

Центр 2G/3G/4G/5G



Configuration Schemes 24.01.2020

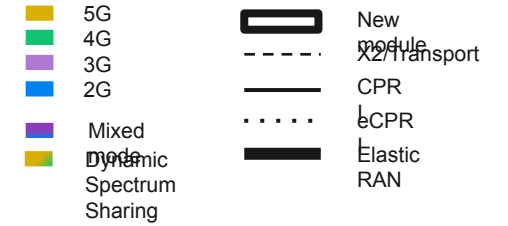
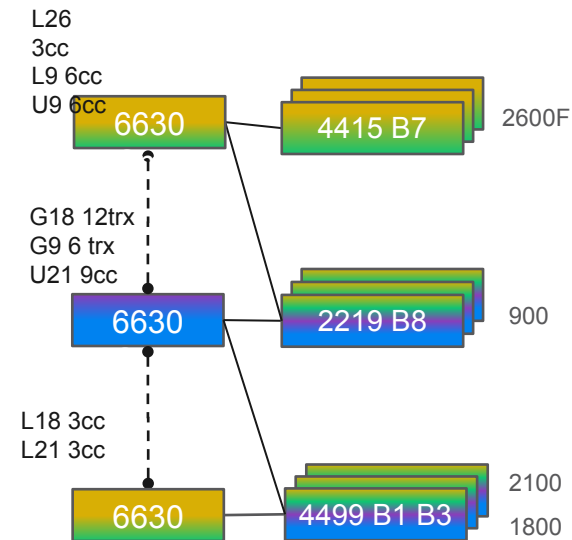
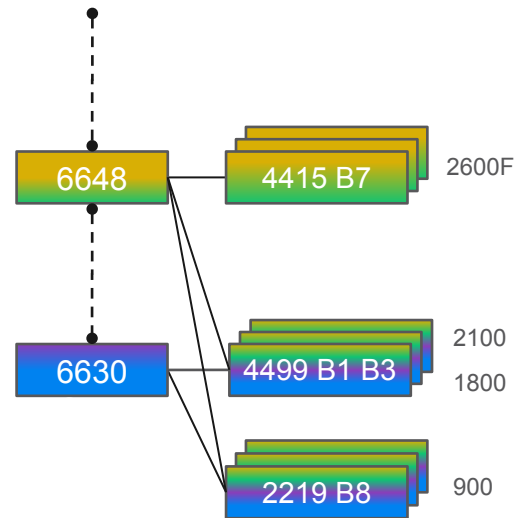
A1.1.2.

2T2R GWL9; 4T4R GL18, WL21, L26F

BB 6648 (1) LTE+NR
LTE 15 CC (600 ABW) + NR 15 CC (600 ABW)
LTE+NR FDD 5Mhz: 33+33
HUP: 2

BB 6630 (2)
WCDMA: 12CC
GSM: 24TRX
HUP: 2

Radio Power 20W HWAC: 81
CPRI links: 15
Transport: 10 Gbit



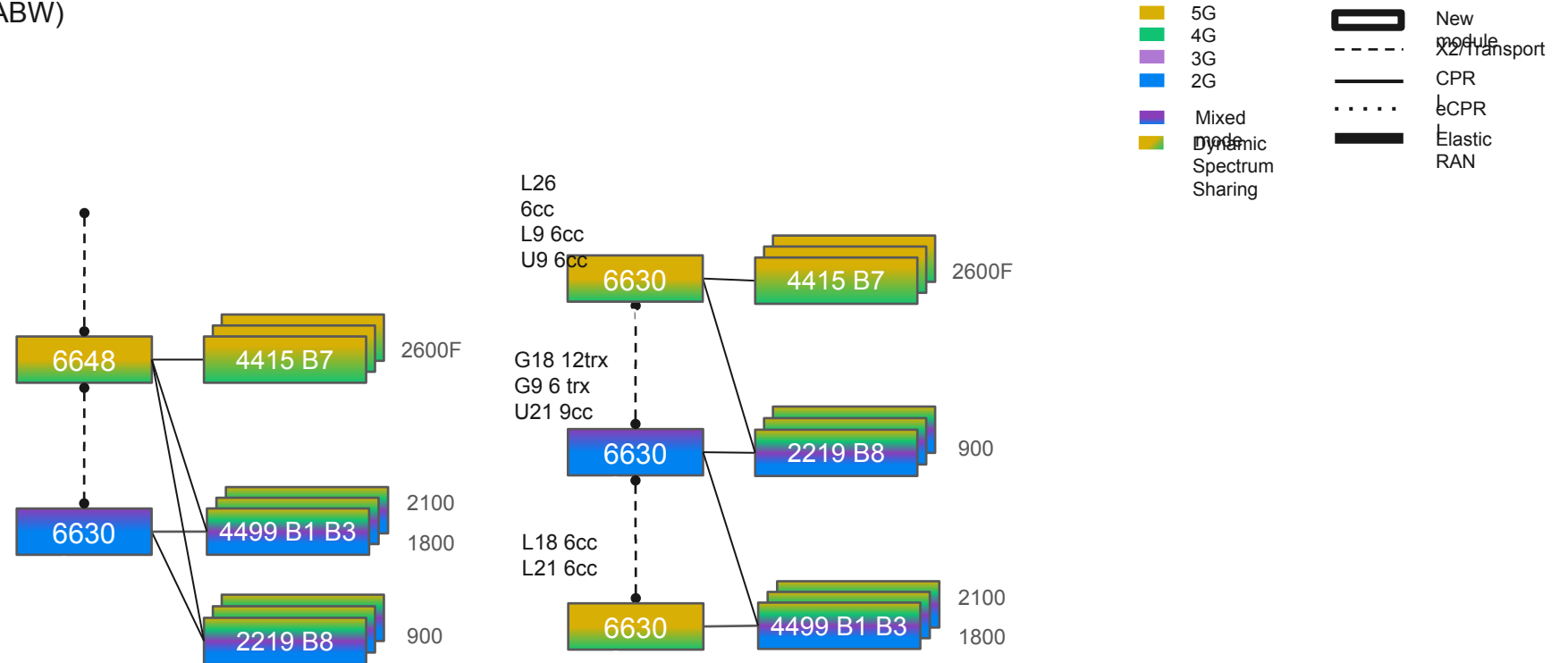
A1.1.2. KTY

2T2R GWL9; 4T4R GL18, WL21, L26F

BB 6648 (1) LTE+NR
LTE 24 CC (1020 ABW) + NR 24 CC (1020 ABW)
LTE+NR FDD 5Mhz: 54+54
MHUP: 1
HUP: 2

BB 6630 (2)
WCDMA: 12CC
GSM: 24TRX
HUP: 2

Radio Power 20W HWAC: 81
CPRI links: 15
Transport: 10 Gbit



A1.1.2. Ivanovo

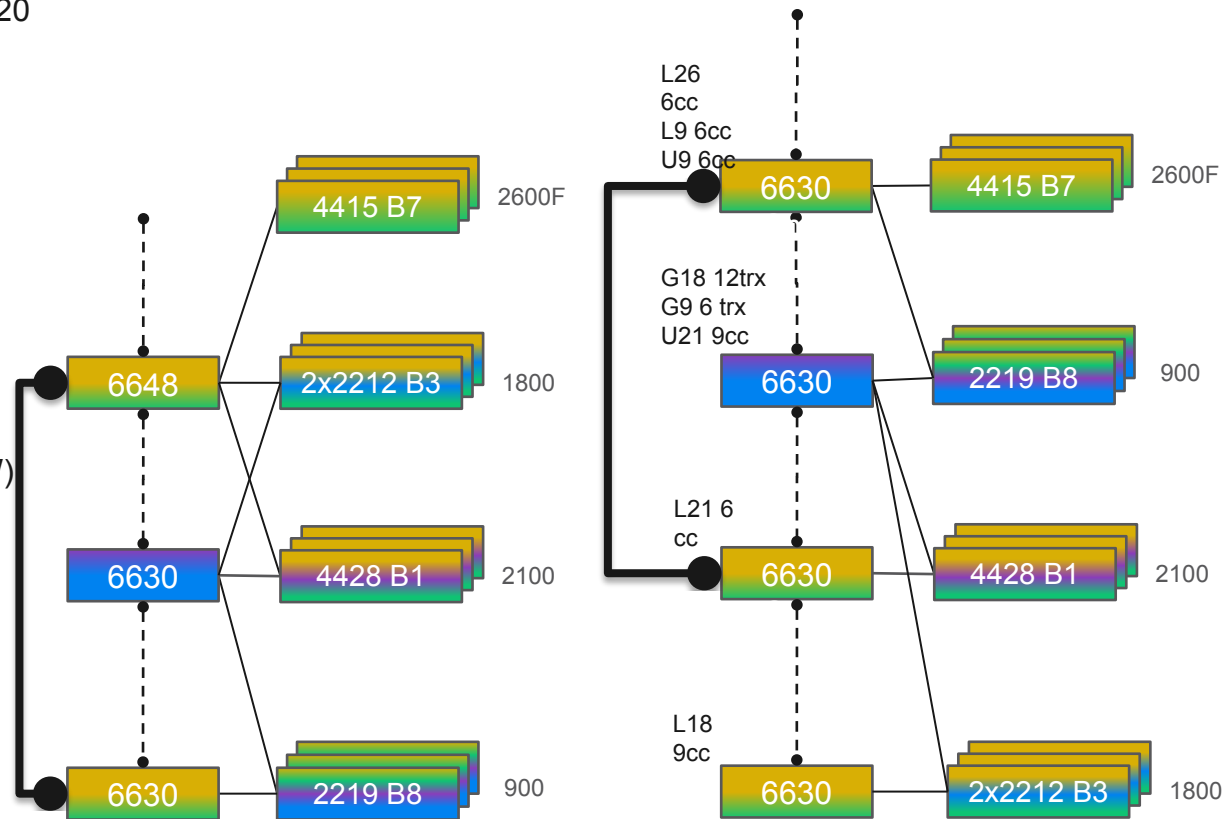
2T2R GWL9; 4T4R GL18, WL21, L26F

BB 6648 (1) LTE+NR
LTE 27 CC (1020 ABW) + NR 27 CC (1020 ABW)
LTE+NR FDD 5Mhz: 51+51
MHUP: 1
HUP: 2

BB 6630 (2)
WCDMA: 12CC
GSM: 24TRX
HUP: 2

BB 6630 (3) LTE+NR
LTE 6 CC (60 ABW) + NR 6 CC (60 ABW)
LTE+NR FDD 5Mhz: 6+6
HUP: 0

Radio Power 20W HWAC: 105
CPRI links: 21
CPRI cascade: 3
Transport: 10 Gbit; Xcede cable



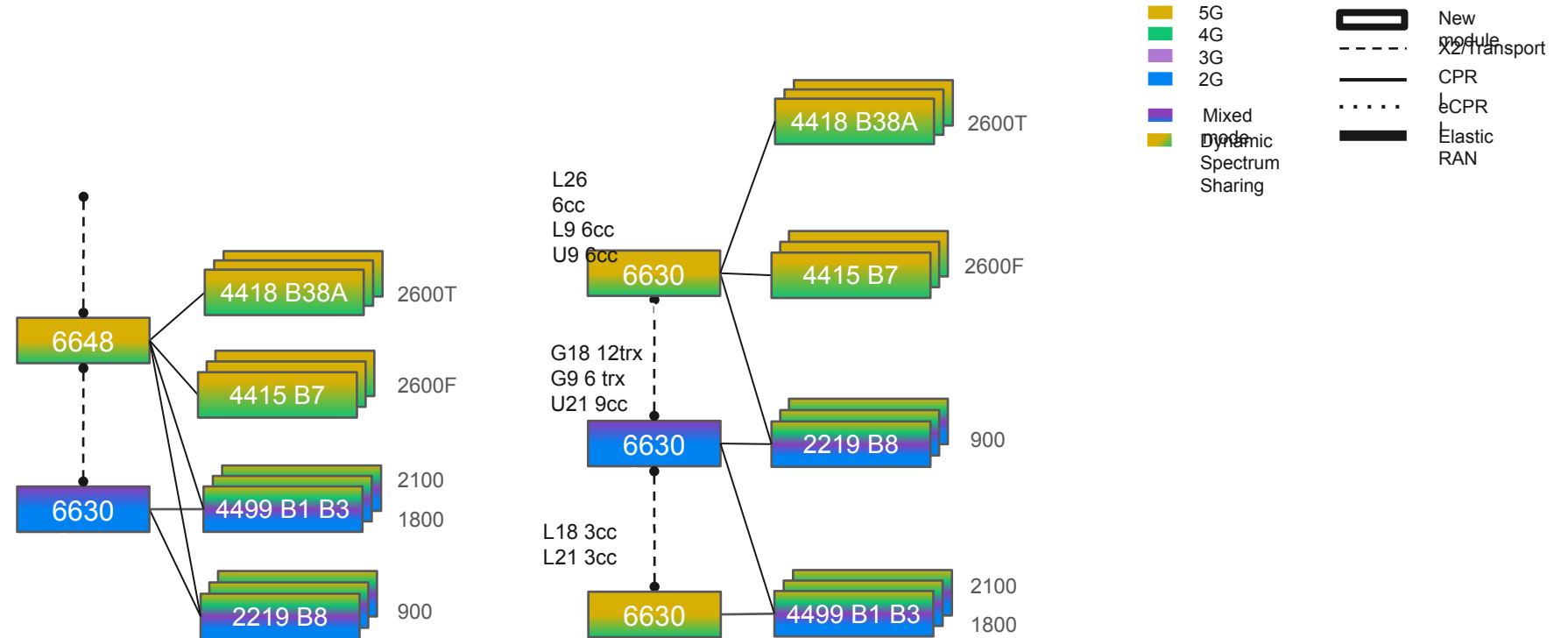
A1.1.2.+A1.3.1.

2T2R GWL9; 4T4R GL18, WL21, L26F, L26T

BB 6648 (1) LTE+NR
LTE 18 CC (840 ABW) + NR 18 CC (840 ABW)
LTE+NR FDD 5Mhz HWAC: 33+33
LTE+NR TDD 5Mhz HWAC: 12+12
MHUP: 1

BB 6630 (2) WCDMA+GSM
WCDMA: 12CC
GSM: 24TRX
HUP: 2

Radio Power 20W HWAC: 99
CPRI links: 18
Transport: 10 Gbit



A1.1.2.+A1.3.1. KTY

2T2R GWL9; 4T4R GL18, WL21, L26F, L26T

BB 6648 (1) LTE+NR

LTE 30 CC (1200 ABW) + NR 30 CC (1200 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

LTE+NR TDD 5Mhz HWAC: 24+24

MHUP: 1

HUP: 4

BB 6630 (2) LTE+NR

LTE 12 CC (300 ABW) + NR 12 CC (300 ABW)

LTE+NR FDD 5Mhz HWAC: 18+18

HUP: 4

BB 6630 (3) WCDMA+GSM

WCDMA: 12CC;

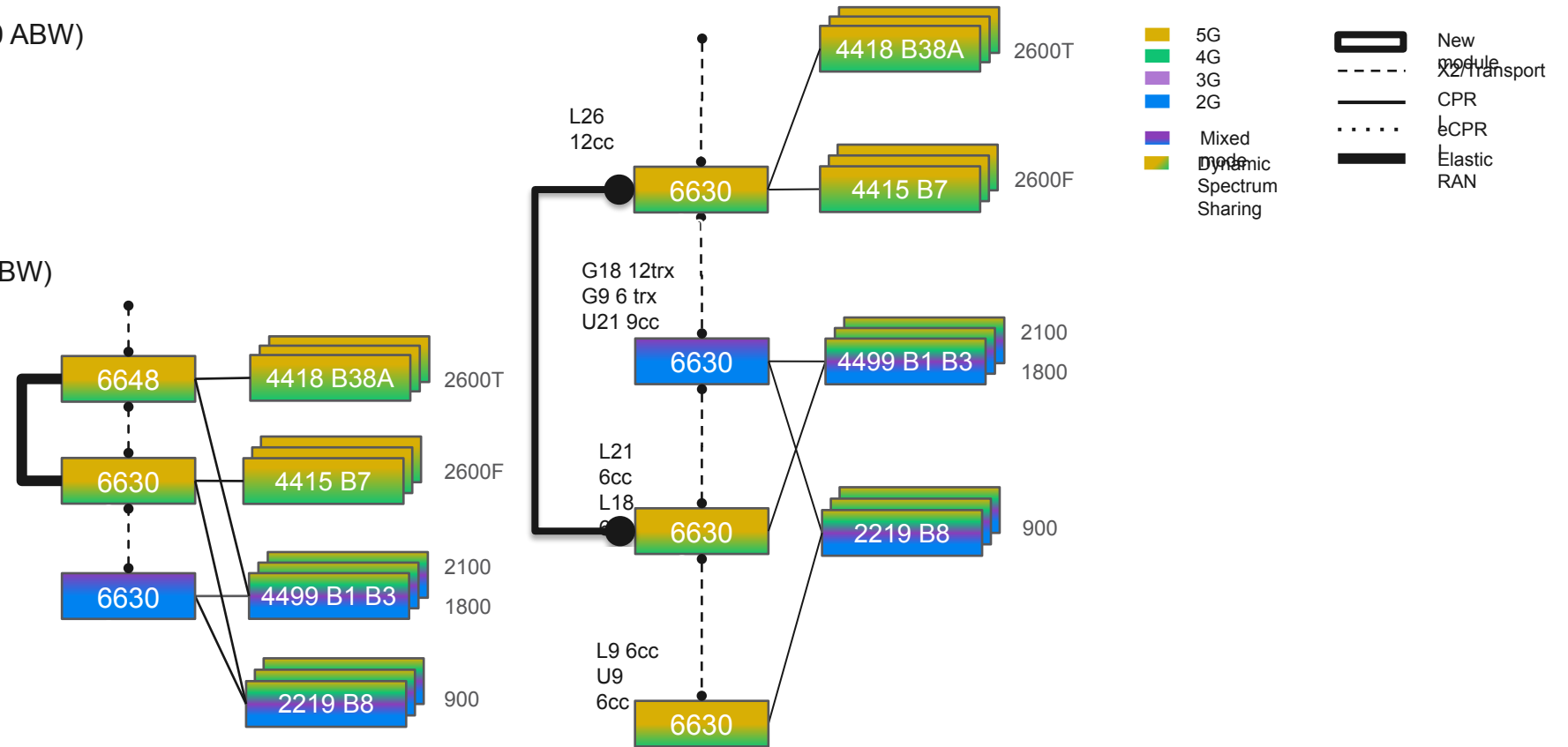
GSM: 24TRX

HUP: 2

Radio Power 20W HWAC: 99

CPRI links: 18

Transport: 10 Gbit; XCede cable



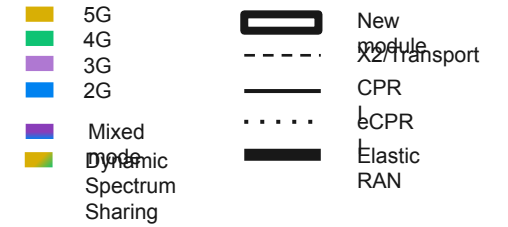
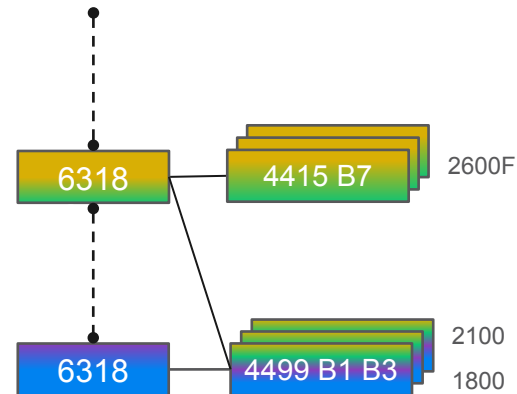
A1.2.1.

4T4R GL18, WL21, L26F

BB 6318 (1) LTE+NR
LTE 9 CC (540 ABW) + NR 9 CC (540 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
MHUP: 1

BB 6318 (2) WCDMA+GSM
WCDMA: 9CC
GSM: 12TRX
HUP: 2

Radio Power 20W HWAC: 66
CPRI links: 9
Transport: 1 Gbit



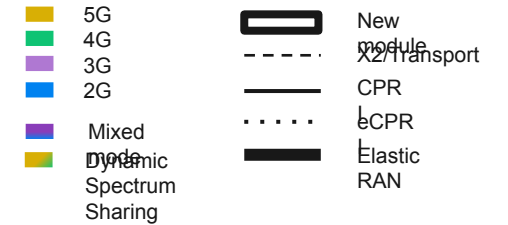
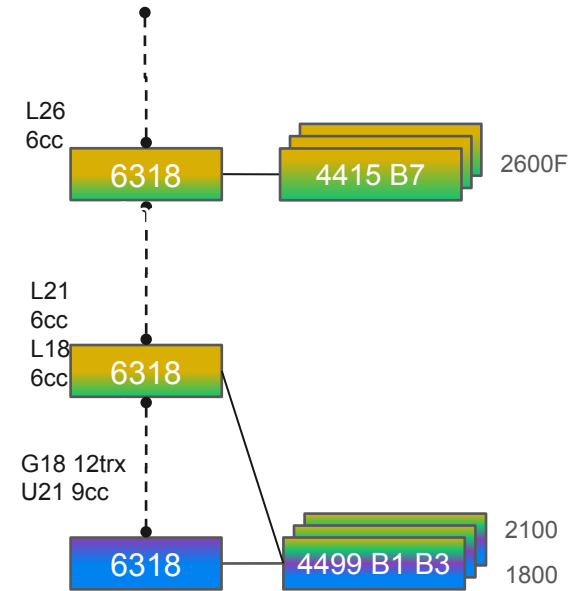
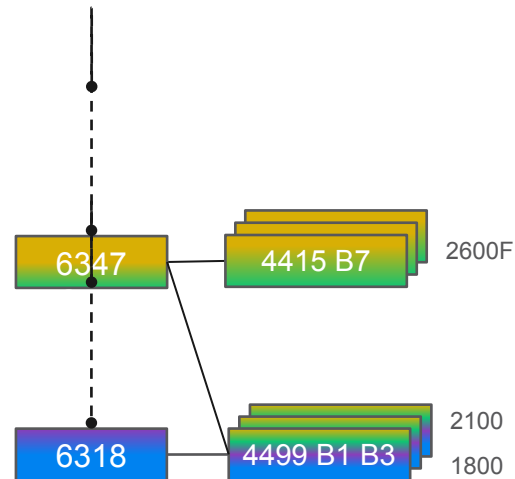
A1.2.1. KTY

4T4R GL18, WL21, L26F

BB 6347 (1) LTE+NR
LTE 18 CC (960 ABW) + NR 18 CC (960 ABW)
LTE+NR FDD 5Mhz HWAC: 48+48
MHUP: 1

BB 6318 (2) WCDMA+GSM
WCDMA: 9CC
GSM: 12TRX
HUP: 2

Radio Power 20W HWAC: 66
CPRI links: 9
Transport: 10 Gbit



A1.2.1. Ivanovo

4T4R GL18, WL21, L26F

BB 6347 (1) LTE+NR

LTE 21 CC (1020 ABW) + NR 21 CC (1020 ABW)

LTE+NR FDD 5Mhz HWAC: 51+51

MHUP: 1

HUP: 2

BB 6318 (2) WCDMA+GSM

WCDMA: 9CC

GSM: 12TRX

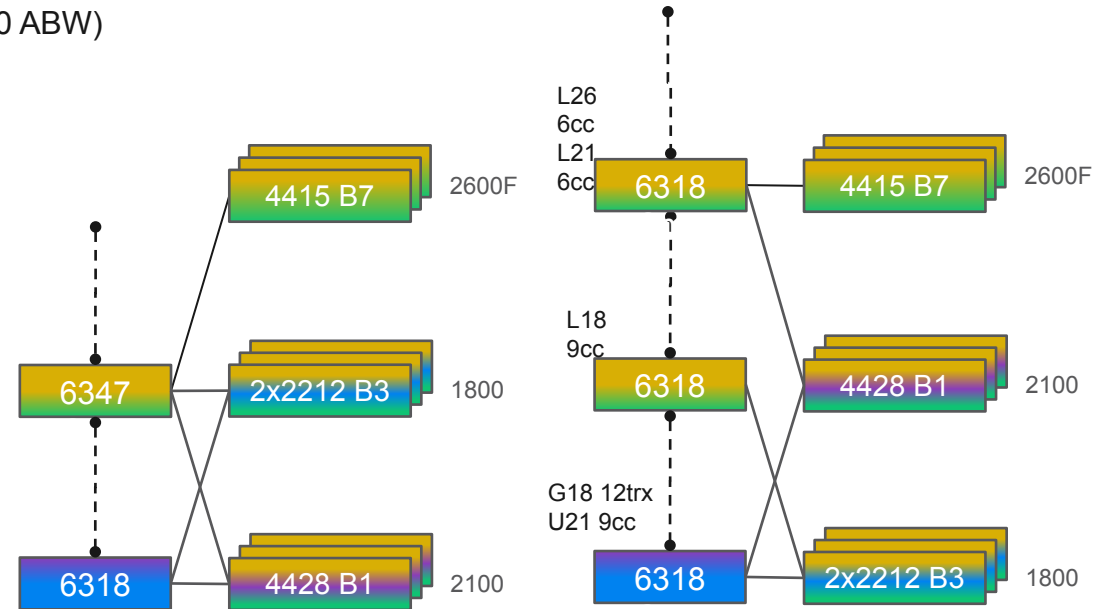
HUP: 2

Radio Power 20W HWAC: 90

CPRI links: 15

CPRI cascade: 3

Transport: 10 Gbit



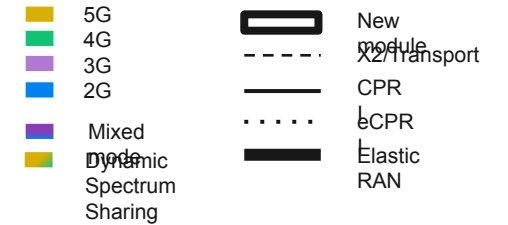
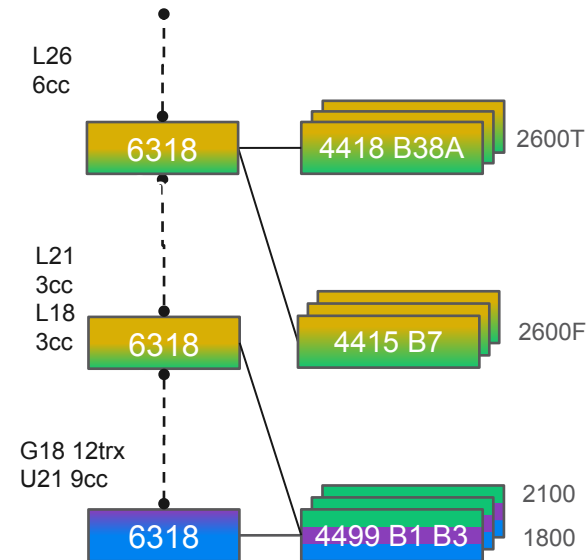
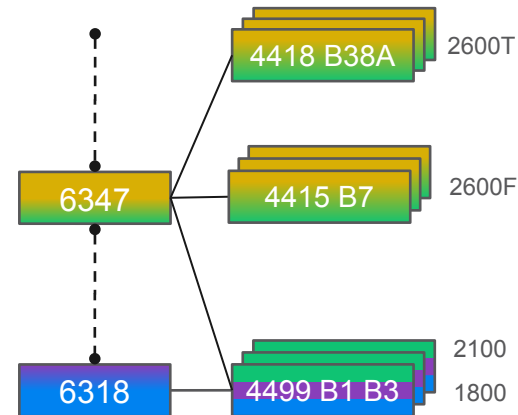
A1.2.2.

4T4R GL18, WL21, L26F; L26T

BB 6347 (1) LTE+NR
LTE 12 CC (780 ABW) + NR 12 CC (780 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
LTE+NR TDD 5Mhz HWAC: 12+12
MHUP: 1

BB 6318 (2) WCDMA+GSM
WCDMA: 9CC
GSM: 12TRX
HUP: 2

Radio Power 20W HWAC: 87
CPRI links: 12
Transport: 10 Gbit



A1.2.2. KTY

4T4R GL18, WL21, L26F; L26T

BB 6347 (1) LTE+NR

LTE 24 CC (1440 ABW) + NR 24 CC (1440 ABW)

LTE+NR FDD 5Mhz HWAC: 48+48

LTE+NR TDD 5Mhz HWAC: 24+24

MHUP: 2

BB 6318 (2) WCDMA+GSM

WCDMA: 9CC

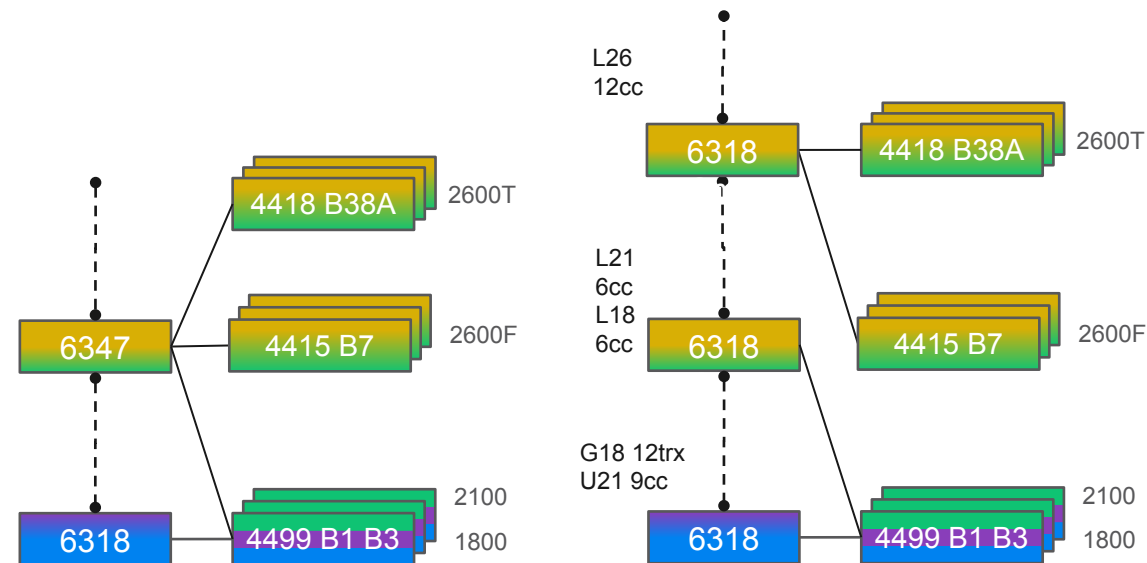
GSM: 12TRX

HUP: 2

Radio Power 20W HWAC: 87

CPRI links: 12

Transport: 10 Gbit



A1.2.2. Ivanovo

4T4R GL18, WL21, L26F, L26T

BB 6347 (1) LTE+NR

LTE 27 CC (1140 ABW) + NR 27 CC (1140 ABW)

LTE+NR FDD 5Mhz HWAC: 33+33

LTE+NR TDD 5Mhz HWAC: 24+24

MHUP: 1

HUP: 3

BB 6630 (2) LTE+NR

LTE 12 CC (360 ABW) + NR 12 CC (360 ABW)

LTE+NR FDD 5Mhz: 18+18

HUP: 5

BB 6318 (3) WCDMA+GSM

WCDMA: 9CC

GSM: 12TRX

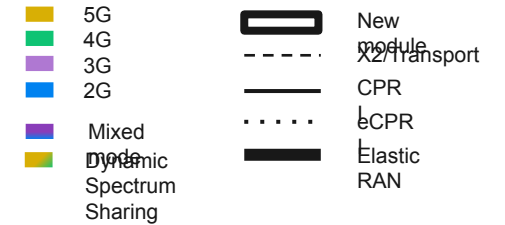
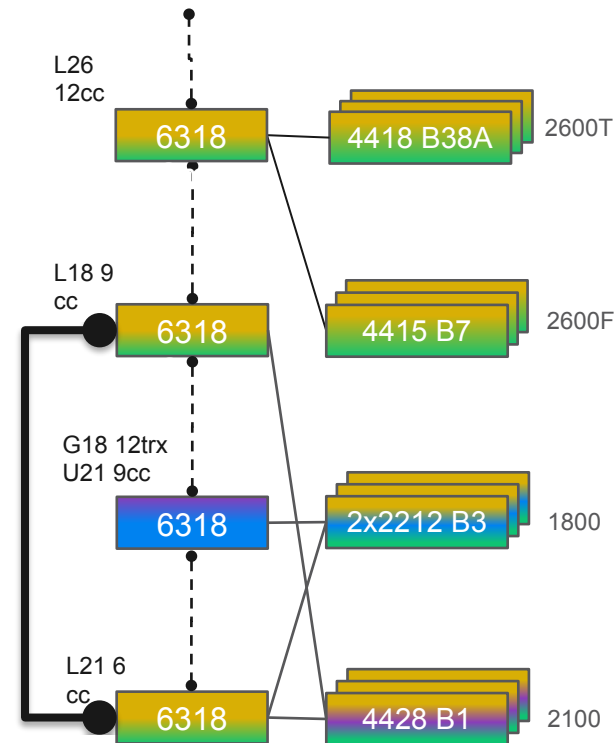
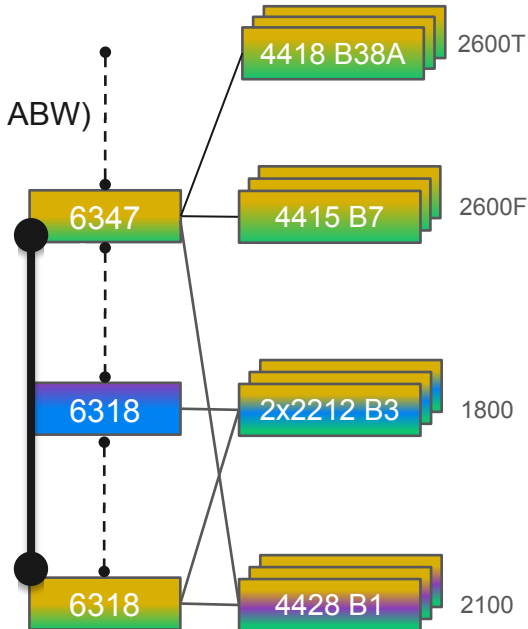
HUP: 2

Radio Power 20W HWAC: 90

CPRI links: 18

CPRI cascade: 3

Transport: 10 Gbit



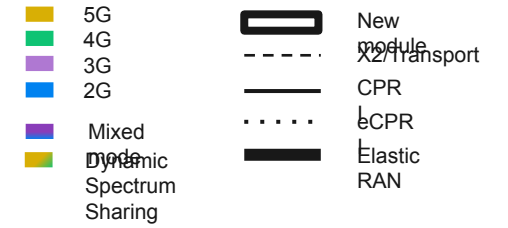
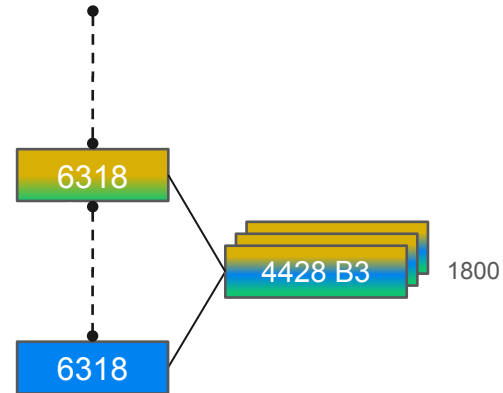
A1.2.4.

4T4R GL18

BB 6318 (1) LTE+NR
LTE 3 CC (240 ABW) + NR 3 CC (240 ABW)
LTE+NR FDD 5Mhz: 12+12
HUP: 3

BB 6318 (2)
GSM: 12TRX

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



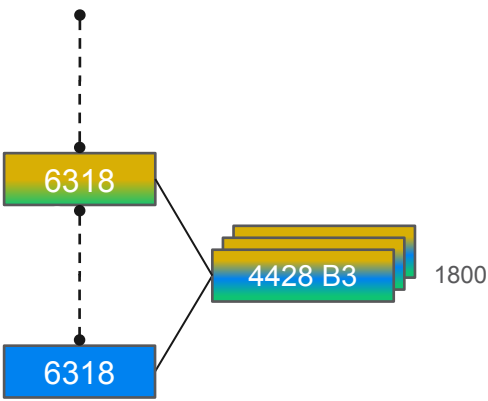
A1.2.4. KTY

4T4R GL18

BB 6318 (1) LTE+NR
LTE 6 CC (360 ABW) + NR 6 CC (360 ABW)
LTE+NR FDD 5Mhz: 18+18
HUP: 5

BB 6318 (2)
GSM: 12TRX

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPR

Elastic RAN

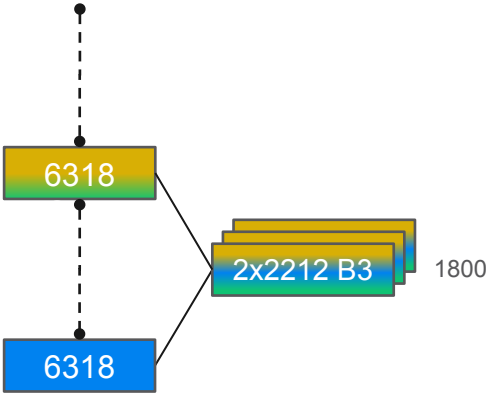
A1.2.4. Ivanovo

4T4R GL18

BB 6318 (1) LTE+NR
LTE 9 CC (420 ABW) + NR 9 CC (420 ABW)
LTE+NR FDD 5Mhz: 21+21
HUP: 6

BB 6318 (2)
GSM: 12TRX

Radio Power 20W HWAC: 45
CPRI links: 6
CPRI cascade: 3
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

————

.....

————

New module
X2/transport
CPR
eCPR
Elastic RAN



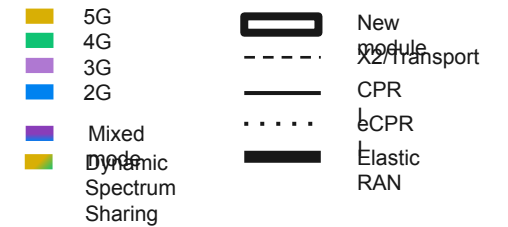
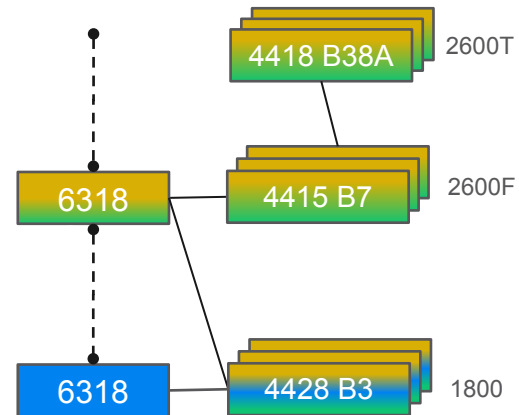
A1.2.4.+A1.2.6.+A1.3.1.

4T4R GL18, L26F, L26T

BB 6318 (1) LTE+NR
LTE 9 CC (600 ABW) + NR 9 CC (600 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
LTE+NR TDD 5Mhz HWAC: 12+12
HUP: 2

BB 6318 (2) GSM
GSM: 12TRX

Radio Power 20W HWAC: 43
CPRI links: 12
Transport: 10 Gbit



A1.2.4.+A1.2.6.+A1.3.1. KTY

4T4R GL18, L26F, L26T

BB 6347 (1) LTE+NR

LTE 18 CC (1080 ABW) + NR 18 CC (1080 ABW)

LTE+NR FDD 5Mhz HWAC: 30+30

LTE+NR TDD 5Mhz HWAC: 24+24

MHUP: 1

HUP: 2

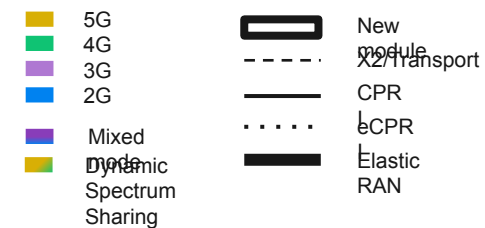
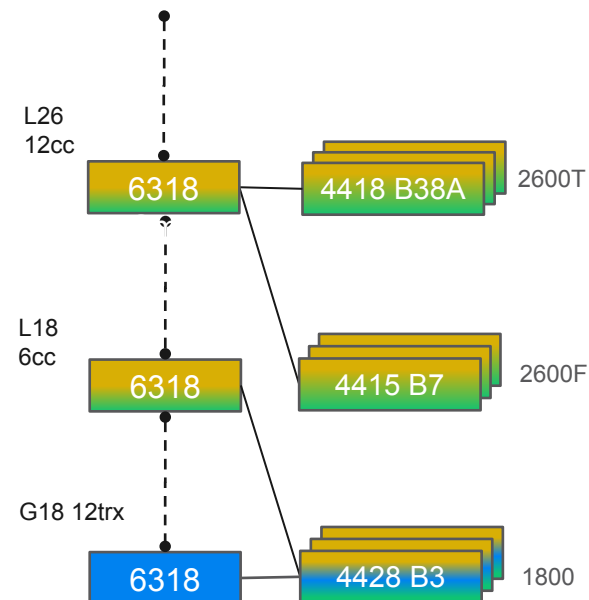
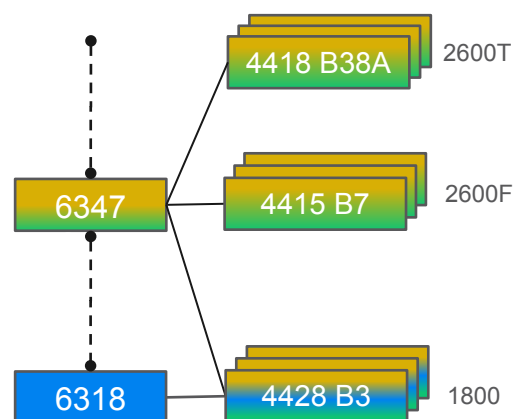
BB 6318 (2) GSM

GSM: 12TRX

Radio Power 20W HWAC: 43

CPRI links: 12

Transport: 10 Gbit



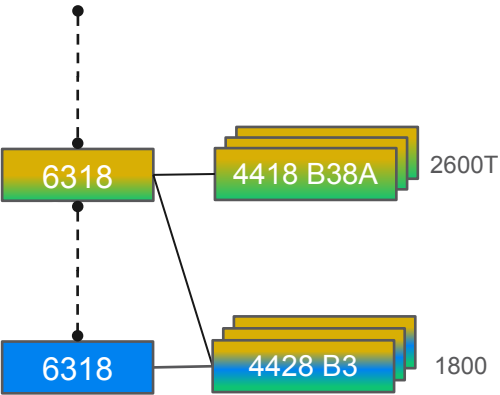
A1.2.4.+A1.3.1.

4T4R GL18, L26T

BB 6347 (1) LTE+NR
LTE 12 CC (840 ABW) + NR 12 CC (840 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
LTE+NR TDD 5Mhz HWAC: 24+24
HUP: 6

BB 6318 (2) GSM
GSM: 12TRX

Radio Power 20W HWAC: 48
CPRI links: 9
Transport: 10 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

ECPR

Elastic RAN

A1.2.4.+A1.3.1. KTY пересмотреть ББ

4T4R GL18, L26T

BB 6347T(1) LTE+NR

LTE 12 CC (840 ABW) + NR 12 CC (840 ABW)

LTE+NR FDD 5Mhz HWAC: 18+18

LTE+NR TDD 5Mhz HWAC: 24+24

HUP: 6

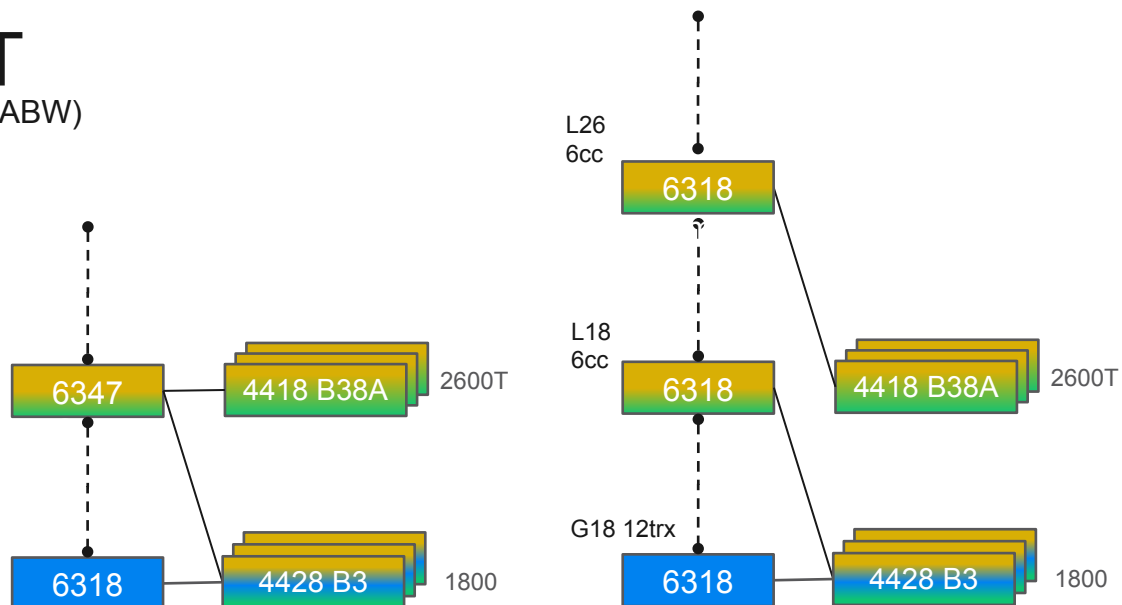
BB 6318 (2) GSM

GSM: 12TRX

Radio Power 20W HWAC: 48

CPRI links: 9

Transport: 10 Gbit



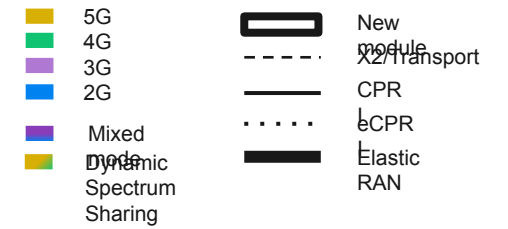
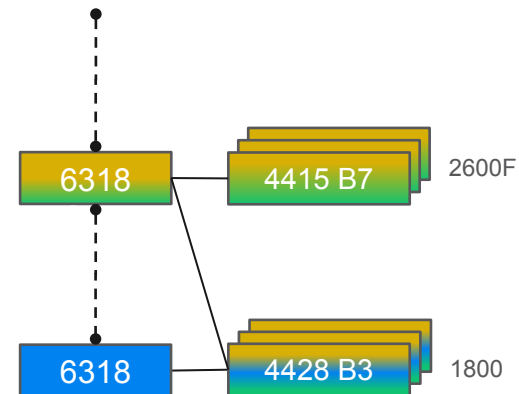
A1.2.4. + A1.2.6.

4T4R GL18, L26F

BB 6318 (1) LTE+NR
LTE 6 CC (420 ABW) + NR 6 CC (360 ABW)
LTE+NR FDD 5Mhz: 18+18
HUP: 6

BB 6318 (2)
GSM: 12TRX

Radio Power 20W HWAC: 42
CPRI links: 9
Transport: 1 Gbit



A1.2.4. + A1.2.6. KTY

4T4R GL18, L26F

BB 6318 (1) LTE+NR

LTE 12 CC (600 ABW) + NR 12 CC (600 ABW)

LTE+NR FDD 5Mhz: 30+30

MHUP: 1

HUP:1

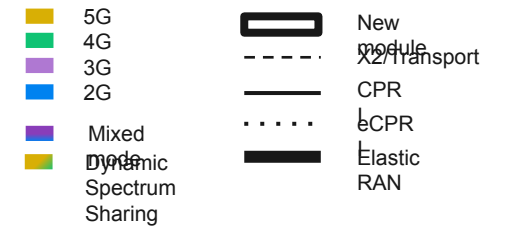
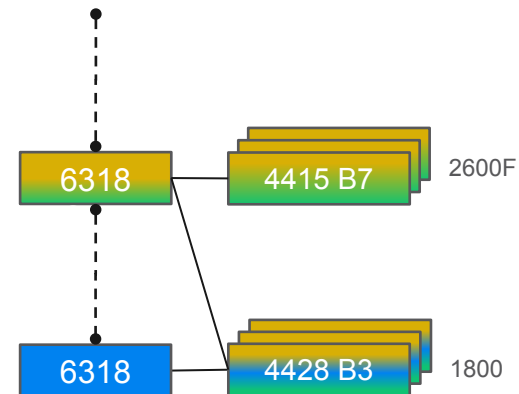
BB 6318 (2)

GSM: 12TRX

Radio Power 20W HWAC: 42

CPRI links: 9

Transport: 1 Gbit



A1.2.4. + A1.2.6. Ivanovo

4T4R GL18, L26F

BB 6318 (1) LTE+NR

LTE 12 CC (600 ABW) + NR 12 CC (600 ABW)

LTE+NR FDD 5Mhz: 30+30

MHUP: 1

HUP:1

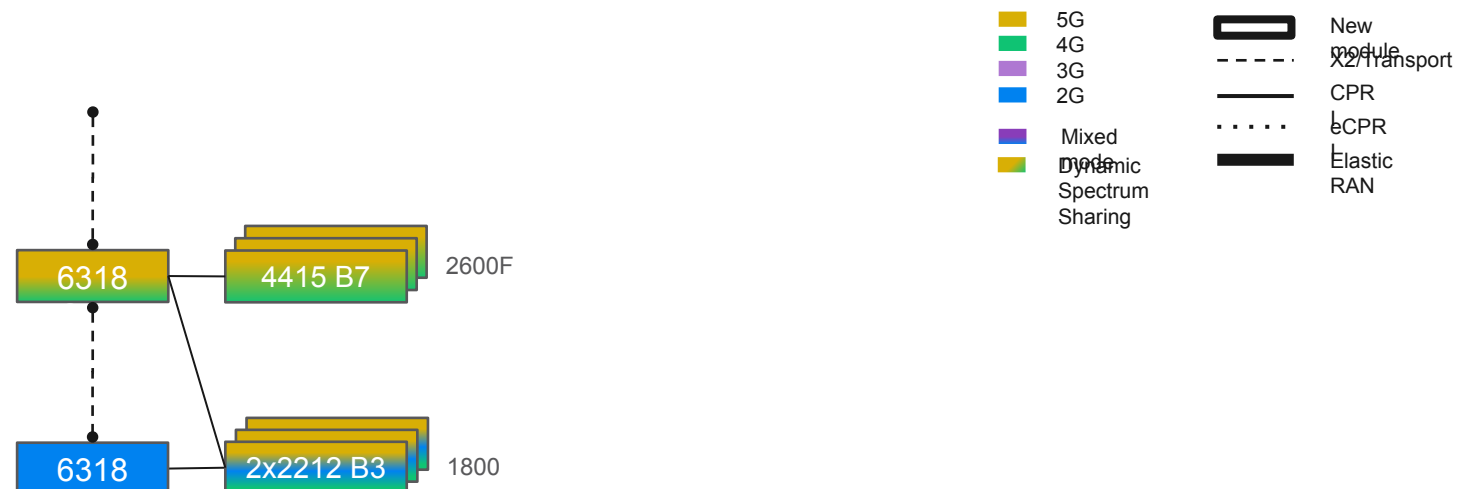
BB 6318 (2)

GSM: 12TRX

Radio Power 20W HWAC: 42

CPRI links: 9

Transport: 1 Gbit



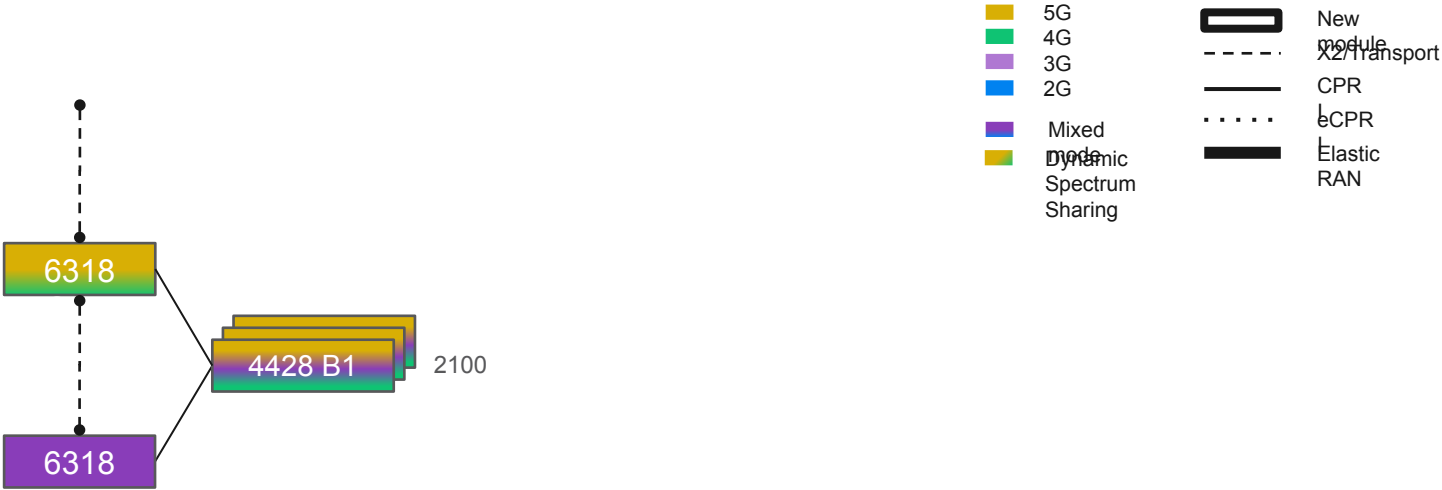
A1.2.5.

4T4R WL21

BB 6318 (1) LTE+NR
LTE 3 CC (180 ABW) + NR 3 CC (180 ABW)
LTE+NR FDD 5Mhz: 9+9
HUP: 2

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



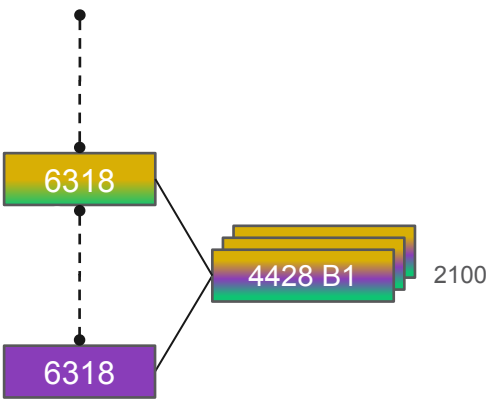
A1.2.5. KTY

4T4R WL21

BB 6318 (1) LTE+NR
LTE 6 CC (360 ABW) + NR 6 CC (360 ABW)
LTE+NR FDD 5Mhz: 18+18
HUP: 5

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

eCPRI

Elastic RAN



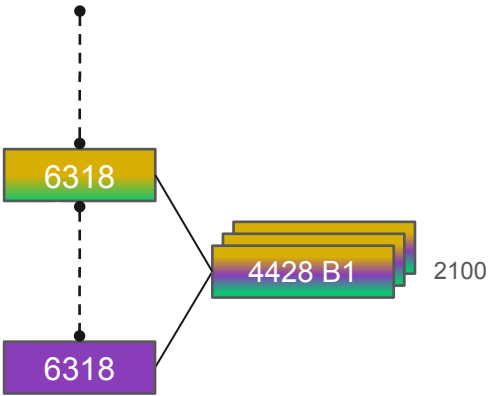
A1.2.5. Ivanovo

4T4R WL21

BB 6318 (1) LTE+NR
LTE 6 CC (360 ABW) + NR 6 CC (360 ABW)
LTE+NR FDD 5Mhz: 18+18
HUP: 5

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

LCPR

Elastic RAN

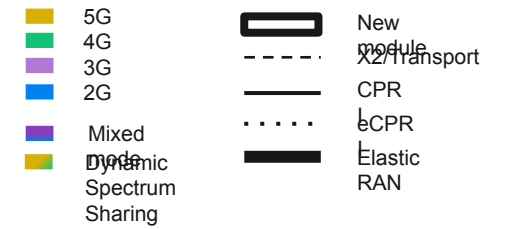
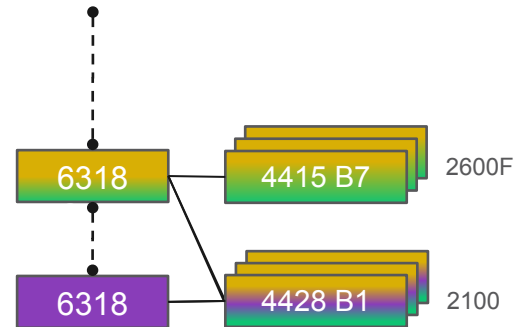
A1.2.5. + A1.2.6.

4T4R WL21, L26F

BB 6318 (1) LTE+NR
LTE 6 CC (300 ABW) + NR 6 CC (300 ABW)
LTE+NR FDD 5Mhz: 15+15
HUP: 4

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 42
CPRI links: 9
Transport: 1 Gbit



A1.2.5. + A1.2.6. KTY

4T4R WL21, L26F

BB 6318 (1) LTE+NR
LTE 12 CC (600 ABW) + NR 12 CC (600 ABW)
LTE+NR FDD 5Mhz: 30+30
MHUP: 1
HUP: 1

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 42
CPRI links: 9
Transport: 1 Gbit



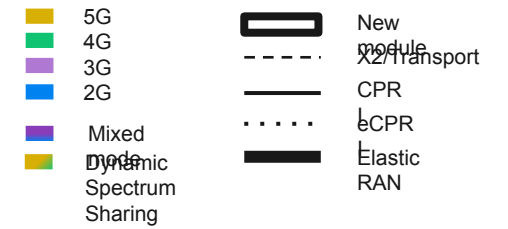
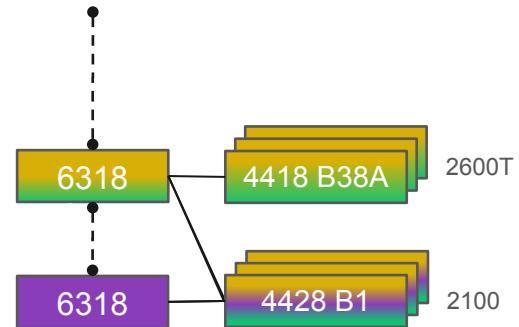
A1.2.5. + A1.3.1.

4T4R WL21, L26T

BB 6318 (1) LTE+NR
LTE 6 CC (420 ABW) + NR 6 CC (420 ABW)
LTE+NR FDD 5Mhz: 9+9
LTE+NR TDD 5Mhz: 12+12
MHUP: 1

BB 6318 (2)
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 42
CPRI links: 9
Transport: 1 Gbit



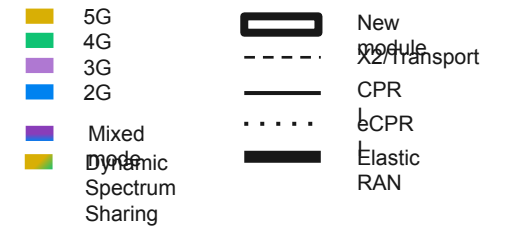
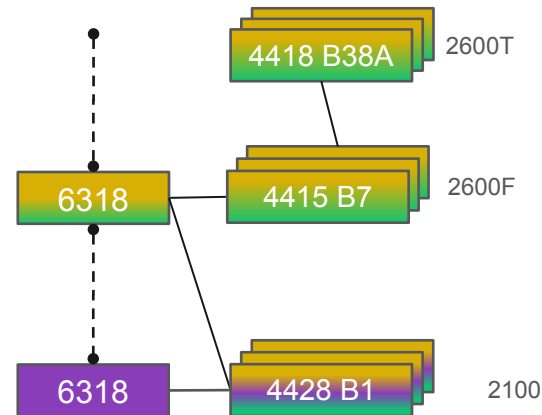
A1.2.5. + A1.3.1. + A1.2.6.

4T4R WL21, L26F; L26T

BB 6318 (1) LTE+NR
LTE 9 CC (540 ABW) + NR 9 CC (540 ABW)
LTE+NR FDD 5Mhz HWAC: 15+15
LTE+NR TDD 5Mhz HWAC: 12+12
MHUP: 1

BB 6318 (2) WCDMA+GSM
WCDMA: 9CC
HUP: 1

Radio Power 20W HWAC: 63
CPRI links: 12
Transport: 10 Gbit

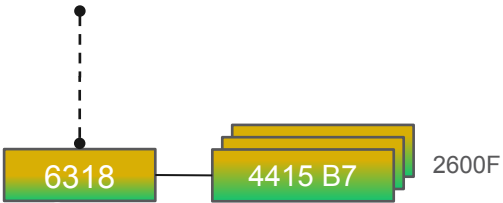


A1.2.6.

4T4R L26F

BB 6318 (1) LTE+NR
LTE 3 CC (120 ABW) + NR 3 CC (120 ABW)
LTE+NR FDD 5Mhz: 6+6
HUP: 1

Radio Power 20W HWAC: 21
CPRI links: 3
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/Transport

CPRI

LCPR

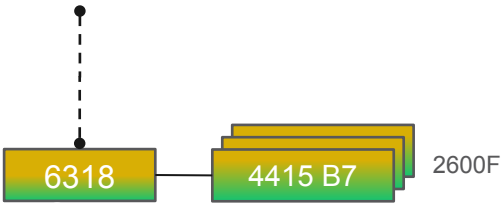
Elastic RAN

A1.2.6. KTY

4T4R L26F

BB 6318 (1) LTE+NR
LTE 6 CC (240 ABW) + NR 6 CC (240 ABW)
LTE+NR FDD 5Mhz: 12+12
HUP: 3

Radio Power 20W HWAC: 21
CPRI links: 3
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/Transport

CPRI

LCPR

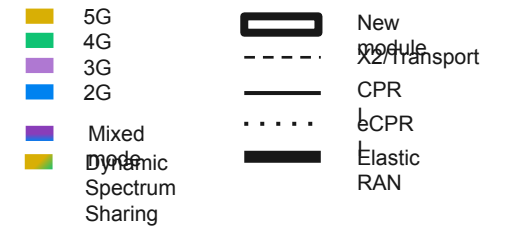
Elastic RAN

A1.2.6.+A1.3.1.

4T4R L26F, L26T

BB 6318 (1) LTE+NR
LTE 6 CC (360 ABW) + NR 6 CC (360 ABW)
LTE+NR FDD 5Mhz HWAC: 6+6
LTE+NR TDD 5Mhz HWAC: 12+12
HUP: 5

Radio Power 20W HWAC: 45
CPRI links: 6
Transport: 10 Gbit



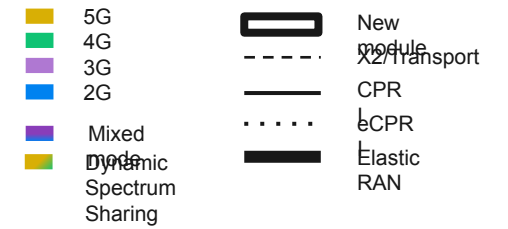
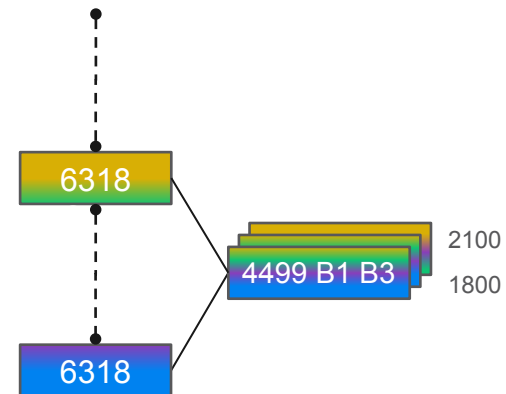
A1.2.8.

4T4R GL18, WL21

BB 6318 (1) LTE+NR
LTE 6 CC (420 ABW) + NR 6 CC (420 ABW)
LTE+NR FDD 5Mhz: 21+21
MHUP: 1

BB 6318 (2)
GSM: 12TRX
WCDMA: 9CC
HUP: 2

Radio Power 20W HWAC: 45
CPRI links: 6
Transport: 10 Gbit



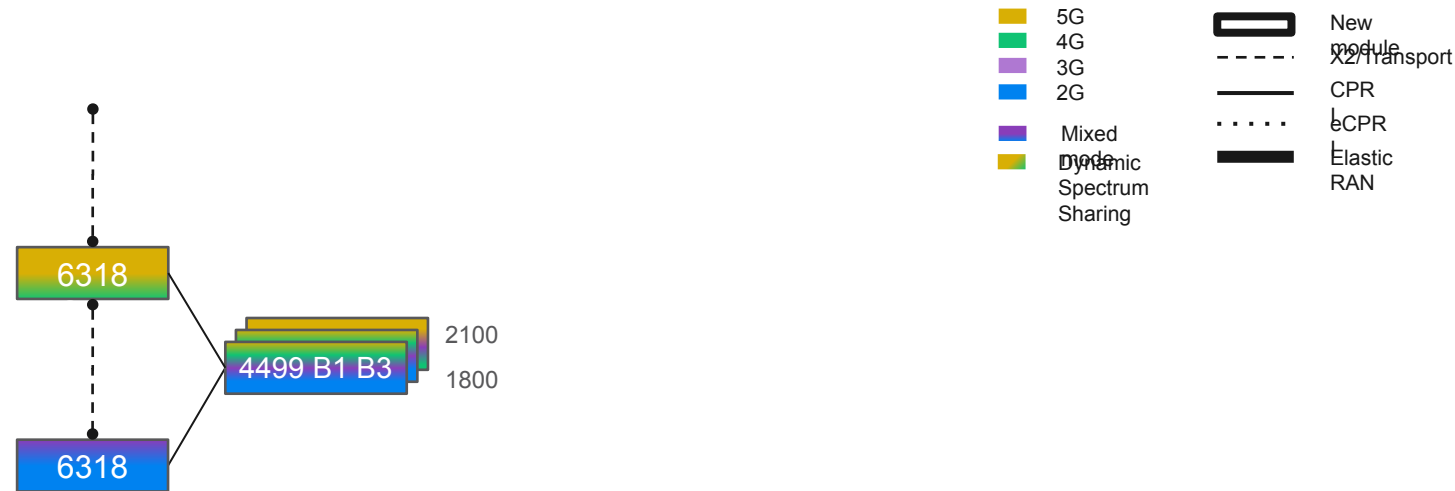
A1.2.8. KTY

4T4R GL18, WL21

BB 6318 (1) LTE+NR
LTE 12 CC (720 ABW) + NR 12 CC (720 ABW)
LTE+NR FDD 5Mhz: 36+36
MHUP: 1
HUP: 3

BB 6318 (2)
GSM: 12TRX
WCDMA: 9CC
HUP: 2

Radio Power 20W HWAC: 45
CPRI links: 6
Transport: 10 Gbit



A1.2.8. Ivanovo

4T4R GL18, WL21

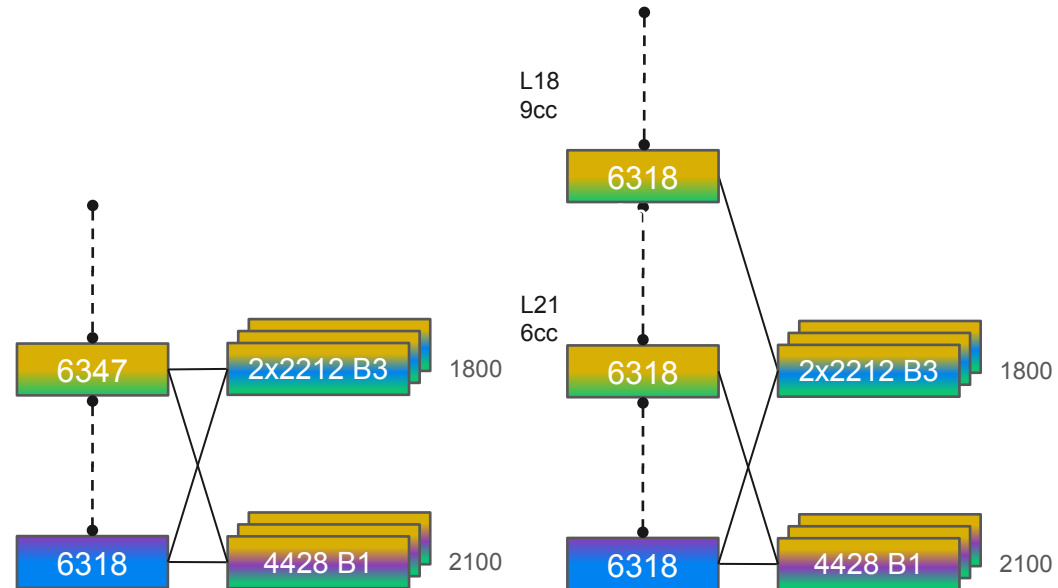
BB 6347 (1) LTE+NR
LTE 15 CC (780 ABW) + NR 15 CC (780 ABW)
LTE+NR FDD 5Mhz: 39+39
MHUP: 1
HUP: 4

BB 6318 (1)
GSM: 12TRX
WCDMA: 9CC
HUP: 2

Radio Power 20W HWAC: 69

CPRI links: 12; CPRI cascade 3

Transport: 10 Gbit



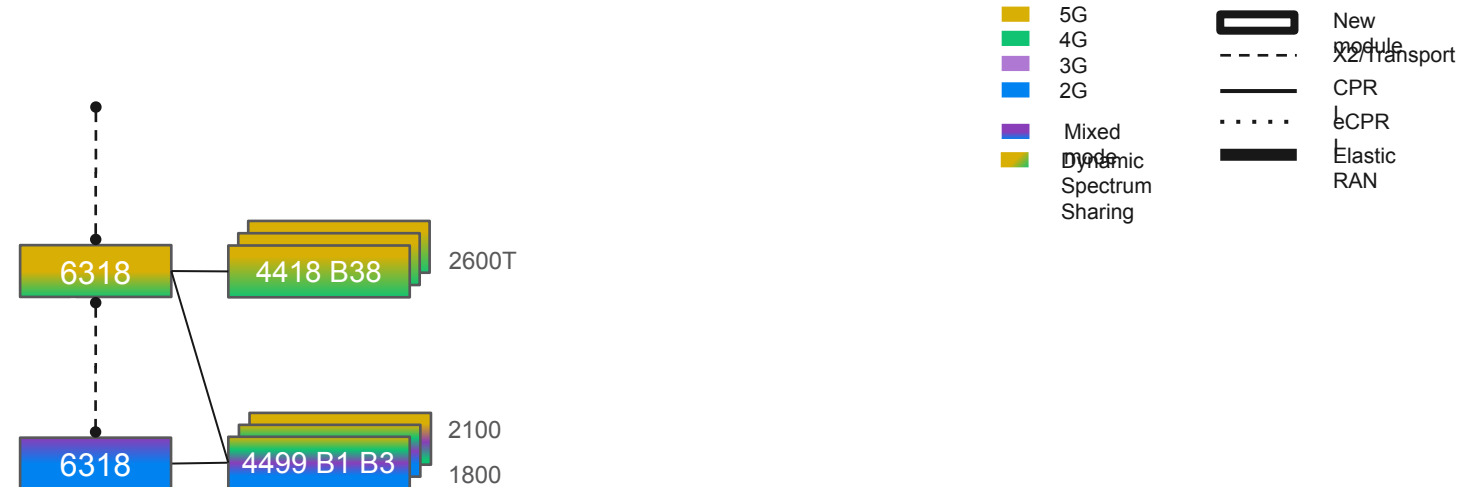
A1.2.8. + A1.3.1.

4T4R GL18, WL21, L26T

BB 6318 (1) LTE+NR
LTE 9 CC (660 ABW) + NR 9 CC (660 ABW)
LTE+NR FDD 5Mhz: 21+21
LTE+NR TDD 5CC: 12+12
MHUP: 1
HUP: 2

BB 6318 (2)
GSM: 12TRX
WCDMA: 9CC
HUP: 2

Radio Power 20W HWAC: 66
CPRI links: 9
Transport: 10 Gbit



A1.2.8. + A1.3.1. Ivanovo

4T4R GL18, WL21, L26T

BB 6347 (1) LTE+NR

LTE 21 CC (1260 ABW) + NR 21 CC (1260 ABW)

LTE+NR FDD 5Mhz: 39+39

LTE+NR TDD 5CC: 24+24

MHUP: 1

HUP: 4

BB 6318 (2)

GSM: 12TRX

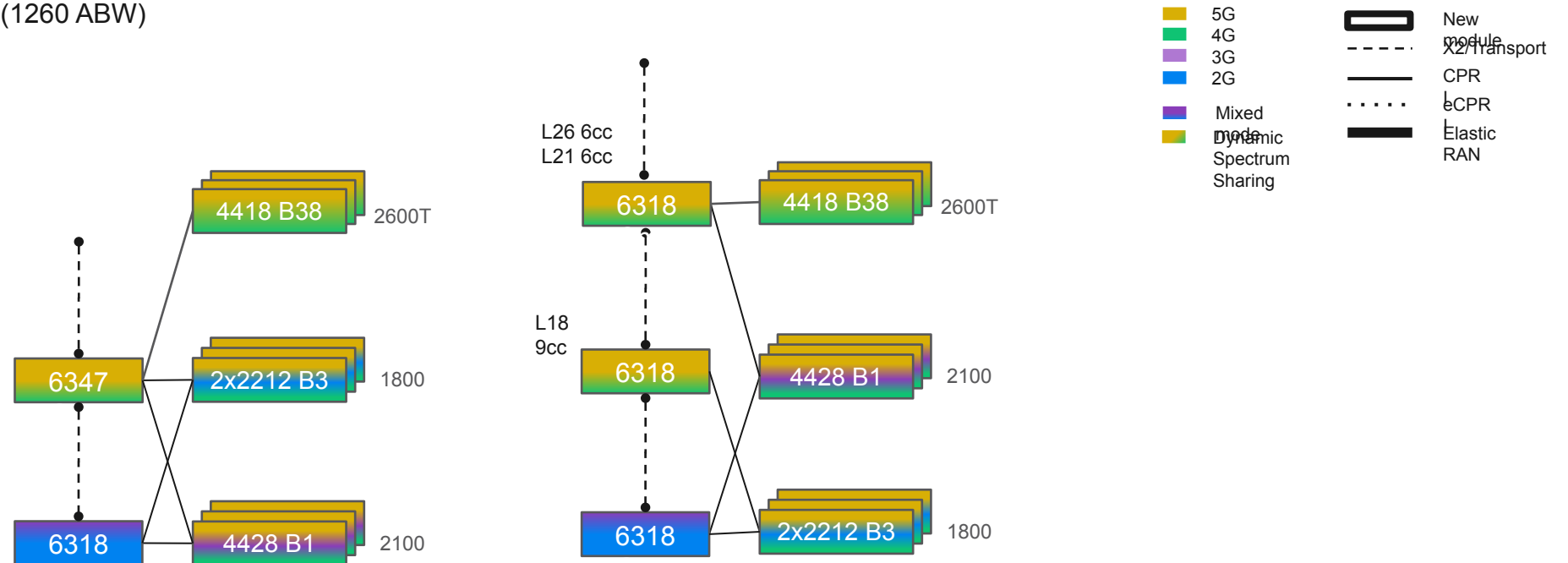
WCDMA: 9CC

HUP: 2

Radio Power 20W HWAC: 87

CPRI links: 15

Transport: 10 Gbit

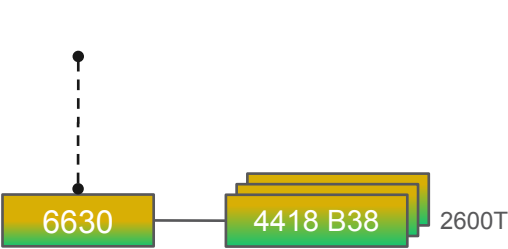


A1.3.1.

4T4R L26T

BB 6630 (1) LTE+NR
LTE 3 CC (240 ABW) + NR 3 CC (240 ABW)
LTE+NR TDD 5Mhz HWAC: 12+12
HUP 3

Radio Power 20W HWAC:21
CPRI links: 3
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPR

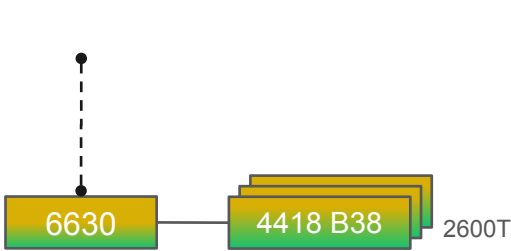
Elastic RAN

A1.3.1. KTY

4T4R L26T

BB 6630 (1) LTE+NR
LTE 6 CC (480 ABW) + NR 6 CC (480 ABW)
LTE+NR FDD 5Mhz HWAC:
LTE+NR TDD 5Mhz HWAC: 24+24
MHUP: 1

Radio Power 20W HWAC:21
CPRI links: 3
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPR

Elastic RAN

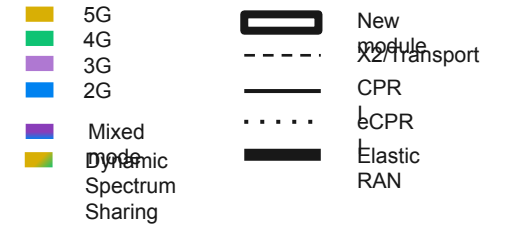
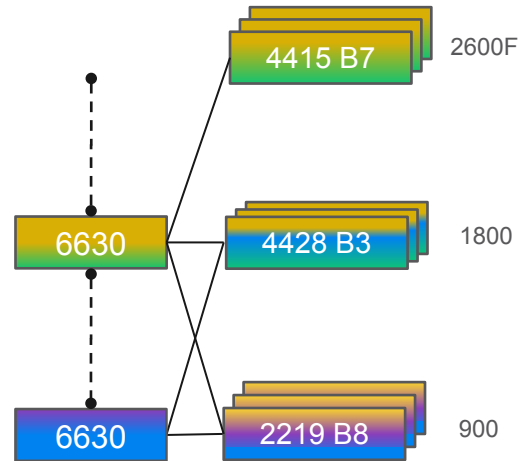
A2.1.2.

2T2R GWL9; 4T4R GL18, L26F

BB 6630 (1) LTE+NR
LTE 12 CC (420 ABW) + NR 12 CC (420 ABW)
LTE+NR FDD 5Mhz HWAC: 24+24
HUP 6

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



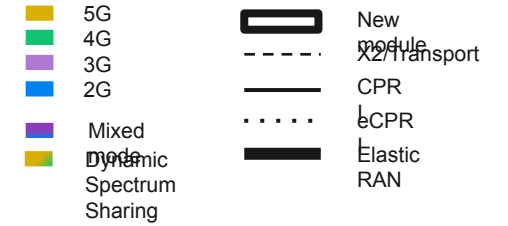
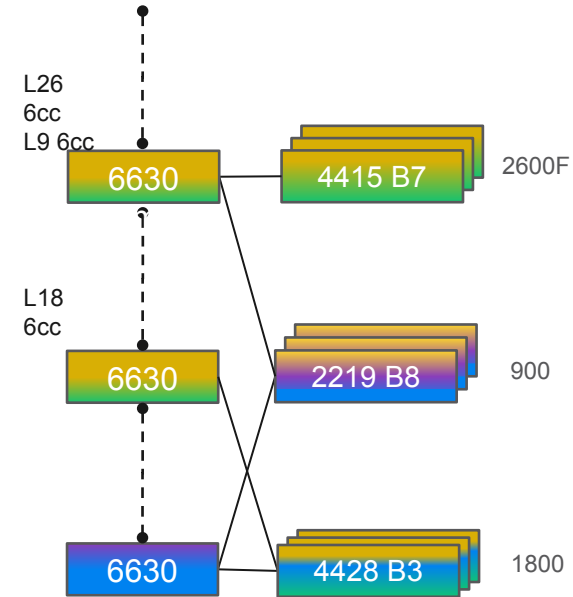
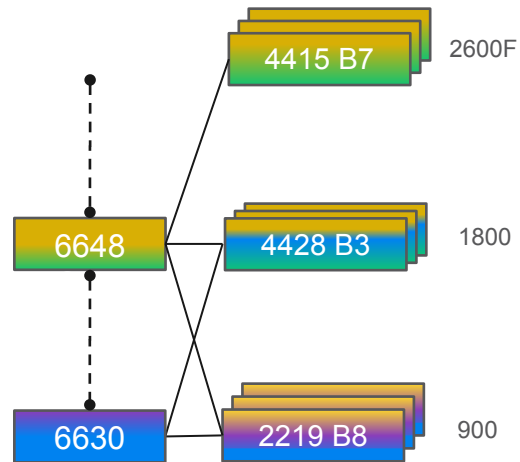
A2.1.2. KTY

2T2R GWL9; 4T4R GL18, L26F

BB 6648 (1) LTE+NR
LTE 18 CC (660 ABW) + NR 18 CC (660 ABW)
LTE+NR FDD 5Mhz HWAC: 36+36
HUP: 3

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 57
CPRI links: 15
CPRI cascade:
Transport: 10 Gbit



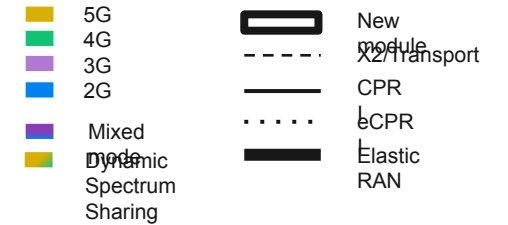
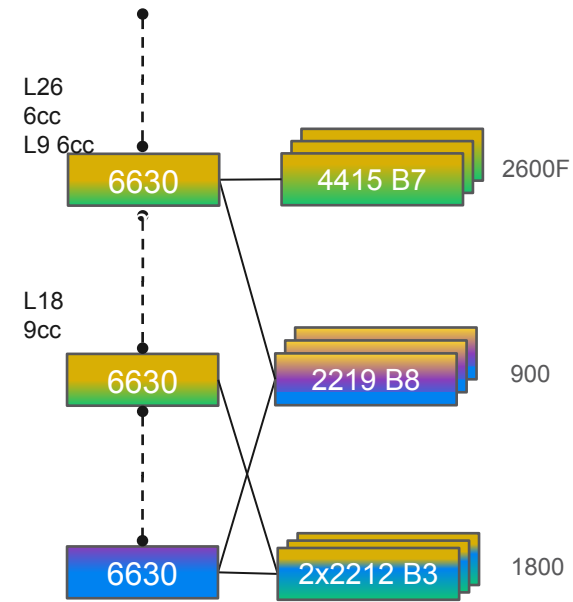
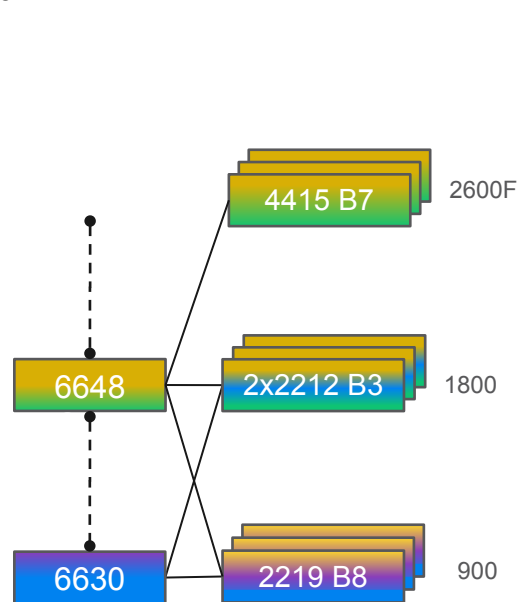
A2.1.2. Ivanovo

2T2R GWL9; 4T4R GL18, L26F

BB 6648 (1) LTE+NR
LTE 21 CC (720 ABW) + NR 21 CC (720 ABW)
LTE+NR FDD 5Mhz HWAC: 39+39
HUP: 4

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 81
CPRI links: 15
CPRI cascade: 3
Transport: 10 Gbit



A2.1.2. + A.1.3.1.

2T2R GWL9; 4T4R GL18, L26F, L26T

BB 6648 (1) LTE+NR

LTE 15 CC (630 ABW) + NR 15 CC (630 ABW)

LTE+NR FDD 5Mhz HWAC: 24+24

LTE+NR TDD 5Mhz HWAC: 12+12

HUP: 3

BB 6630 (2) WCDMA+GSM

WCDMA: 6

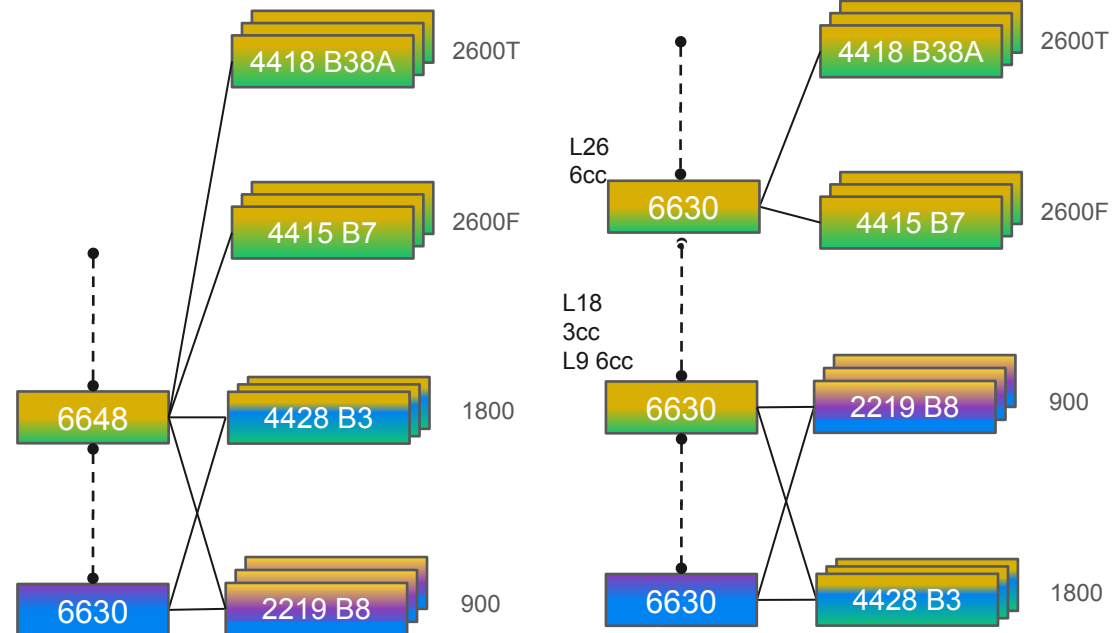
GSM: 24

HUP: 1

Radio Power 20W HWAC: 78

CPRI links: 18

Transport: 10 Gbit



A2.1.2. + A1.3.1. KTY

2T2R GWL9; 4T4R GL18, L26F, L26T

BB 6648 (1) LTE+NR

LTE 24 CC (1140 ABW) + NR 24 CC (1140 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

LTE+NR TDD 5Mhz HWAC: 24+24

HUP: 3

BB 6630 (1) WCDMA+GSM

WCDMA: 6

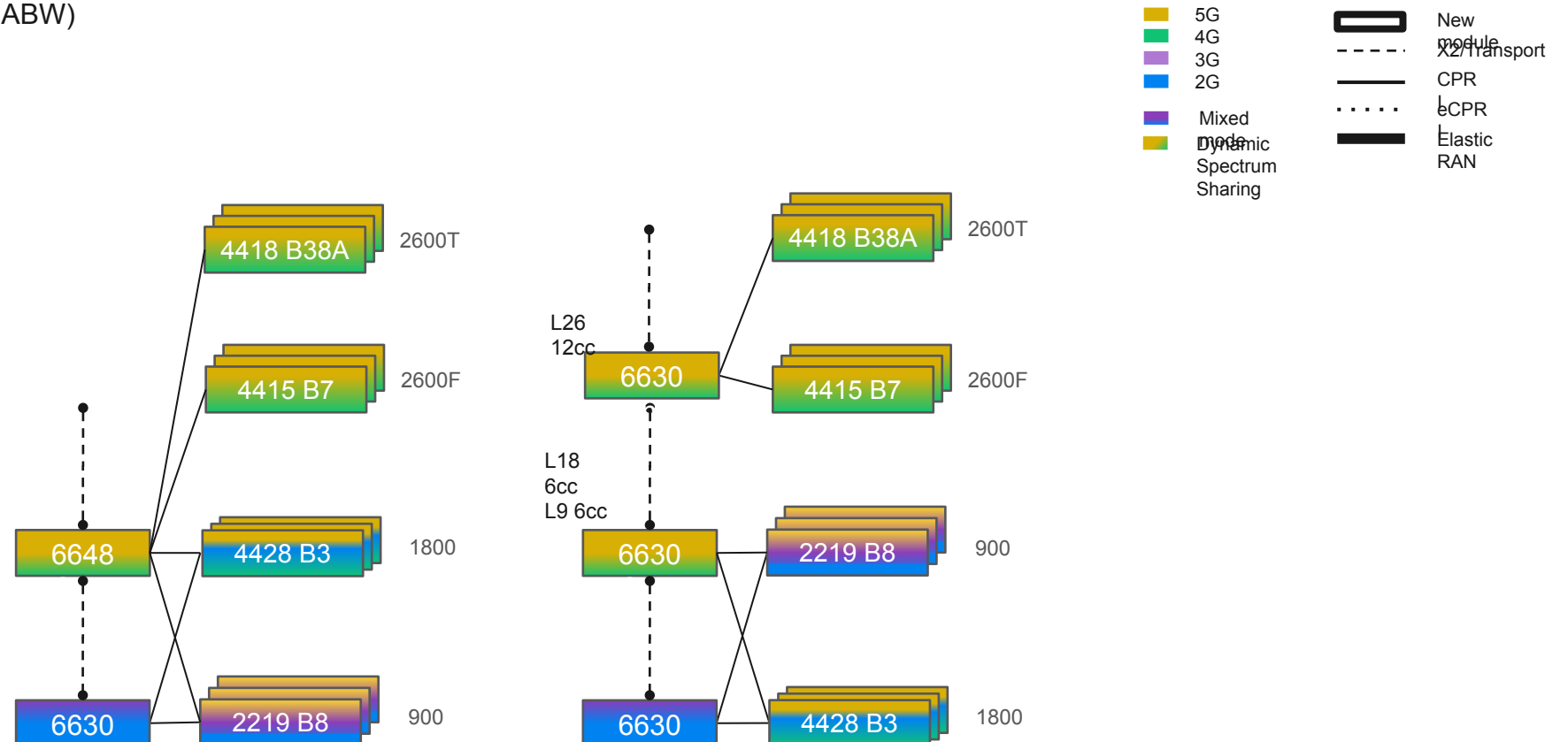
GSM: 24

HUP: 1

Radio Power 20W HWAC: 78

CPRI links: 18

Transport: 10 Gbit



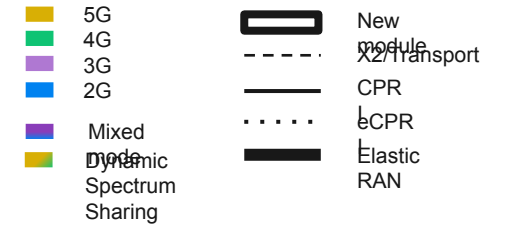
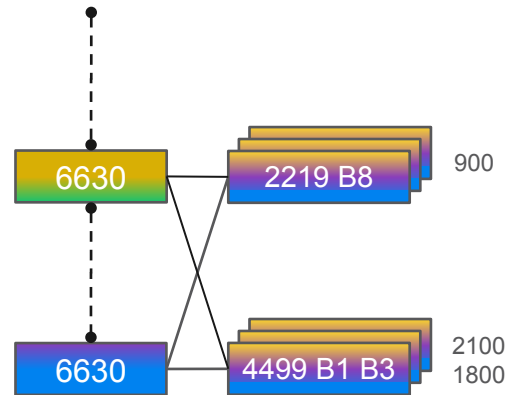
A2.1.3.

2T2R GWL9; 4T4R GL18, WL21

BB 6630 (1) LTE+NR
LTE 12 CC (480 ABW) + NR 12 CC (480 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
MHUP: 1

BB 6630 (2) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 60
CPRI links: 12
Transport: 10 Gbit



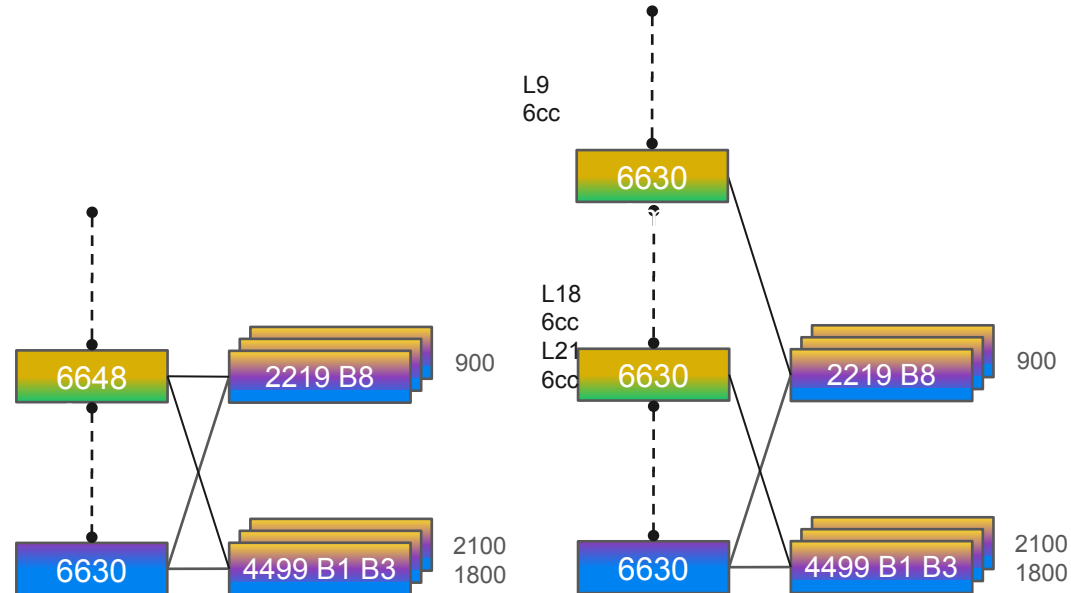
A2.1.3. KTY

2T2R GWL9; 4T4R GL18, WL21

BB 6648 (1) LTE+NR
LTE 18 CC (780 ABW) + NR 18 CC (780 ABW)
LTE+NR FDD 5Mhz HWAC: 42+42
MHUP 1
HUP 3

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 60
CPRI links: 12
Transport: 10 Gbit



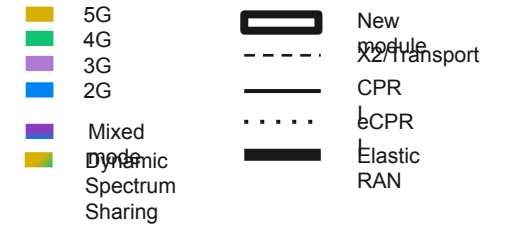
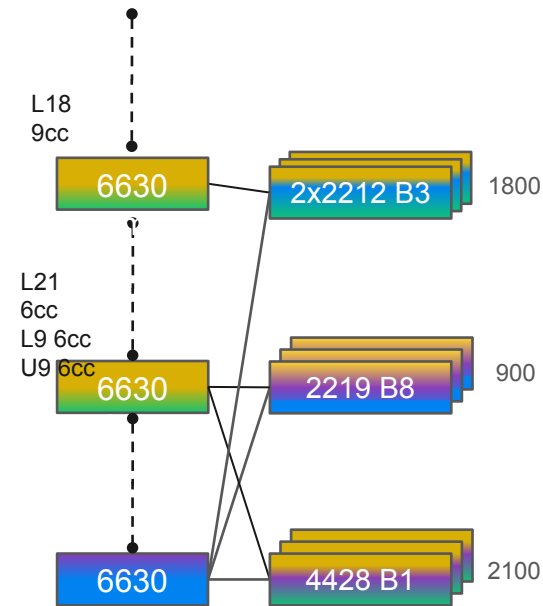
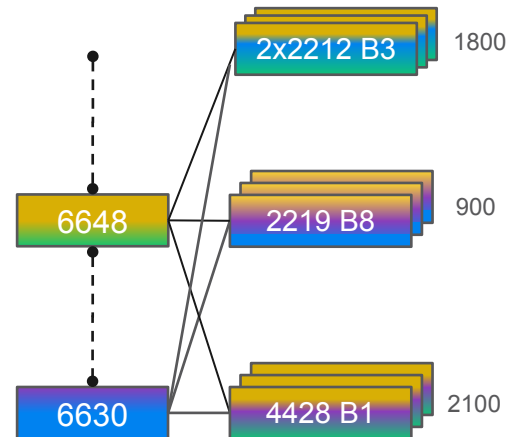
A2.1.3. Ivanovo

2T2R GWL9; 4T4R GL18, WL21

BB 6648 (1) LTE+NR
LTE 21 CC (840 ABW) + NR 21 CC (840 ABW)
LTE+NR FDD 5Mhz HWAC: 45+45
HUP: 6

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 84
CPRI links: 18
CPRI cascade: 3
Transport: 10 Gbit



A2.1.3. + A1.3.1.

2T2R GWL9; 4T4R GL18, WL21, L26T

BB 6648 (1) LTE+NR

LTE 15 CC (720 ABW) + NR 15 CC (720 ABW)

LTE+NR FDD 5Mhz HWAC: 27+27

LTE+NR TDD 5Mhz HWAC: 12+12

HUP: 4

BB 6630 (1) WCDMA+GSM

WCDMA: 15

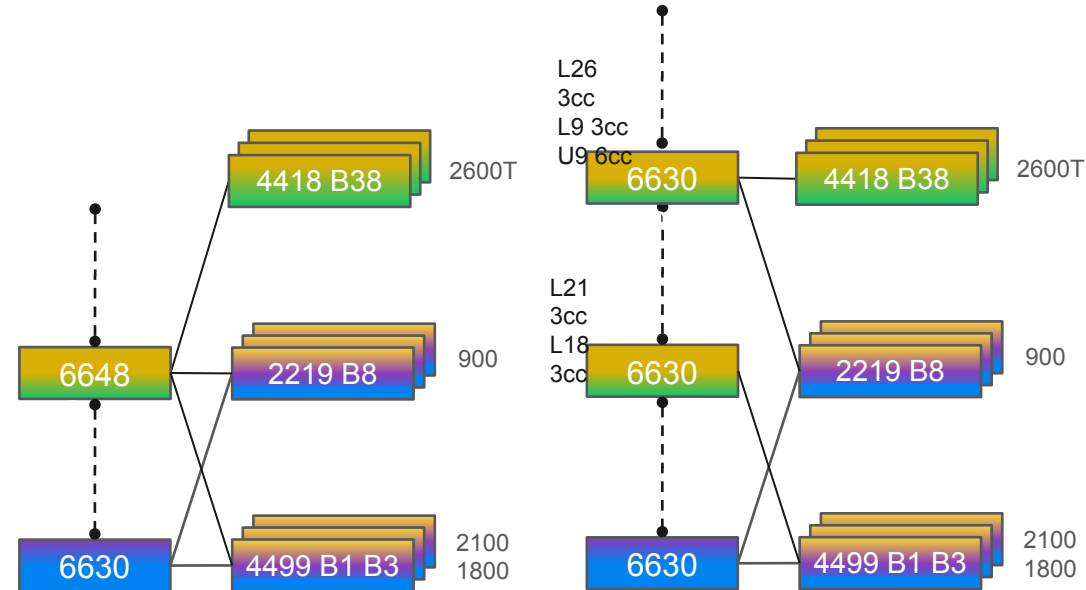
GSM: 24

HUP: 2

Radio Power 20W HWAC: 81

CPRI links: 15

Transport: 10 Gbit



A2.1.3+A1.3.1. Ivanovo

2T2R GWL9; 4T4R GL18, WL21, L26T

BB 6630 (1) LTE+NR

LTE 27 CC (540 ABW) + NR 27 CC (540 ABW)

LTE+NR FDD 5Mhz HWAC: 6+6

LTE+NR TDD 5Mhz HWAC: 24+24

MHUP 1

BB 6630 (2) WCDMA+GSM

WCDMA: 15

GSM: 24

HUP: 2

BB 6648 (1) LTE+NR

LTE 15 CC (780 ABW) + NR 15 CC (780 ABW)

LTE+NR FDD 5Mhz HWAC: 39+39

HUP 5

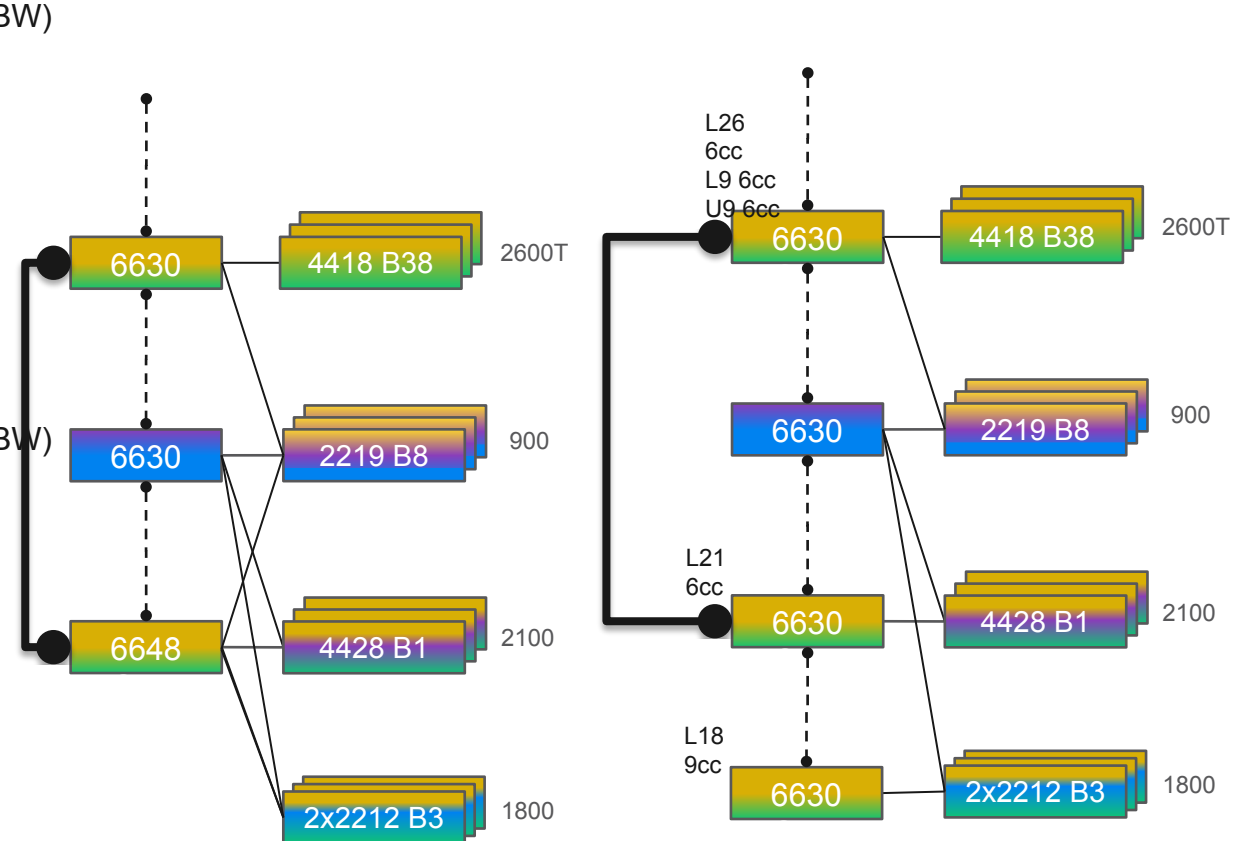
Radio Power 20W HWAC: 105

CPRI links: 24

CPRI cascade: 3

Transport: 10 Gbit

Xcede cable



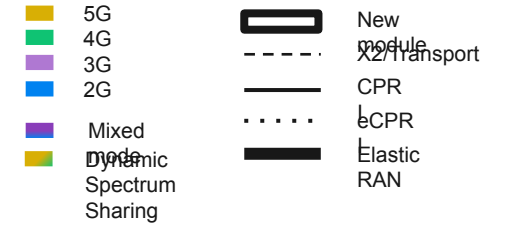
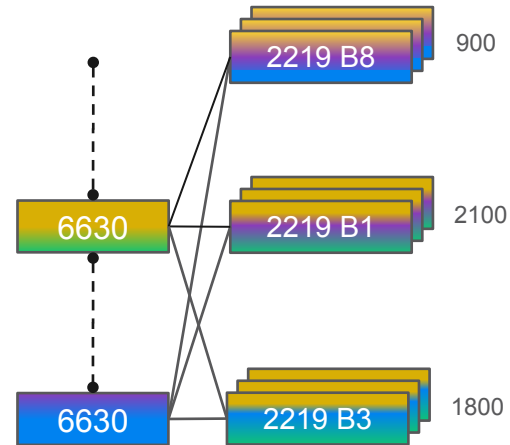
A3.1.1.

2T2R GWL9, GL18, WL21

BB 6630 (1) LTE+NR
LTE 12 CC (270 ABW) + NR 12 CC (270 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
HUP: 4

BB 6630 (2) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 51
CPRI links: 18
Transport: 1 Gbit



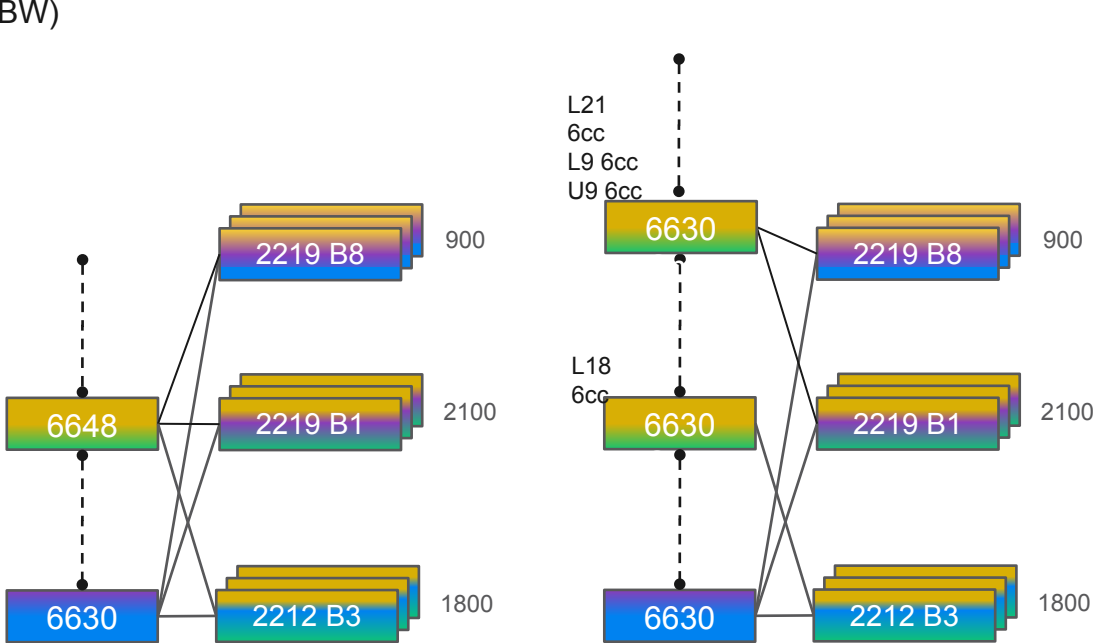
A3.1.1. KTY

2T2R GWL9, GL18, WL21

BB 6648 (1) LTE+NR
LTE 18 CC (420 ABW) + NR 18 CC (420 ABW)
LTE+NR FDD 5Mhz HWAC: 42+42
HUP: 0

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 51
CPRI links: 18
Transport: 1 Gbit



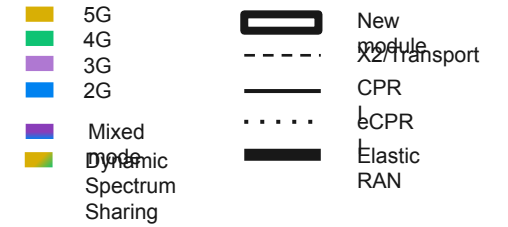
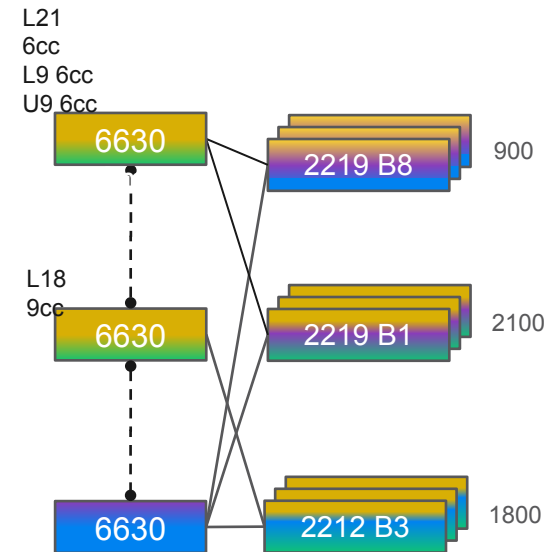
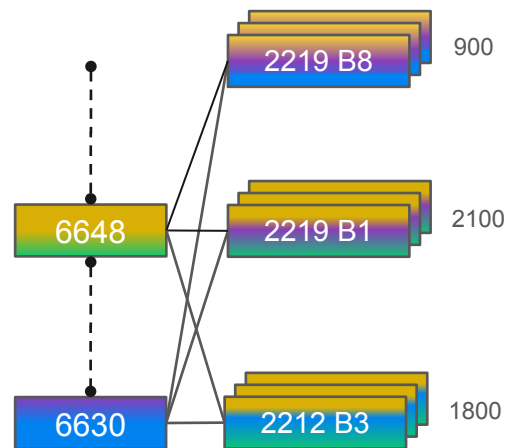
A3.1.1. Ivanovo

2T2R GWL9, GL18, WL21

BB 6648 (1) LTE+NR
LTE 21 CC (450 ABW) + NR 21 CC (450 ABW)
LTE+NR FDD 5Mhz HWAC: 45+45
MHUP 0

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 51
CPRI links: 18
Transport: 1 Gbit



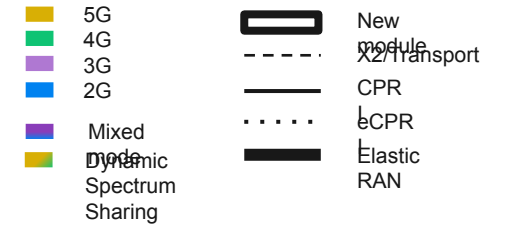
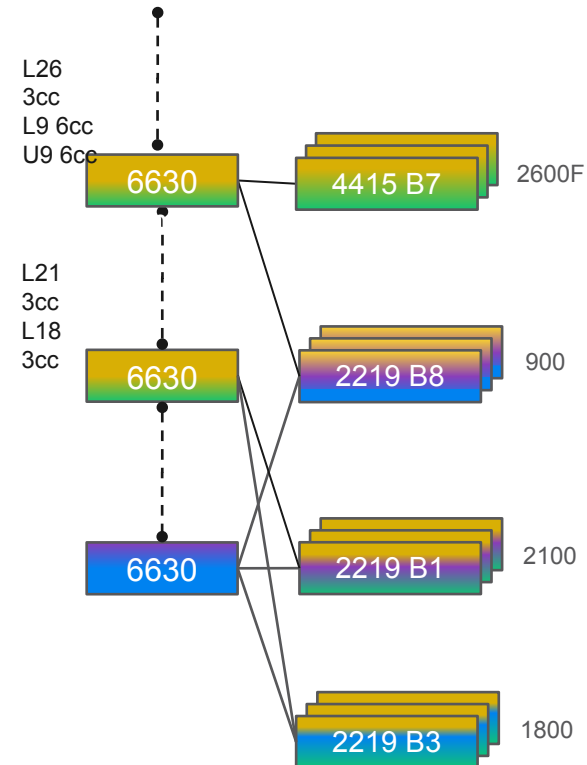
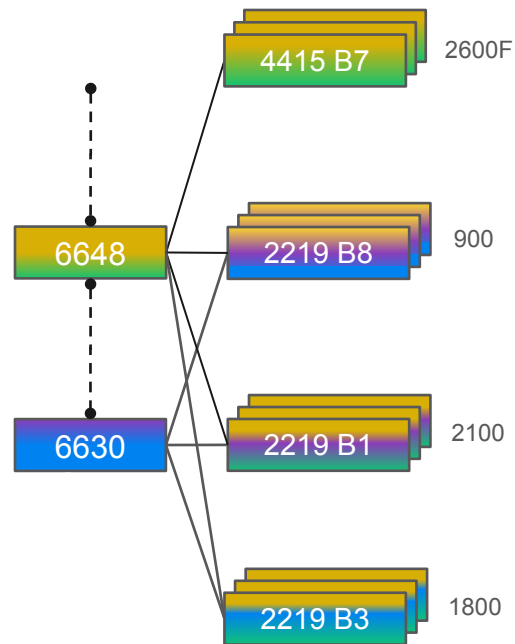
A3.1.1. + A1.2.6.

2T2R GWL9, GL18, WL21; 4T4R L26

BB 6648 (1) LTE+NR
LTE 15 CC (390 ABW) + NR 15 CC (390 ABW)
LTE+NR FDD 5Mhz HWAC: 33+33
MHUP 0

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 72
CPRI links: 21
Transport: 10 Gbit



A3.1.1. + A1.2.6. KTY

2T2R GWL9, GL18, WL21; 4T4R L26

BB 6648 (1) LTE+NR

LTE 24 CC (660 ABW) + NR 24 CC (660 ABW)

LTE+NR FDD 5Mhz HWAC: 54+54

HUP: 3

BB 6630 (1) WCDMA+GSM

WCDMA: 15

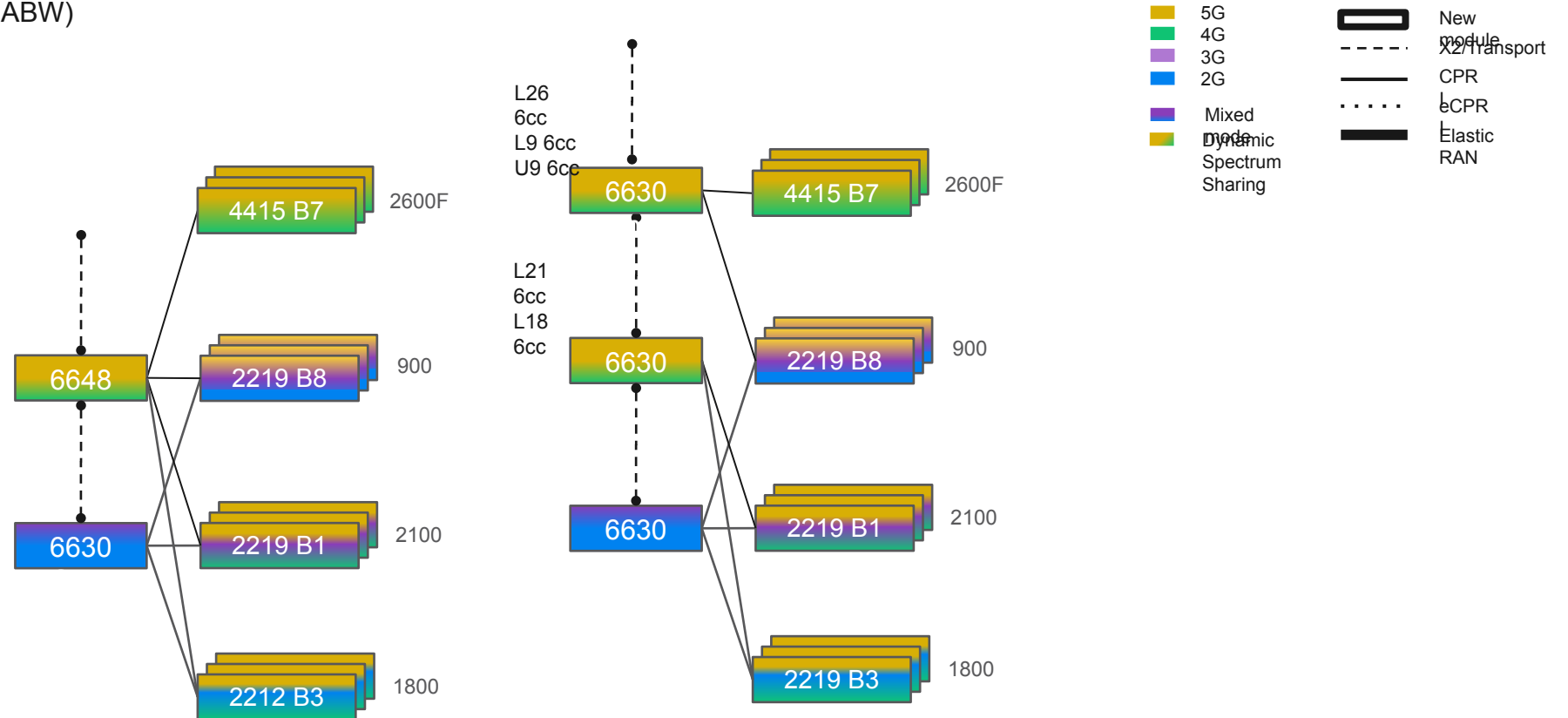
GSM: 24

HUP: 2

Radio Power 20W HWAC: 72

CPRI links: 21

Transport: 10 Gbit



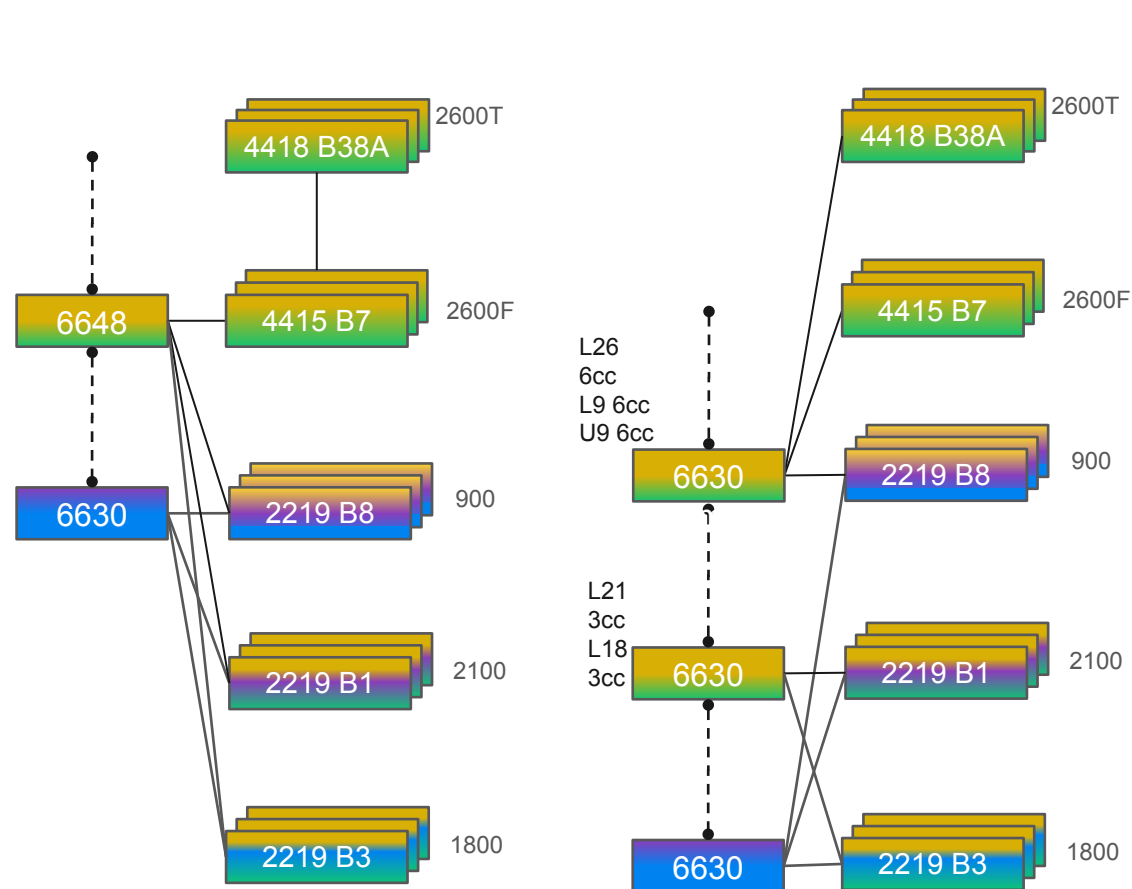
A3.1.1. + A1.2.6. + A1.3.1.

2T2R GWL9, GL18, WL21; 4T4R L26F, L26T

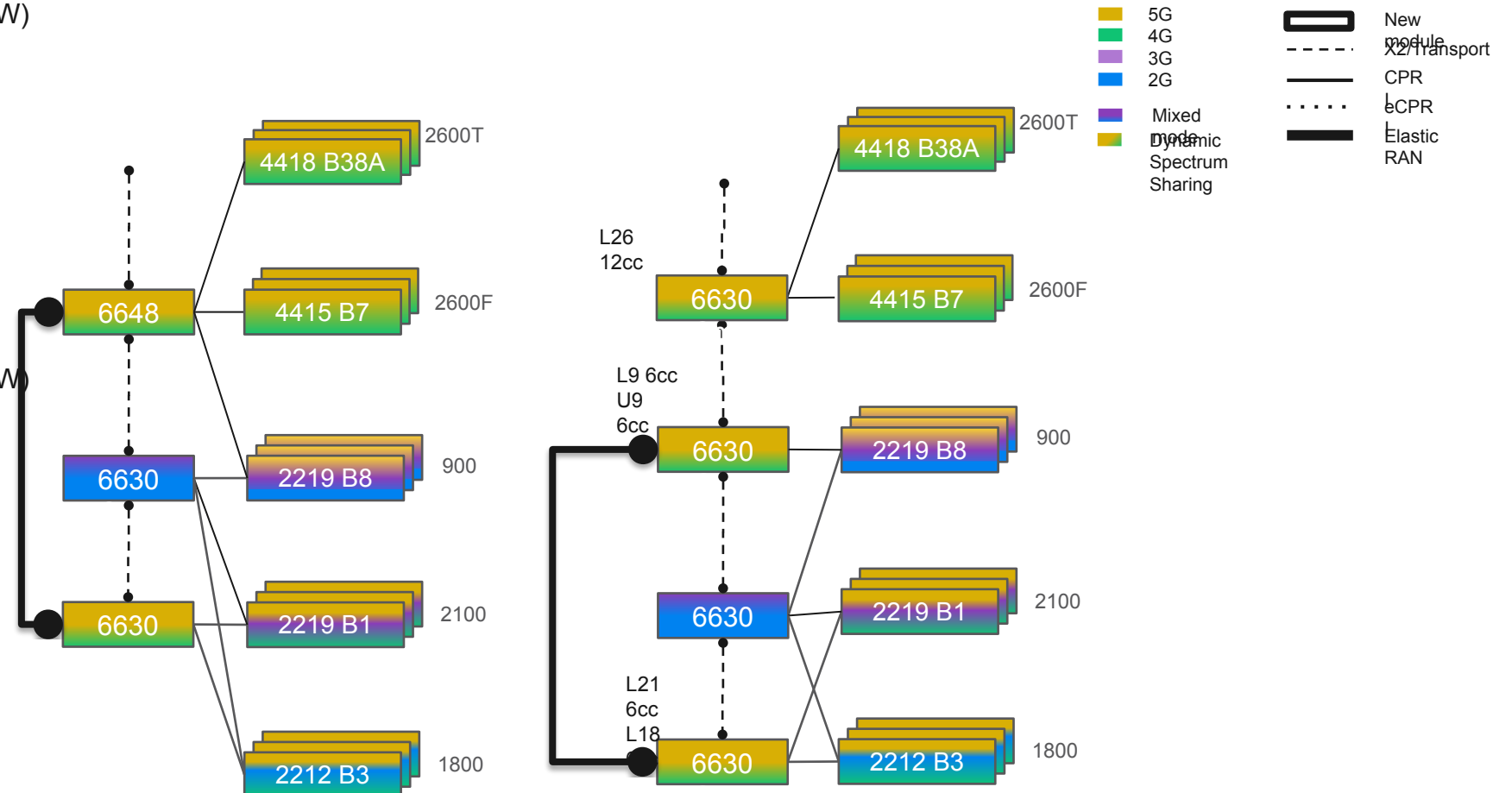
BB 6648 (1) LTE+NR
LTE 18 CC (630 ABW) + NR 18 CC (630 ABW)
LTE+NR FDD 5Mhz HWAC: 33+33
LTE+NR TDD 5Mhz HWAC: 12+12
HUP: 3

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 93
CPRI links: 21
CPRI cascade: 3
Transport: 10 Gbit



Transport: 10 Gbit ; Xcede cable



A3.1.1+A1.3.1.

2T2R GWL9, GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR

LTE 15 CC (780 ABW) + NR 15 CC (780 ABW)

LTE+NR FDD 5Mhz HWAC: 27+27

LTE+NR TDD 5Mhz HWAC: 12+12

HUP: 6

BB 6630 (1) WCDMA+GSM

WCDMA: 15

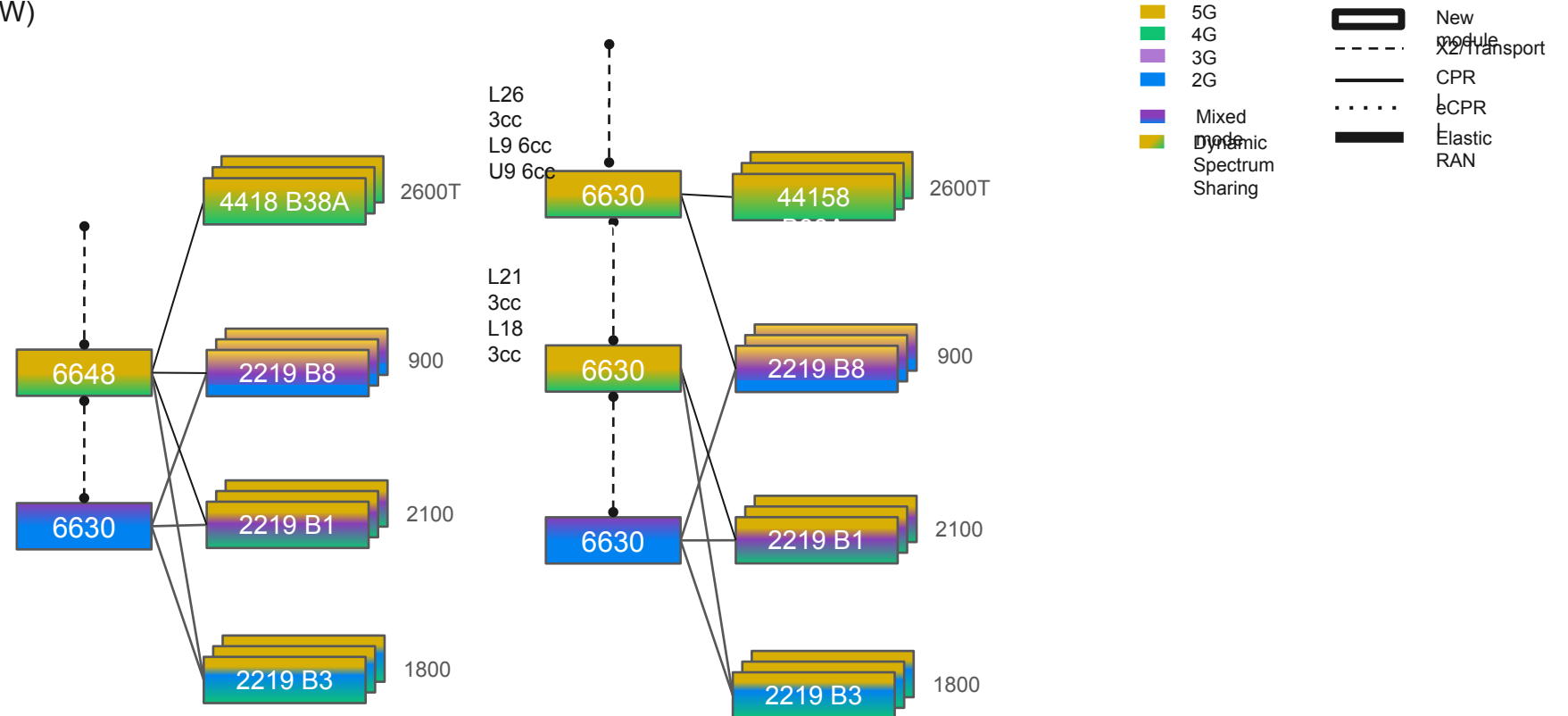
GSM: 24

HUP: 2

Radio Power 20W HWAC: 72

CPRI links: 21

Transport: 10 Gbit



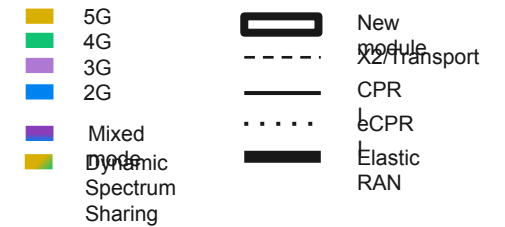
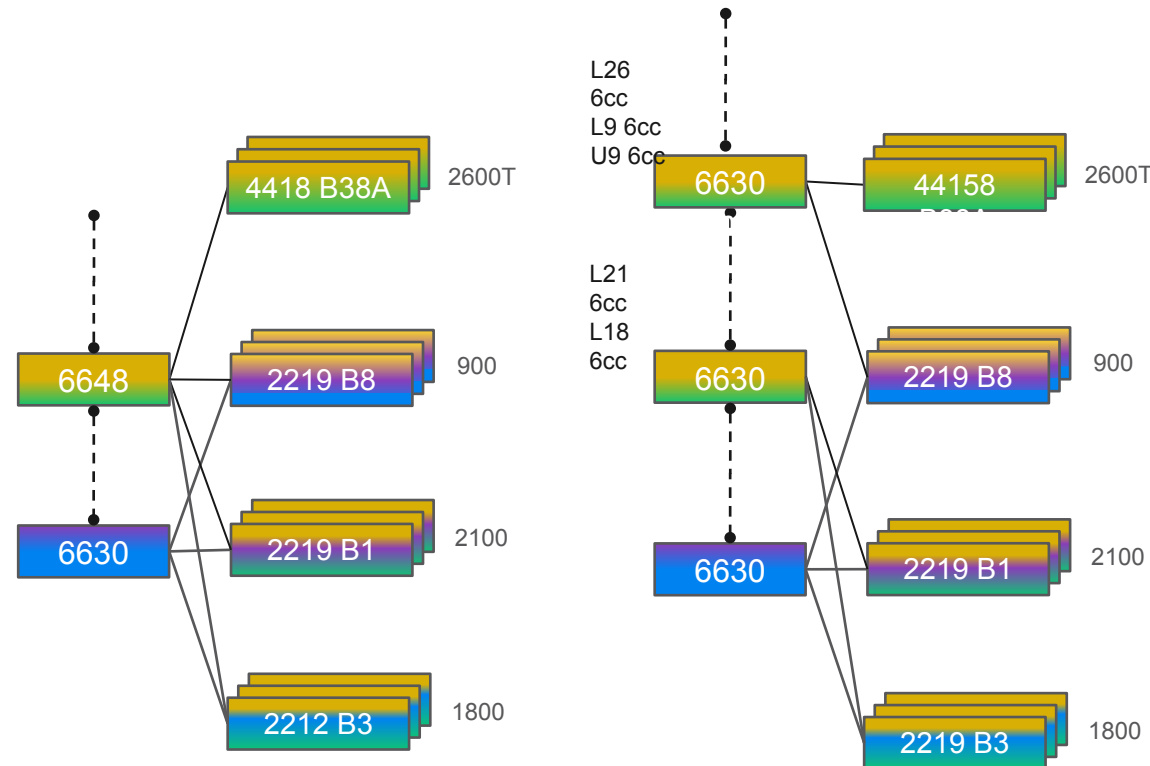
A3.1.1+A1.3.1. KTY

2T2R GWL9, GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR
LTE 24 CC (900 ABW) + NR 24 CC (900 ABW)
LTE+NR FDD 5Mhz HWAC: 42+42
LTE+NR TDD 5Mhz HWAC: 24+24
MHUP: 1

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 24
HUP: 2

Radio Power 20W HWAC: 72
CPRI links: 21
Transport: 10 Gbit



A3.1.1. + A1.3.1. Ivanovo

2T2R GWL9, GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR

LTE 27 CC (540 ABW) + NR 27 CC (540 ABW)

LTE+NR FDD 5Mhz HWAC: 6+6

LTE+NR TDD 5Mhz HWAC: 24+24

HUP: 1

BB 6630 (1) WCDMA+GSM

WCDMA: 15

GSM: 24

HUP: 2

BB 6630 (2) LTE+NR

LTE 12 CC (390 ABW) + NR 12 CC (390 ABW)

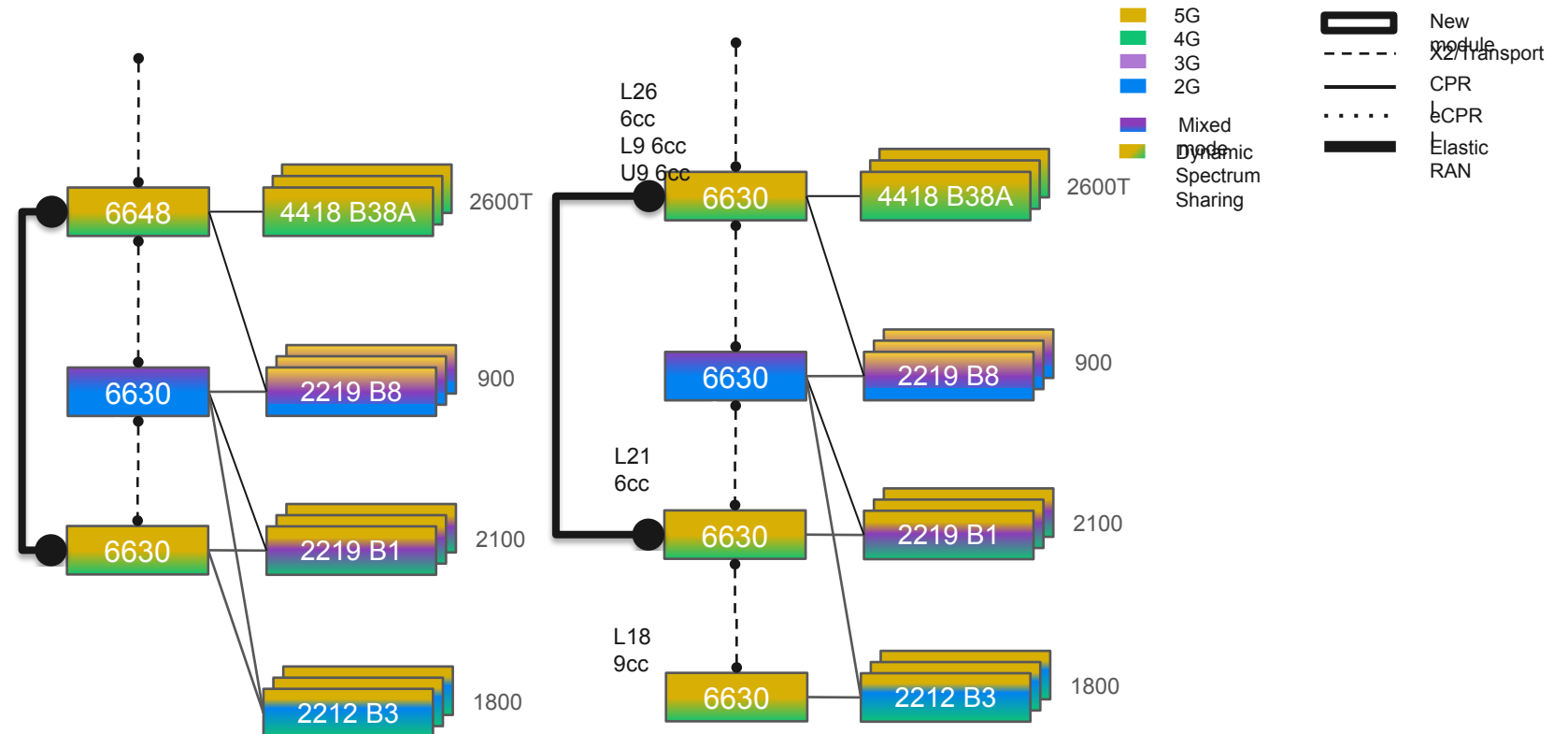
LTE+NR FDD 5Mhz HWAC: 39+39

HUP: 6

Radio Power 20W HWAC: 72

CPRI links: 21

Transport: 10 Gbit ; Xcede cable



A3.1.2.

2T2R WL21

BB 6630 (1) LTE+NR
LTE 3 CC (90 ABW) + NR 3 CC (90 ABW)
LTE+NR FDD 5Mhz HWAC: 9+9
HUP 1

BB 6630 (2) WCDMA
WCDMA: 9
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
CPRI cascade:
Transport: 1 Gbit



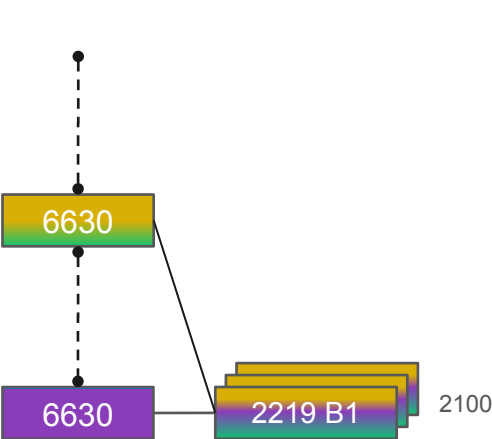
A3.1.2. KTY

2T2R WL21

BB 6630 (1) LTE+NR
LTE 6 CC (180 ABW) + NR 6 CC (180 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 2

BB 6630 (1) WCDMA
WCDMA: 9
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
CPRI cascade:
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

ECPR

Elastic RAN



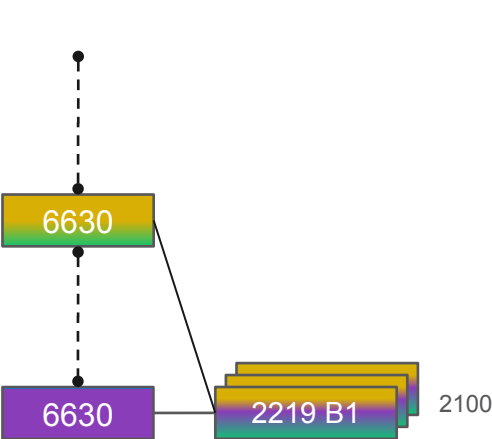
A3.1.2. Ivanovo

2T2R WL21

BB 6630 (1) LTE+NR
LTE 6 CC (180 ABW) + NR 6 CC (180 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 2

BB 6630 (1) WCDMA
WCDMA: 9
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
CPRI cascade:
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPR

Elastic RAN



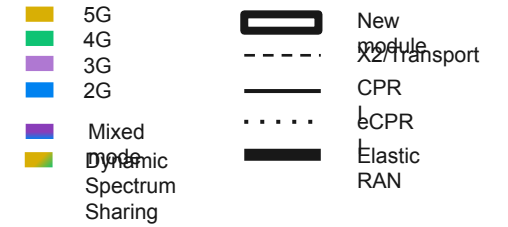
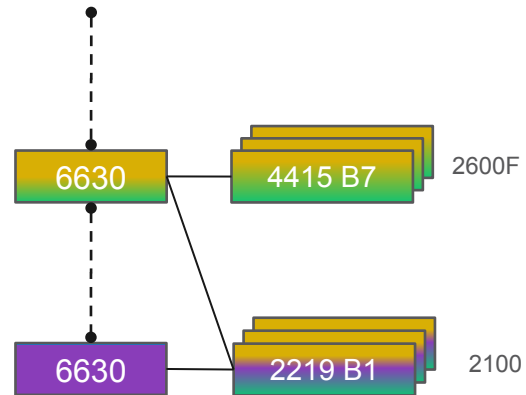
A3.1.2. + A1.2.6.

2T2R WL21; 4T4R L26

BB 6630 (1) LTE+NR
LTE 6 CC (210 ABW) + NR 6 CC (210 ABW)
LTE+NR FDD 5Mhz HWAC: 15+15
HUP 3

BB 6630 (1) WCDMA
WCDMA: 6
HUP: 0

Radio Power 20W HWAC: 36
CPRI links: 9
Transport: 1 Gbit



A3.1.3.

2T2R GWL9

BB 6630 (1) LTE+NR
LTE 6 CC (60 ABW) + NR 6 CC (60 ABW)
LTE+NR FDD 5Mhz HWAC: 6+6
HUP 0

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 12
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
Transport: 1 Gbit



A3.1.3. KTY

2T2R GWL9

BB 6630 (1) LTE+NR
LTE 6 CC (60 ABW) + NR 6 CC (60 ABW)
LTE+NR FDD 5Mhz HWAC: 6+6
HUP 0

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 12
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
Transport: 1 Gbit



A3.1.3. Ivanovo

2T2R GWL9

BB 6630 (1) LTE+NR
LTE 6 CC (60 ABW) + NR 6 CC (60 ABW)
LTE+NR FDD 5Mhz HWAC: 6+6
HUP 0

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 12
HUP: 1

Radio Power 20W HWAC: 15
CPRI links: 6
Transport: 1 Gbit



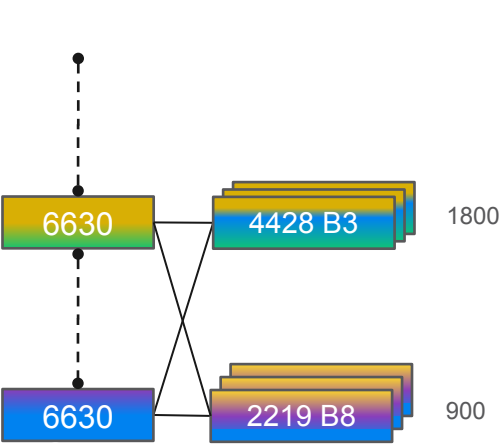
A3.1.3. + A1.2.4.

2T2R GWL9; 4T4R GL18

BB 6630 (1) LTE+NR
LTE 9 CC (300 ABW) + NR 9 CC (300 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 4

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



5G	New module
4G	X2/transport
3G	CPR
2G	ECPR
Mixed	Elastic RAN
Dynamic Spectrum Sharing	

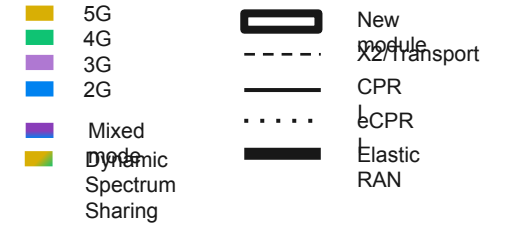
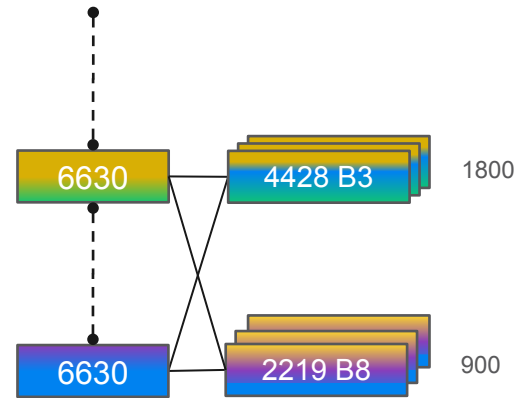
A3.1.3. + A1.2.4. KTY

2T2R GWL9; 4T4R GL18

BB 6630 (1) LTE+NR
LTE 12 CC (420 ABW) + NR 12 CC (420 ABW)
LTE+NR FDD 5Mhz HWAC: 24+24
HUP 6

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



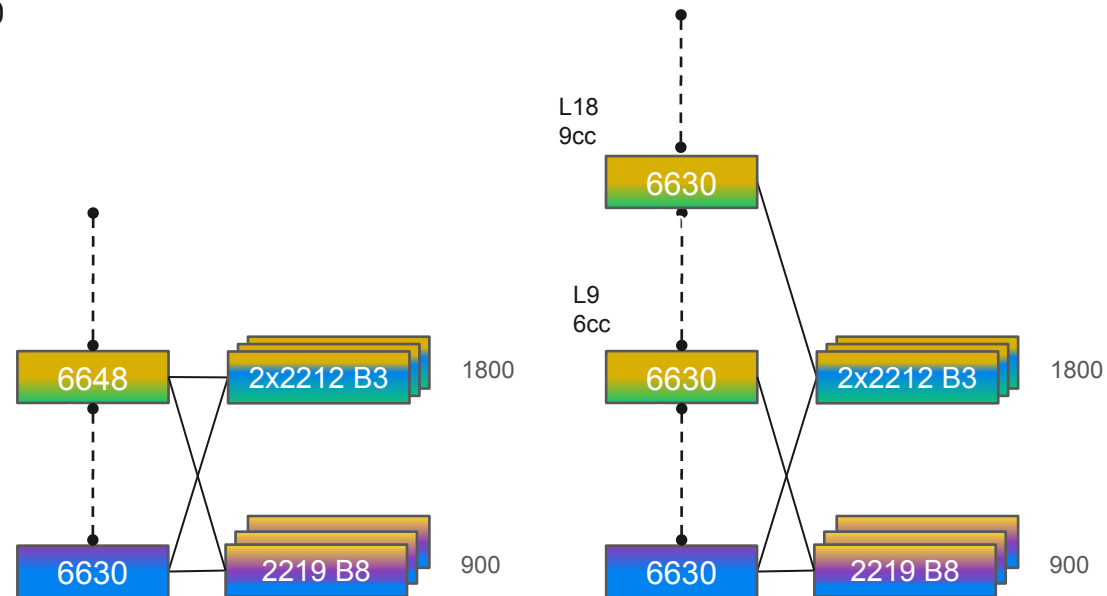
A3.1.3. + A1.2.4. Ivanovo

2T2R GWL9; 4T4R GL18

BB 6648 (1) LTE+NR
LTE 15 CC (480 ABW) + NR 15 CC (480 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
MHUP 0

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 60
CPRI links: 12
CPRI cascade: 3
Transport: 1 Gbit



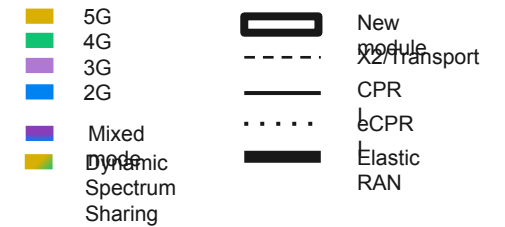
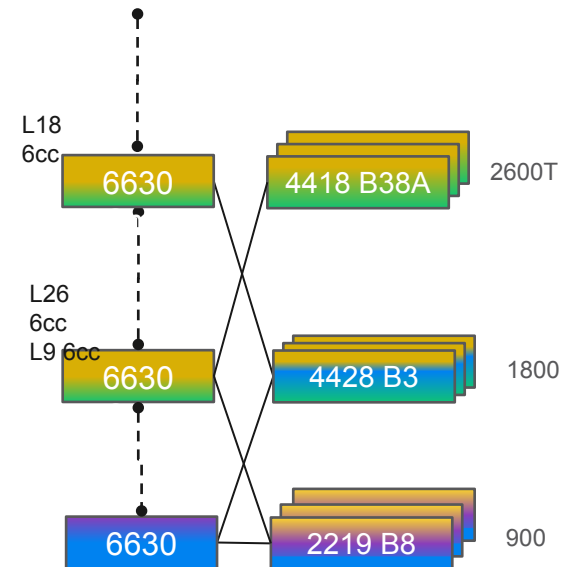
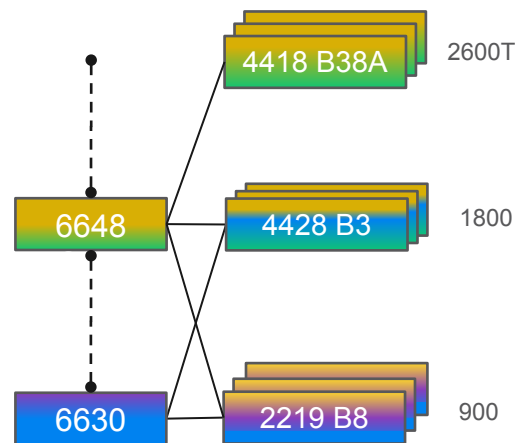
A3.1.3. + A1.2.4. + A1.3.1. KTY

2T2R GWL9; 4T4R GL18, L26T

BB 6648 (1) LTE+NR
LTE 18 CC (900 ABW) + NR 18 CC (900 ABW)
LTE+NR FDD 5Mhz HWAC: 24+24
LTE+NR TDD 5Mhz HWAC: 24+24
MHUP 1

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 1 Gbit



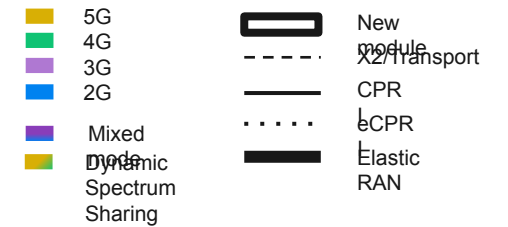
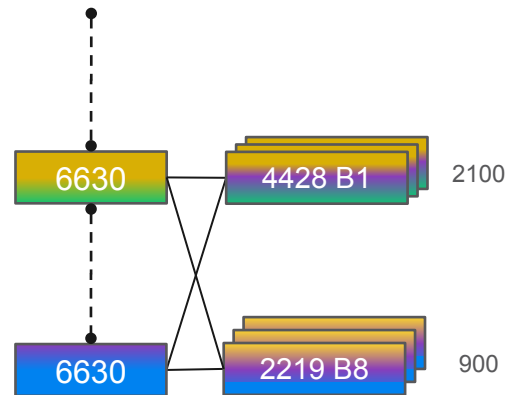
A3.1.3. + A1.2.5.

2T2R GWL9; 4T4R WL21

BB 6630 (1) LTE+NR
LTE 9 CC (240 ABW) + NR 9 CC (240 ABW)
LTE+NR FDD 5Mhz HWAC: 15+15
HUP 3

BB 6630 (2) WCDMA+GSM
WCDMA: 15
GSM: 12
HUP: 2

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



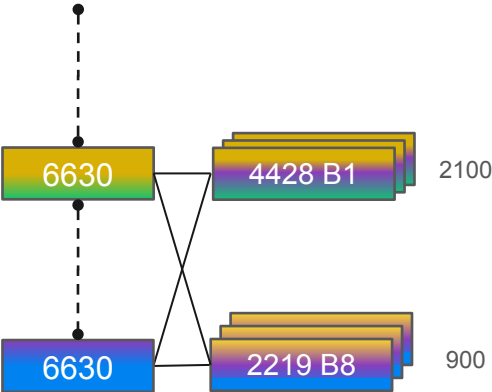
A3.1.3. + A1.2.5. KTY

2T2R GWL9; 4T4R WL21

BB 6630 (1) LTE+NR
LTE 12 CC (420 ABW) + NR 12 CC (420 ABW)
LTE+NR FDD 5Mhz HWAC: 24+24
HUP 6

BB 6630 (2) WCDMA+GSM
WCDMA: 15
GSM: 12
HUP: 2

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

ECPR

Elastic RAN

A3.1.3. + A1.2.5. Ivanovo

2T2R GWL9; 4T4R WL21

BB 6630 (1) LTE+NR

LTE 12 CC (420 ABW) + NR 12 CC (420 ABW)

LTE+NR FDD 5Mhz HWAC: 24+24

HUP 6

BB 6630 (2) WCDMA+GSM

WCDMA: 15

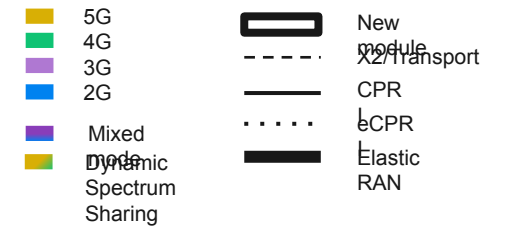
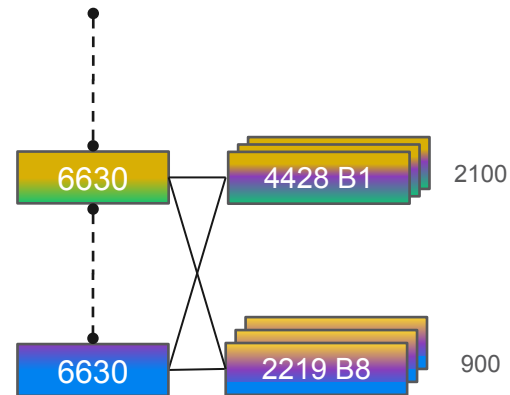
GSM: 12

HUP: 2

Radio Power 20W HWAC: 36

CPRI links: 12

Transport: 1 Gbit



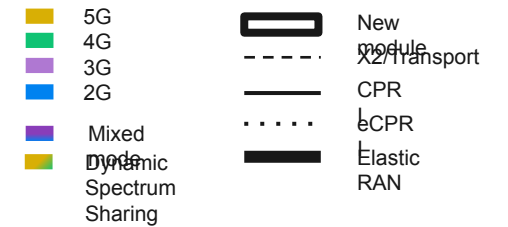
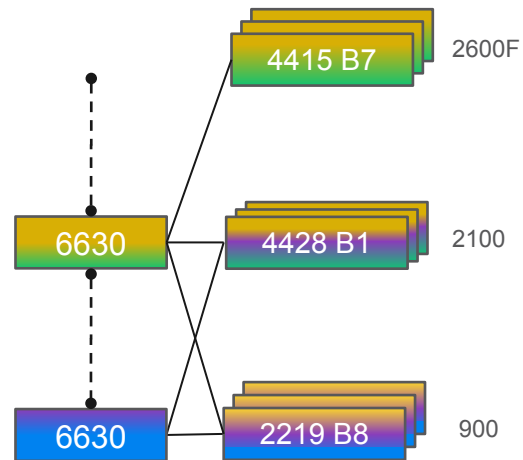
A3.1.3. + A1.2.5. + A1.2.6.

2T2R GWL9; 4T4R WL21, L26F

BB 6630 (1) LTE+NR
LTE 12 CC (360 ABW) + NR 12 CC (360 ABW)
LTE+NR FDD 5Mhz HWAC: 21+21
HUP 5

BB 6630 (1) WCDMA+GSM
WCDMA: 15
GSM: 12
HUP: 2

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



A3.1.3. + A1.2.5. + A1.2.6. KTY

2T2R GWL9; 4T4R WL21, L26F

BB 6648 (1) LTE+NR

LTE 18 CC (660 ABW) + NR 18 CC (660 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

HUP 3

BB 6630 (1) WCDMA+GSM

WCDMA: 15

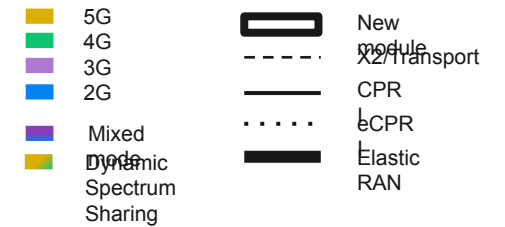
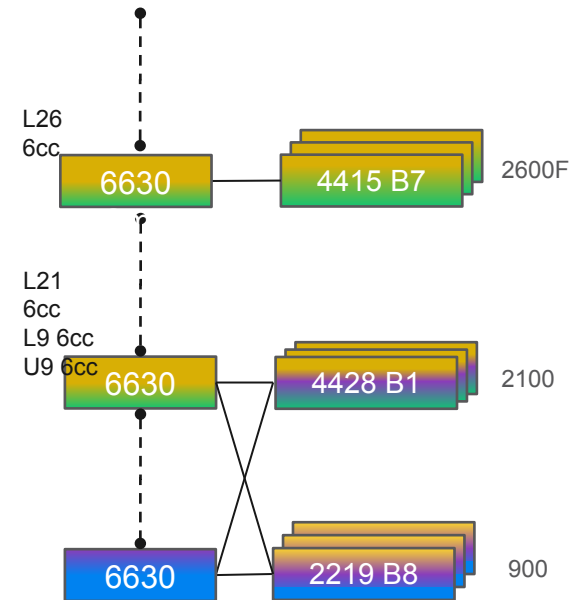
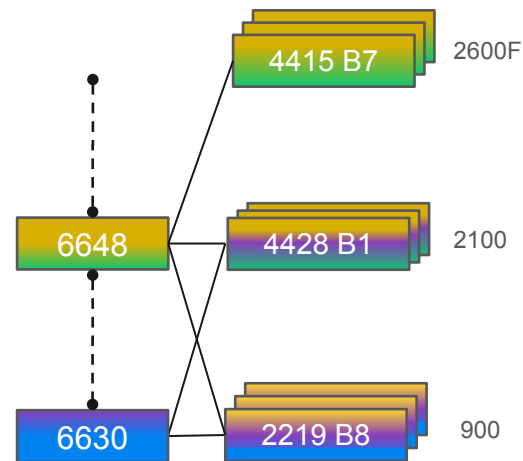
GSM: 12

HUP: 2

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 10 Gbit



A3.1.3. + A1.2.5. + A1.3.1.

2T2R GWL9; 4T4R WL21, L26T

BB 6648 (1) LTE+NR

LTE 12 CC (480 ABW) + NR 12 CC (480 ABW)

LTE+NR FDD 5Mhz HWAC: 15+15

LTE+NR TDD 5Mhz HWAC: 12+12

MHUP 0

BB 6630 (1) WCDMA+GSM

WCDMA: 15

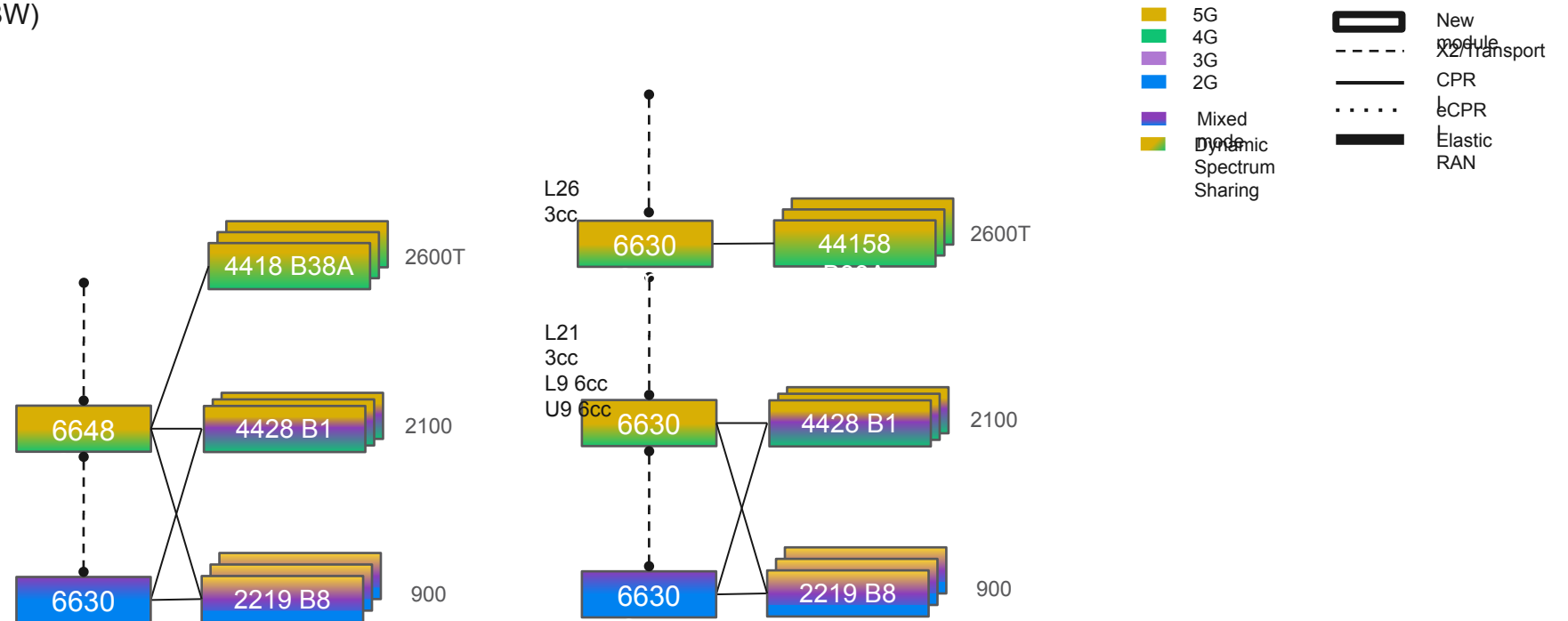
GSM: 12

HUP: 2

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 10 Gbit



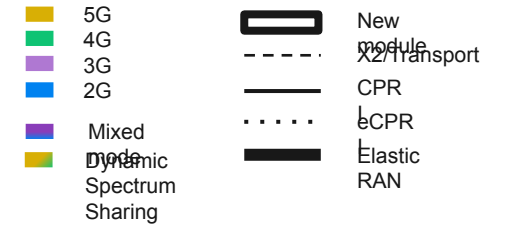
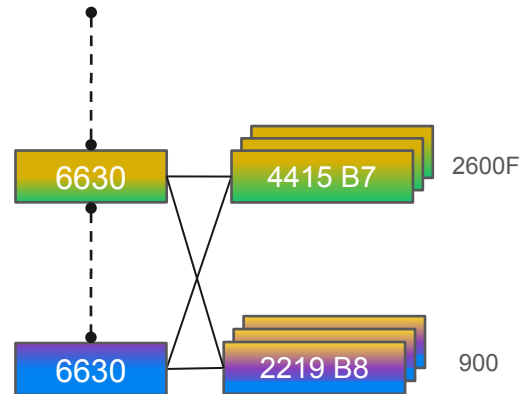
A3.1.3. + A1.2.6.

2T2R GWL9; 4T4R L26T

BB 6630 (1) LTE+NR
LTE 9 CC (180 ABW) + NR 9 CC (180 ABW)
LTE+NR FDD 5Mhz HWAC: 12+12
HUP 2

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 12
HUP: 1

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



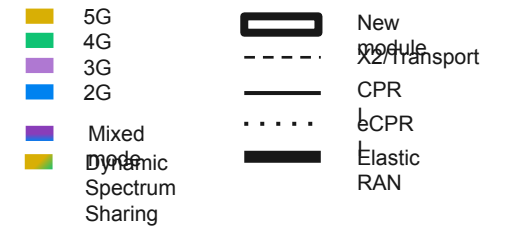
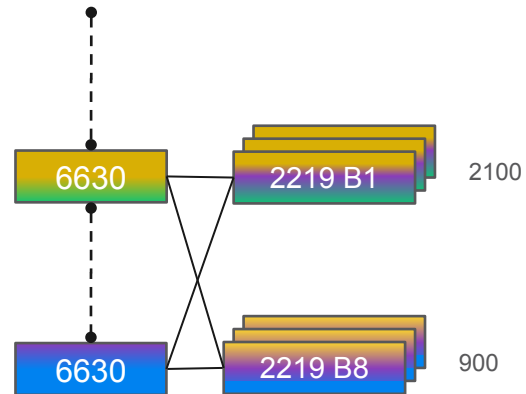
A3.1.3. + A3.1.2.

2T2R GWL9, WL21

BB 6630 (1) LTE+NR
LTE 9 CC (150 ABW) + NR 9 CC (150 ABW)
LTE+NR FDD 5Mhz HWAC: 15+15
HUP 2

BB 6630 (2) WCDMA+GSM
WCDMA: 15
GSM: 12
HUP: 2

Radio Power 20W HWAC: 30
CPRI links: 12
Transport: 1 Gbit



A3.1.3. + A3.1.2. KTY

2T2R GWL9, WL21

BB 6630 (1) LTE+NR

LTE 12 CC (240 ABW) + NR 12 CC (240 ABW)

LTE+NR FDD 5Mhz HWAC: 24+24

HUP 3

BB 6630 (2) WCDMA+GSM

WCDMA: 15

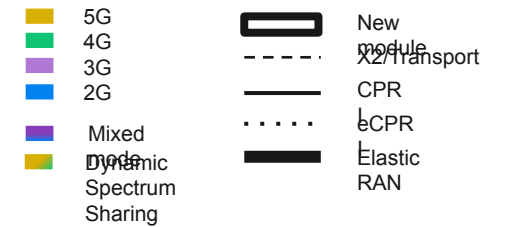
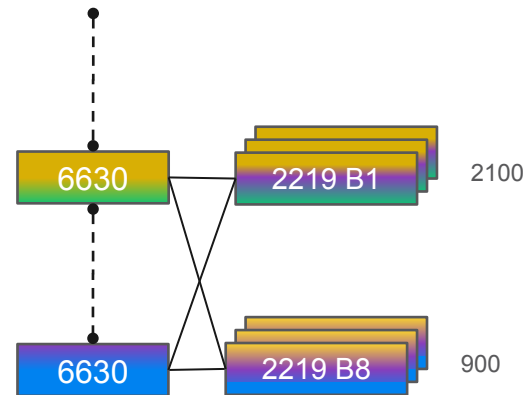
GSM: 12

HUP: 2

Radio Power 20W HWAC: 30

CPRI links: 12

Transport: 1 Gbit



A3.1.3. + A3.1.2. Ivanovo

2T2R GWL9, WL21

BB 6630 (1) LTE+NR

LTE 12 CC (240 ABW) + NR 12 CC (240 ABW)

LTE+NR FDD 5Mhz HWAC: 24+24

HUP 3

BB 6630 (2) WCDMA+GSM

WCDMA: 15

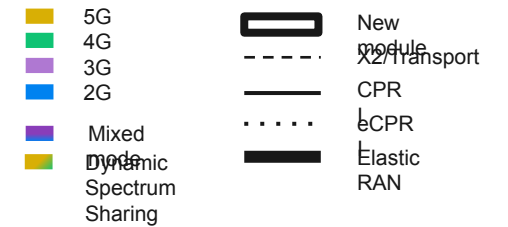
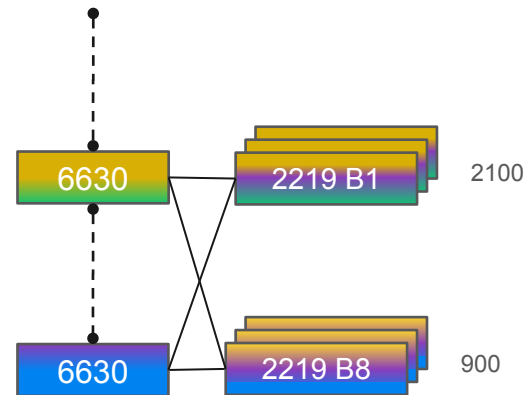
GSM: 12

HUP: 2

Radio Power 20W HWAC: 30

CPRI links: 12

Transport: 1 Gbit



A3.1.3. + A3.1.2. + A1.2.6.

2T2R GWL9, WL21; 4T4R L26F

BB 6630 (1) LTE+NR

LTE 12 CC (270 ABW) + NR 12 CC (270ABW)

LTE+NR FDD 5Mhz HWAC: 21+21

HUP 4

BB 6630 (2) WCDMA+GSM

WCDMA: 15

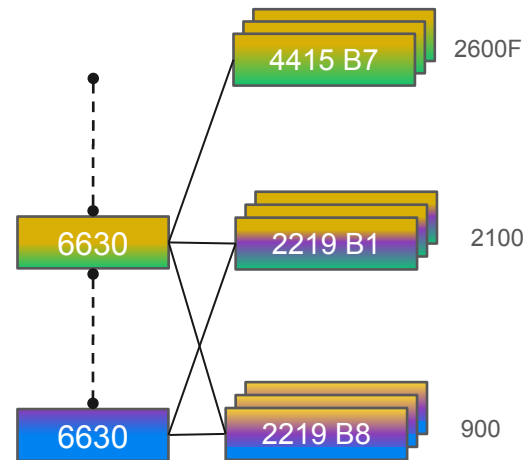
GSM: 12

HUP: 2

Radio Power 20W HWAC: 51

CPRI links: 15

Transport: 1 Gbit



5G
4G
3G
2G
Mixed
Dynamic
Spectrum
Sharing

New
module
X2/transport
CPR
eCPR
Elastic
RAN

A3.1.3. + A3.1.2. + A1.2.6. KTY

2T2R GWL9, WL21; 4T4R L26F

BB 6648 (1) LTE+NR

LTE 18 CC (480 ABW) + NR 18 CC (480 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

MHUP 0

BB 6630 (1) WCDMA+GSM

WCDMA: 15

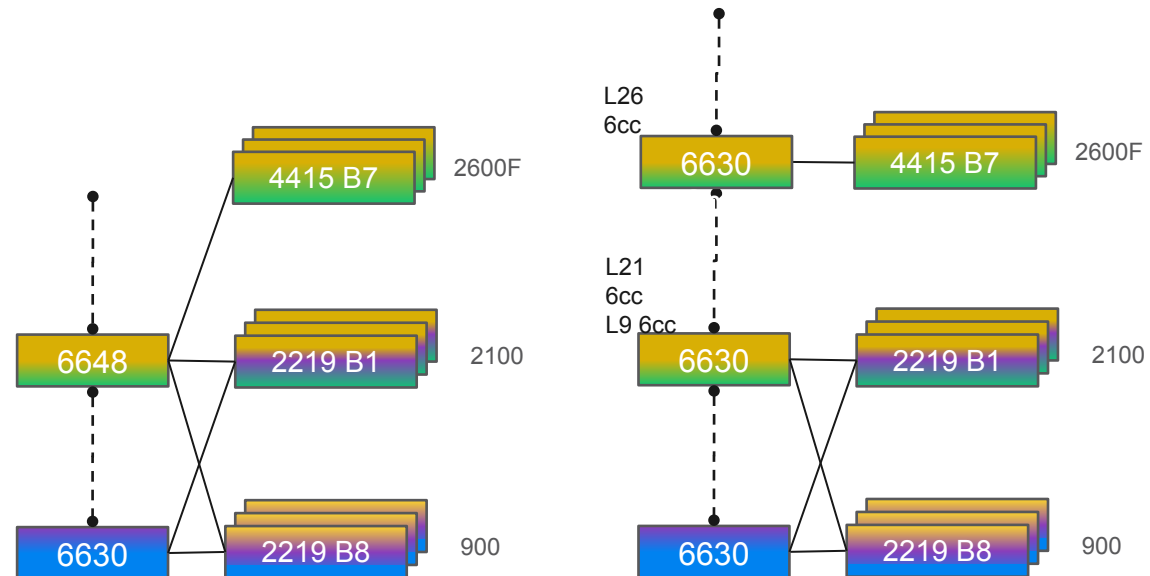
GSM: 12

HUP: 2

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 10 Gbit



A3.1.3. + A3.1.2. + A1.2.6. + A1.3.1.

2T2R GWL9, WL21; 4T4R L26F, L26T

BB 6648 (1) LTE+NR

LTE 15 CC (510 ABW) + NR 15 CC (510 ABW)

LTE+NR FDD 5Mhz HWAC: 21+21

LTE+NR TDD 5Mhz HWAC: 12+12

HUP 0

BB 6630 (1) WCDMA+GSM

WCDMA: 15

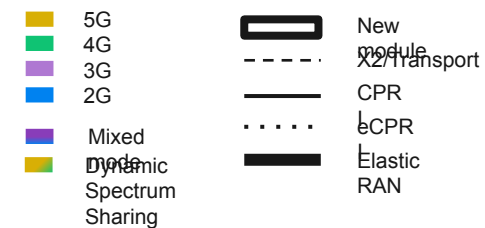
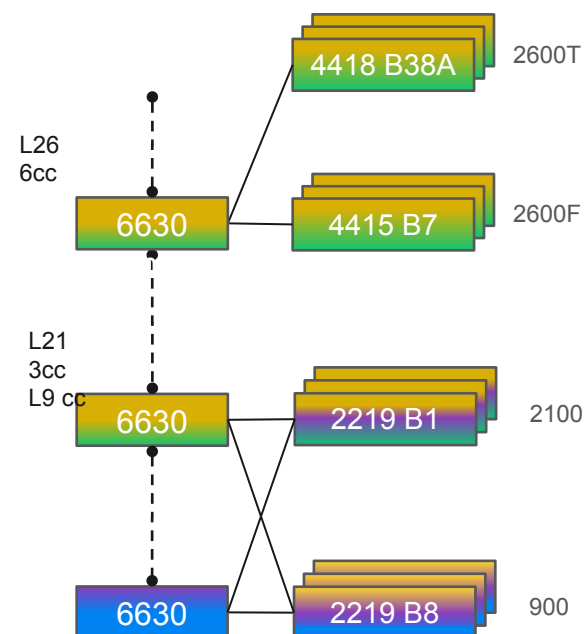
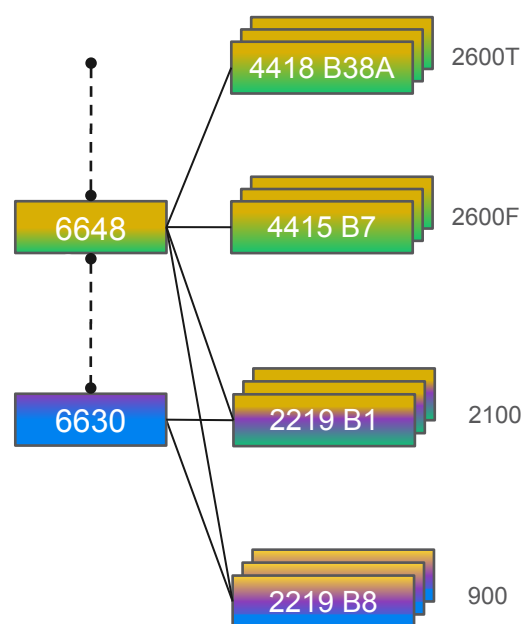
GSM: 12

HUP: 2

Radio Power 20W HWAC: 78

CPRI links: 18

Transport: 10 Gbit



A3.1.3. + A3.1.2. + A1.3.1.

2T2R GWL9, WL21; 4T4R L26T

BB 6648 (1) LTE+NR

LTE 12 CC (390 ABW) + NR 12 CC (390ABW)

LTE+NR FDD 5Mhz HWAC: 15+15

LTE+NR TDD 5Mhz HWAC: 12+12

HUP 0

BB 6630 (2) WCDMA+GSM

WCDMA: 15

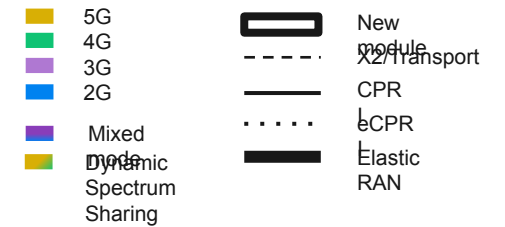
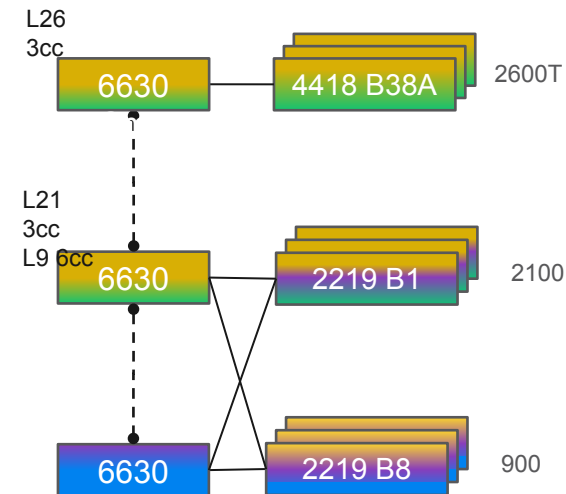
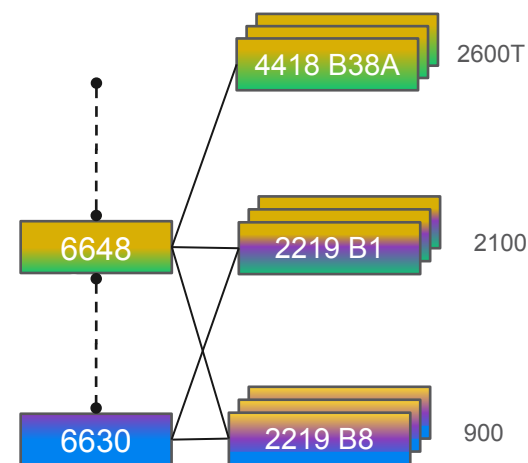
GSM: 12

HUP: 2

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 1 Gbit



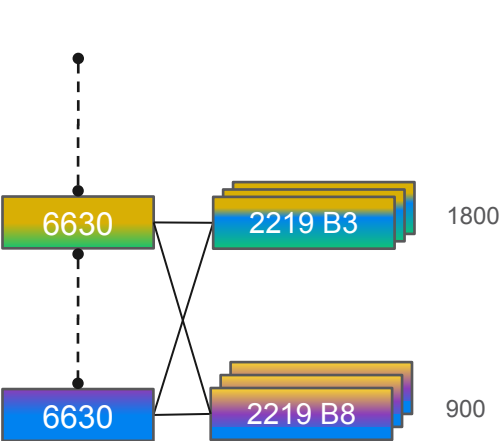
A3.1.3. + A3.1.5.

2T2R GWL9, GL18

BB 6630 (1) LTE+NR
LTE 9 CC (180 ABW) + NR 9 CC (180 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 2

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

ECPR

Elastic RAN

A3.1.3. + A3.1.5. KTY

2T2R GWL9, GL18

BB 6630 (1) LTE+NR

LTE 12 CC (240 ABW) + NR 12 CC (240 ABW)

LTE+NR FDD 5Mhz HWAC: 24+24

HUP 3

BB 6630 (2) WCDMA+GSM

WCDMA: 6

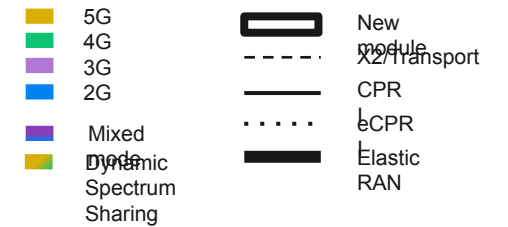
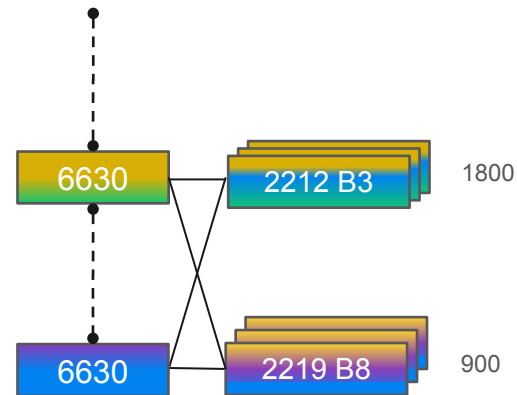
GSM: 24

HUP: 1

Radio Power 20W HWAC: 36

CPRI links: 12

Transport: 1 Gbit



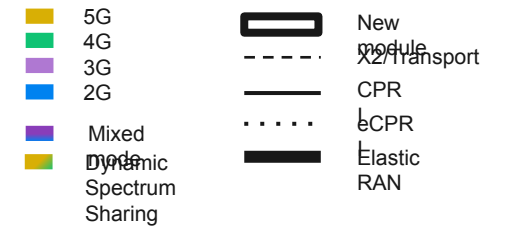
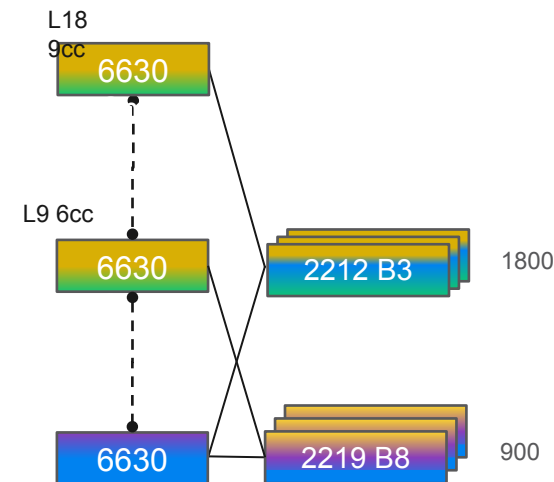
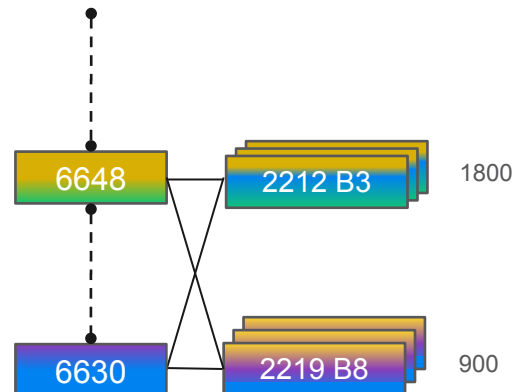
A3.1.3. + A3.1.5. Ivanovo

2T2R GWL9, GL18

BB 6648 (1) LTE+NR
LTE 15 CC (270 ABW) + NR 15 CC (270 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
HUP 0

BB 6630 (1) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



A3.1.3. + A3.1.5. + A1.2.6. KTY

2T2R GWL9, GL18; 4T4R L26F

BB 6648 (1) LTE+NR

LTE 18 CC (480 ABW) + NR 18 CC (480 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

MHUP 0

BB 6630 (2) WCDMA+GSM

WCDMA: 6

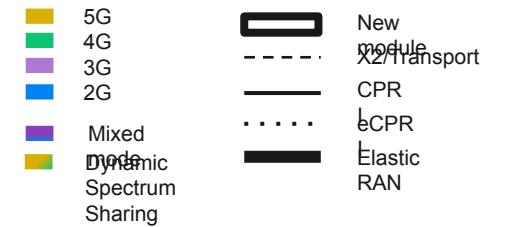
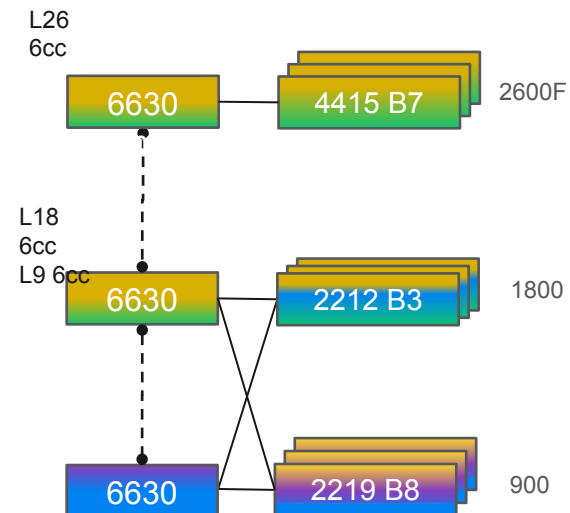
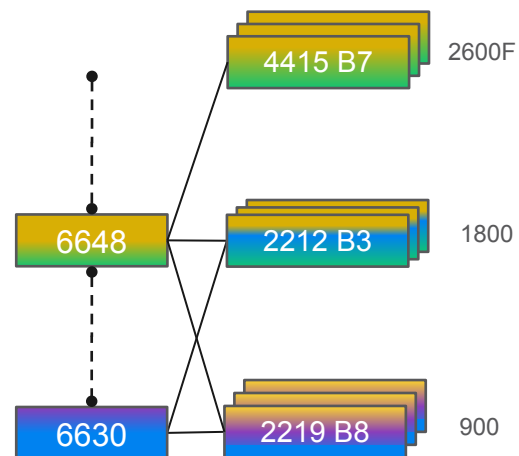
GSM: 24

HUP: 1

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 1 Gbit



~~BB 6648 (I) LTE+NM~~

LTE 24 CC (960 ABW) + NR 24 CC (960 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

LTE+NR FDD 5Mhz HWAC: 24+24

MHUP 1

BB 6630 (2) WCDMA+GSM

WCDMA: 6

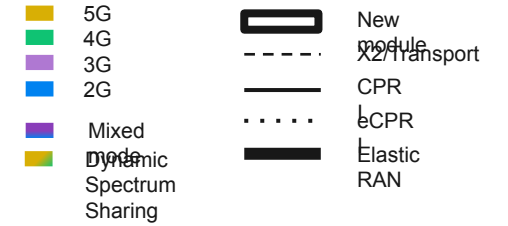
GSM: 24

HUP: 1

Radio Power 20W HWAC: 78

CPRI links: 18

Transport: 10 Gbit



-  5G
-  4G
-  3G
-  2G
-  Mixed
-  Dynamic Spectrum Sharing

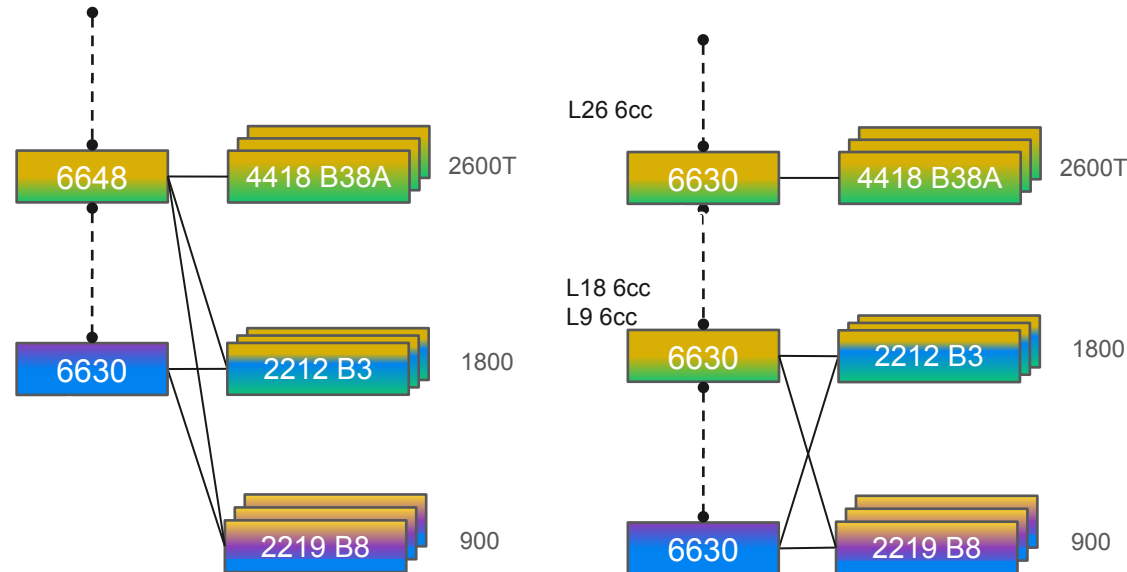
A3.1.3. + A3.1.5. + A1.3.1. KTY

2T2R GWL9, GL18; 4T4R L26T

BB 6648 (1) LTE+NR
LTE 18 CC (720 ABW) + NR 18 CC (720 ABW)
LTE+NR FDD 5Mhz HWAC: 24+24
LTE+NR FDD 5Mhz HWAC: 24+24
HUP 4

BB 6630 (2) WCDMA+GSM
WCDMA: 6
GSM: 24
HUP: 1

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



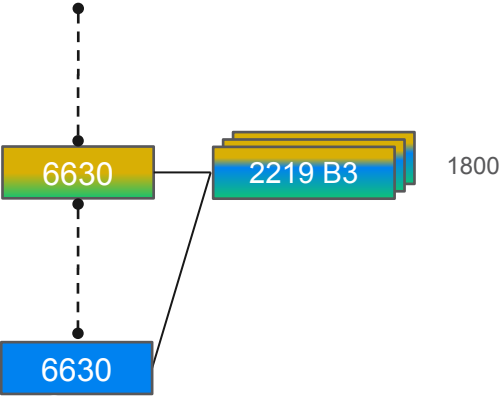
A3.1.5.

2T2R GL18

BB 6630 (1) LTE+NR
LTE 3 CC (120 ABW) + NR 3 CC (120 ABW)
LTE+NR FDD 5Mhz HWAC: 12+12
HUP 1

BB 6630 (2) GSM
GSM: 12

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPRI

Elastic RAN



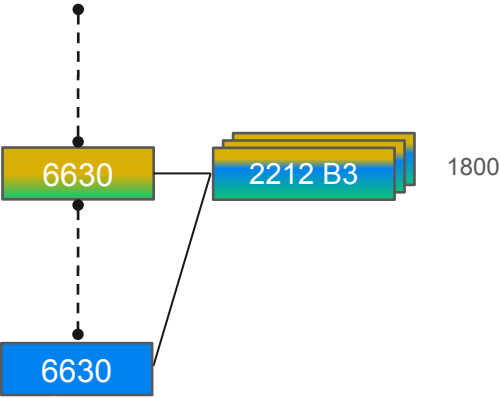
A3.1.5. KTY

2T2R GL18

BB 6630 (1) LTE+NR
LTE 6 CC (180 ABW) + NR 6 CC (180 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 2

BB 6630 (2) GSM
GSM: 12

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPR

Elastic RAN

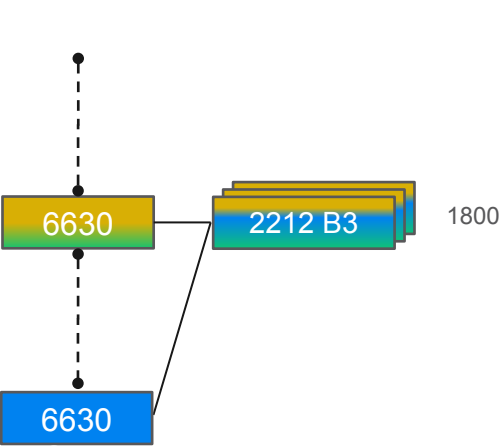
A3.1.5. Ivanovo

2T2R GL18

BB 6630 (1) LTE+NR
LTE 9 CC (210 ABW) + NR 9 CC (210 ABW)
LTE+NR FDD 5Mhz HWAC: 21+21
HUP 3

BB 6630 (2) GSM
GSM: 12

Radio Power 20W HWAC: 21
CPRI links: 6
Transport: 1 Gbit



	5G		New module
	4G		X2/transport
	3G		CPRI
	2G		LCPRI
	Mixed		Elastic RAN
	Dynamic Spectrum Sharing		

A3.1.5. + A1.2.6.

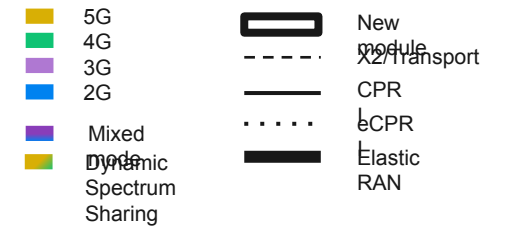
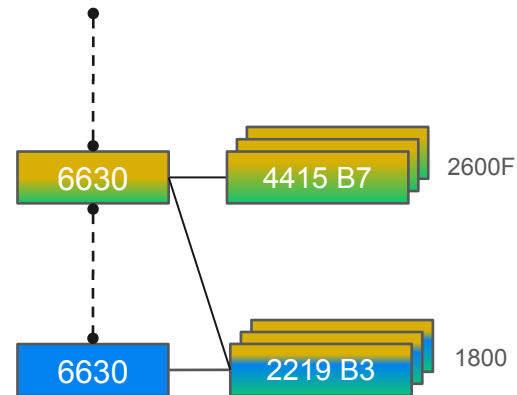
2T2R GL18; 4T4R L26

BB 6630 (1) LTE+NR
LTE 6 CC (240 ABW) + NR 6 CC (240 ABW)
LTE+NR FDD 5Mhz HWAC: 18+18
HUP 3

BB 6630 (2) GSM
GSM: 12

Radio Power 20W HWAC: 57

CPRI links: 9
Transport: 1 Gbit



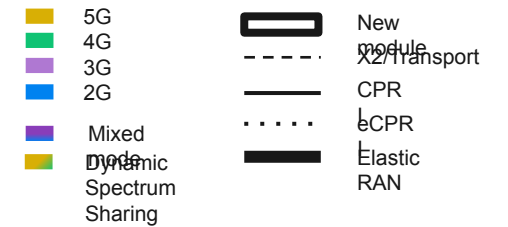
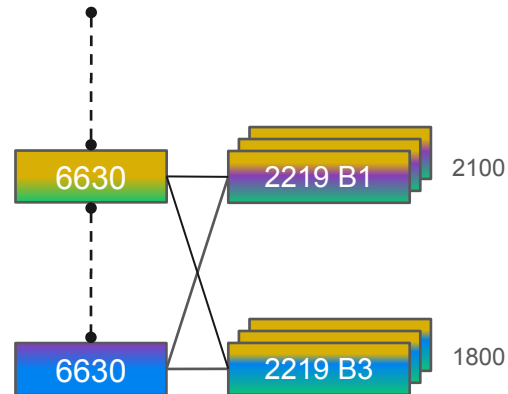
A3.1.5. + A3.1.2.

2T2R GL18, WL21

BB 6630 (1) LTE+NR
LTE 6 CC (210 ABW) + NR 6 CC (210 ABW)
LTE+NR FDD 5Mhz HWAC: 21+21
HUP 3

BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



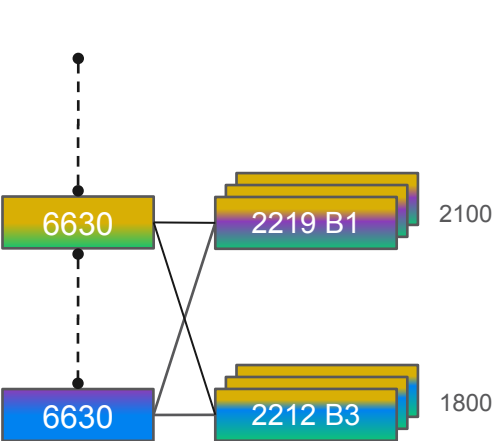
A3.1.5. + A3.1.2. KTY

2T2R GL18, WL21

BB 6630 (1) LTE+NR
LTE 12 CC (360 ABW) + NR 12 CC (360 ABW)
LTE+NR FDD 5Mhz HWAC: 36+36
HUP 5

BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 36
CPRI links: 12
Transport: 1 Gbit



A3.1.5. + A3.1.2. Ivanovo

2T2R GL18, WL21

BB 6648 (1) LTE+NR

LTE 15 CC (390 ABW) + NR 15 CC (390 ABW)

LTE+NR FDD 5Mhz HWAC: 39+39

HUP 0

BB 6630 (1) WCDMA+GSM

WCDMA: 9

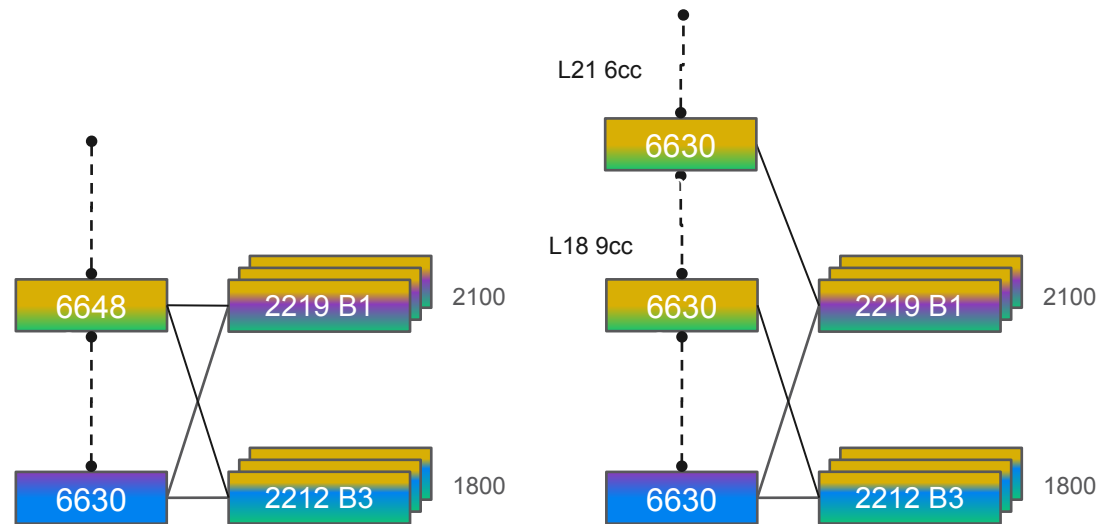
GSM: 12

HUP: 2

Radio Power 20W HWAC: 36

CPRI links: 12

Transport: 1 Gbit



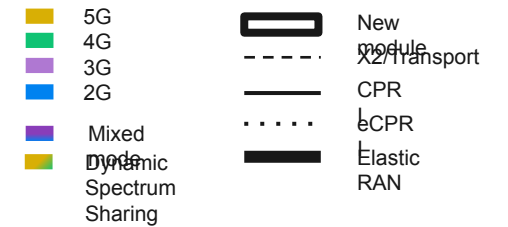
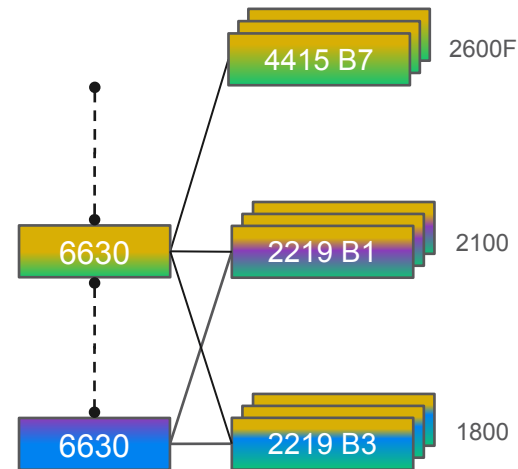
A3.1.5. + A3.1.2. + A1.2.6.

2T2R GL18, WL21; 4T4R L26F

BB 6630 (1) LTE+NR
LTE 9 CC (330 ABW) + NR 9 CC (330 ABW)
LTE+NR FDD 5Mhz HWAC: 27+27
HUP 5

BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



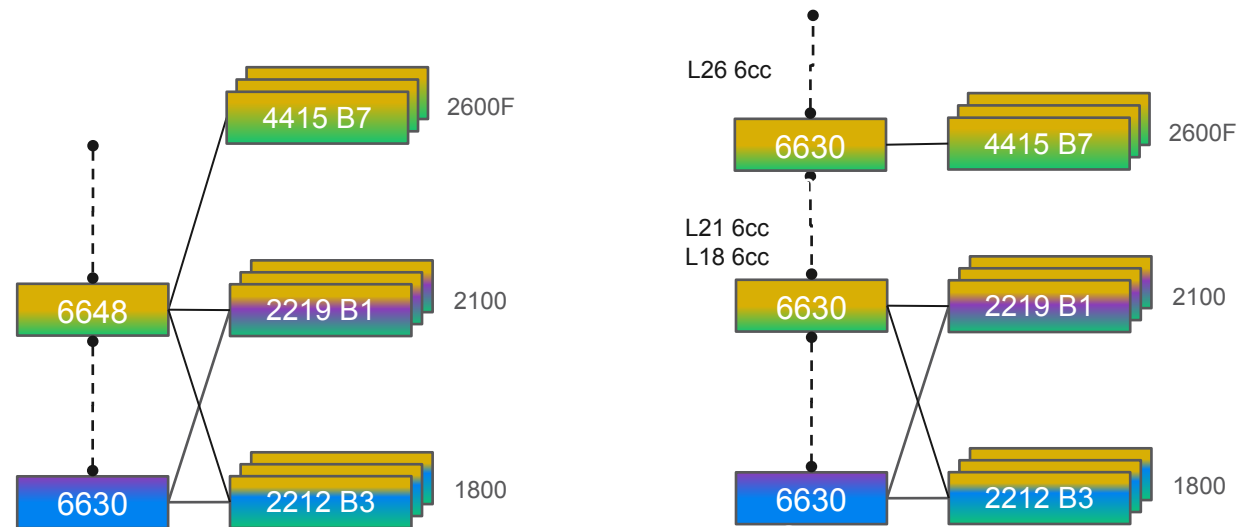
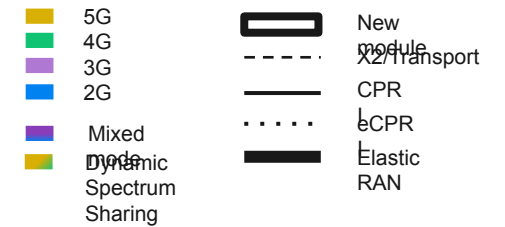
A3.1.5. + A3.1.2. + A1.2.6. KTY

2T2R GL18, WL21; 4T4R L26F

BB 6648 (1) LTE+NR
LTE 18 CC (600 ABW) + NR 18 CC (600 ABW)
LTE+NR FDD 5Mhz HWAC: 48+48
HUP 2

BB 6630 (1) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



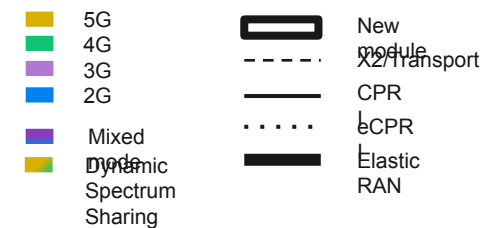
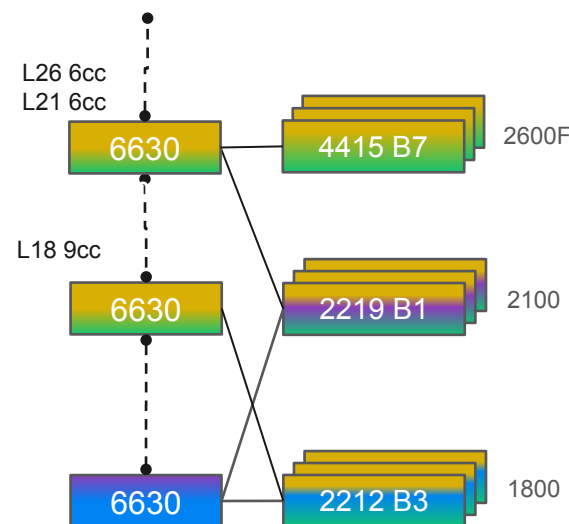
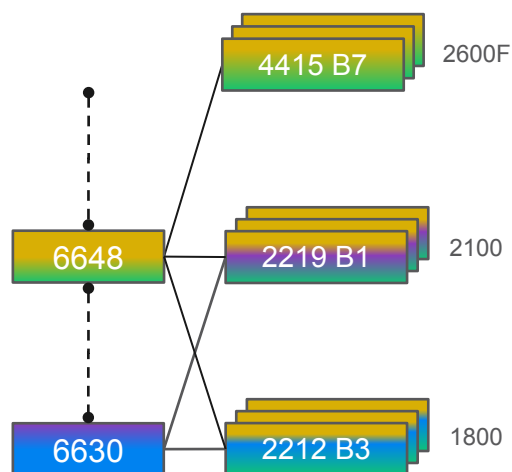
A3.1.5. + A3.1.2. + A1.2.6. Ivanovo

2T2R GL18, WL21; 4T4R L26F

BB 6648 (1) LTE+NR
LTE 21 CC (630 ABW) + NR 21 CC (630 ABW)
LTE+NR FDD 5Mhz HWAC: 51+51
HUP 3

BB 6630 (1) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



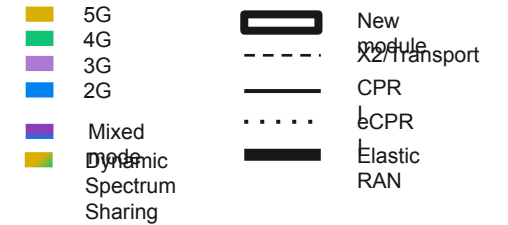
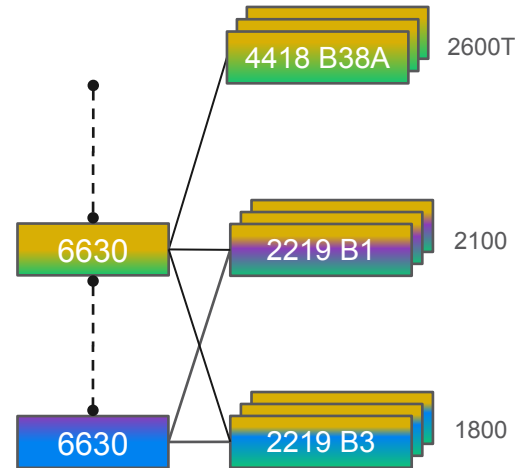
A3.1.5. + A3.1.2. + A1.3.1.

2T2R GL18, WL21; 4T4R L26T

BB 6630 (1) LTE+NR
LTE 9 CC (450 ABW) + NR 9 CC (450 ABW)
LTE+NR FDD 5Mhz HWAC: 21+21
LTE+NR FDD 5Mhz HWAC: 12+12
MHUP 1

BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 57
CPRI links: 15
Transport: 10 Gbit



A3.1.5. + A3.1.2. + A1.3.1. KTY

2T2R GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR

LTE 18 CC (840 ABW) + NR 18 CC (840 ABW)

LTE+NR FDD 5Mhz HWAC: 36+36

LTE+NR FDD 5Mhz HWAC: 24+24

MHUP 1

BB 6630 (2) WCDMA+GSM

WCDMA: 9

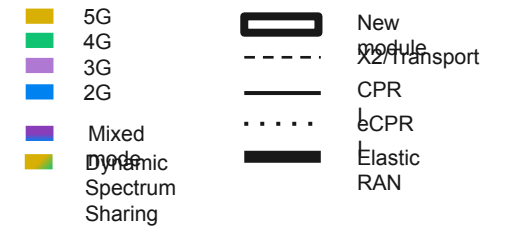
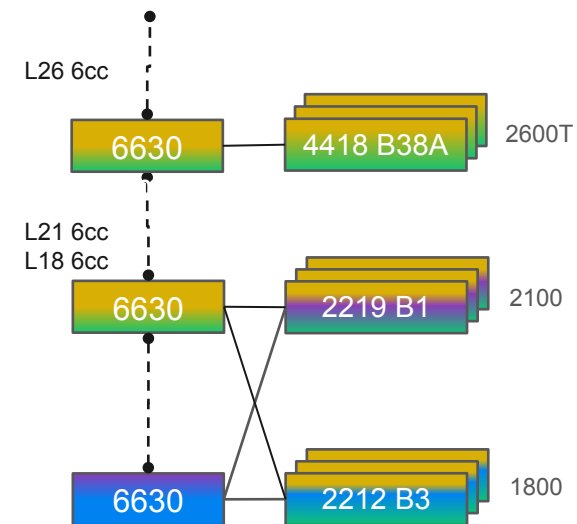
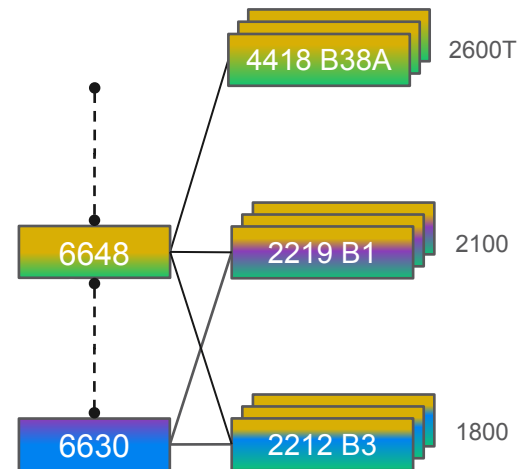
GSM: 12

HUP: 2

Radio Power 20W HWAC: 57

CPRI links: 15

Transport: 10 Gbit



A3.1.5. + A3.1.2. + A1.3.1. + A1.2.6.

2T2R GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR

LTE 12 CC (570 ABW) + NR 12 CC (570 ABW)

LTE+NR FDD 5Mhz HWAC: 27+27

LTE+NR FDD 5Mhz HWAC: 12+12

HUP 2

BB 6630 (2) WCDMA+GSM

WCDMA: 9

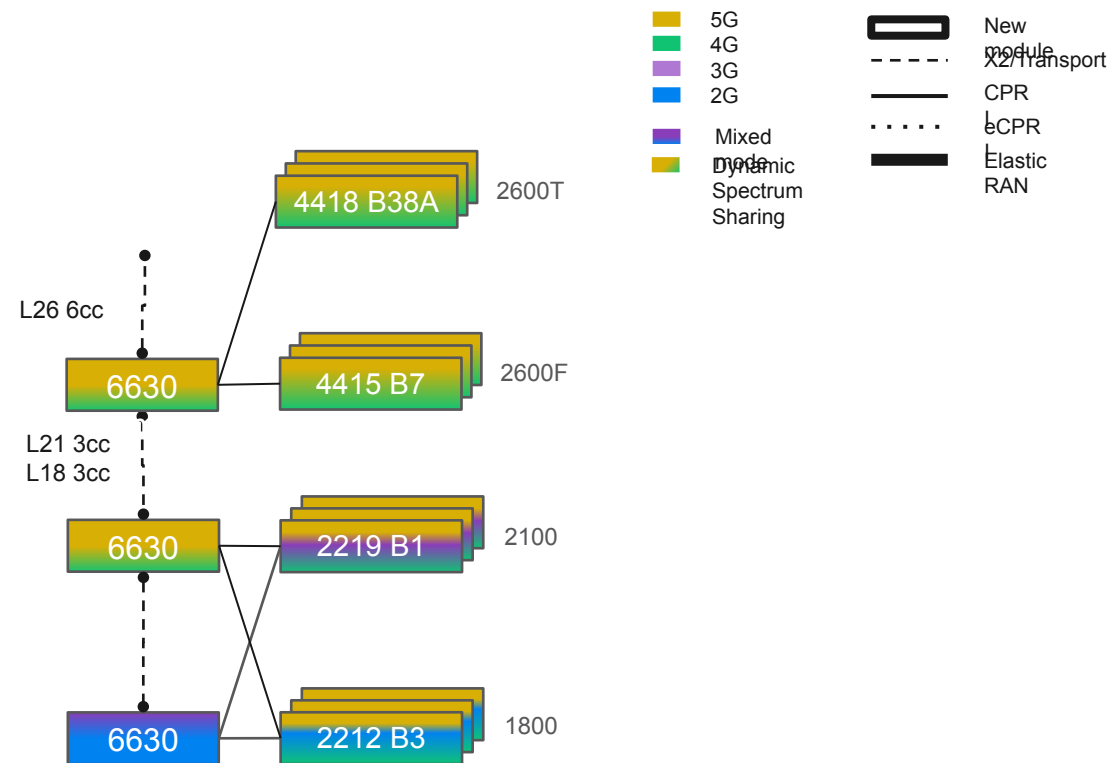
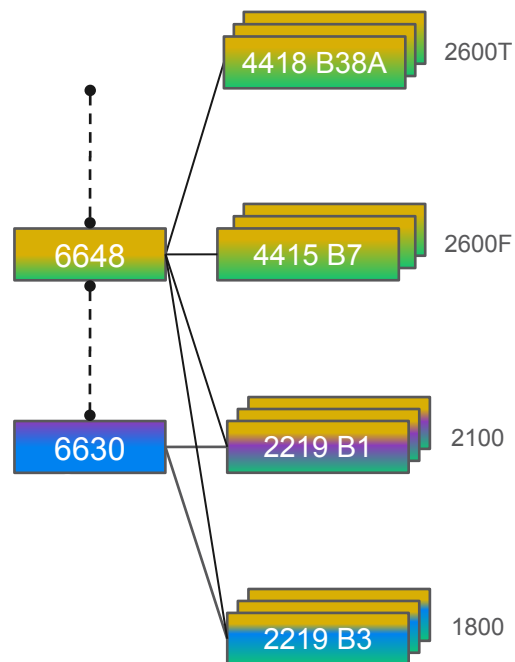
GSM: 12

HUP: 2

Radio Power 20W HWAC: 78

CPRI links: 18

Transport: 10 Gbit



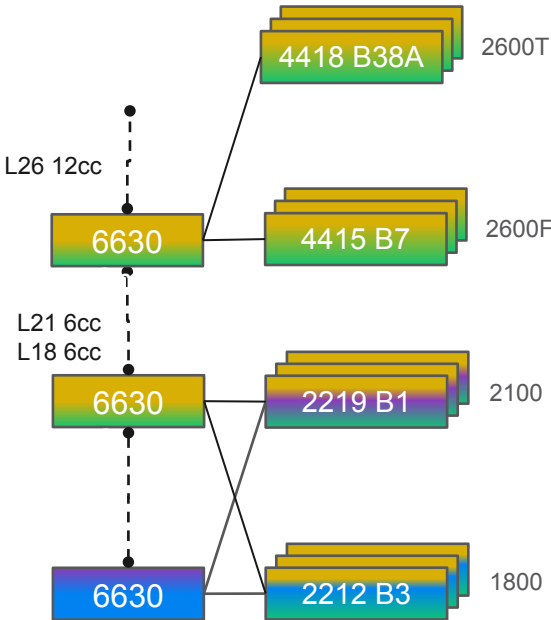
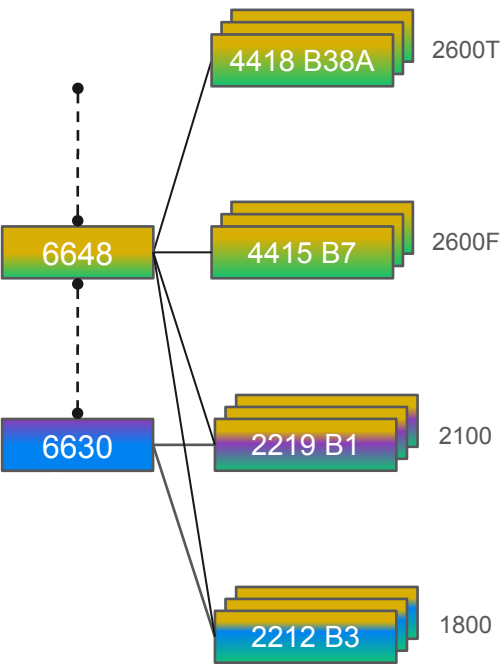
A3.1.5. + A3.1.2. + A1.3.1. + A1.2.6. KTY

2T2R GL18, WL21; 4T4R L26T

BB 6648 (1) LTE+NR
LTE 24 CC (1080 ABW) + NR 24 CC (1080 ABW)
LTE+NR FDD 5Mhz HWAC: 48+48
LTE+NR FDD 5Mhz HWAC: 24+24
MHUP 1
HUP 2

BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 78
CPRI links: 18
Transport: 10 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

ECPR

Elastic RAN

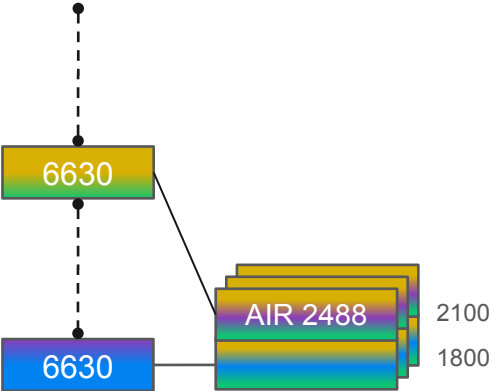
A3.1.6. KTY

2T2R GL18 , WL21

BB 6630 (1) LTE+NR
LTE 12 CC (360 ABW) + NR 12 CC (360 ABW)
LTE+NR FDD 5Mhz HWAC: 36+36
HUP 5

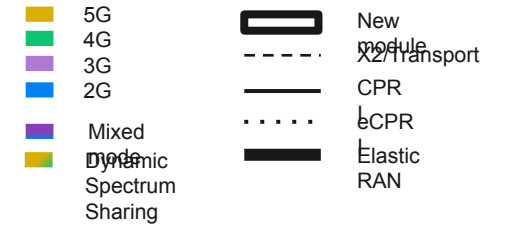
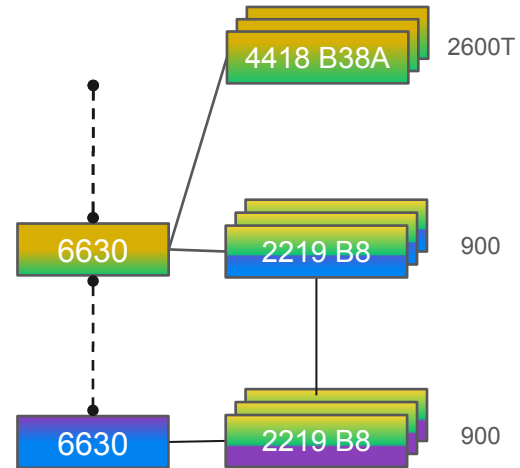
BB 6630 (2) WCDMA+GSM
WCDMA: 9
GSM: 12
HUP: 2

Radio Power 20W HWAC: 36
CPRI links: 6
Cascade:3
Transport: 1 Gbit



5G	New module
4G	X2/transport
3G	CPR
2G	ECPR
Mixed mode	Elastic RAN
Dynamic Spectrum Sharing	

Radio Power 20W HWAC: 51
CPRI links: 9
CPRI cascade: 3
Transport: 1 Gbit



B1.5.

Micro 2T2R L21

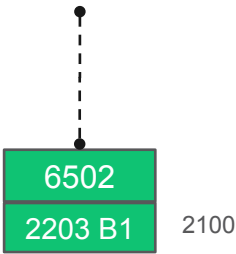
BB 6502 (1) LTE

Micro Radio HWAC 2x2: 1

LTE FDD 5MHz HWAC: 3

CPRI links: 1

Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPRI

LCPRI

Elastic RAN

B1.6.

Micro 2T2R L18

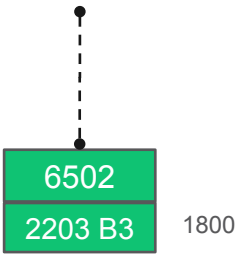
BB 6502 (1) LTE

Micro Radio HWAC 2x2: 1

LTE FDD 5MHz HWAC: 4

CPRI links: 1

Transport: 1 Gbit



5G

4G

3G

2G

Mixed

Dynamic Spectrum Sharing

New module

X2/transport

CPR

LCPR

Elastic RAN

Sharing A1.1.1. Ivanovo **TECT**

2T2R GWL9; 4T4R GL18, WL21, L26F, L26T

BB 6648 (1) LTE+NR

LTE 21 CC (1020 ABW) + NR 21 CC (1020 ABW)

LTE+NR FDD 5CC: 51+51

HUP: 1

MHUP: 2

BB 6630 (1)

WCDMA: 12CC

GSM: 24TRX

HUP: 2

BB 6630 (2) LTE+NR

LTE 12 CC (60 ABW) + NR 12 CC (60 ABW)

LTE+NR FDD 5CC: 6+6

HUP: 1

Radio Power 20W HWAC: 105

CPRI links: 24

CPRI cascade: 3

Transport: 10 Gbit; Xcede cable

