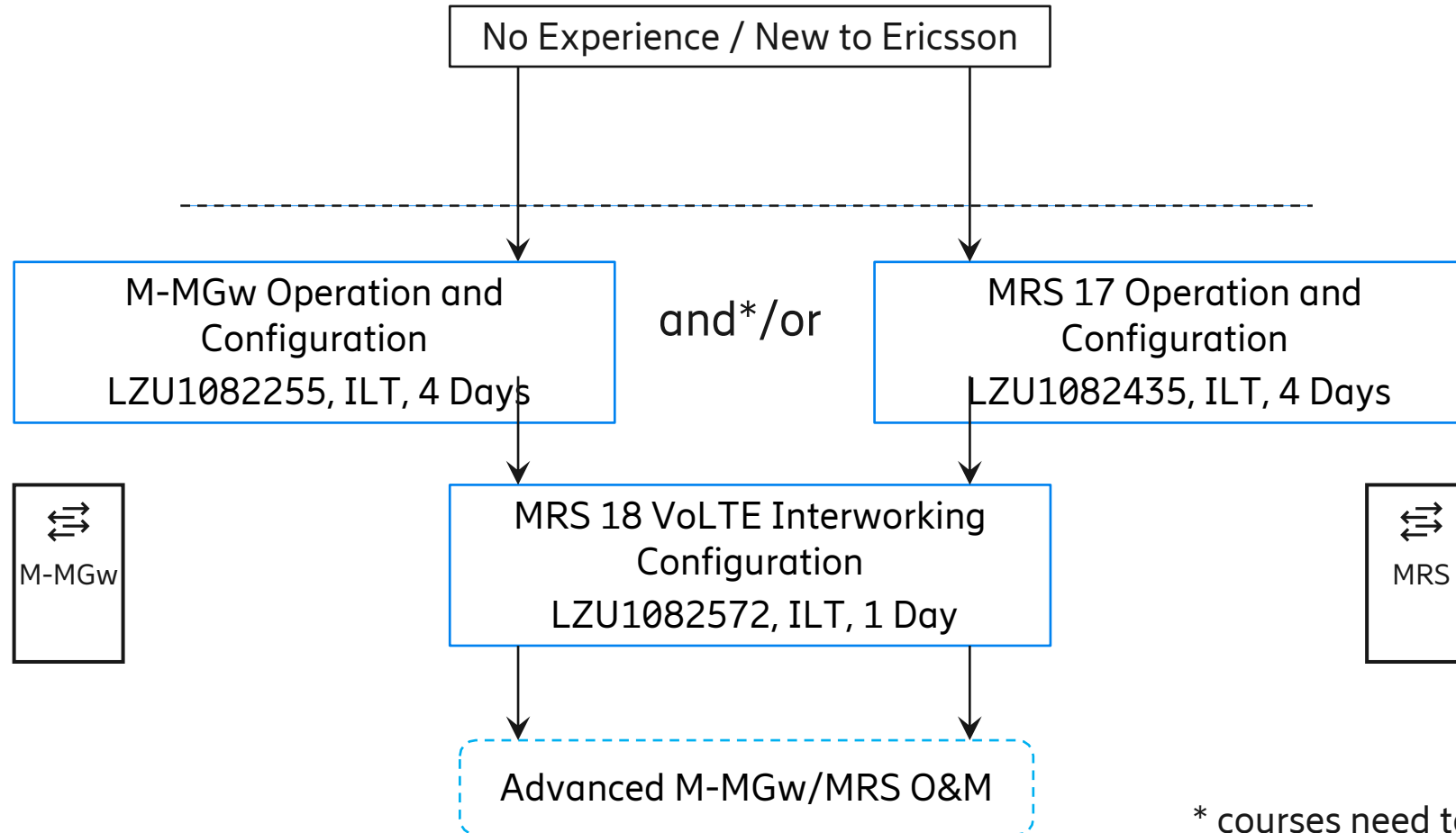
05c. Main VoLTE Interworking



05d. Main Service Interworking

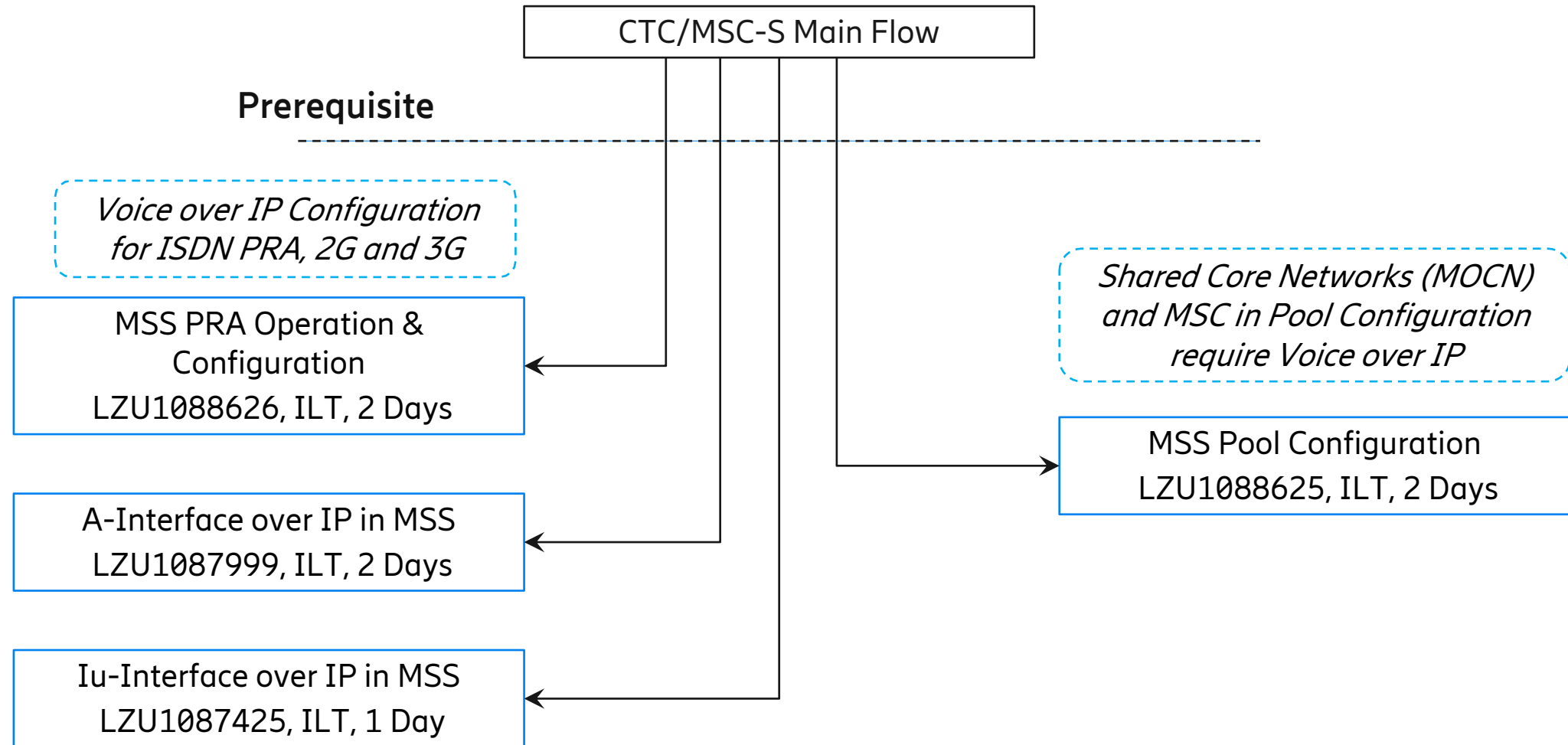


06. M-MGw/MRS – Main Media Flow

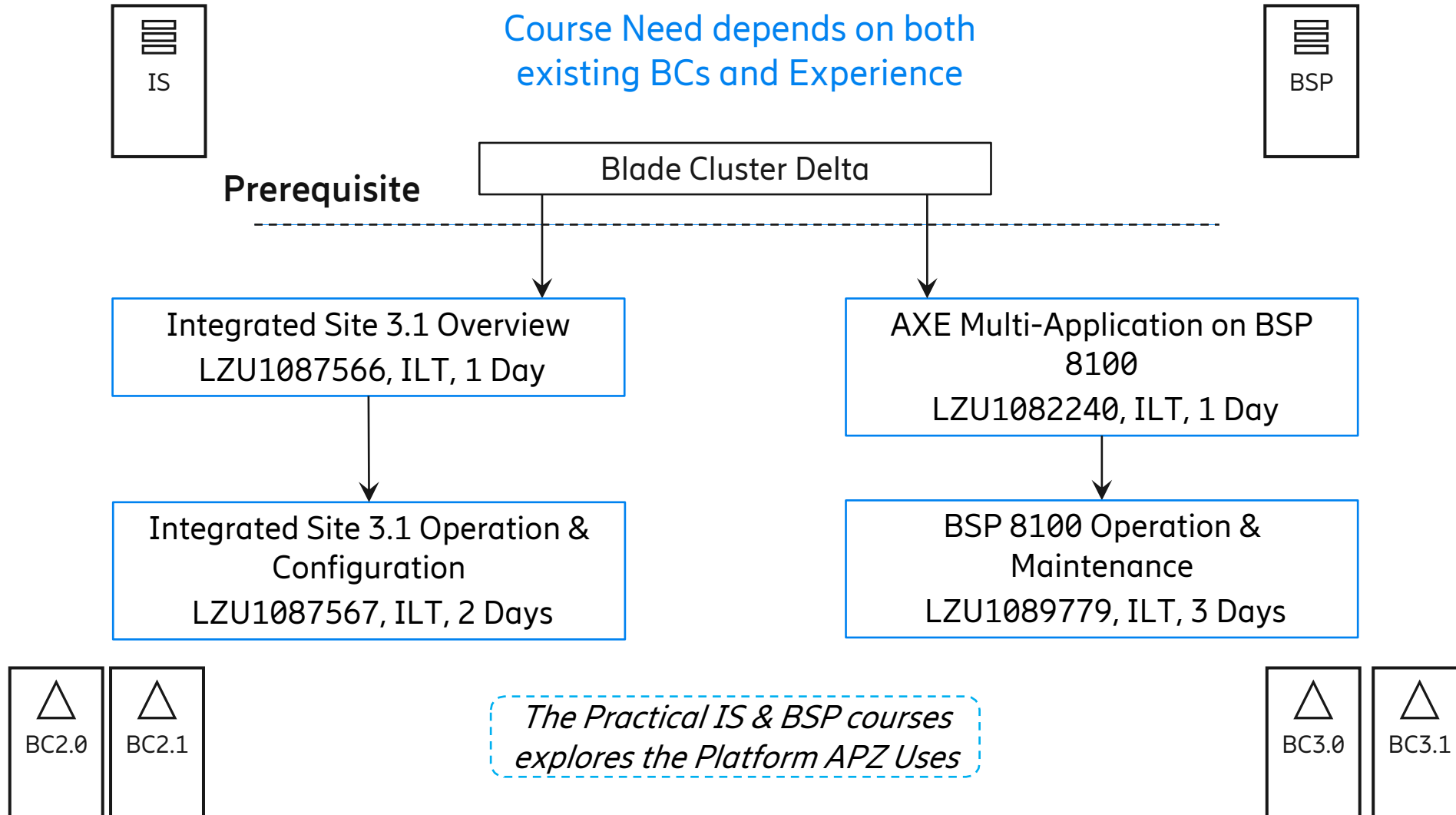


* courses need to be customized if same student need "and"

07. Access Specific Courses



08a. Advanced IS & BSP O&M



08b. Advanced APG O&M



Course Need depends on both existing APGs and Experience

Prerequisite

Generic AXE Fundamentals

APG 40 Recovery Procedures
LZU1086726, ILT, 3 Days

APG 43 Recovery Procedures
LZU1087179, ILT, 3 Days

APG 43L Recovery Procedures
LZU1089485, ILT, 2 Days

Virtualization Concepts in MSS
LZU1082453, ILT, 1 Day

APG 43L Native to Virtual Delta
LZU1082725, WBL, 2 hrs

vAPG 43L Recovery Procedures
LZU1082727, ILT, 1 Day

APG 43 with Windows is replaced with Linux

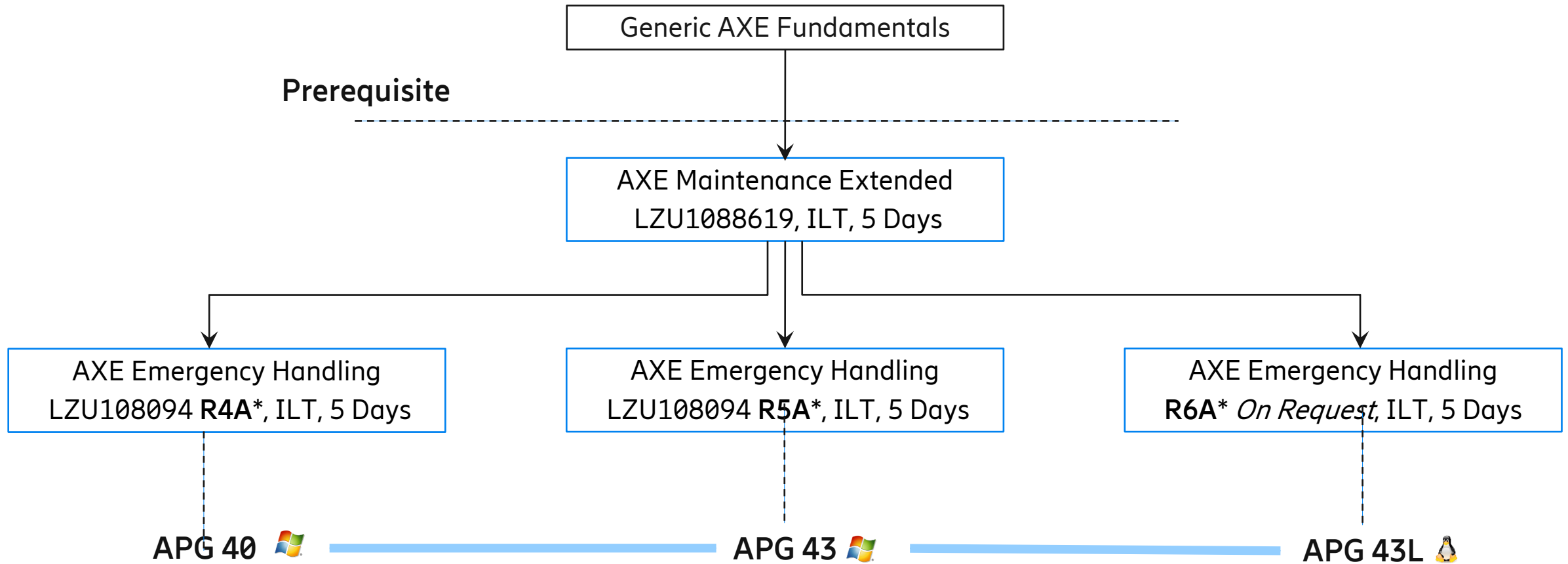
APG 40

APG 43

APG 43L

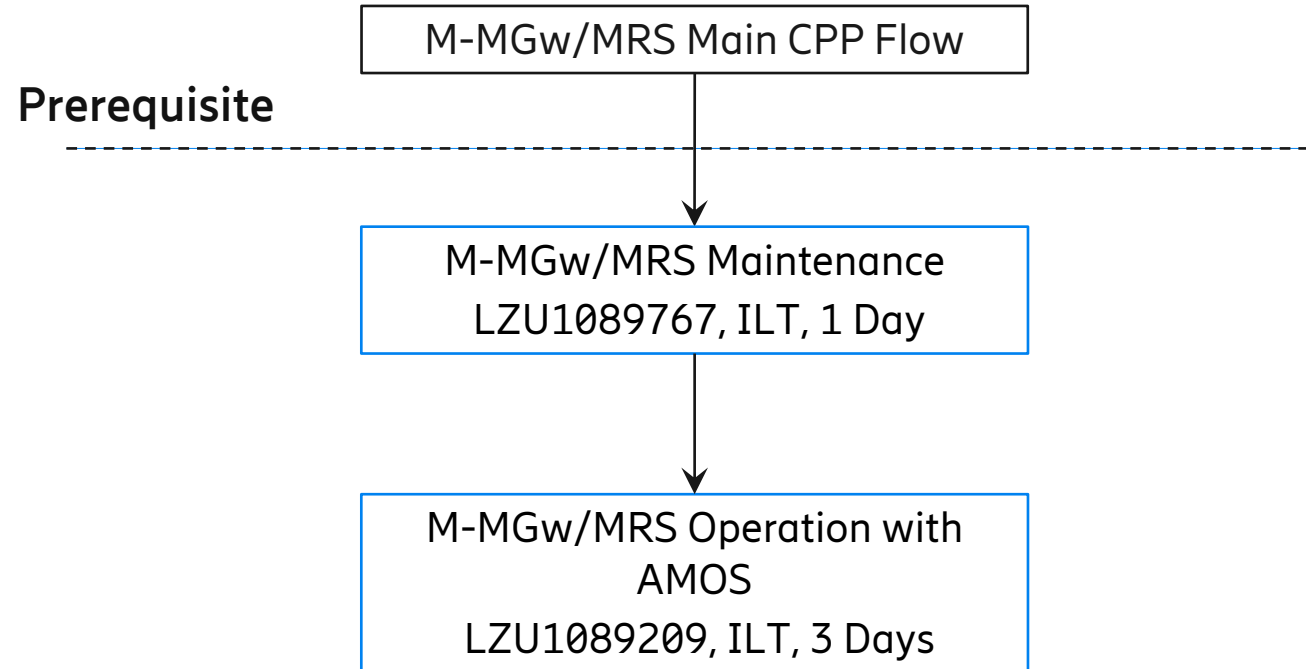
vAPG 43L

08c. Advanced AXE O&M

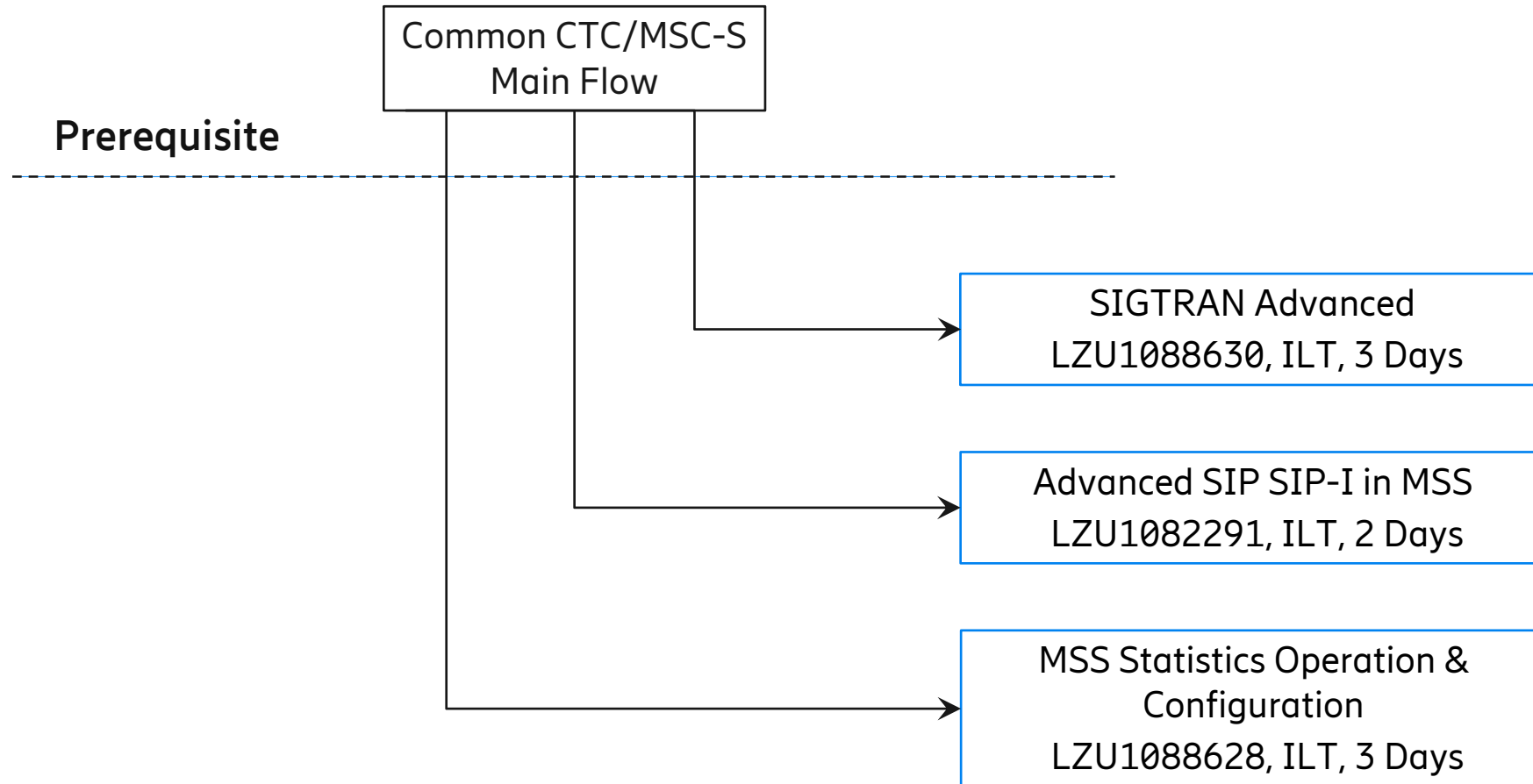


* course Rev (4,5,6) depends on APGs

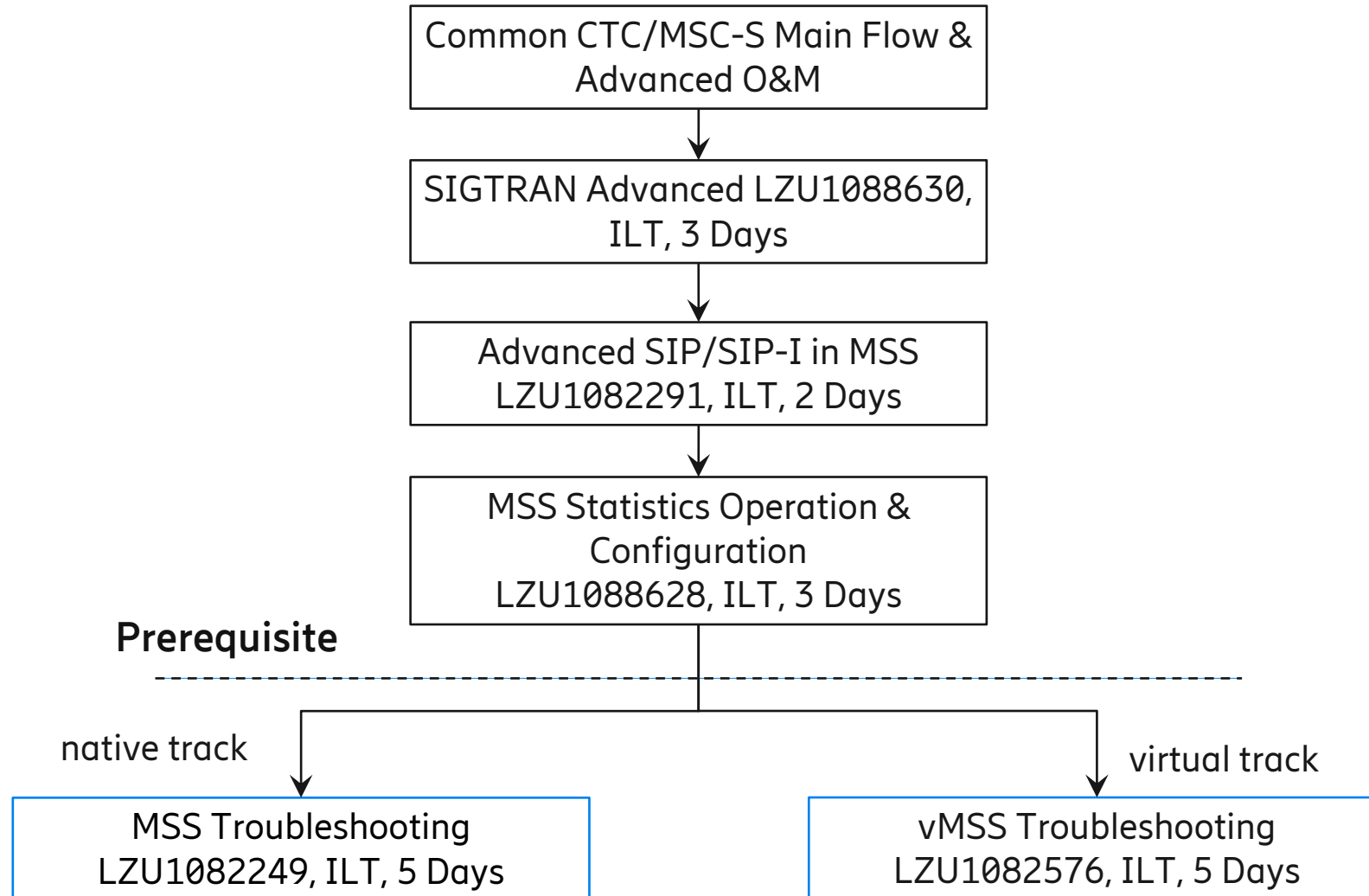
08d. Advanced M-MGw/MRS O&M



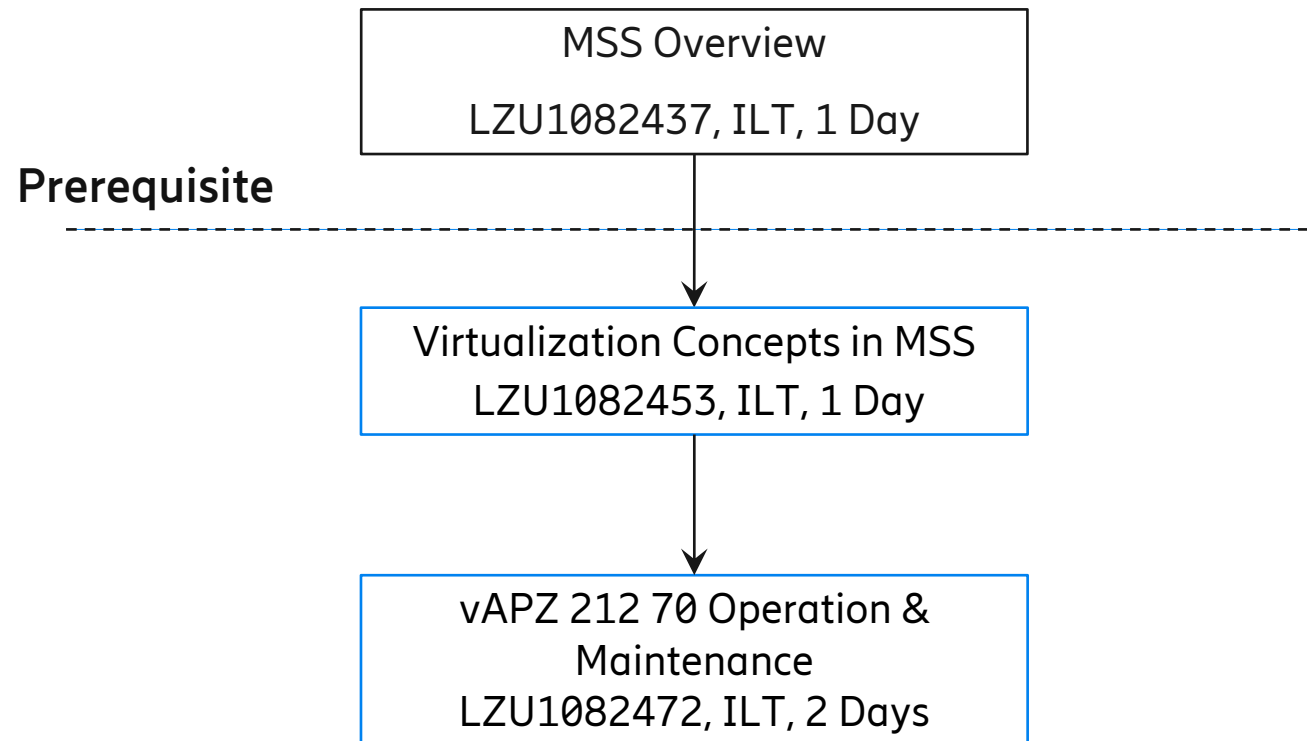
08e. Advanced Signaling Statistics



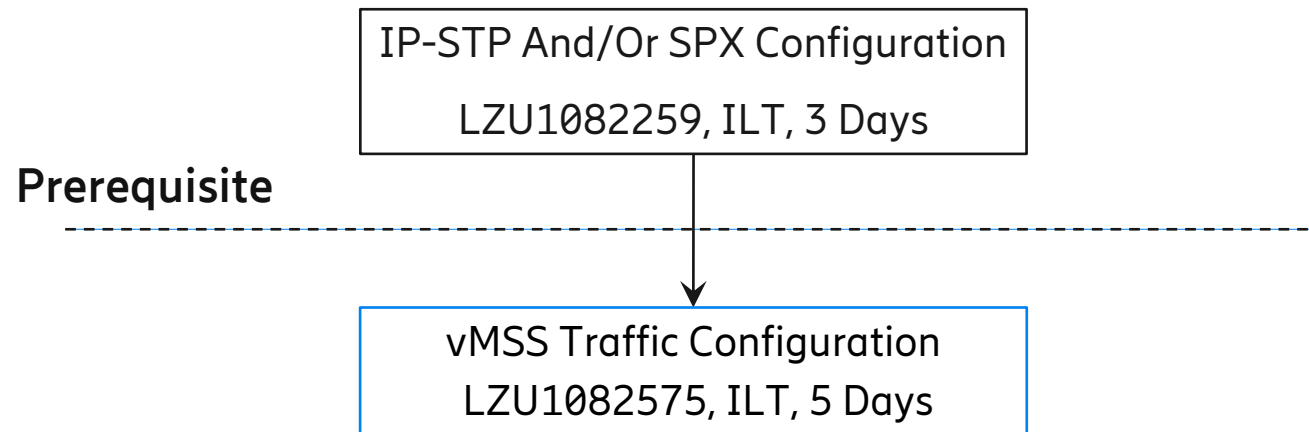
08f. End-2-End Troubleshooting



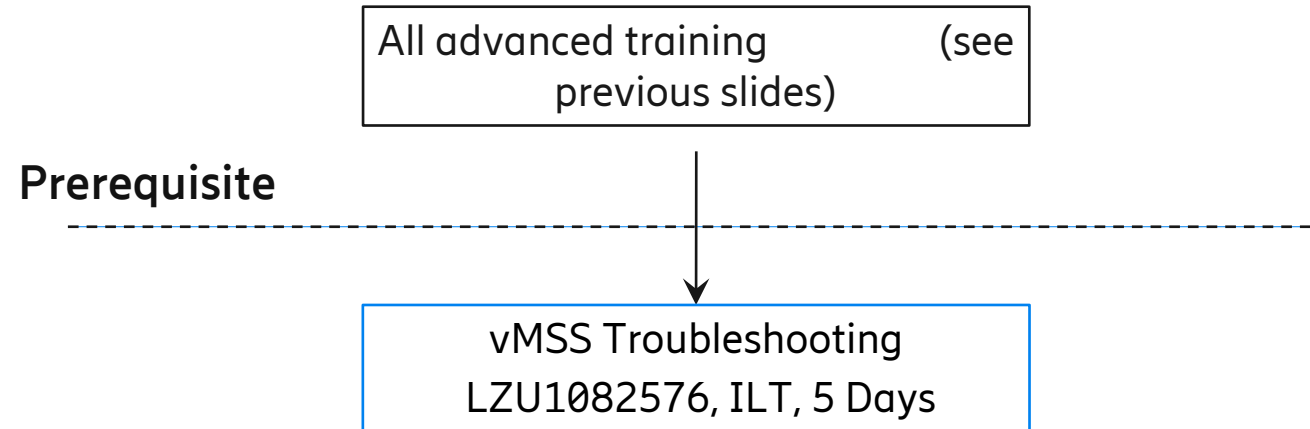
09a. vMSS Introduction



09b. vMSS Traffic Configuration



09c. vMSS Troubleshooting



10a. Native IP-STP



Step 1: Platform

Compact Platform

MSS Overview

1 day, LZU 108 2437

AXE on BSP 8100 O&C

4 days, LZU 108 2241

AXE MA on BSP 8100

1 day, LZU 108 2240

BSP 8100 O&M

3 days, LZU 108 9779

APG 43L Oper. & Maint.

4 days, LZU 108 9484

APZ 212 60F Oper. & Maint.

2 days, LZU 108 9746

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts

3 days, LZU 108 2256

IP-STP Configuration

3 days, LZU 108 2259

Step 3: Service

Roaming Interworking

IWF Configuration

2 days, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures

2 days, LZU 108 9485

AXE Maintenance Extended

5 days, LZU 108 8619

AXE Emergency Handling

5 days, LZU 108 094

Troubleshooting

SIGTRAN Advanced

3 days, LZU 108 8630

MSS Statistics O&C

3 days, LZU 108 8628

MSS Troubleshooting

5 days, LZU 108 2249

APG 43L Recovery Procedures

2 days, LZU 108 9485

10b. Native CTC Courses



Step 1: Platform

Compact Platform

MSS Overview

1 day, LZU 108 2437

AXE on BSP 8100 O&C

4 days, LZU 108 2241

AXE MA on BSP 8100

1 day, LZU 108 2240

BSP 8100 O&M

3 days, LZU 108 9779

APG 43L Oper. & Maint.

4 days, LZU 108 9484

APZ 212 60F Oper. & Maint.

2 days, LZU 108 9746

High Capacity – *Optional*

BC on BSP 8100 Overview

1 day, LZU 108 2242

BC Platform O&M (BSP)

4 days, LZU 108 9750

Media Platform

M-MGW Oper. & Config.

4 days, LZU 108 2255

MRS 17 Operation & Config.

4 days, LZU 108 2435

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts

3 days, LZU 108 2256

IP-STP Configuration

3 days, LZU 108 2259

MSS Traffic Config.

5 days, LZU 108 2247

VoLTE I/W Concepts

1 day, LZU 108 2265

MSS VoLTE Config.

2 days, LZU 108 2250

Step 3: Service

VoLTE Service Domain

MSS Network Config.

5 days, LZU 108 2318

ICS Concepts

1 day, LZU 108 2252

ICS Configuration

2 Days, On request

Media Interworking

MRS 18 VoLTE Interw. Config.

1 day, LZU 108 2572

Roaming Interworking

IWF Configuration

2 days, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures

2 days, LZU 108 9485

AXE Maintenance Extended

5 days, LZU 108 8619

AXE Emergency Handling

5 days, LZU 108 094

Media Platform

M-MGW/MRS Maintenance

1 day, LZU 108 9767

M-MGW / MRS Oper with AMOS

3 days, LZU 108 9209

Troubleshooting

SIGTRAN Advanced

3 days, LZU 108 8630

AdvancedSIP/SIP-I in MSS

2 days, LZU 108 2291

MSS Statistics O&C

3 days, LZU 108 8628

MSS Troubleshooting

5 days, LZU 108 2249

APG 43L Recovery Procedures

2 days, LZU 108 9485

10c. Native MSC-S Courses



Step 1: Platform

Compact Platform

MSS Overview
1 day, LZU 108 2437

AXE on BSP 8100 O&C
4 days*, LZU 108 2241

AXE MA on BSP 8100
1 day, LZU 108 2240

BSP 8100 O&M
3 days, LZU 108 9779

APG 43L Oper. & Maint.
4 days, LZU 108 9484

APZ 212 60F Oper. & Maint.
2 days, LZU 108 9746

High Capacity – *Optional*

BC on BSP 8100 Overview
1 day, LZU 108 2242

BC Platform O&M (BSP)
4 days, LZU 108 9750

Media Platform

M-MGW Oper. & Config.
4 days, LZU 108 2255

MRS 17 Operation & Config.
4 days, LZU 108 2435

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts
3 days, LZU 108 2256

IP-STP Configuration
3 days, LZU 108 2259

MSS Traffic Config.
5 days, LZU 108 2247

VoLTE I/W Concepts
1 day, LZU 108 2265

MSS VoLTE Config.
2 days, LZU 108 2250

MSC-S Access

MSS PRA Oper. & Config
2 days, LZU 108 8626

A-Interface over IP in MSS
2 days, LZU 108 7999

IU-Interface over IP in MSS
1 day, LZU 108 7425

MSS Pool Configuration
2 days, LZU 108 8625

Step 3: Service

VoLTE Service Domain

MSS Network Config.
5 days, LZU 108 2318

ICS Concepts
1 day, LZU 108 2252

ICS Configuration
2 Days, On request

Media Interworking

MRS 18 VoLTE Interw. Config.
1 day, LZU 108 2572

Roaming Interworking

IWF Configuration
2 days, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures
2 days, LZU 108 9485

AXE Maintenance Extended
5 days, LZU 108 8619

AXE Emergency Handling
5 days, LZU 108 094

Media Platform

M-MGW/MRS Maintenance
1 day, LZU 108 9767

M-MGW / MRS Oper with AMOS
3 days, LZU 108 9209

Troubleshooting

SIGTRAN Advanced
3 days, LZU 108 8630

AdvancedSIP/SIP-I in MSS
2 days, LZU 108 2291

MSS Statistics O&C
3 days, LZU 108 8628

MSS Troubleshooting
5 days, LZU 108 2249

APG 43L Recovery Procedures
2 days, LZU 108 9485

10d. Virtual IP-STP Courses



Step 1: Platform

Compact Platform

MSS Overview

1 day, LZU 108 2437

Virtualization Concepts in MSS

1 day, LZU 108 2453

Virtual AXE Operation and Configuration,

2 Days, LZU1082728

APG 43L Native to Virtual Delta

LZU1082725, WBL, 2 hrs

vAPG 43L Oper. & Maint.

3 days, LZU 108 2726

vAPZ 212 70 Oper. & Maint.

2 days, LZU 108 2472

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts

3 days, LZU 108 2256

IP-STP Configuration

3 days, LZU 108 2259

Step 3: Service

Roaming Interworking

IWF Configuration

2 days, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures

2 days, LZU 108 9485

AXE Maintenance Extended

5 days, LZU 108 8619

AXE Emergency Handling

5 days, LZU 108 094

Troubleshooting

SIGTRAN Advanced

3 days, LZU 108 8630

MSS Statistics O&C

3 days, LZU 108 8628

vMSS Troubleshooting

5 days, LZU 108 2576

vAPG 43L Recovery Procedures

1 day, LZU 108 2727

10e. Virtual CTC Courses



Step 1: Platform

Compact Platform

MSS Overview
1 day, LZU 108 2437

Virtualization Concepts in MSS
1 day, LZU 108 2453

Virtual AXE Operation and Configuration,
2 Days, LZU1082728

APG 43L Native to Virtual Delta
LZU1082725, WBL, 2 hrs

vAPG 43L Oper. & Maint.
3 days, LZU 108 2726

vAPZ 212 70 Oper. & Maint.
2 days, LZU 108 2472

High Capacity

Virtual Blade Cluster Operation and Maintenance,
4 Days, LZU1082729

Media Platform

M-MGW Oper. & Config.
4 days, LZU 108 2255

MRS 17 Operation & Config.
4 days, LZU 108 2435

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts
3 days, LZU 108 2256

IP-STP Configuration
3 days, LZU 108 2259

vMSS Traffic Config.
5 days, LZU 108 2575

VoLTE I/W Concepts
1 day, LZU 108 2265

MSS VoLTE Config.
2 days, LZU 108 2250

Step 3: Service

VoLTE Service Domain

MSS Network Config.
5 days, LZU 108 2318

ICS Concepts
1 day, LZU 108 2252

ICS Configuration
2 Days, On request

Media Interworking

MRS 18 VoLTE Interw. Config.
1 day, LZU 108 2572

Roaming Interworking

IWF Configuration
2 days, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures
2 days, LZU 108 9485

AXE Maintenance Extended
5 days, LZU 108 8619

AXE Emergency Handling
5 days, LZU 108 094

Media Platform

M-MGW/MRS Maintenance
1 day, LZU 108 9767

M-MGW / MRS Oper with AMOS
3 days, LZU 108 9209

Troubleshooting

SIGTRAN Advanced
3 days, LZU 108 8630

AdvancedSIP/SIP-I in MSS
2 days, LZU 108 2291

MSS Statistics O&C
3 days, LZU 108 8628

vMSS Troubleshooting
5 days, LZU 108 2576

vAPG 43L Recovery Procedures
1 day, LZU 108 2727

10f. Virtual MSC-S Courses



Step 1: Platform

Compact Platform

MSS Overview
1 day, LZU 108 2437

Virtualization Concepts in MSS
1 day, LZU 108 2453

Virtual AXE Operation and Configuration,
2 Days, LZU1082728

APG 43L Native to Virtual Delta
LZU1082725, WBL, 2 hrs

vAPG 43L Oper. & Maint.
3 days, LZU 108 2726

vAPZ 212 70 Oper. & Maint.
2 days, LZU 108 2472

High Capacity

Virtual Blade Cluster Operation and Maintenance,
4 Days, LZU1082729

Media Platform

M-MGW Oper. & Config.
4 days, LZU 108 2255

MRS 17 Operation & Config.
4 days, LZU 108 2435

Step 2: Access

VoLTE Access Domain

Mobile Signaling Concepts
3 days, LZU 108 2256

IP-STP Configuration
3 days*, LZU 108 2259

vMSS Traffic Config.
5 days*, LZU 108 2575

VoLTE I/W Concepts
1 day, LZU 108 2265

MSS VoLTE Config.
2 days*, LZU 108 2250

MSC-S Access

MSS PRA Oper. & Config
2 days*, LZU 108 8626

A-Interface over IP in MSS
2 days*, LZU 108 7999

IU-Interface over IP in MSS
1 day*, LZU 108 7425

MSS Pool Configuration
2 days*, LZU 108 8625

Step 3: Service

VoLTE Service Domain

MSS Network Config.
5 days*, LZU 108 2318

ICS Concepts
1 day, LZU 108 2252

ICS Configuration
2 Days*, On request

Media Interworking

MRS 18 VoLTE Interw. Config.
1 day*, LZU 108 2572

Roaming Interworking

IWF Configuration
2 days*, LZU 108 2254

Step 4: Advanced

AXE Platform

APG 43L Recovery procedures
2 days*, LZU 108 9485

AXE Maintenance Extended
5 days*, LZU 108 8619

AXE Emergency Handling
5 days*, LZU 108 094

Media Platform

M-MGW/MRS Maintenance
1 day, LZU 108 9767

M-MGW / MRS Oper with AMOS
3 days, LZU 108 9209

Troubleshooting

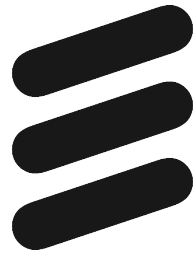
SIGTRAN Advanced
3 days, LZU 108 8630

AdvancedSIP/SIP-I in MSS
2 days, LZU 108 2291

MSS Statistics O&C
3 days, LZU 108 8628

vMSS Troubleshooting
5 days, LZU 108 2576

vAPG 43L Recovery Procedures
1 day, LZU 108 2727



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