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| 3GPP TR 37.717-31-11 V0.6.0 (2021-08) | |
| Technical Report | |
| 3rd Generation Partnership Project;  Technical Specification Group Radio Access Networks;  Dual Connectivity (DC) of 3 bands LTE inter-band CA (3DL/1UL) and 1 NR band (1DL/1UL)  (Release 17) | |
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Contents

Foreword 13

1 Scope 15

2 References 15

3 Definitions of terms, symbols and abbreviations 15

3.1 Terms 15

3.2 Symbols 15

3.3 Abbreviations 15

4 Background 16

4.1 TR maintenance 16

5 DC of 3 LTE band (3DL/1UL) + 1 NR band: Specific Band Combination Part 16

5.1 Inter-band EN-DC 16

5.1.1 DC\_1-3\_(n)41 16

5.1.1.2 ∆TIB and ∆RIB values 16

5.1.1.3 REFSENS requirements 17

5.1.2 DC\_1-3-41\_n28 17

5.1.2.1 Configuration for EN-DC 17

5.1.2.2 ∆TIB and ∆RIB values 17

5.1.2.3 REFSENS requirements 17

5.1.3 DC\_3-7-8\_n40 18

5.1.3.1 Configurations for EN-DC 18

5.1.3.2 ∆TIB and ∆RIB values 18

5.1.3.3 Reference sensitivity exceptions 18

5.1.4 DC\_3-7-28\_n1 18

5.1.4.1 Configurations for EN-DC 18

5.1.4.2 ∆TIB and ∆RIB values 19

5.1.4.3 Reference sensitivity exceptions 19

5.1.5 DC\_5-7-66\_n66 19

5.1.5.1 Configurations for EN-DC 19

5.1.5.2 ∆TIB and ∆RIB values 19

5.1.5.3 Reference sensitivity exceptions 20

5.1.6 DC\_3-19-42\_n1 20

5.1.6.1 Configuration for EN-DC 20

5.1.6.2 ∆TIB and ∆RIB values 20

5.1.6.3 Reference sensitivity exceptions 20

5.1.7 DC\_3-21-42\_n1 20

5.1.7.1 Configuration for EN-DC 20

5.1.7.2 ∆TIB and ∆RIB values 21

5.1.7.3 Reference sensitivity exceptions 21

5.1.8 DC\_19-21-42\_n1 21

5.1.8.1 Configuration for EN-DC 21

5.1.8.2 ∆TIB and ∆RIB values 21

5.1.8.3 Reference sensitivity exceptions 22

5.1.9 DC\_2-28-66\_n66 22

5.1.9.1 Operating bands for EN-DC 22

5.1.9.2 Configuration for EN-DC 22

5.1.9.3 ∆TIB and ∆RIB values 22

5.1.10 DC\_7-28-66\_n66 23

5.1.10.1 Operating bands for EN-DC 23

5.1.10.2 Configuration for EN-DC 23

5.1.10.3 ∆TIB and ∆RIB values 23

5.1.11 DC\_2-7-28\_n66 23

5.1.11.1 Operating bands for EN-DC 23

5.1.11.2 Configuration for EN-DC 24

5.1.11.3 ∆TIB and ∆RIB values 24

5.1.12 DC\_1-8-11\_n3 24

5.1.12.1 Configurations for EN-DC 24

5.1.12.2 ∆TIB and ∆RIB values 24

5.1.12.3 Reference sensitivity exceptions 25

5.1.13 DC\_1-8-42\_n28 25

5.1.13.1 Configurations for EN-DC 25

5.1.13.2 ∆TIB and ∆RIB values 25

5.1.13.3 Reference sensitivity exceptions 25

5.1.14 DC\_1-7-32\_n28 26

5.1.14.1 Configuration for EN-DC 26

5.1.14.2 ∆TIB and ∆RIB values 26

5.1.14.3 Reference sensitivity exceptions 26

5.1.15 DC\_1-7-32\_n78 26

5.1.15.1 Configuration for EN-DC 26

5.1.15.2 ∆TIB and ∆RIB values 26

5.1.15.3 Reference sensitivity exceptions 27

5.1.16 DC\_1-20-32\_n28 27

5.1.16.1 Configuration for EN-DC 27

5.1.16.2 ∆TIB and ∆RIB values 27

5.1.16.3 Reference sensitivity exceptions 27

5.1.17 DC\_1-20-32\_n78 27

5.1.17.1 Configuration for EN-DC 27

5.1.17.2 ∆TIB and ∆RIB values 28

5.1.17.3 Reference sensitivity exceptions 28

5.1.18 DC\_3-7-32\_n78 28

5.1.18.1 Configuration for EN-DC 28

5.1.18.2 ∆TIB and ∆RIB values 28

5.1.18.3 Reference sensitivity exceptions 28

5.1.19 DC\_3-20-32\_n78 29

5.1.19.1 Configuration for EN-DC 29

5.1.19.2 ∆TIB and ∆RIB values 29

5.1.19.3 Reference sensitivity exceptions 29

5.1.20 DC\_7-20-32\_n1 29

5.1.20.1 Configuration for EN-DC 29

5.1.20.2 ∆TIB and ∆RIB values 29

5.1.20.3 Reference sensitivity exceptions 30

5.1.21 DC\_7-20-32\_n28 30

5.1.21.1 Configuration for EN-DC 30

5.1.21.2 ∆TIB and ∆RIB values 30

5.1.21.3 Reference sensitivity exceptions 30

5.1.22 DC\_1-20-32\_n3 30

5.1.23 DC\_2-4-7\_n28 31

5.1.24 DC\_2-5-7\_n66 32

5.1.25 DC\_2-5-66\_n7 33

5.1.26 DC\_2-5-66\_n66 34

5.1.27 DC\_2-7-66\_n28 35

5.1.28 DC\_3-20-32\_n1 35

5.1.29 DC\_1-3-18\_n3 36

5.1.29.1 Configuration for DC 36

5.1.29.2 ∆TIB and ∆RIB values 36

5.1.29.3 REFSENS requirements 37

5.1.30 DC\_1-3-41\_n3 37

5.1.30.1 Configuration for DC 37

5.1.30.2 ∆TIB and ∆RIB values 37

5.1.30.3 REFSENS requirements 38

5.1.31 DC\_1-3-41\_n41 38

5.1.31.1 Configuration for DC 38

5.1.31.2 ∆TIB and ∆RIB values 38

5.1.31.3 REFSENS requirements 39

5.1.32 DC\_2-5-7\_n66 and DC\_2-5-7-7\_n66 39

5.1.32.1 Configuration for DC 39

5.1.32.2 ∆TIB and ∆RIB values 39

5.1.32.3 REFSENS requirements 40

5.1.38 DC\_1-3-18\_n28 44

5.1.38.1 Configuration for EN-DC 44

5.1.38.2 ∆TIB and ∆RIB values 44

No additional MSD requirement need to be defined for this dual connectivity configuration. 44

5.1.39 DC\_1-3-18\_n41 44

5.1.39.1 Configuration for EN-DC 44

5.1.39.2 ∆TIB and ∆RIB values 45

5.1.40 DC\_2-7-28\_n7 45

5.1.41 DC\_2A-66A-71A\_n71A 46

5.1.42 DC\_2-5-66\_n77A 47

5.1.43 DC\_2-13-66\_n77A 47

5.1.44 DC\_2-48-66\_n77A 48

5.1.45 DC\_1-3-40\_n78 49

5.1.45.1 Configuration for EN-DC 49

5.1.45.2 ∆TIB and ∆RIB values 49

5.1.45.3 REFSENS requirements 49

5.1.46 DC\_1-7-40\_n78 50

5.1.46.1 Configuration for EN-DC 50

5.1.46.2 ∆TIB and ∆RIB values 50

5.1.46.3 REFSENS requirements 50

5.1.47 DC\_1-8-40\_n78 50

5.1.47.1 Configuration for EN-DC 50

5.1.47.2 ∆TIB and ∆RIB values 50

5.1.47.3 REFSENS requirements 51

5.1.48 DC\_3-7-40\_n78 51

5.1.48.1 Configuration for EN-DC 51

5.1.48.2 ∆TIB and ∆RIB values 51

5.1.48.3 REFSENS requirements 52

5.1.49 DC\_3-8-40\_n78 52

5.1.49.1 Configuration for EN-DC 52

5.1.49.2 ∆TIB and ∆RIB values 52

5.1.49.3 REFSENS requirements 52

5.1.50 DC\_7-8-40\_n78 53

5.1.50.1 Configuration for EN-DC 53

5.1.50.2 ∆TIB and ∆RIB values 53

5.1.50.3 REFSENS requirements 53

5.1.51 DC\_1-7-8\_n28 53

5.1.51.1 Configurations for EN-DC 53

5.1.51.2 ∆TIB and ∆RIB values 54

5.1.51.3 Reference sensitivity exceptions 54

5.1.52 DC\_3-7-8\_n28 54

5.1.52.1 Configurations for EN-DC 54

5.1.52.2 ∆TIB and ∆RIB values 54

5.1.52.3 Reference sensitivity exceptions 55

5.1.53 DC\_1-7-28\_n3 55

5.1.53.1 Configurations for EN-DC 55

5.1.53.2 ∆TIB and ∆RIB values 55

5.1.53.3 Reference sensitivity exceptions 55

5.1.54 DC\_3-8-40\_n1 56

5.1.54.1 Configurations for EN-DC 56

5.1.54.2 ∆TIB and ∆RIB values 56

5.1.54.3 Reference sensitivity exceptions 56

5.1.55 DC\_7-8-40\_n1 56

5.1.55.1 Configurations for EN-DC 56

5.1.55.2 ∆TIB and ∆RIB values 57

5.1.55.3 Reference sensitivity exceptions 57

5.1.56 DC\_2-28-66\_n7 57

5.1.56.1 Configurations for EN-DC 57

5.1.56.2 ∆TIB and ∆RIB values 57

5.1.56.3 Reference sensitivity exceptions 58

5.1.57 DC\_2-5-7\_n7 58

5.1.57.1 Configurations for EN-DC 58

5.1.57.2 ∆TIB and ∆RIB values 58

5.1.57.3 Reference sensitivity exceptions 58

5.1.58 DC\_2-7-66\_n7/DC\_2-7-66-66\_n7 59

5.1.58.1 Configurations for EN-DC 59

5.1.58.2 ∆TIB and ∆RIB values 59

5.1.58.3 Reference sensitivity exceptions 59

5.1.59 DC\_5-7-66\_n7/DC\_5-7-66-66\_n7 59

5.1.59.1 Configurations for EN-DC 59

5.1.59.2 ∆TIB and ∆RIB values 60

5.1.59.3 Reference sensitivity exceptions 60

5.1.60 DC\_7-28-66\_n7 60

5.1.60.1 Configurations for EN-DC 60

5.1.60.2 ∆TIB and ∆RIB values 60

5.1.60.3 Reference sensitivity exceptions 61

5.1.61 DC\_2-7-66\_n77 61

5.1.61.1 Configurations for EN-DC 61

5.1.61.2 ∆TIB and ∆RIB values 61

5.1.61.3 Reference sensitivity exceptions 61

5.1.62 DC\_1-20-40\_n78 62

5.1.62.1 Configuration for EN-DC 62

5.1.62.2 ∆TIB and ∆RIB values 62

5.1.62.3 Reference sensitivity exceptions 62

5.1.63 DC\_1-8-42\_n3 62

5.1.63.1 Configurations for EN-DC 62

5.1.63.2 ∆TIB and ∆RIB values 63

5.1.63.3 Reference sensitivity exceptions 63

5.1.64 DC\_1-3-42\_n28 63

5.1.64.1 Configurations for EN-DC 63

5.1.64.2 ∆TIB and ∆RIB values 63

5.1.64.3 Reference sensitivity exceptions 64

5.1.65 DC\_2-29-66\_n78 64

5.1.65.1 Configuration for EN-DC 64

5.1.65.2 ∆TIB and ∆RIB values 64

5.1.65.3 REFSENS requirements 64

5.1.66 DC\_7-8-32\_n1 65

5.1.66.1 Configuration for EN-DC 65

5.1.66.2 ∆TIB and ∆RIB values 65

5.1.66.3 Reference sensitivity exceptions 65

5.1.67 DC\_7-20-32\_n78 65

5.1.67.1 Configuration for EN-DC 65

5.1.67.2 ∆TIB and ∆RIB values 65

5.1.67.3 Reference sensitivity exceptions 66

5.1.68 DC\_2A-12A-66A\_n41A 66

5.1.68.2 Configuration for DC 66

5.1.69 DC\_2A-66A-71A\_n41A 67

5.1.69.2 Configuration for DC 67

5.1.70 DC\_2A-7A-12A\_n66A 68

5.1.70.2 Configuration for DC 68

5.1.71 DC\_2A\_2A-5A-7A\_n66A 69

5.1.71.2 Configuration for DC 69

5.1.72 DC\_2A-7A-71A\_n66A 70

5.1.72.2 Configuration for DC 70

5.1.73 DC\_2A-7A-12A\_n78A 71

5.1.73.2 Configuration for DC 71

5.1.74 DC\_2A-12A-66A\_n78A 72

5.1.74.2 Configuration for DC 72

5.1.75 DC\_7A-12A-66A\_n78A 73

5.1.75.2 Configuration for DC 73

5.1.76 DC\_7A-66A-71A\_n78A 74

5.1.76.2 Configuration for DC 74

5.1.77 DC\_2A-7A -71A\_n78A 75

5.1.77.2 Configuration for DC 75

5.1.78 DC\_2A-7A -66A\_n2A 76

5.1.78.2 Configuration for DC 76

5.1.79 DC\_2A-5A -7A\_n2A 77

5.1.79.2 Configuration for DC 77

5.1.80 DC\_5A-7A -66A\_n2A 78

5.1.80.2 Configuration for DC 78

5.1.81 DC\_2A-7A -71A\_n2A 79

5.1.81.2 Configuration for DC 79

5.1.82 DC\_2A-66A -71A\_n2A 80

5.1.82.2 Configuration for DC 80

5.1.83 DC\_2A-7A -12A\_n2A 81

5.1.83.2 Configuration for DC 81

5.1.84 DC\_7A-66A-71A\_n2A 82

5.1.84.2 Configuration for DC 82

5.1.85 DC\_7A-12A-66A\_n2A 83

5.1.85.2 Configuration for DC 83

5.1.86 DC\_1-28-40\_n78 84

5.1.86.1 Configuration for EN-DC 84

5.1.86.2 ∆TIB and ∆RIB values 84

5.1.86.3 REFSENS requirements 84

5.1.87 DC\_3-28-40\_n78 84

5.1.87.1 Configuration for EN-DC 84

5.1.87.2 ∆TIB and ∆RIB values 84

5.1.87.3 REFSENS requirements 85

5.1.88 DC\_1-11-18\_n3 85

5.1.88.1 Configuration for EN-DC 85

5.1.88.2 ∆TIB and ∆RIB values 85

5.1.88.3 REFSENS requirements 86

5.1.89 DC\_1-11-18\_n28 86

5.1.89.1 Configuration for EN-DC 86

5.1.89.2 ∆TIB and ∆RIB values 86

5.1.89.3 REFSENS requirements 86

5.1.90 DC\_1-11-18\_n41 87

5.1.90.1 Configuration for EN-DC 87

5.1.90.2 ∆TIB and ∆RIB values 87

5.1.90.3 REFSENS requirements 87

5.1.91 DC\_2-5-66\_n48 87

5.1.91.1 Configuration for EN-DC 87

5.1.91.2 ∆TIB and ∆RIB values 87

5.1.91.3 REFSENS requirements 88

5.1.92 DC\_2-13-48\_n77 88

5.1.92.1 Configuration for EN-DC 88

5.1.92.2 ∆TIB and ∆RIB values 88

5.1.92.3 REFSENS requirements 88

5.1.93 DC\_2-46-48\_n2 89

5.1.93.1 Configuration for EN-DC 89

5.1.93.2 ∆TIB and ∆RIB values 89

5.1.93.3 REFSENS requirements 89

5.1.94 DC\_2-48-66\_n2 89

5.1.94.1 Configuration for EN-DC 89

5.1.94.2 ∆TIB and ∆RIB values 89

5.1.94.3 REFSENS requirements 90

5.1.95 DC\_2-48-66\_n66 90

5.1.95.1 Configuration for EN-DC 90

5.1.95.2 ∆TIB and ∆RIB values 90

5.1.95.3 REFSENS requirements 91

5.1.96 DC\_13-48-66\_n77 91

5.1.96.1 Configuration for EN-DC 91

5.1.96.2 ∆TIB and ∆RIB values 91

5.1.96.3 REFSENS requirements 91

5.1.97.1 Configurations for EN-DC 91

5.1.97.2 ∆TIB and ∆RIB values 91

5.1.97.3 Reference sensitivity exceptions 92

5.1.98 DC\_1-3-38\_n28 92

5.1.98.1 Configurations for EN-DC 92

5.1.98.2 ∆TIB and ∆RIB values 92

5.1.98.3 Reference sensitivity exceptions 93

5.1.99 DC\_1-7-38\_n28 93

5.1.99.1 Configurations for EN-DC 93

5.1.99.2 ∆TIB and ∆RIB values 93

5.1.99.3 Reference sensitivity exceptions 93

5.1.100 DC\_3-7-38\_n28 94

5.1.100.1 Configurations for EN-DC 94

5.1.100.2 ∆TIB and ∆RIB values 94

5.1.100.3 Reference sensitivity exceptions 94

5.1.101 DC\_2-5-30\_n2 94

5.1.101.1 Operating bands for EN-DC 94

5.1.101.2 Configuration for DC 95

5.1.101.3 ∆TIB and ∆RIB values 95

5.1.101.4 REFSENS requirements 95

5.1.102 DC\_2-5-30\_n66 95

5.1.102.1 Operating bands for EN-DC 95

5.1.102.2 Configuration for DC 96

5.1.102.3 ∆TIB and ∆RIB values 96

5.1.102.4 REFSENS requirements 96

5.1.103 DC\_2-14-30\_n2 96

5.1.103.1 Operating bands for EN-DC 96

5.1.103.2 Configuration for DC 97

5.1.103.3 ∆TIB and ∆RIB values 97

5.1.103.4 REFSENS requirements 97

5.1.104 DC\_2-29-30\_n66 97

5.1.104.1 Operating bands for EN-DC 97

5.1.104.2 Configuration for DC 98

5.1.104.3 ∆TIB and ∆RIB values 98

5.1.104.4 REFSENS requirements 98

5.1.105 DC\_2-46-66\_n5 98

5.1.105.1 Operating bands for EN-DC 98

5.1.105.2 Configuration for DC 99

5.1.105.3 ∆TIB and ∆RIB values 99

5.1.105.4 REFSENS requirements 99

5.1.106 DC\_5-30-66\_n2 99

5.1.106.1 Operating bands for EN-DC 99

5.1.106.2 Configuration for DC 100

5.1.106.3 ∆TIB and ∆RIB values 100

5.1.106.4 REFSENS requirements 100

5.1.107 DC\_5-30-66\_n66 100

5.1.107.1 Operating bands for EN-DC 100

5.1.107.2 Configuration for DC 101

5.1.107.3 ∆TIB and ∆RIB values 101

5.1.107.4 REFSENS requirements 101

5.1.108 DC\_14-30-66\_n66 101

5.1.108.1 Operating bands for EN-DC 101

5.1.108.2 Configuration for DC 102

5.1.108.3 ∆TIB and ∆RIB values 102

5.1.108.4 REFSENS requirements 102

5.1.109 DC\_14-30-66\_n2 102

5.1.109.1 Operating bands for EN-DC 102

5.1.109.2 Configuration for DC 103

5.1.109.3 ∆TIB and ∆RIB values 103

5.1.109.4 REFSENS requirements 103

5.1.110 DC\_2-2-14-30\_n66 103

5.1.110.1 Operating bands for EN-DC 103

5.1.110.2 Configuration for DC 104

5.1.110.3 ∆TIB and ∆RIB values 104

5.1.110.4 REFSENS requirements 104

5.1.111 DC\_1-3-7\_n3 105

5.1.111.1 Operating bands for EN-DC 105

5.1.111.2 Configuration for DC 105

5.1.111.3 ∆TIB and ∆RIB values 105

5.1.111.4 REFSENS requirements 105

5.1.112 1-3-28\_n3 106

5.1.112.1 Operating bands for EN-DC 106

5.1.112.2 Configuration for DC 106

5.1.112.3 ∆TIB and ∆RIB values 106

5.1.112.4 REFSENS requirements 106

5.1.113 3-7-28\_n3 107

5.1.113.1 Operating bands for EN-DC 107

5.1.113.2 Configuration for DC 107

5.1.113.3 ∆TIB and ∆RIB values 107

5.1.113.4 REFSENS requirements 107

5.1.114 DC\_2-29-66\_n260 108

5.1.114.1 Operating bands for EN-DC 108

5.1.114.2 Configuration for DC 108

5.1.114.3 ∆TIB and ∆RIB values 108

5.1.114.4 REFSENS requirements 108

5.1.115 DC\_2-46-66\_n260 109

5.1.115.1 Operating bands for EN-DC 109

5.1.115.2 Configuration for DC 109

5.1.115.3 ∆TIB and ∆RIB values 111

5.1.115.4 REFSENS requirements 111

5.1.116 DC\_29-30-66\_n260 111

5.1.116.1 Operating bands for EN-DC 111

5.1.116.2 Configuration for DC 112

5.1.116.4 REFSENS requirements 112

5.1.117 DC\_3-20-28\_n1 113

5.1.117.1 Configurations for EN-DC 113

5.1.117.2 ∆TIB and ∆RIB values 113

5.1.117.3 Reference sensitivity exceptions 113

5.1.118 DC\_7-20-28\_n1 113

5.1.118.1 Configurations for EN-DC 113

5.1.118.2 ∆TIB and ∆RIB values 114

5.1.118.3 Reference sensitivity exceptions 114

5.1.119.1 Configuration for EN-DC 114

5.1.119.2 ∆TIB and ∆RIB values 114

5.1.119.3 REFSENS requirements 114

5.1.120.1 Configuration for EN-DC 115

5.1.120.2 ∆TIB and ∆RIB values 115

5.1.120.3 REFSENS requirements 115

5.1.121.1 Configuration for EN-DC 115

5.1.121.2 ∆TIB and ∆RIB values 115

5.1.121.3 REFSENS requirements 116

5.1.122.1 Configuration for EN-DC 116

5.1.122.2 ∆TIB and ∆RIB values 116

5.1.122.3 REFSENS requirements 116

5.1.126 DC\_7-29-66\_n78 118

5.1.126.1 Configurations for EN-DC 118

5.1.126.2 ∆TIB and ∆RIB values 119

5.1.126.3 Reference sensitivity exceptions 119

5.1.127 DC\_1-7-32\_n3 119

5.1.127.1 Configuration for EN-DC 119

5.1.127.2 ∆TIB and ∆RIB values 119

5.1.127.3 Reference sensitivity exceptions 119

5.1.128 DC\_1-7-32\_n8 120

5.1.128.1 Configuration for EN-DC 120

5.1.128.2 ∆TIB and ∆RIB values 120

5.1.128.3 Reference sensitivity exceptions 120

5.1.129 DC\_1-7-38\_n8 120

5.1.129.1 Configuration for EN-DC 120

5.1.129.2 ∆TIB and ∆RIB values 120

5.1.129.3 Reference sensitivity exceptions 121

5.1.130 DC\_1-20-28\_n3 121

5.1.130.1 Configuration for EN-DC 121

5.1.130.2 ∆TIB and ∆RIB values 121

5.1.130.3 Reference sensitivity exceptions 121

5.1.131 DC\_1-20-32\_n8 121

5.1.131.1 Configuration for EN-DC 121

5.1.131.2 ∆TIB and ∆RIB values 122

5.1.131.3 Reference sensitivity exceptions 122

5.1.132 DC\_1-28-32\_n3 122

5.1.132.1 Configuration for EN-DC 122

5.1.132.2 ∆TIB and ∆RIB values 122

5.1.132.3 Reference sensitivity exceptions 122

5.1.133 DC\_3-7-32\_n1 123

5.1.133.1 Configuration for EN-DC 123

5.1.133.2 ∆TIB and ∆RIB values 123

5.1.133.3 Reference sensitivity exceptions 123

5.1.134 DC\_3-8-20\_n1 123

5.1.134.1 Configuration for EN-DC 123

5.1.134.2 ∆TIB and ∆RIB values 123

5.1.134.3 Reference sensitivity exceptions 124

5.1.135 DC\_7-8-20\_n1 124

5.1.135.1 Configuration for EN-DC 124

5.1.135.2 ∆TIB and ∆RIB values 124

5.1.135.3 Reference sensitivity exceptions 124

5.1.136 DC\_7-8-20\_n3 124

5.1.136.1 Configuration for EN-DC 124

5.1.136.2 ∆TIB and ∆RIB values 125

5.1.136.3 Reference sensitivity exceptions 125

5.1.137 DC\_7-20-28\_n3 125

5.1.137.1 Configuration for EN-DC 125

5.1.137.2 ∆TIB and ∆RIB values 125

5.1.137.3 Reference sensitivity exceptions 125

5.1.138 DC\_7-20-32\_n1 126

5.1.138.1 Configuration for EN-DC 126

5.1.138.2 ∆TIB and ∆RIB values 126

5.1.138.3 Reference sensitivity exceptions 126

5.1.139 DC\_7-20-32\_n3 126

5.1.139.1 Configuration for EN-DC 126

5.1.139.2 ∆TIB and ∆RIB values 126

5.1.139.3 Reference sensitivity exceptions 127

5.1.140 DC\_7-20-32\_n8 127

5.1.140.1 Configuration for EN-DC 127

5.1.140.2 ∆TIB and ∆RIB values 127

5.1.140.3 Reference sensitivity exceptions 127

5.1.141 DC\_7-20-38\_n1 127

5.1.141.1 Configuration for EN-DC 127

5.1.141.2 ∆TIB and ∆RIB values 128

5.1.141.3 Reference sensitivity exceptions 128

5.1.142 DC\_7-28-32\_n1 128

5.1.142.1 Configuration for EN-DC 128

5.1.142.2 ∆TIB and ∆RIB values 128

5.1.142.3 Reference sensitivity exceptions 129

5.1.143 DC\_7-28-32\_n3 129

5.1.143.1 Configuration for EN-DC 129

5.1.143.2 ∆TIB and ∆RIB values 129

5.1.143.3 Reference sensitivity exceptions 129

5.1.144 DC\_8-20-32\_n1 129

5.1.144.1 Configuration for EN-DC 129

5.1.144.2 ∆TIB and ∆RIB values 129

5.1.144.3 Reference sensitivity exceptions 130

5.1.145 DC\_20-28-32\_n1 130

5.1.145.1 Configuration for EN-DC 130

5.1.145.2 ∆TIB and ∆RIB values 130

5.1.145.3 Reference sensitivity exceptions 130

5.1.146 DC\_20-28-32\_n3 130

5.1.146.1 Configuration for EN-DC 130

5.1.146.2 ∆TIB and ∆RIB values 131

5.1.146.3 Reference sensitivity exceptions 131

5.1.147 DC\_20-32-38\_n1 131

5.1.147.1 Configuration for EN-DC 131

5.1.147.2 ∆TIB and ∆RIB values 131

5.1.147.3 Reference sensitivity exceptions 131

5.1.148 DC\_3-7-7-28\_n1 132

5.1.148.1 Configurations for EN-DC 132

5.1.148.2 ∆TIB and ∆RIB values 132

5.1.148.3 Reference sensitivity exceptions 132

Annex A - Change history 133

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# Foreword

This Technical Report has been produced by the 3rd Generation Partnership Project (3GPP).

The contents of the present document are subject to continuing work within the TSG and may change following formal TSG approval. Should the TSG modify the contents of the present document, it will be re-released by the TSG with an identifying change of release date and an increase in version number as follows:

Version x.y.z

where:

x the first digit:

1 presented to TSG for information;

2 presented to TSG for approval;

3 or greater indicates TSG approved document under change control.

y the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z the third digit is incremented when editorial only changes have been incorporated in the document.

In the present document, modal verbs have the following meanings:

**shall** indicates a mandatory requirement to do something

**shall not** indicates an interdiction (prohibition) to do something

The constructions "shall" and "shall not" are confined to the context of normative provisions, and do not appear in Technical Reports.

The constructions "must" and "must not" are not used as substitutes for "shall" and "shall not". Their use is avoided insofar as possible, and they are not used in a normative context except in a direct citation from an external, referenced, non-3GPP document, or so as to maintain continuity of style when extending or modifying the provisions of such a referenced document.

**should** indicates a recommendation to do something

**should not** indicates a recommendation not to do something

**may** indicates permission to do something

**need not** indicates permission not to do something

The construction "may not" is ambiguous and is not used in normative elements. The unambiguous constructions "might not" or "shall not" are used instead, depending upon the meaning intended.

**can** indicates that something is possible

**cannot** indicates that something is impossible

The constructions "can" and "cannot" are not substitutes for "may" and "need not".

**will** indicates that something is certain or expected to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**will not** indicates that something is certain or expected not to happen as a result of action taken by an agency the behaviour of which is outside the scope of the present document

**might** indicates a likelihood that something will happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

**might not** indicates a likelihood that something will not happen as a result of action taken by some agency the behaviour of which is outside the scope of the present document

In addition:

**is** (or any other verb in the indicative mood) indicates a statement of fact

**is not** (or any other negative verb in the indicative mood) indicates a statement of fact

The constructions "is" and "is not" do not indicate requirements.

# 1 Scope

The present document is a technical report for Dual Connectivity (DC) of 3 LTE bands (3DL/1UL) and 1 NR band (1DL/1UL) under Rel-17 time frame. The purpose is to gather the relevant background information and studies in order to address Dual Connectivity (DC) of 3 LTE band (3DL/1UL) and 1 NR band (1DL/1UL) for the Rel-17 band combinations. The co-existence analysis and RF front end requirements such as ΔRIB,c and ΔTIB,c are described based on the band combination basis since such information have no difference between the DC configurations consisting with the same E-UTRA band and the same NR band. The actual requirements are added to the corresponding technical specification.

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1] 3GPP TR 21.905: "Vocabulary for 3GPP Specifications".

[2] RP-200664, “New WID: Dual Connectivity (EN-DC) of 3 bands LTE inter-band CA (3DL/1UL) and 1 NR band (1DL/1UL)”, RAN#88-e

# 3 Definitions of terms, symbols and abbreviations

## 3.1 Terms

For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document takes precedence over the definition of the same term, if any, in 3GPP TR 21.905 [1].

**example:** text used to clarify abstract rules by applying them literally.

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

<symbol> <Explanation>

## 3.3 Abbreviations

For the purposes of the present document, the abbreviations given in 3GPP TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in 3GPP TR 21.905 [1].

<ABBREVIATION> <Expansion>

# 4 Background

The present document is a technical report for Dual Connectivity (DC) of 3 bands LTE inter-band CA and 1 NR band under Rel-17 timeframe. The document covers each band combination specific issues (i.e. one sub-clause defined per band combination)

## 4.1 TR maintenance

A single company is responsible for introducing all approved TPs in the current TR, i.e. TR editor. However, it is the responsibility of the contact person of each band combination to ensure that the TPs related to the band combination have been implemented.

# 5 DC of 3 LTE band (3DL/1UL) + 1 NR band: Specific Band Combination Part

<Editor’s note: The requirements for specific band combinations shall be described according to the same manner as specified in TS38.101-3.>

## 5.1 Inter-band EN-DC

## 5.1.1 DC\_1-3\_(n)41

5.1.1.1 Configurations for DC

Table 5.1.1.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A\_(n)41AA | DC\_1A\_n41A  DC\_3A\_n41A |

### 5.1.1.2 ∆TIB and ∆RIB values

Table 5.1.1.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3\_(n)41 | 1 | 0.5 |
| 3 | 0.5 |
| 41 | 0.31/0.82 |
| n41 | 0.31/0.82 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

**Table 5.1.1.2-1: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3\_(n)41 | 1 | 0 |
| 3 | 0 |
| 41 | 01/0.52 |
| n41 | 01/0.52 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

### 5.1.1.3 REFSENS requirements

No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.2 DC\_1-3-41\_n28

### 5.1.2.1 Configuration for EN-DC

Table 5.1.2.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-41A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_41A\_n28A |
| DC\_1A-3A-41C\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_41A\_n28A  DC\_41C\_n28A |

### 5.1.2.2 ∆TIB and ∆RIB values

Table 5.1.2.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n28 | 1 | 0.5 |
| 3 | 0.5 |
| 41 | 0.31/0.82 |
| n28 | 0.6 |
| NOTE 1: The requirement is applied for UE transmitting on the frequency range of 2545 – 2690 MHz.  NOTE 2: The requirement is applied for UE transmitting on the frequency range of 2496 – 2545 MHz. | | |

**Table 5.1.2.2-1: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n28 | 1 | 0 |
| 3 | 0 |
| 41 | 01/0.52 |
| n28 | 0.2 |
| NOTE 1: The requirement is applied for UE transmitting on the frequency range of 2545 – 2690 MHz.  NOTE 2: The requirement is applied for UE transmitting on the frequency range of 2496 – 2545 MHz. | | |

### 5.1.2.3 REFSENS requirements

No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.3 DC\_3-7-8\_n40

### 5.1.3.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-7A-8A\_n40A | DC\_3A\_n40A  DC\_7A\_n40A DC\_8A\_n40A |

### 5.1.3.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_3-7-8\_n40 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.6 |
| n40 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-7-8\_n40 | 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| n40 | 0.5 |

### 5.1.3.3 Reference sensitivity exceptions

No further REFSENS exceptions needed.

## 5.1.4 DC\_3-7-28\_n1

### 5.1.4.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-7A-28A\_n1A | DC\_3A\_n1A  DC\_7A\_n1A DC\_28A\_n1A |

### 5.1.4.2 ∆TIB and ∆RIB values

Table 5.1.4.3-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-28\_n1 | 3 | 0.6 |
| 7 | 0.6 |
| 28 | 0.5 |
| n1 | 0.6 |

**Table 5.1.4.3-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-7-28\_n1 | 3 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| n1 | 0 |

### 5.1.4.3 Reference sensitivity exceptions

REFSENS exceptions needed due to band 28 uplink harmonic into band n1 is already specified for DC\_28A\_n1A.

## 5.1.5 DC\_5-7-66\_n66

### 5.1.5.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_5A-7A-66A\_n66A  DC\_5A-7C-66A\_n66A | DC\_5A\_n66A  DC\_7A\_n66A  DC\_66A\_n66A2 |
| NOTE 2: Only single switched UL is supported | |

### 5.1.5.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_5-7-66\_n66 | 5 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n66 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_5-7-66\_n66 | 5 | 0.3 |
| 7 | 0 |
| 66 | 0.3 |
| n66 |

### 5.1.5.3 Reference sensitivity exceptions

MSD have been defined for lower order combinations. No further MSD is needed.

## 5.1.6 DC\_3-19-42\_n1

### 5.1.6.1 Configuration for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-19A-42A\_n1A  DC\_3A-19A-42C\_n1A | DC\_3A\_n1A  DC\_19A\_n1A  DC\_42A\_n1A |

### 5.1.6.2 ∆TIB and ∆RIB values

For DC\_3-19-42\_n1, the ΔTIB,c and ΔRIB,c values are reused from the LTE combination CA\_1-3-19-42, and are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-19-42\_n1 | 3 | 0.6 |
| 19 | 0.3 |
| 42 | 0.8 |
| n1 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-19-42\_n1 | 3 | 0.2 |
| 19 | 0 |
| 42 | 0.5 |
| n1 | 0.2 |

### 5.1.6.3 Reference sensitivity exceptions

There is no additional MSD requirement for this configuration.

## 5.1.7 DC\_3-21-42\_n1

### 5.1.7.1 Configuration for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-21A-42A\_n1A  DC\_3A-21A-42C\_n1A | DC\_3A\_n1A  DC\_21A\_n1A  DC\_42A\_n1A |

### 5.1.7.2 ∆TIB and ∆RIB values

For DC\_3-21-42\_n1, the ΔTIB,c and ΔRIB,c values are reused from the LTE combination CA\_1-3-21-42, and are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-21-42\_n1 | 3 | 0.8 |
| 21 | 0.9 |
| 42 | 0.8 |
| n1 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-21-42\_n1 | 3 | 0.3 |
| 21 | 0.5 |
| 42 | 0.5 |
| n1 | 0.2 |

### 5.1.7.3 Reference sensitivity exceptions

There is no additional MSD requirement for this configuration.

## 5.1.8 DC\_19-21-42\_n1

### 5.1.8.1 Configuration for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_19A-21A-42A\_n1A  DC\_19A-21A-42C\_n1A | DC\_19A\_n1A  DC\_21A\_n1A  DC\_42A\_n1A |

### 5.1.8.2 ∆TIB and ∆RIB values

For DC\_19-21-42\_n1, the ΔTIB,c and ΔRIB,c values are reused from the LTE combination CA\_1-19-21-42, and are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_19-21-42\_n1 | 19 | 0.3 |
| 21 | 0.4 |
| 42 | 0.8 |
| n1 | 0.3 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_19-21-42\_n1 | 19 | 0 |
| 21 | 0 |
| 42 | 0.5 |
| n1 | 0 |

### 5.1.8.3 Reference sensitivity exceptions

There is no additional MSD requirement for this configuration.

## 5.1.9 DC\_2-28-66\_n66

### 5.1.9.1 Operating bands for EN-DC

Table 5.1.9.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band |
| --- | --- | --- |
| DC\_2-28-66\_n66 | CA\_2-28-66 | n66 |

### 5.1.9.2 Configuration for EN-DC

Table 5.1.9.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-28A-66A\_n66A | DC\_2A\_n66A  DC\_28A\_n66A  DC\_66A\_n66A4 | CA\_2A-28A-66A | n66A |
| NOTE 4: Only single switched UL is supported. | | | |

### 5.1.9.3 ∆TIB and ∆RIB values

Table 5.1.9.3-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-28-66\_n66 | 2 | 0.5 |
| 28 | 0.6 |
| 66 | 0.5 |
| n66 | 0.5 |

**Table 5.1.9.3-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-28-66\_n66 | 2 | 0.3 |
| 28 | 0.2 |
| 66 | 0.3 |
| n66 | 0.3 |

## 5.1.10 DC\_7-28-66\_n66

### 5.1.10.1 Operating bands for EN-DC

Table 5.1.10.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band |
| --- | --- | --- |
| DC\_7-28-66\_n66 | CA\_7-28-66 | n66 |

### 5.1.10.2 Configuration for EN-DC

Table 5.1.10.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_7A-28A-66A\_n66A  DC\_7C-28A-66A\_n66A | DC\_7A\_n66A  DC\_28A\_n66A  DC\_66A\_n66A4 | CA\_7A-28A-66A  CA\_7C-28A-66A | n66A |
| NOTE 4: Only single switched UL is supported. | | | |

### 5.1.10.3 ∆TIB and ∆RIB values

Table 5.1.10.3-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-28-66\_n66 | 7 | 0.5 |
| 28 | 0.6 |
| 66 | 0.5 |
| n66 | 0.5 |

**Table 5.1.10.3-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-28-66\_n66 | 7 | 0.5 |
| 28 | 0.2 |
| 66 | 0.5 |
| n66 | 0.5 |

## 5.1.11 DC\_2-7-28\_n66

### 5.1.11.1 Operating bands for EN-DC

Table 5.1.11.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band |
| --- | --- | --- |
| DC\_2-7-28\_n66 | CA\_2-7-28 | n66 |

### 5.1.11.2 Configuration for EN-DC

Table 5.1.11.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A-28A\_n66A  DC\_2A-7C-28A\_n66A | DC\_2A\_n66A  DC\_7A\_n66A  DC\_28A\_n66A | CA\_2A-7A-28A  CA\_2A-7C-28A | n66A |

### 5.1.11.3 ∆TIB and ∆RIB values

Table 5.1.11.3-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-28\_n66 | 2 | 0.5 |
| 7 | 0.5 |
| 28 | 0.6 |
| n66 | 0.5 |

**Table 5.1.11.3-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-28\_n66 | 2 | 0.3 |
| 7 | 0.5 |
| 28 | 0.2 |
| n66 | 0.5 |

## 5.1.12 DC\_1-8-11\_n3

### 5.1.12.1 Configurations for EN-DC

Table 5.1.12.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA configuration | NR configuration |
| --- | --- | --- | --- |
| DC\_1A-8A-11A\_n3A | DC\_1A\_n3A  DC\_8A\_n3A  DC\_11A\_n3A | CA\_1A-8A-11A | n3A |

### 5.1.12.2 ∆TIB and ∆RIB values

For DC\_1-8-11\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 5.1.12.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-11\_n3 | 1 | 0.3 |
| 8 | 0.3 |
| 11 | 0.8 |
| n3 | 0.9 |

Table 5.1.12.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-11\_n3 | 1 | 0 |
| 8 | 0 |
| 11 | 0.3 |
| n3 | 0.5 |

### 5.1.12.3 Reference sensitivity exceptions

Co-existence study for DC\_1-8-11\_n3 was covered by the studies for the fallback modes of DC\_1-8\_n3, DC\_1-11\_n3 and DC\_8-11\_n3. No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.13 DC\_1-8-42\_n28

### 5.1.13.1 Configurations for EN-DC

Table 5.1.13.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC  configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA configuration | NR configuration |
| --- | --- | --- | --- |
| DC\_1A-8A-42A\_n28A | DC\_1A\_n28A  DC\_8A\_n28A  DC\_42A\_n28A | CA\_1A-8A-42A | n28A |
| DC\_1A-8A-42C\_n28A | DC\_1A\_n28A  DC\_8A\_n28A  DC\_42A\_n28A  DC\_42C\_n28A | CA\_1A-8A-42C | n28A |

### 5.1.13.2 ∆TIB and ∆RIB values

For DC\_1-8-42\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 5.1.13.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-42\_n28 | 1 | 0.3 |
| 8 | 0.6 |
| 42 | 0.8 |
| n28 | 0.8 |

Table 5.1.13.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-42\_n28 | 1 | 0 |
| 8 | 0.2 |
| 42 | 0.5 |
| n28 | 0.5 |

### 5.1.13.3 Reference sensitivity exceptions

Co-existence study for DC\_1-8-42\_n28 was covered by the studies for the fallback modes of DC\_1-8\_n28, DC\_1-42\_n28 and DC\_8-42\_n28.

No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.14 DC\_1-7-32\_n28

### 5.1.14.1 Configuration for EN-DC

Table 5.1.14.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-32A\_n28A | DC\_1A\_n28A  DC\_7A\_n28A |

### 5.1.14.2 ∆TIB and ∆RIB values

Table 5.1.14.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-32\_n28 | 1 | 0.5 |
| 7 | 0.6 |
| n28 | 0.7 |

Table 5.1.14.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-7-32\_n28 | 1 | 0 |
| 7 | 0 |
| 32 | 0 |
| n28 | 0.2 |

### 5.1.14.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

## 5.1.15 DC\_1-7-32\_n78

### 5.1.15.1 Configuration for EN-DC

Table 5.1.15.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-32A\_n78A | DC\_1A\_n78A  DC\_7A\_n78A |

### 5.1.15.2 ∆TIB and ∆RIB values

Table 5.1.15.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-32\_n78 | 1 | 0.2 |
| 7 | 0.2 |
| n78 | 0.5 |

Table 5.1.15.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-7-32\_n78 | 1 | 0.6 |
| 7 | 0.6 |
| 32 | 0 |
| n78 | 0.8 |

### 5.1.15.3 Reference sensitivity exceptions

Exceptions for IMD hits on B32 are TBD.

## 5.1.16 DC\_1-20-32\_n28

### 5.1.16.1 Configuration for EN-DC

Table 5.1.16.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-32A\_n28A | DC\_1A\_n28A  DC\_20A\_n28A |

### 5.1.16.2 ∆TIB and ∆RIB values

Table 5.1.16.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-20-32\_n28 | 1 | 0.3 |
| 20 | 0.6 |
| n28 | 0.7 |

Table 5.1.16.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-20-32\_n28 | 1 | 0 |
| 20 | 0.2 |
| 32 | 0 |
| n28 | 0.2 |

### 5.1.16.3 Reference sensitivity exceptions

Exceptions for the B1 IMD5 hit from the 20A\_n28A UL are TBD.

## 5.1.17 DC\_1-20-32\_n78

### 5.1.17.1 Configuration for EN-DC

Table 5.1.17.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-32A\_n78A | DC\_1A\_n78A  DC\_20A\_n78A |

### 5.1.17.2 ∆TIB and ∆RIB values

Table 5.1.17.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-20-32\_n78 | 1 | 0.3 |
| 20 | 0.3 |
| n78 | 0.8 |

Table 5.1.17.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-20-32\_n78 | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| n78 | 0.5 |

### 5.1.17.3 Reference sensitivity exceptions

Exceptions for IMD hits on B32 are TBD.

## 5.1.18 DC\_3-7-32\_n78

### 5.1.18.1 Configuration for EN-DC

Table 5.1.18.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-7A-32A\_n78A | DC\_3A\_n78A  DC\_7A\_n78A |

### 5.1.18.2 ∆TIB and ∆RIB values

Table 5.1.18.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-32\_n78 | 3 | 0.6 |
| 7 | 0.6 |
| n78 | 0.8 |

Table 5.1.18.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-7-32\_n78 | 3 | 0.2 |
| 7 | 0.2 |
| 32 | 0 |
| n78 | 0.5 |

### 5.1.18.3 Reference sensitivity exceptions

Exceptions for IMD hits on B32 are TBD.

## 5.1.19 DC\_3-20-32\_n78

### 5.1.19.1 Configuration for EN-DC

Table 5.1.19.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-20A-32A\_n78A | DC\_3A\_n78A  DC\_20A\_n78A |

### 5.1.19.2 ∆TIB and ∆RIB values

Table 5.1.19.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-20-32\_n78 | 3 | 0.5 |
| 20 | 0.3 |
| n78 | 0.8 |

Table 5.1.19.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-20-32\_n78 | 3 | 0.2 |
| 20 | 0 |
| 32 | 0 |
| n78 | 0.5 |

### 5.1.19.3 Reference sensitivity exceptions

Exceptions for IMD hits on B32 are TBD.

## 5.1.20 DC\_7-20-32\_n1

### 5.1.20.1 Configuration for EN-DC

Table 5.1.20.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n1A | DC\_7A\_n1A  DC\_20A\_n1A |

### 5.1.20.2 ∆TIB and ∆RIB values

Table 5.1.20.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-20-32\_n1 | 7 | 0.6 |
| 20 | 0.3 |
| n1 | 0.5 |

Table 5.1.20.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7-20-32\_n1 | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| n1 | 0 |

### 5.1.20.3 Reference sensitivity exceptions

Exceptions for IMD hits on B32 are TBD.

## 5.1.21 DC\_7-20-32\_n28

### 5.1.21.1 Configuration for EN-DC

Table 5.1.21.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n28A | DC\_7A\_n28A  DC\_20A\_n28A |

### 5.1.21.2 ∆TIB and ∆RIB values

Table 5.1.21.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-20-32\_n28 | 7 | 0.3 |
| 20 | 0.5 |
| n28 | 0.7 |

Table 5.1.21.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7-20-32\_n28 | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| n28 | 0.2 |

### 5.1.21.3 Reference sensitivity exceptions

Compared to its fallback modes, there are no additional MSD requirements for this band combination.

## 5.1.22 DC\_1-20-32\_n3

5.1.22.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_1A-20A-32A\_n3A | DC\_1A\_n3A  DC\_20A\_n3A |

5.1.22.2 ∆TIB and ∆RIB values

For DC\_1-20-32\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-20-32\_n3 | 1 | 0.5 |
| 20 | 0.3 |
| n3 | 0.5 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-20-32\_n3 | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| n3 | 0 |

5.1.22.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.23 DC\_2-4-7\_n28

5.1.23.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_2A-4A-7A\_n28A | DC\_2A\_n28A  DC\_4A\_n28A  DC\_7A\_n28A |

5.1.23.2 ∆TIB and ∆RIB values

For DC\_2-4-7\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-4-7\_n28 | 2 | 0.5 |
| 4 | 0.5 |
| 7 | 0.5 |
| n28 | 0.6 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-4-7\_n28 | 2 | 0.3 |
| 4 | 0.5 |
| 7 | 0.5 |
| n28 | 0.2 |

5.1.23.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.24 DC\_2-5-7\_n66

5.1.24.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_2A-5A-7A\_n66A  DC\_2A-5A-7C\_n66A | DC\_2A\_n66A  DC\_5A\_n66A  DC\_7A\_n66A |

5.1.24.2 ∆TIB and ∆RIB values

For DC\_2-5-7\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n66 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| n66 | 0.5 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n66 | 2 | 0.3 |
| 5 | 0 |
| 7 | 0.5 |
| n66 | 0.5 |

5.1.24.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.25 DC\_2-5-66\_n7

5.1.25.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_2A-5A-66A\_n7A  DC\_2A-5A-66A-66A\_n7A | DC\_2A\_n7A  DC\_5A\_n7A  DC\_66A\_n7A |

5.1.25.2 ∆TIB and ∆RIB values

For DC\_2-5-66\_n7, the ΔTIB,c and ΔRIB,c values are reused from the DC\_2-7-13\_n66, and are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n7 | 2 | 0.5 |
| 5 | 0.3 |
| 66 | 0.5 |
| n7 | 0.5 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n7 | 2 | 0.3 |
| 5 | 0 |
| 66 | 0.5 |
| n7 | 0.5 |

5.1.25.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.26 DC\_2-5-66\_n66

5.1.26.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_2A-5A-66A\_n66A | DC\_2A\_n66A  DC\_5A\_n66A  DC\_66A\_n66A1 |
| NOTE1: Only single switched UL is supported | |

5.1.26.2 ∆TIB and ∆RIB values

For DC\_2-5-66\_n66, the ΔTIB,c and ΔRIB,c values are reused from the DC\_2-5\_n66, and are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n66 | 2 | 0.5 |
| 5 | 0.3 |
| 66 | 0.5 |
| n66 | 0.5 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n66 | 2 | 0.3 |
| 5 | 0 |
| 66 | 0.3 |
| n66 | 0.3 |

5.1.26.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.27 DC\_2-7-66\_n28

5.1.27.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_2A-7A-66A\_n28A | DC\_2A\_n28A  DC\_7A\_n28A  DC\_66A\_n28A |

5.1.27.2 ∆TIB and ∆RIB values

For DC\_2-7-66\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n28 | 2 | 0.5 |
| 7 | 0.5 |
| 66 | 0.5 |
| n28 | 0.6 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n28 | 2 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n28 | 0.2 |

5.1.27.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.28 DC\_3-20-32\_n1

5.1.28.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band configurations EN-DC (four bands)

| DC  configuration | Uplink  configuration |
| --- | --- |
| DC\_3A-20A-32A\_n1A | DC\_3A\_n1A  DC\_20A\_n1A |

5.1.28.2 ∆TIB and ∆RIB values

For DC\_3-20-32\_n1, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-20-32\_n1 | 3 | 0.5 |
| 20 | 0.3 |
| n1 | 0.5 |

**Table 7.3B.3.3.4-1: ΔRIB due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-20-32\_n1 | 3 | 0 |
| 20 | 0 |
| 32 | 0 |
| n1 | 0 |

5.1.28.3 REFSENS requirements

No additional MSD requirement is needed.

## 5.1.29 DC\_1-3-18\_n3

### 5.1.29.1 Configuration for DC

**Table 5.1.29.1-1: Inter-band EN-DC configurations (four bands)**

| DC configuration | Uplink configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-18A\_n3A | DC\_1A\_n3A  DC\_3A\_n3A2  DC\_18A\_n3A |
| NOTE 2: Only single switched UL is supported | |

### 5.1.29.2 ∆TIB and ∆RIB values

For DC\_1-3-18\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below. Numbers come from LTE CA\_1A-3A-18A.

Table 5.1.29.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-18\_n3 | 1 | 0.3 |
| 3 | 0.3 |
| 18 | 0.3 |
| n3 | 0.3 |

Table 5.1.29.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-18\_n3 | 1 | 0 |
| 3 | 0 |
| 18 | 0 |
| n3 | 0 |

### 5.1.29.3 REFSENS requirements

There are no additional MSD requirements for this band combination.

## 5.1.30 DC\_1-3-41\_n3

### 5.1.30.1 Configuration for DC

**Table 5.1.30.1-1: Inter-band EN-DC configurations (four bands)**

| DC configuration | Uplink configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-41A\_n3A  DC\_1A-3A-41C\_n3A | DC\_1A\_n3A  DC\_3A\_n3A2  DC\_41A\_n3A  DC\_41C\_n3A |
| NOTE 2: Only single switched UL is supported | |

### 5.1.30.2 ∆TIB and ∆RIB values

For DC\_1-3-41\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below. Numbers come from LTE CA\_1A-3A-41A.

Table 5.1.30.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n3 | 1 | 0.5 |
| 3 | 0.5 |
| 41 | 0.31/0.82 |
| n3 | 0.5 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

Table 5.1.30.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n3 | 1 | 0 |
| 3 | 0 |
| 41 | 01/0.52 |
| n3 | 0 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

### 5.1.30.3 REFSENS requirements

There are no additional MSD requirements for this band combination.

## 5.1.31 DC\_1-3-41\_n41

### 5.1.31.1 Configuration for DC

**Table 5.1.31.1-1: Inter-band EN-DC configurations (four bands)**

| DC configuration | Uplink configuration  (NOTE 1) |
| --- | --- |
| DC\_1A-3A-41A\_n41A | DC\_1A\_n41A  DC\_3A\_n41A |

### 5.1.31.2 ∆TIB and ∆RIB values

For DC\_1-3-41\_n41, the ΔTIB,c and ΔRIB,c values are given in the tables below. Numbers come from LTE CA\_1A-3A-41A.

Table 5.1.31.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n41 | 1 | 0.5 |
| 3 | 0.5 |
| 41 | 0.31/0.82 |
| n41 | 0.31/0.82 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

Table 5.1.31.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-41\_n41 | 1 | 0 |
| 3 | 0 |
| 41 | 01/0.52 |
| n41 | 01/0.52 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz.  NOTE 2: Applicable for the frequency range of 2496-2515 MHz. | | |

### 5.1.31.3 REFSENS requirements

There are no additional MSD requirements for this band combination.

## 5.1.32 DC\_2-5-7\_n66 and DC\_2-5-7-7\_n66

### 5.1.32.1 Configuration for DC

**Table 5.1.32.1-1: Inter-band EN-DC configurations (four bands)**

| DC configuration | Uplink configuration  (NOTE 1) |
| --- | --- |
| DC\_2A-5A-7A\_n66A  DC\_2A-5A-7C\_n66A  DC\_2A-5A-7A-7A\_n66A | DC\_2A\_n66A DC\_5A\_n66A  DC\_7A\_n66A |

### 5.1.32.2 ∆TIB and ∆RIB values

For DC\_2-5-7\_n66 and DC\_2-5-7-7\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below. Numbers come from LTE CA\_2A-5A-7A-66A.

Table 5.1.32.2-1: ΔTIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n66  DC\_2-5-7-7\_n66 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| n66 | 0.5 |

Table 5.1.32.2-2: ΔRIB,c

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n66  DC\_2-5-7-7\_n66 | 2 | 0.3 |
| 5 | 0 |
| 7 | 0.5 |
| n66 | 0.5 |

### 5.1.32.3 REFSENS requirements

There are no additional MSD requirements for this band combination.

5.1.33 DC\_1-3-11\_n28

5.1.33.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-3A-11A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_11A\_n28A |

5.1.33.2 ∆TIB and ∆RIB values

For DC\_1-3-11\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-11\_n28 | 1 | 0.3 |
| 3 | 0.8 |
| 11 | 0.9 |
| n28 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-3-11\_n28 | 1 | 0 |
| 3 | 0.3 |
| 11 | 0.5 |
| n28 | 0.2 |

5.1.33.3 Reference sensitivity exceptions

Co-existence study for DC\_1-3-11\_n28 was covered by the studies for the fallback modes of DC\_1-3\_n28, DC\_1-11\_n28 and DC\_3-11\_n28.

No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.34 DC\_1-3-11\_n77

5.1.34.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-3A-11A\_n77A | DC\_1A\_n77A  DC\_3A\_n77A  DC\_11A\_n77A |
| DC\_1A-3A-11A\_n77(2A) | DC\_1A\_n77A  DC\_3A\_n77A  DC\_11A\_n77A |

5.1.34.2 ∆TIB and ∆RIB values

For DC\_1-3-11\_n77, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-11\_n77 | 1 | 0.6 |
| 3 | 0.8 |
| 11 | 0.9 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-3-11\_n77 | 1 | 0.2 |
| 3 | 0.3 |
| 11 | 0.5 |
| n77 | 0.5 |

5.1.34.3 Reference sensitivity exceptions

Co-existence study for DC\_1-3-11\_n77 was covered by the studies for the fallback modes of DC\_1-3\_n77, DC\_1-11\_n77 and DC\_3-11\_n77.

No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.35 DC\_3-8-11\_n28

5.1.35.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-8A-11A\_n28A | DC\_3A\_n28A  DC\_8A\_n28A  DC\_11A\_n28A |

5.1.35.2 ∆TIB and ∆RIB values

For DC\_3-8-11\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-8-11\_n28 | 3 | 0.8 |
| 8 | 0.6 |
| 11 | 0.9 |
| n28 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-8-11\_n28 | 3 | 0.3 |
| 8 | 0.2 |
| 11 | 0.5 |
| n28 | 0.2 |

5.1.35.3 Reference sensitivity exceptions

Co-existence study for DC\_3-8-11\_n28 was covered by the studies for the fallback modes of DC\_3-8\_n28, DC\_3-11\_n28 and DC\_8-11\_n28.

No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.36 DC\_3-8-11\_n77

5.1.36.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-8A-11A\_n77A | DC\_3A\_n77A  DC\_8A\_n77A  DC\_11A\_n77A |
| DC\_3A-8A-11A\_n77(2A) | DC\_3A\_n77A  DC\_8A\_n77A  DC\_11A\_n77A |

5.1.36.2 ∆TIB and ∆RIB values

For DC\_3-8-11\_n77, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-8-11\_n77 | 3 | 0.8 |
| 8 | 0.6 |
| 11 | 0.9 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3-8-11\_n77 | 3 | 0.3 |
| 8 | 0.2 |
| 11 | 0.5 |
| n77 | 0.5 |

5.1.36.3 Reference sensitivity exceptions

Co-existence study for DC\_3-8-11\_n77 was covered by the studies for the fallback modes of DC\_3-8\_n77, DC\_3-11\_n77 and DC\_8-11\_n77.

No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.37 DC\_1-8-11\_n28

5.1.37.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-8A-11A\_n28A | DC\_1A\_n28A  DC\_8A\_n28A  DC\_11A\_n28A |

5.1.37.2 ∆TIB and ∆RIB values

For DC\_1-8-11\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-11\_n28 | 1 | 0.3 |
| 8 | 0.6 |
| 11 | 0.4 |
| n28 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-8-11\_n28 | 1 | 0 |
| 8 | 0.2 |
| 11 | 0 |
| n28 | 0.2 |

5.1.37.3 Reference sensitivity exceptions

Co-existence study for DC\_1-8-11\_n28 was covered by the studies for the fallback modes of DC\_1-8\_n28, DC\_1-11\_n28 and DC\_8-11\_n28.

No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.38 DC\_1-3-18\_n28

### 5.1.38.1 Configuration for EN-DC

Table 5.1.38.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-18A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_18A\_n28A |

### 5.1.38.2 ∆TIB and ∆RIB values

Table 5.1.38.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-18-n28 | 1 | 0.3 |
| 3 | 0.3 |
| 18 | 0.3 |
| n28 | 0.6 |

**Table 5.1.38.2-1: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-18-n28 | 1 | 0 |
| 3 | 0 |
| 18 | 0 |
| n28 | 0.2 |

5.1.38.3 REFSENS requirements

## No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.39 DC\_1-3-18\_n41

### 5.1.39.1 Configuration for EN-DC

Table 5.1.39.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-18A\_n41A | DC\_1A\_n41A  DC\_3A\_n41A  DC\_18A\_n41A |

### 5.1.39.2 ∆TIB and ∆RIB values

Table 5.1.39.2-1: ΔTIB,c due to EN-DC(four bands)

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔTIB,c [dB]** |
| --- | --- | --- |
| DC\_1-3-18-n41 | 1 | 0.3 |
| 3 | 0.3 |
| 18 | 0.3 |
| n41 | 0.31 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz. | | |

**Table 5.1.39.2-1: ΔRIB,c due to EN-DC (four bands)**

| **Inter-band DC Configuration** | **E-UTRA and NR Band** | **ΔRIB,c [dB]** |
| --- | --- | --- |
| DC\_1-3-18-n41 | 1 | 0 |
| 3 | 0 |
| 18 | 0 |
| n41 | 01 |
| NOTE 1: Applicable for the frequency range of 2515-2690 MHz. | | |

5.1.39.3 REFSENS requirements

No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.40 DC\_2-7-28\_n7

5.1.40.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-7A-28A\_n7A | DC\_2A\_n7A  DC\_7A\_n7A4 DC\_28A\_n7A |
| NOTE 4: Only single switched UL is supported. | |

5.1.40.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-7-28\_n7 | 2 | 0.5 |
| 7 | 0.5 |
| 28 | 0.3 |
| n7 | 0.5 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-7-28\_n7 | 2 | 0 |
| 7 | 0 |
| 28 | 0 |
| n7 | 0 |

5.1.40.3 Reference sensitivity exceptions

No further MSD is needed defined.

## 5.1.41 DC\_2A-66A-71A\_n71A

5.1.41.1 Configurations for EN-DC

Table 5.5B.4.3-1: Inter-band EN-DC configurations within FR1 (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-66A-71A\_n71A | DC\_2A\_n71A  DC\_66A\_n71A |

Note that DC\_71\_n71 is not used as uplink configuration.

5.1.41.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-66-71\_n71 | 2 | 0.5 |
| 66 | 0.5 |
| 71 | 0.3 |
| n71 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-66-71\_n71 | 2 | 0.3 |
| 66 | 0.3 |
| 71 | 0 |
| n71 |

5.1.41.3 Reference sensitivity exceptions

REFSENS exceptions needed due to band 71 uplink harmonic into band 2 is already specified in Table 7.3B.2.3.1-1 of TS 38.101-3.

## 5.1.42 DC\_2-5-66\_n77A

5.1.42.1 Configurations for EN-DC

Table 5.5B.4.3-1: Inter-band EN-DC configurations within FR1 (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-5A-66A\_n77A DC\_2A-2A-5A-66A\_n77A DC\_2A-5A-66A-66A\_n77A | DC\_2A\_n77A  DC\_5A\_n77A  DC\_66A\_n77A |

5.1.42.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-5-66\_n77  DC\_2-2-5-66\_n77  DC\_2-5-66-66\_n77 | 2 | 0.5 |
| 5 | 0.3 |
| 66 | 0.5 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-5-66\_n77  DC\_2-2-5-66\_n77  DC\_2-5-66-66\_n77 | 2 | 0.3 |
| 5 | 0 |
| 66 | 0.3 |
| n77 | 0.5 |

5.1.42.3 Reference sensitivity exceptions

REFSENS exception have when needed been defined for lower order combinations.

## 5.1.43 DC\_2-13-66\_n77A

5.1.43.1 Configurations for EN-DC

Table 5.5B.4.3-1: Inter-band EN-DC configurations within FR1 (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-13A-66A\_n77A DC\_2A-2A-13A-66A\_n77A DC\_2A-13A-66A-66A\_n77A | DC\_2A\_n77A  DC\_13A\_n77A  DC\_66A\_n77A |

5.1.43.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-13-66\_n77  DC\_2-2-13-66\_n77  DC\_2-13-66-66\_n77 | 2 | 0.5 |
| 13 | 0.3 |
| 66 | 0.5 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-13-66\_n77  DC\_2-2-13-66\_n77  DC\_2-13-66-66\_n77 | 2 | 0.3 |
| 13 | 0 |
| 66 | 0.3 |
| n77 | 0.5 |

5.1.43.3 Reference sensitivity exceptions

REFSENS exception have when needed been defined for lower order combinations.

## 5.1.44 DC\_2-48-66\_n77A

5.1.44.1 Configurations for EN-DC

Table 5.5B.4.3-1: Inter-band EN-DC configurations within FR1 (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-48A-66A\_n77A | DC\_2A\_n77A  DC\_48A\_n77A  DC\_66A\_n77A |

5.1.44.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-48-66\_n77 | 2 | 0.6 |
| 48 | 0.8 |
| 66 | 0.6 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-48-66\_n77 | 2 | 0.3 |
| 48 | 0.5 |
| 66 | 0.3 |
| n77 | 0.5 |

5.1.44.3 Reference sensitivity exceptions

REFSENS exception have when needed been defined for lower order combinations.

## 5.1.45 DC\_1-3-40\_n78

### 5.1.45.1 Configuration for EN-DC

Table 5.1.45.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-40A\_n78A  DC\_1A-3A-40C\_n78A | DC\_1A\_n78A  DC\_3A\_n78A  DC\_40A\_n78A |

### 5.1.45.2 ∆TIB and ∆RIB values

Table 5.1.45.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-40\_n78 | 1 | 0.6 |
| 3 | 0.6 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

**Table 5.1.45.2-1: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-40\_n78 | 1 | 0.2 |
| 3 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.45.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.46 DC\_1-7-40\_n78

### 5.1.46.1 Configuration for EN-DC

Table 5.1.46.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-7A-40A\_n78A  DC\_1A-7A-40C\_n78A | DC\_1A\_n78A  DC\_7A\_n78A  DC\_40A\_n78A |

### 5.1.46.2 ∆TIB and ∆RIB values

Table 5.1.46.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-40\_n78 | 1 | 0.6 |
| 7 | 0.5 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

Table 5.1.46.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-40\_n78 | 1 | 0.2 |
| 7 | 0 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.46.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.47 DC\_1-8-40\_n78

### 5.1.47.1 Configuration for EN-DC

Table 5.1.47.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-8A-40A\_n78A  DC\_1A-8A-40C\_n78A | DC\_1A\_n78A  DC\_8A\_n78A  DC\_40A\_n78A |

### 5.1.47.2 ∆TIB and ∆RIB values

Table 5.1.47.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-40\_n78 | 1 | 0.6 |
| 8 | 0.6 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

Table 5.1.47.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-40\_n78 | 1 | 0.2 |
| 8 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.47.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.48 DC\_3-7-40\_n78

### 5.1.48.1 Configuration for EN-DC

Table 5.1.48.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-7A-40A\_n78A  DC\_3A-7A-40C\_n78A | DC\_3A\_n78A  DC\_7A\_n78A  DC\_40A\_n78A |

### 5.1.48.2 ∆TIB and ∆RIB values

Table 5.1.48.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-40\_n78 | 3 | 0.6 |
| 7 | 0.5 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

Table 5.1.48.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-40\_n78 | 3 | 0.2 |
| 7 | 0 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.48.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.49 DC\_3-8-40\_n78

### 5.1.49.1 Configuration for EN-DC

Table 5.1.49.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-8A-40A\_n78A  DC\_3A-8A-40C\_n78A | DC\_3A\_n78A  DC\_8A\_n78A  DC\_40A\_n78A |

### 5.1.49.2 ∆TIB and ∆RIB values

Table 5.1.49.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-8-40\_n78 | 3 | 0.6 |
| 8 | 0.6 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

Table 5.1.49.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_3-8-40\_n78 | 3 | 0.2 |
| 8 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.49.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.50 DC\_7-8-40\_n78

### 5.1.50.1 Configuration for EN-DC

Table 5.1.50.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_7A-8A-40A\_n78A  DC\_7A-8A-40C\_n78A | DC\_7A\_n78A  DC\_8A\_n78A  DC\_40A\_n78A |

### 5.1.50.2 ∆TIB and ∆RIB values

Table 5.1.50.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-8-40\_n78 | 7 | 0.5 |
| 8 | 0.6 |
| 40 | 0.35 |
| n78 | 0.85 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

Table 5.1.50.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_7-8-40\_n78 | 7 | 0 |
| 8 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one NR band and without simultaneous Rx/Tx. | | |

### 5.1.50.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.51 DC\_1-7-8\_n28

### 5.1.51.1 Configurations for EN-DC

Table 5.1.51.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_1A-7A-8A\_n28A | DC\_1A\_n28A  DC\_7A\_n28A  DC\_8A\_n28A |

### 5.1.51.2 ∆TIB and ∆RIB values

Table 5.1.51.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-8\_n28 | 1 | 0.5 |
| 7 | 0.6 |
| 8 | 0.6 |
| n28 | 0.6 |

**Table 5.1.51.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-7-8\_n28 | 1 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| n28 | 0.2 |

### 5.1.51.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.52 DC\_3-7-8\_n28

### 5.1.52.1 Configurations for EN-DC

Table 5.1.52.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-7A-8A\_n28A | DC\_3A\_n28A  DC\_7A\_n28A  DC\_8A\_n28A |

### 5.1.52.2 ∆TIB and ∆RIB values

Table 5.1.52.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-8\_n28 | 3 | 0.5 |
| 7 | 0.5 |
| 8 | 0.6 |
| n28 | 0.5 |

**Table 5.1.52.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-7-8\_n28 | 3 | 0 |
| 7 | 0 |
| 8 | 0.2 |
| n28 | 0.1 |

### 5.1.52.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.53 DC\_1-7-28\_n3

### 5.1.53.1 Configurations for EN-DC

Table 5.1.53.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_1A-7A-28A\_n3A | DC\_1A\_n3A  DC\_7A\_n3A  DC\_28A\_n3A |

### 5.1.53.2 ∆TIB and ∆RIB values

Table 5.1.53.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-28\_n3 | 1 | 0.6 |
| 7 | 0.6 |
| 28 | 0.6 |
| n3 | 0.6 |

**Table 5.1.53.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-7-28\_n3 | 1 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| n3 | 0 |

### 5.1.53.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.54 DC\_3-8-40\_n1

### 5.1.54.1 Configurations for EN-DC

Table 5.1.54.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-8A-40A\_n1A  DC\_3A-8A-40C\_n1A | DC\_3A\_n1A  DC\_8A\_n1A  DC\_40A\_n1A |

### 5.1.54.2 ∆TIB and ∆RIB values

Table 5.1.54.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-8-40\_n1 | 3 | 0.5 |
| 8 | 0.5 |
| 40 | 0.6 |
| n1 | 0.5 |

**Table 5.1.54.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-8-40\_n1 | 3 | 0 |
| 8 | 0 |
| 40 | 0.2 |
| n1 | 0.1 |

### 5.1.54.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.55 DC\_7-8-40\_n1

### 5.1.55.1 Configurations for EN-DC

Table 5.1.55.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_7A-8A-40A\_n1A  DC\_7A-8A-40C\_n1A | DC\_7A\_n1A  DC\_8A\_n1A  DC\_40A\_n1A |

### 5.1.55.2 ∆TIB and ∆RIB values

Table 5.1.55.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-8-40\_n1 | 7 | 0.8 |
| 8 | 0.6 |
| 40 | 0.9 |
| n1 | 0.6 |

**Table 5.1.55.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-8-40\_n1 | 7 | 0.3 |
| 8 | 0.2 |
| 40 | 0.8 |
| n1 | 0 |

### 5.1.55.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

### 5.1.56 DC\_2-28-66\_n7

### 5.1.56.1 Configurations for EN-DC

Table 5.1.56.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-28A-66A\_n7A | DC\_2A\_n7A  DC\_28A\_n7A  DC\_66A\_n7A |

### 5.1.56.2 ∆TIB and ∆RIB values

Table 5.1.56.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-28-66\_n7 | 2 | 0.5 |
| 28 | 0.6 |
| 66 | 0.5 |
| n7 | 0.5 |

**Table 5.1.56.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-28-66\_n7 | 2 | 0.3 |
| 28 | 0.2 |
| 66 | 0.5 |
| n7 | 0.5 |

### 5.1.56.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.57 DC\_2-5-7\_n7

### 5.1.57.1 Configurations for EN-DC

Table 5.1.57.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-5A-7A\_n7A | DC\_2A\_n7A  DC\_5A\_n7A  DC\_7A\_n7A1 |
| NOTE 1: Only single switched UL is supported. | |

### 5.1.57.2 ∆TIB and ∆RIB values

Table 5.1.57.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n7 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| n7 | 0.5 |

**Table 5.1.57.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n7 | 2 | 0 |
| 5 | 0 |
| 7 | 0 |
| n7 | 0 |

### 5.1.57.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.58 DC\_2-7-66\_n7/DC\_2-7-66-66\_n7

### 5.1.58.1 Configurations for EN-DC

Table 5.1.58.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-7A-66A\_n7A  DC\_2A-7A-66A-66A\_n7A | DC\_2A\_n7A  DC\_7A\_n7A1  DC\_66A\_n7A |
| NOTE 1: Only single switched UL is supported. | |

### 5.1.58.2 ∆TIB and ∆RIB values

Table 5.1.58.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n7  DC\_2-7-66-66\_n7 | 2 | 0.5 |
| 7 | 0.5 |
| 66 | 0.5 |
| n7 | 0.5 |

**Table 5.1.58.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n7  DC\_2-7-66-66\_n7 | 2 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n7 | 0.5 |

### 5.1.58.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.59 DC\_5-7-66\_n7/DC\_5-7-66-66\_n7

### 5.1.59.1 Configurations for EN-DC

Table 5.1.59.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_5A-7A-66A\_n7A  DC\_5A-7A-66A-66A\_n7A | DC\_5A\_n7A  DC\_7A\_n7A1  DC\_66A\_n7A |
| NOTE 1: Only single switched UL is supported. | |

### 5.1.59.2 ∆TIB and ∆RIB values

Table 5.1.59.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_5-7-66\_n7  DC\_5-7-66-66\_n7 | 5 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n7 | 0.5 |

**Table 5.1.59.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_5-7-66\_n7  DC\_5-7-66-66\_n7 | 5 | 0 |
| 7 | 0.5 |
| 66 | 0.5 |
| n7 | 0.5 |

### 5.1.59.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.60 DC\_7-28-66\_n7

### 5.1.60.1 Configurations for EN-DC

Table 5.1.60.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_7A-28A-66A\_n7A | DC\_7A\_n7A1  DC\_78A\_n7A  DC\_66A\_n7A |
| NOTE 1: Only single switched UL is supported. | |

### 5.1.60.2 ∆TIB and ∆RIB values

Table 5.1.60.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-28-66\_n7 | 7 | 0.5 |
| 28 | 0.6 |
| 66 | 0.5 |
| n7 | 0.5 |

**Table 5.1.60.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-28-66\_n7 | 7 | 0.5 |
| 28 | 0.2 |
| 66 | 0.5 |
| n7 | 0.5 |

### 5.1.60.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

### 5.1.61 DC\_2-7-66\_n77

### 5.1.61.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_2A-7A-66A\_n77A  DC\_2A-7A-7A-66A\_n77A  DC\_2A-7A-66A\_n77(2A)  DC\_2A-7A-7A-66A\_n77(2A)  DC\_2A-7C-66A\_n77A  DC\_2A-7C-66A\_n77(2A) | DC\_2A\_n77A  DC\_7A\_n77A  DC\_66A\_n77A |

### 5.1.61.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_2-7-66\_n77 | 2 | 0.6 |
| 7 | 0.5 |
| 66 | 0.6 |
| n77 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_2-7-66\_n77 | 2 | 0.2 |
| 7 | 0.5 |
| 66 | 0.5 |
| n77 | 0.5 |

### 5.1.61.3 Reference sensitivity exceptions

No further REFSENS exceptions needed.

## 5.1.62 DC\_1-20-40\_n78

### 5.1.62.1 Configuration for EN-DC

Table 5.1.62.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-40A\_n78A | DC\_1A\_n78A  DC\_20A\_n78A  DC\_40A\_n78A |

### 5.1.62.2 ∆TIB and ∆RIB values

It is proposed to re-use relaxation values from DC\_1-20\_n41-n78 which is very similar.

Table 5.1.62.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-20-40\_n78 | 1 | 0.5 |
| 20 | 0.3 |
| 40 | 0.59 |
| n78 | 0.89 |
| NOTE 9: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

Table 5.1.62.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-20-40\_n78 | 1 | 0 |
| 20 | 0 |
| 40 | 09 |
| n78 | 0.89 |
| NOTE 9: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

### 5.1.62.3 Reference sensitivity exceptions

MSD have been defined for lower order combinations. No further MSD is needed.

### 5.1.63 DC\_1-8-42\_n3

#### 5.1.63.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-8A-42A\_n3A  DC\_1A-8A-42C\_n3A | DC\_1A\_n3A  DC\_8A\_n3A  DC\_42A\_n3A  DC\_42C\_n3A |

#### 5.1.63.2 ∆TIB and ∆RIB values

For DC\_1-8-42\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-8-42\_n3 | 1 | 0.3 |
| 8 | 0.6 |
| 42 | 0.8 |
| n3 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-8-42\_n3 | 1 | 0 |
| 8 | 0.2 |
| 42 | 0.5 |
| n3 | 0.2 |

#### 5.1.63.3 Reference sensitivity exceptions

Co-existence study for DC\_1-8-42\_n3 was covered by the studies for the fallback modes of DC\_1-8\_n3, DC\_1-42\_n3 and DC\_8-42\_n3.

No additional MSD requirement need to be defined for this dual connectivity configuration.

### 5.1.64 DC\_1-3-42\_n28

#### 5.1.64.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-3A-42A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_42A\_n28A |
| DC\_1A-3A-42C\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_42A\_n28A  DC\_42C\_n28A |

#### 5.1.64.2 ∆TIB and ∆RIB values

For DC\_1-3-42\_n28, the ΔTIB,c and ΔRIB,c values are given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-42\_n28 | 1 | 0.6 |
| 3 | 0.6 |
| 42 | 0.8 |
| n28 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-3-42\_n28 | 1 | 0.2 |
| 3 | 0.2 |
| 42 | 0.5 |
| n28 | 0.5 |

#### 5.1.64.3 Reference sensitivity exceptions

Co-existence study for DC\_1-3-42\_n28 was covered by the studies for the fallback modes of DC\_1-3\_n28, DC\_1-42\_n28 and DC\_3-42\_n28.

No additional MSD requirement need to be defined for this dual connectivity configuration.

### 5.1.65 DC\_2-29-66\_n78

#### 5.1.65.1 Configuration for EN-DC

Table 5.1.65.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-29A-66A\_n78A | DC\_2A\_n78A  DC\_66A\_n78A |

#### 5.1.65.2 ∆TIB and ∆RIB values

For DC\_2A-29A-66A\_n78A, the ΔTIB,c and ΔRIB,c values are reused from the LTE combination CA\_2-13-48-66, and are given in the tables below

Table 5.1.65.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-29-66\_n78 | 2 | 0.6 |
| 66 | 0.6 |
| n78 | 0.8 |

**Table 5.1.65.2-1: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-29-66\_n78 | 2 | 0.3 |
| 66 | 0.3 |
| n78 | 0.5 |

#### 5.1.65.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

### 5.1.66 DC\_7-8-32\_n1

#### 5.1.66.1 Configuration for EN-DC

Table 5.1.66.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-8A-32A\_n1A | DC\_7A\_n1A  DC\_8A\_n1A |

#### 5.1.66.2 ∆TIB and ∆RIB values

Table 5.1.66.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-8A-32A\_n1A | 7 | 0.7 |
| 8 | 0.6 |
| 32 | N/A |
| n1 | 0.7 |

Table 5.1.66.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-8A-32A\_n1A | 7 | 0 |
| 8 | 0.2 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.66.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.67 DC\_7-20-32\_n78

#### 5.1.67.1 Configuration for EN-DC

Table 5.1.67.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n78A | DC\_7A\_n78A  DC\_20A\_n78A |

#### 5.1.67.2 ∆TIB and ∆RIB values

Table 5.1.67.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-32A\_n78A | 7 | 0.7 |
| 20 | 0.5 |
| 32 | N/A |
| n78 | 0.8 |

Table 5.1.67.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-32A\_n78A | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| n78 | 0.5 |

#### 5.1.67.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.68 DC\_2A-12A-66A\_n41A

5.1.68.1 Operating bands for EN-DC

Table 5.1.68.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-12-66\_n41 | CA\_2-12-66 | n41 |  |

### 5.1.68.2 Configuration for DC

Table 5.1.68.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-12A-66A\_n41A | DC\_2A\_n41A, DC\_12A\_n41A, DC\_66A\_n41A | CA\_2A-12A-66A | n41A |
| DC\_2A-2A-12A-66A\_n41A | DC\_2A\_n41A, DC\_12A\_n41A, DC\_66A\_n41A | CA\_2A-2A-12A-66A | n41A |

5.1.68.3 ∆TIB and ∆RIB values

For DC\_2-12-66\_n41, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values CA\_2-7-12-66 in 36.101.

**Table 5.1.68.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-12-66\_n41 | 2 | 0.3 |
| 12 | 0.5 |
| 66 | 0.3 |
| n41 | 0.5 |

**Table 5.1.68.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-12-66\_n41 | 2 | 0.5 |
| 12 | 0.8 |
| 66 | 0.5 |
| n41 | 0.5 |

5.1.68.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.69 DC\_2A-66A-71A\_n41A

5.1.69.1 Operating bands for EN-DC

Table 5.1.69.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-66-71\_n41 | CA\_2-66-71 | n41 |  |

### 5.1.69.2 Configuration for DC

Table 5.1.69.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-12A-66A\_n41A | DC\_2A\_n41A, DC\_66A\_n41A  DC\_71A\_n41A | CA\_2A-66A-71A | n41A |
| DC\_2A-2A-66A-71A\_n41A | DC\_2A\_n41A, DC\_66A\_n41A  DC\_71A\_n41A | CA\_2A-2A-66A-71A | n41A |

5.1.69.3 ∆TIB and ∆RIB values

For DC\_2-66-71\_n41, the ΔTIB,c and ΔRIB,c values are given in the tables below, based on values for DC\_2-66-n41\_n71 in 38.101-3.

**Table 5.1.69.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-66-71\_n41 | 2 | 0.5 |
| 66 | 0.5 |
| 71 | 0.8 |
| n41 | 0.81 |
| 1.32 |

**Table 5.1.69.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-66-71\_n41 | 2 | 0.3 |
| 66 | 0.3 |
| 71 | 0.5 |
| n41 | 0.51 |
| 12 |

5.1.69.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.70 DC\_2A-7A-12A\_n66A

5.1.70.1 Operating bands for EN-DC

Table 5.1.70.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-12\_n66 | CA\_2-7-12 | n66 |  |

### 5.1.70.2 Configuration for DC

Table 5.1.70.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A-12A\_n66A | DC\_2A\_n66A, DC\_7A\_n66A  DC\_12A\_n66A | CA\_2A-7A-12A | n66A |
| DC\_2A-2A-7A-12A\_n66A | DC\_2A\_n66A, DC\_7A\_n66A  DC\_12A\_n66A | CA\_2A-2A-7A-12A | n66A |

5.1.70.3 ∆TIB and ∆RIB values

For DC\_2-7-12\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below. Based on values for CA\_2-7-12-66 in 36.101.

**Table 5.1.70.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n66 | 2 | 0.5 |
| 7 | 0.5 |
| 12 | 0.8 |
| n66 | 0.5 |

**Table 5.1.70.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n66 | 2 | 0.3 |
| 7 | 0.5 |
| 12 | 0.5 |
| n66 | 0.3 |

5.1.70.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.71 DC\_2A\_2A-5A-7A\_n66A

5.1.71.1 Operating bands for EN-DC

Table 5.1.71.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-2-5-7\_n66 | CA\_2-5-7 | n66 |  |

### 5.1.71.2 Configuration for DC

Table 5.1.71.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-2A-5A-7A\_n66A | DC\_2A\_n66A, DC\_5A\_n66A  DC\_7A\_n66A | CA\_2A-2A-5A-7A | n66A |

5.1.71.3 ∆TIB and ∆RIB values

For DC\_2-5-7\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below. Based on values for DC\_2-7-13\_n66 in 38.101-3.

**Table 5.1.71.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-2-5-7\_n66 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| n66 | 0.5 |

**Table 5.1.71.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-2-5-7\_n66 | 2 | 0.3 |
| 5 | 0 |
| 7 | 0.5 |
| n66 | 0.5 |

5.1.71.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.72 DC\_2A-7A-71A\_n66A

5.1.72.1 Operating bands for EN-DC

Table 5.1.72.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-71\_n66 | CA\_2-7-71 | n66 |  |

### 5.1.72.2 Configuration for DC

Table 5.1.72.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A-71A\_n66A | DC\_2A\_n66A, DC\_7A\_n66A  DC\_71A\_n66A | CA\_2A-7A-71A | n66A |
| DC\_2A-2A-7A-71A\_n66A | DC\_2A\_n66A, DC\_7A\_n66A  DC\_71A\_n66A | CA\_2A-2A-7A-71A | n66A |

5.1.72.3 ∆TIB and ∆RIB values

For DC\_2-7-71\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below, based on values for DC\_2-7-66\_n71 in 38.101-3.

**Table 5.1.72.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n66 | 2 | 0.5 |
| 7 | 0.5 |
| 71 | 0.3 |
| n66 | 0.5 |

**Table 5.1.72.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n66 | 2 | 0.3 |
| 7 | 0.5 |
| 71 | 0 |
| n66 | 0.3 |

5.1.72.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.73 DC\_2A-7A-12A\_n78A

5.1.73.1 Operating bands for EN-DC

Table 5.1.73.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-12\_n78 | CA\_2-7-12 | n78 |  |

### 5.1.73.2 Configuration for DC

Table 5.1.73.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A-12A\_n78A | DC\_2A\_n78A,  DC\_7A\_n78A DC\_12A\_n78A | CA\_2A-7A-12A | n78A |
| DC\_2A-2A-7A-12A\_n78A | DC\_2A\_n78A,  DC\_7A\_n78A DC\_12A\_n78A | CA\_2A-2A-7A-12A | n78A |

5.1.73.3 ∆TIB and ∆RIB values

For DC\_2A-7A-12A\_n78A, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for DC\_1-7-28\_n78 in 38.101-3.

**Table 5.1.73.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n78 | 2 | 0.6 |
| 7 | 0.6 |
| 12 | 0.6 |
| n78 | 0.8 |

**Table 5.1.73.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n78 | 2 | 0.2 |
| 7 | 0.2 |
| 12 | 0.2 |
| n78 | 0.5 |

5.1.73.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.74 DC\_2A-12A-66A\_n78A

5.1.74.1 Operating bands for EN-DC

Table 5.1.74.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-12-66\_n78 | CA\_2-12-66 | n78 |  |

### 5.1.74.2 Configuration for DC

Table 5.1.74.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-12A-66A\_n78A | DC\_2A\_n78A, DC\_12A\_n78A, DC\_66A\_n78A | CA\_2A-12A-66A | n78A |
| DC\_2A-2A-12A-66A\_n78A | DC\_2A\_n78A, DC\_12A\_n78A, DC\_66A\_n78A | CA\_2A-2A-12A-66A | n78A |

5.1.74.3 ∆TIB and ∆RIB values

For DC\_2-12-66\_n78, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values DC\_2-48-66\_n12 in 38.101-3.

**Table 5.1.74.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-12-66\_n78 | 2 | 0.6 |
| 12 | 0.3 |
| 66 | 0.6 |
| n78 | 0.8 |

**Table 5.1.74.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-12-66\_n78 | 2 | 0.3 |
| 12 | 0 |
| 66 | 0.3 |
| n78 | 0.5 |

5.1.74.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.75 DC\_7A-12A-66A\_n78A

5.1.75.1 Operating bands for EN-DC

Table 5.1.75.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 7-12-66\_n78 | CA\_7-12-66 | n78 |  |

### 5.1.75.2 Configuration for DC

Table 5.1.75.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_7A-12A-66A\_n78A | DC\_7A\_n78A, DC\_12A\_n78A, DC\_66A\_n78A | CA\_7A-12A-66A | n78A |

5.1.75.3 ∆TIB and ∆RIB values

For DC\_7-12-66\_n78, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_3-28-41-42 in 36.101.

**Table 5.1.75.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-12-66\_n78 | 7 | 0.8 |
| 12 | 0.5 |
| 66 | 1 |
| n78 | 0.8 |

**Table 5.1.75.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-12-66\_n78 | 7 | 0.5 |
| 12 | 0.2 |
| 66 | 0.5 |
| n78 | 0.5 |

5.1.75.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.76 DC\_7A-66A-71A\_n78A

5.1.76.1 Operating bands for EN-DC

Table 5.1.76.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 7-66-71\_n78 | CA\_7-66-71 | n78 |  |

### 5.1.76.2 Configuration for DC

Table 5.1.76.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_7A-66A-71A\_n78A | DC\_7A\_n78A, DC\_66A\_n78A, DC\_71A\_n78A | CA\_7A-66A-71A | n78A |

5.1.76.3 ∆TIB and ∆RIB values

For DC\_7-66-71\_n78, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for DC\_3-7-20\_n78 in 38.101-3.

**Table 5.1.76.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-66-71\_n78 | 7 | 0.6 |
| 66 | 0.6 |
| 71 | 0.3 |
| n78 | 0.8 |

**Table 5.1.76.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-66-71\_n78 | 7 | 0.2 |
| 66 | 0.2 |
| 71 | 0 |
| n78 | 0.5 |

5.1.76.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.77 DC\_2A-7A -71A\_n78A

5.1.77.1 Operating bands for EN-DC

Table 5.1.77.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-71\_n78 | CA\_2-7-71 | n78 |  |

### 5.1.77.2 Configuration for DC

Table 5.1.77.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A -71A\_n78A | DC\_2A\_n78A, DC\_7A\_n78A, DC\_71A\_n78A | CA\_2A-7A-71A | n78A |
| DC\_2A-2A-7A -71A\_n78A | DC\_2A\_n78A, DC\_7A\_n78A, DC\_71A\_n78A | CA\_2A-2A-7A-71A | n78A |

5.1.77.3 ∆TIB and ∆RIB values

For DC\_2-7-71\_n78, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for DC\_1-7-28\_n78.

**Table 5.1.77.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n78 | 2 | 0.6 |
| 7 | 0.6 |
| 71 | 0.6 |
| n78 | 0.8 |

**Table 5.1.77.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n78 | 2 | 0.2 |
| 7 | 0.2 |
| 71 | 0.2 |
| n78 | 0.5 |

5.1.77.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.78 DC\_2A-7A -66A\_n2A

5.1.78.1 Operating bands for EN-DC

Table 5.1.78.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-66\_n2 | CA\_2-7-66 | n2 |  |

### 5.1.78.2 Configuration for DC

Table 5.1.78.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A -66A\_n2A | DC\_7A\_n2A, DC\_66A\_n2A | CA\_2A-7A-66A | n2A |

5.1.78.3 ∆TIB and ∆RIB values

For DC\_2-7-66\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below, based on values for CA\_2-7-66 in 36.101.

**Table 5.1.78.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n2 | 2 | 0.5 |
| 7 | 0.5 |
| 66 | 0.5 |
| n2 | 0.5 |

**Table 5.1.78.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-66\_n2 | 2 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n2 | 0.3 |

5.1.78.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.79 DC\_2A-5A -7A\_n2A

5.1.79.1 Operating bands for EN-DC

Table 5.1.79.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-5-7\_n2 | CA\_2-5-7 | n2 |  |

### 5.1.79.2 Configuration for DC

Table 5.1.79.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-5A -7A\_n2A | DC\_5A\_n2A  DC\_7A\_n2A | CA\_2A-5A-7A | n2A |

5.1.79.3 ∆TIB and ∆RIB values

For DC\_2-5-7\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-5-7 in 36.101.

**Table 5.1.79.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n2 | 2 | 0.5 |
| 5 | 0.3 |
| 7 | 0.5 |
| n2 | 0.3 |

**Table 5.1.79.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-7\_n2 | 2 | 0 |
| 5 | 0 |
| 7 | 0 |
| n2 | 0 |

5.1.79.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.80 DC\_5A-7A -66A\_n2A

5.1.80.1 Operating bands for EN-DC

Table 5.1.80.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 5-7-66\_n2 | CA\_5-7-66 | n2 |  |

### 5.1.80.2 Configuration for DC

Table 5.1.80.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_5A-7A -66A\_n2A | DC\_5A\_n2A, DC\_7A\_n2A, DC\_66A\_n2A | CA\_5A-7A-66A | n2A |

5.1.80.3 ∆TIB and ∆RIB values

For DC\_5-7-66\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for DC\_2-7-13\_n66 in 38.101-3.

**Table 5.1.80.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_5-7-66\_n2 | 5 | 0.3 |
| 7 | 0.5 |
| 66 | 0.5 |
| n2 | 0.5 |

**Table 5.1.80.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_5-7-66\_n2 | 5 | 0 |
| 7 | 0.5 |
| 66 | 0.5 |
| n2 | 0.3 |

5.1.80.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.81 DC\_2A-7A -71A\_n2A

5.1.81.1 Operating bands for EN-DC

Table 5.1.81.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-71\_n2 | CA\_2-7-71 | n2 |  |

### 5.1.81.2 Configuration for DC

Table 5.1.81.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A -71A\_n2A | DC\_7A\_n2A, DC\_71A\_n2A | CA\_2A-7A-71A | n2A |

5.1.81.3 ∆TIB and ∆RIB values

For DC\_2-7-71\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-7\_n71 in 38.101-3.

**Table 5.1.81.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n2 | 2 | 0.5 |
| 7 | 0.5 |
| 71 | 0.6 |
| n2 | 0.5 |

**Table 5.1.81.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-71\_n2 | 2 | 0 |
| 7 | 0 |
| 71 | 0.2 |
| n2 | 0 |

5.1.81.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.82 DC\_2A-66A -71A\_n2A

5.1.82.1 Operating bands for EN-DC

Table 5.1.82.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-66-71\_n2 | CA\_2-66-71 | n2 |  |

### 5.1.82.2 Configuration for DC

Table 5.1.82.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-66A -71A\_n2A | DC\_66A\_n2A, DC\_71A\_n2A | CA\_2A-66A-71A | n2A |

5.1.82.3 ∆TIB and ∆RIB values

For DC\_2-66-71\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-66-71 in 36.101.

**Table 5.1.82.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-66-71\_n2 | 2 | 0.5 |
| 66 | 0.5 |
| 71 | 0.3 |
| n2 | 0.5 |

**Table 5.1.82.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-66-71\_n2 | 2 | 0.3 |
| 66 | 0.3 |
| 71 | 0 |
| n2 | 0.3 |

5.1.82.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.83 DC\_2A-7A -12A\_n2A

5.1.83.1 Operating bands for EN-DC

Table 5.1.83.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-7-12\_n2 | CA\_2-7-12 | n2 |  |

### 5.1.83.2 Configuration for DC

Table 5.1.83.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-7A -12A\_n2A | DC\_7A\_n2A, DC\_12A\_n2A | CA\_2A-7A-12A | n2A |

5.1.83.3 ∆TIB and ∆RIB values

For DC\_2-7-12\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-7\_12 in 36.101.

**Table 5.1.83.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n2 | 2 | 0.5 |
| 7 | 0.5 |
| 12 | 0.3 |
| n2 | 0.5 |

**Table 5.1.83.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-7-12\_n2 | 2 | 0 |
| 7 | 0 |
| 12 | 0 |
| n2 | 0 |

5.1.83.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.84 DC\_7A-66A-71A\_n2A

5.1.84.1 Operating bands for EN-DC

Table 5.1.84.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 7-66-71\_n2 | CA\_7-66-71 | n2 |  |

### 5.1.84.2 Configuration for DC

Table 5.1.84.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_7A-66A-71A\_n2A | DC\_7A\_n2A, DC\_66A\_n2A, DC\_71A\_n2A | CA\_7A-66A-71A | n2A |

5.1.84.3 ∆TIB and ∆RIB values

For DC\_7-66-71\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for DC\_2-7-66\_n71.

**Table 5.1.84.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-66-71\_n2 | 7 | 0.5 |
| 66 | 0.5 |
| 71 | 0.3 |
| n2 | 0.5 |

**Table 5.1.84.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-66-71\_n2 | 7 | 0.5 |
| 66 | 0.5 |
| 71 | 0 |
| n2 | 0.3 |

5.1.84.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

### 5.1.85 DC\_7A-12A-66A\_n2A

5.1.85.1 Operating bands for EN-DC

Table 5.1.85.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 7-12-66\_n2 | CA\_7-12-66 | n2 |  |

### 5.1.85.2 Configuration for DC

Table 5.1.85.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_7A-12A-66A\_n2A | DC\_7A\_n2A, DC\_12A\_n2A, DC\_66A\_n2A | CA\_7A-12A-66A | n2A |

5.1.85.3 ∆TIB and ∆RIB values

For DC\_7-12-66\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-4-7-12 in 36.101.

**Table 5.1.85.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-12-66\_n2 | 7 | 0.5 |
| 12 | 0.8 |
| 66 | 0.5 |
| n2 | 0.5 |

**Table 5.1.85.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-12-66\_n2 | 7 | 0.5 |
| 12 | 0.5 |
| 66 | 0.3 |
| n2 | 0.3 |

5.1.85.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.86 DC\_1-28-40\_n78

### 5.1.86.1 Configuration for EN-DC

Table 5.1.86.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-28A-40A\_n78A | DC\_1A\_n78A  DC\_28A\_n78A  DC\_40A\_n78A |

### 5.1.86.2 ∆TIB and ∆RIB values

Proposed relaxations are same as for DC\_1-28\_n40-n78.

Table 5.1.86.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-28-40\_n78 | 1 | 0.5 |
| 28 | 0.5 |
| 40 | 0.36 |
| n78 | 0.86 |
| NOTE 6: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

Table 5.1.86.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-28-40\_n78 | 1 | 0 |
| 28 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

### 5.1.86.3 REFSENS requirements

No additional MSD requirement need to be defined for this EN-DC configuration.

## 5.1.87 DC\_3-28-40\_n78

### 5.1.87.1 Configuration for EN-DC

Table 5.1.87.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-28A-40A\_n78A | DC\_3A\_n78A  DC\_28A\_n78A  DC\_40A\_n78A |

### 5.1.87.2 ∆TIB and ∆RIB values

Proposed relaxations are same as for DC\_3-28\_n40-n78.

Table 5.1.87.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-28-40\_n78 | 3 | 0.6 |
| 28 | 0.5 |
| 40 | 0.36 |
| n78 | 0.86 |
| NOTE 6: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

Table 5.1.87.2-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_3-28-40\_n78 | 3 | 0.2 |
| 28 | 0.2 |
| 40 | 0.45 |
| n78 | 0.55 |
| NOTE 5: Only applicable for UE supporting inter-band carrier aggregation with uplink in one E-UTRA band and without simultaneous Rx/Tx. | | |

### 5.1.87.3 REFSENS requirements

No additional MSD requirement need to be defined for this EN-DC configuration.

## 5.1.88 DC\_1-11-18\_n3

### 5.1.88.1 Configuration for EN-DC

Table 5.1.88.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-11A-18A\_n3A | DC\_1A\_n3A  DC\_11A\_n3A  DC\_18A\_n3A |

### 5.1.88.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-3-11, CA\_1-3-18, CA\_3-11-18, CA\_1-11-18 and are given in the tables below.

Table 5.1.88.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n3 | 1 | 0.3 |
| 11 | 0.9 |
| 18 | 0.3 |
| n3 | 0.8 |

**Table 5.1.88.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n3 | 1 | 0 |
| 11 | 0.5 |
| 18 | 0 |
| n3 | 0.3 |

### 5.1.88.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.89 DC\_1-11-18\_n28

### 5.1.89.1 Configuration for EN-DC

Table 5.1.89.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-11A-18A\_n28A | DC\_1A\_n28A  DC\_11A\_n28A  DC\_18A\_n28A |

### 5.1.89.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-11-18, CA\_1-11-28, CA\_1-18-28 and are given in the tables below.

Table 5.1.89.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n28 | 1 | 0.3 |
| 11 | 0.4 |
| 18 | 0.4 |
| n28 | 0.6 |

**Table 5.1.89.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n28 | 1 | 0 |
| 11 | 0 |
| 18 | 0 |
| n28 | 0.1 |

### 5.1.89.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.90 DC\_1-11-18\_n41

### 5.1.90.1 Configuration for EN-DC

Table 5.1.90.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-11A-18A\_n41A | DC\_1A\_n41A  DC\_11A\_n41A  DC\_18A\_n41A |

### 5.1.90.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-11-18, CA\_1-18-41 and are given in the tables below.

Table 5.1.90.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n41 | 1 | 0.5 |
| 11 | 0.4 |
| 18 | 0.3 |
| n41 | 0.5 |

**Table 5.1.90.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-11-18\_n41 | 1 | 0 |
| 11 | 0 |
| 18 | 0 |
| n41 | 0 |

### 5.1.90.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.91 DC\_2-5-66\_n48

### 5.1.91.1 Configuration for EN-DC

Table 5.1.91.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-5A-66A\_n48A  DC\_2A-5A-66A\_n48B  DC\_2A-5A-66A-66A\_n48A  DC\_2A-5A-66A-66A\_n48B | DC\_2A\_n48A  DC\_5A\_n48A  DC\_66A\_n48A |

### 5.1.91.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 38.101-3 DC\_2-5-66\_n77, and are given in the tables below.

Table 5.1.91.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n48  DC\_2-5-66-66\_n48 | 2 | 0.5 |
| 5 | 0.3 |
| 66 | 0.5 |
| n48 | 0.8 |

**Table 5.1.91.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-66\_n48  DC\_2-5-66-66\_n48 | 2 | 0.3 |
| 5 | 0 |
| 66 | 0.3 |
| n48 | 0.5 |

### 5.1.91.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.92 DC\_2-13-48\_n77

### 5.1.92.1 Configuration for EN-DC

Table 5.1.92.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-13A-48A\_n77A | DC\_2A\_n77A, DC\_13A\_n77A, DC\_48A\_n77A |

### 5.1.92.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are refer to TS 36.101 CA\_2-13-48, and are given in the tables below.

Table 5.1.92.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-13-48\_n77 | 2 | 0.6 |
| 13 | 0.3 |
| 48 | 0.8 |
| n77 | 0.8 |

**Table 5.1.92.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-13-48\_n77 | 2 | 0.2 |
| 13 | 0 |
| 48 | 0.5 |
| n77 | 0.5 |

### 5.1.92.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.93 DC\_2-46-48\_n2

### 5.1.93.1 Configuration for EN-DC

Table 5.1.93.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-46A-48A\_n2A  DC\_2A-46C-48A\_n2A  DC\_2A-46D-48A\_n2A  DC\_2A-46E-48A\_n2A | DC\_2A\_n2A4  DC\_48A\_n2A |
| NOTE 4: Only single switched UL is supported. | |

### 5.1.93.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are refer to TS 36.101 CA\_2-46-48, and are given in the tables below

Table 5.1.93.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-46-48\_n2 | 2 | 0.6 |
| 48 | 0.8 |
| n2 | 0.6 |

**Table 5.1.93.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-46-48\_n2 | 2 | 0.3 |
| 48 | 0.5 |
| n2 | 0.3 |

### 5.1.93.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.94 DC\_2-48-66\_n2

### 5.1.94.1 Configuration for EN-DC

Table 5.1.94.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-48A-66A\_n2A  DC\_2A-48C-66A\_n2A  DC\_2A-48D-66A\_n2A  DC\_2A-48E-66A\_n2A | DC\_66A\_n2A  DC\_48A\_n2A  DC\_2A\_n2A4 |
| NOTE 4: Only single switched UL is supported. | |

### 5.1.94.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are refer to TS 36.101 CA\_2-48-66, and are given in the tables below

Table 5.1.94.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-48-66\_n2 | 2 | 0.6 |
| 48 | 0.8 |
| 66 | 0.6 |
| n2 | 0.6 |

**Table 5.1.94.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-48-66\_n2 | 2 | 0.3 |
| 48 | 0.5 |
| 66 | 0.3 |
| n2 | 0.3 |

### 5.1.94.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.95 DC\_2-48-66\_n66

### 5.1.95.1 Configuration for EN-DC

Table 5.1.95.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_2A-48A-66A\_n66A  DC\_2A-48C-66A\_n66A  DC\_2A-48D-66A\_n66A  DC\_2A-48E-66A\_n66A | DC\_66A\_n66A4  DC\_48A\_n66A  DC\_2A\_n66A |
| NOTE 4: Only single switched UL is supported. | |

### 5.1.95.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are refer to TS 36.101 CA\_2-48-66 and TS 38.101-3 DC\_2-48\_n66, and are given in the tables below.

Table 5.1.95.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-48-66\_n66 | 2 | 0.6 |
| 48 | 0.8 |
| 66 | 0.6 |
| n66 | 0.6 |

**Table 5.1.95.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_2-48-66\_n66 | 2 | 0.3 |
| 48 | 0.5 |
| 66 | 0.3 |
| n66 | 0.3 |

### 5.1.95.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

## 5.1.96 DC\_13-48-66\_n77

### 5.1.96.1 Configuration for EN-DC

Table 5.1.96.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_13A-48A-66A\_n77A | DC\_13A\_n77A, DC\_66A\_n77A, |

### 5.1.96.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are refer to TS 36.101 CA\_13-48-66, and are given in the tables below.

Table 5.1.96.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_13-48-66\_n77 | 13 | 0.3 |
| 48 | 0.8 |
| 66 | 0.6 |
| n77 | 0.8 |

**Table 5.1.96.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_13-48-66\_n77 | 13 | 0 |
| 48 | 0.5 |
| 66 | 0.2 |
| n77 | 0.5 |

### 5.1.96.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

5.1.97 DC\_1-3-20\_n7

### 5.1.97.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-3A-20A\_n7A | DC\_1A\_n7A DC\_3A\_n7A DC\_20A\_n7A |

### 5.1.97.2 ∆TIB and ∆RIB values

For DC\_1-3-20\_n7, the same ΔTIB,c and ΔRIB,c values of DC\_1-7-20\_n3 are adopted and given in the tables below.

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-20\_n7 | 1 | 0.3 |
| 3 | 0.5 |
| 20 | 0.3 |
| n7 | 0.5 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-3-20\_n7 | 1 | 0 |
| 3 | 0 |
| 20 | 0 |
| n7 | 0 |

### 5.1.97.3 Reference sensitivity exceptions

Co-existence study for DC\_1-3-20\_n7 was covered by the studies for the fallback modes. No additional MSD requirement need to be defined for this dual connectivity configuration.

## 5.1.98 DC\_1-3-38\_n28

### 5.1.98.1 Configurations for EN-DC

Table 5.1.98.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_1A-3A-38A\_n28A  DC\_1A-3C-38A\_n28A | DC\_1A\_n28A  DC\_3A\_n28A  DC\_38A\_n28A |

### 5.1.98.2 ∆TIB and ∆RIB values

Table 5.1.98.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-38\_n28 | 1 | 0.5 |
| 3 | 0.5 |
| 38 | 0.5 |
| n28 | 0.6 |

**Table 5.1.98.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-3-38\_n28 | 1 | 0 |
| 3 | 0 |
| 38 | 0 |
| n28 | 0.2 |

### 5.1.98.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.99 DC\_1-7-38\_n28

### 5.1.99.1 Configurations for EN-DC

Table 5.1.99.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_1A-7A-38A\_n28AX | DC\_1A\_n28A |
| NOTE X: Band 7 and Band 38 are restricted as DL Scell. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within 6dB. | |

### 5.1.99.2 ∆TIB and ∆RIB values

Table 5.1.99.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-38\_n28 | 1 | 0.3 |
| 7 | 0 |
| 38 | 0 |
| n28 | 0.6 |

**Table 5.1.99.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-7-38\_n28 | 1 | 0 |
| 7 | 0 |
| 38 | 0.2 |
| n28 | 0.2 |

### 5.1.99.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.100 DC\_3-7-38\_n28

### 5.1.100.1 Configurations for EN-DC

Table 5.1.100.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-7A-38A\_n28AX  DC\_3C-7A-38A\_n28AX | DC\_3A\_n28A |
| NOTE X: Band 7 and Band 38 are restricted as DL Scell. Power imbalance between downlink carriers on Band 7 and Band 38 is assumed to be within 6dB. | |

### 5.1.100.2 ∆TIB and ∆RIB values

Table 5.1.100.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-38\_n28 | 3 | 0.3 |
| 7 | 0 |
| 38 | 0 |
| n28 | 0.3 |

**Table 5.1.100.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-7-38\_n28 | 3 | 0 |
| 7 | 0 |
| 38 | 0.2 |
| n28 | 0.2 |

### 5.1.100.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.101 DC\_2-5-30\_n2

### 5.1.101.1 Operating bands for EN-DC

Table 5.1.101.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-5-30\_n2 | CA\_2-5-30 | n2 |  |

### 5.1.101.2 Configuration for DC

Table 5.1.101.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-5A-30A\_n2A | DC\_2A\_n2A1  DC\_5A\_n2A DC\_30A\_n2A | CA\_2A-5A-30A | n2A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.101.3 ∆TIB and ∆RIB values

For DC\_2-5-30\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-5-30 in 36.101.

**Table 5.1.101.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-30\_n2 | 2 | 0.5 |
| 5 | 0.3 |
| 30 | 0.3 |
| n2 | 0.5 |

**Table 5.1.101.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-30\_n2 | 2 | 0.4 |
| 5 | 0 |
| 30 | 0.5 |
| n2 | 0.4 |

### 5.1.101.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.102 DC\_2-5-30\_n66

### 5.1.102.1 Operating bands for EN-DC

Table 5.1.102.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-5-30\_n66 | CA\_2-5-30 | n66 |  |

### 5.1.102.2 Configuration for DC

Table 5.1.102.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-5A-30A\_n66A | DC\_2A\_n66A DC\_5A\_n66A DC\_30A\_n66A | CA\_2A-5A-30A | n66 |
| DC\_2A-2A-5A-30A\_n66A | DC\_2A\_n66A DC\_5A\_n66A DC\_30A\_n66A | CA\_2A-2A-5A-30A | n66 |

### 5.1.102.3 ∆TIB and ∆RIB values

For DC\_2-5-30\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-5-30-66 in 36.101.

**Table 5.1.102.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-5-30\_n66 | 2 | 0.5 |
| 5 | 0.3 |
| 30 | 0.3 |
| n66 | 0.5 |

**Table 5.1.102.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-5-30\_n66 | 2 | 0.4 |
| 5 | 0 |
| 30 | 0.5 |
| n66 | 0.4 |

### 5.1.102.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.103 DC\_2-14-30\_n2

### 5.1.103.1 Operating bands for EN-DC

Table 5.1.103.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-14-30\_n2 | CA\_2-14-30 | n2 |  |

### 5.1.103.2 Configuration for DC

Table 5.1.103.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-14A-30A\_n2A | DC\_2A\_n2A1  DC\_14A\_n2A DC\_30A\_n2A | CA\_2A-14A-30A | n2A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.103.3 ∆TIB and ∆RIB values

For DC\_2-14-30\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-14-30 in 36.101.

**Table 5.1.103.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-14-30\_n2 | 2 | 0.5 |
| 14 | 0.3 |
| 30 | 0.5 |
| n2 | 0.5 |

**Table 5.1.103.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-14-30\_n2 | 2 | 0.3 |
| 14 | 0 |
| 30 | 0.3 |
| n2 | 0.3 |

### 5.1.103.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.104 DC\_2-29-30\_n66

### 5.1.104.1 Operating bands for EN-DC

Table 5.1.104.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-29-30\_n66 | CA\_2-29-30 | n66 |  |

### 5.1.104.2 Configuration for DC

Table 5.1.104.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-29A-30A\_n66A | DC\_2A\_n66A  DC\_30A\_n66A | CA\_2A-29A-30A | n66 |
| DC\_2A-2A-29A-30A\_n66A | DC\_2A\_n66A  DC\_30A\_n66A | CA\_2A-2A-29A-30A | n66 |

### 5.1.104.3 ∆TIB and ∆RIB values

For DC\_2-29-30\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-29-30-66 in 36.101.

**Table 5.1.104.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-29-30\_n66 | 2 | 0.5 |
| 30 | 0.3 |
| n66 | 0.5 |

**Table 5.1.104.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-29-30\_n66 | 2 | 0.4 |
| 29 | 0 |
| 30 | 0.5 |
| n66 | 0.4 |

### 5.1.104.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.105 DC\_2-46-66\_n5

### 5.1.105.1 Operating bands for EN-DC

Table 5.1.105.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-46-66\_n5 | CA\_2-46-66 | n5 |  |

### 5.1.105.2 Configuration for DC

Table 5.1.105.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-46A-66A\_n5A | DC\_2A\_n5A  DC\_66A\_n5A | CA\_2A-46A-66A | n5 |
| DC\_2A-46C-66A\_n5A | DC\_2A\_n5A DC\_66A\_n5A | CA\_2A-46C-66A | n5 |
| DC\_2A-46D-66A\_n5A | DC\_2A\_n5A  DC\_66A\_n5A | CA\_2A-46D-66A | n5 |

### 5.1.105.3 ∆TIB and ∆RIB values

For DC\_2-46-66\_n5, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-5-46-66 in 36.101.

**Table 5.1.105.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-46-66\_n5 | 2 | 0.5 |
| 66 | 0.5 |
| n5 | 0.3 |

**Table 5.1.105.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-46-66\_n5 | 2 | 0.3 |
| 46 | 0 |
| 66 | 0.3 |
| n5 | 0 |

### 5.1.105.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.106 DC\_5-30-66\_n2

### 5.1.106.1 Operating bands for EN-DC

Table 5.1.106.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 5-30-66\_n2 | CA\_5-30-66 | n2 |  |

### 5.1.106.2 Configuration for DC

Table 5.1.106.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_5A-30A-66A\_n2A | DC\_5A\_n2A DC\_30A\_n2A DC\_66A\_n2A | CA\_5A-30A-66A | n2A |
| DC\_5A-30A-66A-66A\_n2A | DC\_5A\_n2A DC\_30A\_n2A DC\_66A\_n2A | CA\_5A-30A-66A-66A | n2A |

### 5.1.106.3 ∆TIB and ∆RIB values

For DC\_5-3A-66\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-5-30-66 in 36.101.

**Table 5.1.106.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_5-30-66\_n2 | 5 | 0.3 |
| 30 | 0.3 |
| 66 | 0.5 |
| n2 | 0.5 |

**Table 5.1.106.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_5-30-66\_n2 | 5 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| n2 | 0.4 |

### 5.1.106.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.107 DC\_5-30-66\_n66

### 5.1.107.1 Operating bands for EN-DC

Table 5.1.107.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 5-30-66\_n66 | CA\_5-30-66 | n66 |  |

### 5.1.107.2 Configuration for DC

Table 5.1.107.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_5A-30A-66A\_n66A | DC\_5A\_n66A DC\_30A\_n66A  DC\_66A\_n66A1 | CA\_5A-30A-66A | n66A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.107.3 ∆TIB and ∆RIB values

For DC\_5-30-66\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_5-30-66 in 36.101.

**Table 5.1.107.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_5-30-66\_n66 | 5 | 0.3 |
| 30 | 0.3 |
| 66 | 0.5 |
| n66 | 0.5 |

**Table 5.1.107.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_5-30-66\_n66 | 5 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| n66 | 0.4 |

### 5.1.107.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.108 DC\_14-30-66\_n66

### 5.1.108.1 Operating bands for EN-DC

Table 5.1.108.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 14-30-66\_n66 | CA\_14-30-66 | n66 |  |

### 5.1.108.2 Configuration for DC

Table 5.1.108.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_14A-30A-66A\_n66A | DC\_14A\_n66A DC\_30A\_n66A  DC\_66A\_n66A1 | CA\_14A-30A-66A | n66A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.108.3 ∆TIB and ∆RIB values

For DC\_14-30-66\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_14-30-66 in 36.101.

**Table 5.1.108.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_14-30-66\_n66 | 14 | 0.5 |
| 30 | 0.3 |
| 66 | 0.5 |
| n66 | 0.5 |

**Table 5.1.108.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_14-30-66\_n66 | 14 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| n66 | 0.4 |

### 5.1.108.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.109 DC\_14-30-66\_n2

### 5.1.109.1 Operating bands for EN-DC

Table 5.1.109.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 14-30-66-66\_n2 | CA\_14-30-66 | n2 |  |

### 5.1.109.2 Configuration for DC

Table 5.1.109.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_14A-30A-66A\_n2A | DC\_14A\_n2A, DC\_30A\_n2A DC\_66A\_n2A | CA\_14A-30A-66A | n2A |
| DC\_14A-30A-66A-66A\_n2A | DC\_14A\_n2A, DC\_30A\_n2A DC\_66A\_n2A | CA\_14A-30A-66A-66A | n2A |

### 5.1.109.3 ∆TIB and ∆RIB values

For DC\_14-30-66\_n2, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values CA\_2-14-30-66 in 36.101.

**Table 5.1.109.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_14-30-66-n2 | 14 | 0.3 |
| 30 | 0.3 |
| 66 | 0.5 |
| n2 | 0.5 |

**Table 5.1.109.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_14-30-66-n2 | 14 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| n2 | 0.4 |

### 5.1.109.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.110 DC\_2-2-14-30\_n66

### 5.1.110.1 Operating bands for EN-DC

Table 5.1.110.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-14-30\_n66 | CA\_2-14-30 | n66 |  |

### 5.1.110.2 Configuration for DC

Table 5.1.110.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-14A-30A\_n66A | DC\_2A\_n66A  DC\_14A\_n66A DC\_30A\_n66A  DC\_66A\_n66A1 | CA\_2A-14A-30A | n66A |
| DC\_2A-2A-14A-30A\_n66A | DC\_2A\_n66A DC\_14A\_n66A DC\_30A\_n66A DC\_66A\_n66A1 | CA\_2A-2A-14A-30A | n66A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.110.3 ∆TIB and ∆RIB values

For DC\_2-2-14-30\_n66, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values CA\_2-14-30-66 in 36.101.

**Table 5.1.110.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-14-30\_n66 | 2 | 0.5 |
| 14 | 0.3 |
| 30 | 0.3 |
| n66 | 0.5 |

**Table 5.1.110.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-14-30\_n66 | 2 | 0.4 |
| 14 | 0 |
| 30 | 0.5 |
| n66 | 0.4 |

### 5.1.110.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.111 DC\_1-3-7\_n3

### 5.1.111.1 Operating bands for EN-DC

Table 5.1.111.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 1-3-7\_n3 | CA\_1-3-7 | n3 |  |

### 5.1.111.2 Configuration for DC

Table 5.1.111.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_1A-3A-7A\_n3A | DC\_1A\_n3A  DC\_3A\_n3A1  DC\_7A\_n3A | CA\_1A-3A-7A | n3A |
| DC\_1A-3A-7C\_n3A | DC\_1A\_n3A  DC\_3A\_n3A1  DC\_7A\_n3A  DC\_7C\_n3A | CA\_1A-3A-7C | n3A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.111.3 ∆TIB and ∆RIB values

For DC\_1-3-7\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_1-3-7 in 36.101.

**Table 5.1.111.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-7\_n3 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| n3 | 0.6 |

**Table 5.1.111.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-3-7\_n3 | 1 | 0 |
| 3 | 0 |
| 7 | 0 |
| n3 | 0 |

### 5.1.111.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.112 1-3-28\_n3

### 5.1.112.1 Operating bands for EN-DC

Table 5.1.112.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 1-3-28\_n3 | CA\_1-3-28 | n3 |  |

### 5.1.112.2 Configuration for DC

Table 5.1.112.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_1A-3A-28A\_n3A | DC\_1A\_n3A  DC\_3A\_n3A1  DC\_28A\_n3A | CA\_1A-3A-28A | n3A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.112.3 ∆TIB and ∆RIB values

For DC\_1-3-28\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_1-3-28 in 36.101.

**Table 5.1.112.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-28\_n3 | 1 | 0.3 |
| 3 | 0.3 |
| 28 | 0.6 |
| n3 | 0.3 |

**Table 5.1.112.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_1-3-28\_n3 | 1 | 0 |
| 3 | 0 |
| 28 | 0.2 |
| n3 | 0 |

### 5.1.112.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.113 3-7-28\_n3

### 5.1.113.1 Operating bands for EN-DC

Table 5.1.113.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 3-7-28\_n3 | CA\_3-7-28 | n3 |  |

### 5.1.113.2 Configuration for DC

Table 5.1.113.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_3A-7A-28A\_n3A | DC\_3A\_n3A1  DC\_7A\_n3A  DC\_28A\_n3A | CA\_3A-7A-28A | n3A |
| DC\_3A-7C-28A\_n3A | DC\_3A\_n3A1  DC\_7A\_n3A  DC\_7C\_n3A  DC\_28A\_n3A | CA\_3A-7C-28A | n3A |
| NOTE 1: Only single switched UL is supported | | | |

### 5.1.113.3 ∆TIB and ∆RIB values

For DC\_3-7-28\_n3, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_3-7-28 in 36.101.

**Table 5.1.113.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-28\_n3 | 3 | 0.5 |
| 7 | 0.5 |
| 28 | 0.3 |
| n3 | 0.5 |

**Table 5.1.113.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-7-28\_n3 | 3 | 0 |
| 7 | 0 |
| 28 | 0 |
| n3 | 0 |

### 5.1.113.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.114 DC\_2-29-66\_n260

### 5.1.114.1 Operating bands for EN-DC

Table 5.1.114.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-29-66\_n260 | CA\_2-29-66 | n260 |  |

### 5.1.114.2 Configuration for DC

Table 5.1.114.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-29A-66A\_n260A  DC\_2A-29A-66A\_n260G  DC\_2A-29A-66A\_n260H  DC\_2A-29A-66A\_n260I  DC\_2A-29A-66A\_n260J  DC\_2A-29A-66A\_n260K  DC\_2A-29A-66A\_n260L  DC\_2A-29A-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A  DC\_2A\_n260G  DC\_66A\_n260G  DC\_2A\_n260H  DC\_66A\_n260H  DC\_2A\_n260I  DC\_66A\_n260I  DC\_2A\_n260J  DC\_66A\_n260J  DC\_2A\_n260K  DC\_66A\_n260K  DC\_2A\_n260L  DC\_66A\_n260L  DC\_2A\_n260M DC\_66A\_n260M | CA\_2A-29A-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |

### 5.1.114.3 ∆TIB and ∆RIB values

For DC\_2-29-66\_n260, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-29-66 in 36.101.

**Table 5.1.114.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-29-66\_n260 | 2 | 0.5 |
| 66 | 0.5 |
| n260 | 0 |

**Table 5.1.114.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-29-66\_n260 | 2 | 0.3 |
| 29 | 0 |
| 66 | 0.3 |
| n260 | 0 |

### 5.1.114.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.115 DC\_2-46-66\_n260

### 5.1.115.1 Operating bands for EN-DC

Table 5.1.115.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 2-46-66\_n260 | CA\_2-46-66 | n260 |  |

### 5.1.115.2 Configuration for DC

Table 5.1.115.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_2A-46A-66A\_n260A DC\_2A-46A-66A\_n260G  DC\_2A-46A-66A\_n260H  DC\_2A-46A-66A\_n260I  DC\_2A-46A-66A\_n260J  DC\_2A-46A-66A\_n260K  DC\_2A-46A-66A\_n260L  DC\_2A-46A-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A  DC\_2A\_n260G  DC\_66A\_n260G  DC\_2A\_n260H  DC\_66A\_n260H  DC\_2A\_n260I  DC\_66A\_n260I  DC\_2A\_n260J  DC\_66A\_n260J DC\_2A\_n260K  DC\_66A\_n260K  DC\_2A\_n260L  DC\_66A\_n260L  DC\_2A\_n260M  DC\_66A\_n260M | CA\_2A-46A-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |
| DC\_2A-46C-66A\_n260A DC\_2A-46C-66A\_n260G  DC\_2A-46C-66A\_n260H  DC\_2A-46C-66A\_n260I  DC\_2A-46C-66A\_n260J  DC\_2A-46C-66A\_n260K  DC\_2A-46C-66A\_n260L  DC\_2A-46C-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A  DC\_2A\_n260G  DC\_66A\_n260G  DC\_2A\_n260H  DC\_66A\_n260H  DC\_2A\_n260I  DC\_66A\_n260I  DC\_2A\_n260J  DC\_66A\_n260J DC\_2A\_n260K  DC\_66A\_n260K  DC\_2A\_n260L  DC\_66A\_n260L  DC\_2A\_n260M  DC\_66A\_n260M | CA\_2A-46C-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |
| DC\_2A-46D-66A\_n260A DC\_2A-46D-66A\_n260G  DC\_2A-46D-66A\_n260H  DC\_2A-46D-66A\_n260I  DC\_2A-46D-66A\_n260J  DC\_2A-46D-66A\_n260K  DC\_2A-46D-66A\_n260L  DC\_2A-46D-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A  DC\_2A\_n260G  DC\_66A\_n260G  DC\_2A\_n260H  DC\_66A\_n260H  DC\_2A\_n260I  DC\_66A\_n260I  DC\_2A\_n260J  DC\_66A\_n260J DC\_2A\_n260K  DC\_66A\_n260K  DC\_2A\_n260L  DC\_66A\_n260L  DC\_2A\_n260M  DC\_66A\_n260M | CA\_2A-46D-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |
| DC\_2A-46E-66A\_n260A DC\_2A-46E-66A\_n260G  DC\_2A-46E-66A\_n260H  DC\_2A-46E-66A\_n260I  DC\_2A-46E-66A\_n260J  DC\_2A-46E-66A\_n260K  DC\_2A-46E-66A\_n260L  DC\_2A-46E-66A\_n260M | DC\_2A\_n260A  DC\_66A\_n260A  DC\_2A\_n260G  DC\_66A\_n260G  DC\_2A\_n260H  DC\_66A\_n260H  DC\_2A\_n260I DC\_66A\_n260I  DC\_2A\_n260J  DC\_66A\_n260J DC\_2A\_n260K  DC\_66A\_n260K  DC\_2A\_n260L  DC\_66A\_n260L  DC\_2A\_n260M  DC\_66A\_n260M | CA\_2A-46E-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |

### 5.1.115.3 ∆TIB and ∆RIB values

For DC\_2-46-66\_n260, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_2-46-66 in 36.101.

**Table 5.1.115.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_2-46-66\_n260 | 2 | 0.5 |
| 66 | 0.5 |
| n260 | 0 |

**Table 5.1.115.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_2-46-66\_n260 | 2 | 0 |
| 46 | 0 |
| 66 | 0 |
| n260 | 0 |

### 5.1.115.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.116 DC\_29-30-66\_n260

### 5.1.116.1 Operating bands for EN-DC

Table 5.1.116.1-1: Band combinations EN-DC (four bands)

| EN-DC band | E-UTRA CA band | NR band | Single UL allowed |
| --- | --- | --- | --- |
| 29-30-66\_n260 | CA\_29-30-66 | n260 |  |

### 5.1.116.2 Configuration for DC

Table 5.1.116.2-1: Inter-band EN-DC configurations (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration  (NOTE 1) | E-UTRA CA configuration | NR band |
| --- | --- | --- | --- |
| DC\_29A-30-66A\_n260A  DC\_29A-30-66A\_n260G  DC\_29A-30-66A\_n260H  DC\_29A-30-66A\_n260I  DC\_29A-30-66A\_n260J  DC\_29A-30-66A\_n260K  DC\_29A-30-66A\_n260L  DC\_29A-30-66A\_n260M | DC\_30A\_n260A  DC\_66A\_n260A  DC\_30A\_n260G  DC\_66A\_n260G  DC\_30A\_n260H  DC\_66A\_n260H  DC\_30A\_n260I  DC\_66A\_n260I  DC\_30A\_n260J  DC\_66A\_n260J  DC\_30A\_n260K  DC\_66A\_n260K  DC\_30A\_n260L  DC\_66A\_n260L  DC\_30A\_n260M  DC\_66A\_n260 M | CA\_29A-30A-66A | n260A  n260G  n260H  n260I  n260J  n260K  n260L  n260M |

5.1.116.3 ∆TIB and ∆RIB values

For DC\_29-30-66\_n260, the ΔTIB,c and ΔRIB,c values are given in the tables below based on values for CA\_29-30-66 in 36.101.

**Table 5.1.116.3-1: ΔTIB,c**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_29-30-66\_n260 | 30 | 0.3 |
| 66 | 0.5 |
| n260 | 0 |

**Table 5.1.116.3-2: ΔRIB**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_29-30-66\_n260 | 29 | 0 |
| 30 | 0.5 |
| 66 | 0.4 |
| n260 | 0 |

### 5.1.116.4 REFSENS requirements

MSD requirements are covered in lower order combinations.

## 5.1.117 DC\_3-20-28\_n1

### 5.1.117.1 Configurations for EN-DC

Table 5.1.117.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-20A-28A\_n1A | DC\_3A\_n1A  DC\_20A\_n1A  DC\_28A\_n1A |
|  | |

### 5.1.117.2 ∆TIB and ∆RIB values

Table 5.1.117.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-20-28\_n1 | 3 | 0.3 |
| 20 | 0.6 |
| 28 | 0.6 |
| n1 | 0.3 |

**Table 5.1.117.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-20-28\_n1 | 3 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| n1 | 0 |

### 5.1.117.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

## 5.1.118 DC\_7-20-28\_n1

### 5.1.118.1 Configurations for EN-DC

Table 5.1.118.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_7A-20A-28A\_n1A | DC\_7A\_n1A  DC\_20A\_n1A  DC\_28A\_n1A |
|  | |

### 5.1.118.2 ∆TIB and ∆RIB values

Table 5.1.118.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-20-28\_n1 | 7 | 0.6 |
| 20 | 0.6 |
| 28 | 0.6 |
| n1 | 0.5 |

**Table 5.1.118.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_7-20-28\_n1 | 7 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| n1 | 0 |

### 5.1.118.3 Reference sensitivity exceptions

REFSENS exceptions are not needed.

### 5.1.119.1 Configuration for EN-DC

Table 5.1.119.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-5A\_n77A  DC\_1A-3A-5A\_n77(2A) | DC\_1A\_n77A  DC\_3A\_n77A  DC\_5A\_n77A |

### 5.1.119.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-3-5 and TS 38.101-3 DC\_1-3\_n77,DC\_1-5\_n78 and DC\_3-5\_n78.

Table 5.1.119.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-5\_n77 | 1 | 0.6 |
| 3 | 0.6 |
| 5 | 0.6 |
| n77 | 0.8 |

**Table 5.1.119.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-5\_n77 | 1 | 0.2 |
| 3 | 0.2 |
| 5 | 0.2 |
| n77 | 0.5 |

### 5.1.119.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

### 5.1.120.1 Configuration for EN-DC

Table 5.1.120.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-3A-7A\_n77A  DC\_1A-3A-7A\_n77(2A)  DC\_1A-3A-7A-7A\_n77A  DC\_1A-3A-7A-7A\_n77(2A) | DC\_1A\_n77A  DC\_3A\_n77A  DC\_7A\_n77A |

### 5.1.120.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-3-7 and TS 38.101-3 DC\_1-3\_n77,DC\_1-7\_n78 and DC\_3-7\_n77.

Table 5.1.120.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-7\_n77 | 1 | 0.6 |
| 3 | 0.6 |
| 7 | 0.6 |
| n77 | 0.8 |

**Table 5.1.120.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-3-7\_n77 | 1 | 0.2 |
| 3 | 0.2 |
| 7 | 0.2 |
| n77 | 0.5 |

### 5.1.120.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

### 5.1.121.1 Configuration for EN-DC

Table 5.1.121.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_1A-5A-7A\_n77A  DC\_1A-5A-7A\_n77(2A)  DC\_1A-5A-7A-7A\_n77A  DC\_1A-5A-7A-7A\_n77(2A) | DC\_1A\_n77A  DC\_5A\_n77A  DC\_7A\_n77A |

### 5.1.121.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_1-5-7 and TS 38.101-3 DC\_1-5\_n78,DC\_1-7\_n78 and DC\_5-7\_n78.

Table 5.1.121.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-5-7\_n77 | 1 | 0.6 |
| 5 | 0.6 |
| 7 | 0.6 |
| n77 | 0.8 |

**Table 5.1.121.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_1-5-7\_n77 | 1 | 0.2 |
| 5 | 0.2 |
| 7 | 0.2 |
| n77 | 0.5 |

### 5.1.121.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

### 5.1.122.1 Configuration for EN-DC

Table 5.1.122.1-1: Inter-band EN-DC configurations (four bands)

| EN-DC configuration | Uplink EN-DC configuration |
| --- | --- |
| DC\_3A-5A-7A\_n77A  DC\_3A-5A-7A\_n77(2A)  DC\_3A-5A-7A-7A\_n77A  DC\_3A-5A-7A-7A\_n77(2A) | DC\_3A\_n77A  DC\_5A\_n77A  DC\_7A\_n77A |

### 5.1.122.2 ∆TIB and ∆RIB values

The ΔTIB,c and ΔRIB,c values are reused from TS 36.101 CA\_3-5-7 and TS 38.101-3 DC\_3-5\_n78,DC\_3-7\_n77 and DC\_5-7\_n78.

Table 5.1.122.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-5-7\_n77 | 3 | 0.6 |
| 5 | 0.6 |
| 7 | 0.6 |
| n77 | 0.8 |

**Table 5.1.122.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB,c [dB] |
| --- | --- | --- |
| DC\_3-5-7\_n77 | 3 | 0.2 |
| 5 | 0.2 |
| 7 | 0.2 |
| n77 | 0.5 |

### 5.1.122.3 REFSENS requirements

No additional MSD requirement needs to be defined for this dual connectivity configuration.

5.1.123 DC\_1-7-38\_n3

5.1.123.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-38A\_n3A | DC\_1A\_n3A |

5.1.123.2 ∆TIB and ∆RIB values

For DC\_1-7-38\_n3, same ΔTIB,c and ΔRIB,c values as LTE CA\_1-3-7-38 are reused and given in the tables below

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-7-38\_n3 | 1 | 0.6 |
| n3 | 0.6 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-7-38\_n3 | 1 | 0 |
| 7 | 0 |
| 38 | 0 |
| n3 | 0 |

5.1.123.3 Reference sensitivity exceptions

Co-existence study for DC\_1-7-38\_n3 was covered by the studies for the fallback modes. No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.124 DC\_1-20-38\_n3

5.1.124.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-38A\_n3A | DC\_1A\_n3A  DC\_20A\_n3A |

5.1.124.2 ∆TIB and ∆RIB values

For DC\_1-20-38\_n3, same ΔTIB,c and ΔRIB,c values as LTE CA\_1-3-20-38 are reused and given in the tables below

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1-20-38\_n3 | 1 | 0.3 |
| 20 | 0.3 |
| 38 | 0.3 |
| n3 | 0.3 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1-20-38\_n3 | 1 | 0 |
| 20 | 0 |
| 38 | 0 |
| n3 | 0 |

5.1.124.3 Reference sensitivity exceptions

Co-existence study for DC\_1-20-38\_n3 was covered by the studies for the fallback modes. No additional MSD requirement need to be defined for this dual connectivity configuration.

5.1.125 DC\_7-20-38\_n3

5.1.125.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-38A\_n3A | DC\_20A\_n3A |

5.1.125.2 ∆TIB and ∆RIB values

For DC\_7-20-38\_n3, same ΔTIB,c and ΔRIB,c values as LTE CA\_3-7-28-38 are reused and given in the tables below

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7-20-38\_n3 | 7 | 0.5 |
| 20 | 0.5 |
| 38 | 0.5 |
| n3 | 0.5 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7-20-38\_n3 | 7 | 0 |
| 20 | 0 |
| 38 | 0.2 |
| n3 | 0 |

5.1.125.3 Reference sensitivity exceptions

Co-existence study for DC\_7-20-38\_n3 was covered by the studies for the fallback modes. No additional MSD requirement need to be defined for this dual connectivity configuration.

### 5.1.126 DC\_7-29-66\_n78

### 5.1.126.1 Configurations for EN-DC

Table 5.2B.4.4-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_7A-29A-66A\_n78A | DC\_7A\_n78A  DC\_66A\_n78A |

### 5.1.126.2 ∆TIB and ∆RIB values

Table 6.2B.4.2.3.4-1: ΔTIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔTIB,c (dB) |
| --- | --- | --- |
| DC\_7-29-66\_n78 | 7 | 0.5 |
| 66 | 0.6 |
| n78 | 0.8 |

Table 7.3B.3.3.4-1: ΔRIB,c due to EN-DC (four bands)

| Inter-band EN-DC configuration | E-UTRA or NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7-29-66\_n78 | 7 | 0.5 |
| 66 | 0.5 |
| n78 | 0.5 |

### 5.1.126.3 Reference sensitivity exceptions

No further REFSENS exceptions needed.

### 5.1.127 DC\_1-7-32\_n3

#### 5.1.127.1 Configuration for EN-DC

Table 5.1.127.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-32A\_n3A | DC\_1A\_n3A  DC\_7A\_n3A |

#### 5.1.127.2 ∆TIB and ∆RIB values

Table 5.1.127.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-7A-32A\_n3A | 1 | 0.6 |
| 7 | 0.6 |
| n3 | 0.6 |

Table 5.1.127.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-7A-32A\_n3A | 1 | 0 |
| 7 | 0 |
| 32 | 0 |
| n3 | 0 |

#### 5.1.127.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.128 DC\_1-7-32\_n8

#### 5.1.128.1 Configuration for EN-DC

Table 5.1.128.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-32A\_n8A | DC\_1A\_n8A  DC\_7A\_n8A |

#### 5.1.128.2 ∆TIB and ∆RIB values

Table 5.1.128.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-7A-32A\_n8A | 1 | 0.7 |
| 7 | 0.7 |
| n8 | 0.6 |

Table 5.1.128.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-7A-32A\_n8A | 1 | 0 |
| 7 | 0 |
| 32 | 0 |
| n8 | 0.2 |

#### 5.1.128.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.129 DC\_1-7-38\_n8

#### 5.1.129.1 Configuration for EN-DC

Table 5.1.129.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-7A-38A\_n8A | DC\_1A\_n8A |

#### 5.1.129.2 ∆TIB and ∆RIB values

Table 5.1.129.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-7A-38A\_n8A | 1 | 0.5 |
| n8 | 0.5 |

Table 5.1.129.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-7A-38A\_n8A | 1 | 0 |
| 7 | 0 |
| 38 | 0.2 |
| n8 | 0 |

#### 5.1.129.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.130 DC\_1-20-28\_n3

#### 5.1.130.1 Configuration for EN-DC

Table 5.1.130.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-28A\_n3A | DC\_1A\_n3A  DC\_20A\_n3A  DC\_28A\_n3A |

#### 5.1.130.2 ∆TIB and ∆RIB values

Table 5.1.130.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-20A-28A\_n3A | 1 | 0.3 |
| 20 | 0.6 |
| 28 | 0.6 |
| n3 | 0.3 |

Table 5.1.130.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-20A-28A\_n3A | 1 | 0 |
| 20 | 0.2 |
| 28 | 0.2 |
| n3 | 0 |

#### 5.1.130.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.131 DC\_1-20-32\_n8

#### 5.1.131.1 Configuration for EN-DC

Table 5.1.131.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-20A-32A\_n8A | DC\_1A\_n8A  DC\_20A\_n8A |

#### 5.1.131.2 ∆TIB and ∆RIB values

Table 5.1.131.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-20A-32A\_n8A | 1 | 0.5 |
| 20 | 0.4 |
| n8 | 0.4 |

Table 5.1.131.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-20A-32A\_n8A | 1 | 0 |
| 20 | 0 |
| 32 | 0 |
| n8 | 0 |

#### 5.1.131.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.132 DC\_1-28-32\_n3

#### 5.1.132.1 Configuration for EN-DC

Table 5.1.132.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_1A-28A-32A\_n3A | DC\_1A\_n3A  DC\_28A\_n3A |

#### 5.1.132.2 ∆TIB and ∆RIB values

Table 5.1.132.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_1A-28A-32A\_n3A | 1 | 0.5 |
| 28 | 0.6 |
| n3 | 0.5 |

Table 5.1.132.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_1A-28A-32A\_n3A | 1 | 0 |
| 28 | 0.2 |
| 32 | 0 |
| n3 | 0 |

#### 5.1.132.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.133 DC\_3-7-32\_n1

#### 5.1.133.1 Configuration for EN-DC

Table 5.1.133.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-7A-32A\_n1A | DC\_3A\_n1A  DC\_7A\_n1A |

#### 5.1.133.2 ∆TIB and ∆RIB values

Table 5.1.133.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3A-7A-32A\_n1A | 3 | 0.6 |
| 7 | 0.6 |
| n1 | 0.6 |

Table 5.1.133.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3A-7A-32A\_n1A | 3 | 0 |
| 7 | 0 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.133.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.134 DC\_3-8-20\_n1

#### 5.1.134.1 Configuration for EN-DC

Table 5.1.134.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_3A-8A-20A\_n1A | DC\_3A\_n1A  DC\_8A\_n1A  DC\_20A\_n1A |

#### 5.1.134.2 ∆TIB and ∆RIB values

Table 5.1.134.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3A-8A-20A\_n1A | 3 | 0.3 |
| 8 | 0.4 |
| 20 | 0.4 |
| n1 | 0.3 |

Table 5.1.134.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_3A-8A-20A\_n1A | 3 | 0 |
| 8 | 0 |
| 20 | 0 |
| n1 | 0 |

#### 5.1.134.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.135 DC\_7-8-20\_n1

#### 5.1.135.1 Configuration for EN-DC

Table 5.1.135.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-8A-20A\_n1A | DC\_7A\_n1A  DC\_8A\_n1A  DC\_20A\_n1A |

#### 5.1.135.2 ∆TIB and ∆RIB values

Table 5.1.135.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-8A-20A\_n1A | 7 | 0.6 |
| 8 | 0.6 |
| 20 | 0.6 |
| n1 | 0.5 |

Table 5.1.135.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-8A-20A\_n1A | 7 | 0 |
| 8 | 0.2 |
| 20 | 0.2 |
| n1 | 0 |

#### 5.1.135.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.136 DC\_7-8-20\_n3

#### 5.1.136.1 Configuration for EN-DC

Table 5.1.136.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-8A-20A\_n3A | DC\_7A\_n3A  DC\_8A\_n3A  DC\_20A\_n3A |

#### 5.1.136.2 ∆TIB and ∆RIB values

Table 5.1.136.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-8A-20A\_n3A | 7 | 0.5 |
| 8 | 0.6 |
| 20 | 0.4 |
| n3 | 0.5 |

Table 5.1.136.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-8A-20A\_n3A | 7 | 0 |
| 8 | 0.2 |
| 20 | 0 |
| n3 | 0 |

#### 5.1.136.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.137 DC\_7-20-28\_n3

#### 5.1.137.1 Configuration for EN-DC

Table 5.1.137.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-28A\_n3A | DC\_7A\_n3A  DC\_20A\_n3A  DC\_28A\_n3A |

#### 5.1.137.2 ∆TIB and ∆RIB values

Table 5.1.137.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-28A\_n3A | 7 | 0.5 |
| 20 | 0.6 |
| 28 | 0.5 |
| n3 | 0.5 |

Table 5.1.137.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-28A\_n3A | 7 | 0 |
| 20 | 0.2 |
| 28 | 0.1 |
| n3 | 0 |

#### 5.1.137.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.138 DC\_7-20-32\_n1

#### 5.1.138.1 Configuration for EN-DC

Table 5.1.138.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n1A | DC\_7A\_n1A  DC\_20A\_n1A |

#### 5.1.138.2 ∆TIB and ∆RIB values

Table 5.1.138.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-32A\_n1A | 7 | 0.7 |
| 20 | 0.3 |
| n1 | 0.7 |

Table 5.1.138.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-32A\_n1A | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.138.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.139 DC\_7-20-32\_n3

#### 5.1.139.1 Configuration for EN-DC

Table 5.1.139.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n3A | DC\_7A\_n3A  DC\_20A\_n3A |

#### 5.1.139.2 ∆TIB and ∆RIB values

Table 5.1.139.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-32A\_n3A | 7 | 0.7 |
| 20 | 0.3 |
| n3 | 0.3 |

Table 5.1.139.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-32A\_n3A | 7 | 0 |
| 20 | 0 |
| 32 | 0 |
| n3 | 0 |

#### 5.1.139.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.140 DC\_7-20-32\_n8

#### 5.1.140.1 Configuration for EN-DC

Table 5.1.140.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-32A\_n8A | DC\_7A\_n8A  DC\_20A\_n8A |

#### 5.1.140.2 ∆TIB and ∆RIB values

Table 5.1.140.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-32A\_n8A | 7 | 0.7 |
| 20 | 0.6 |
| n8 | 0.6 |

Table 5.1.140.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-32A\_n8A | 7 | 0 |
| 20 | 0.2 |
| 32 | 0 |
| n8 | 0.2 |

#### 5.1.140.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.141 DC\_7-20-38\_n1

#### 5.1.141.1 Configuration for EN-DC

Table 5.1.141.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-20A-38A\_n1A | DC\_20A\_n8A |

#### 5.1.141.2 ∆TIB and ∆RIB values

Table 5.1.141.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-20A-38A\_n1A | 20 | 0.3 |
| n1 | 0.5 |

Table 5.1.141.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-20A-38A\_n1A | 7 | 0 |
| 20 | 0 |
| 38 | 0 |
| n1 | 0 |

#### 5.1.141.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.142 DC\_7-28-32\_n1

#### 5.1.142.1 Configuration for EN-DC

Table 5.1.142.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-28A-32A\_n1A | DC\_7A\_n3A  DC\_28A\_n3A |

#### 5.1.142.2 ∆TIB and ∆RIB values

Table 5.1.142.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-28A-32A\_n1A | 7 | 0.7 |
| 28 | 0.6 |
| n1 | 0.7 |

Table 5.1.142.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-28A-32A\_n1A | 7 | 0 |
| 28 | 0.2 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.142.3 Reference sensitivity exceptions

### 5.1.143 DC\_7-28-32\_n3

#### 5.1.143.1 Configuration for EN-DC

Table 5.1.143.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_7A-28A-32A\_n3A | DC\_7A\_n3A  DC\_28A\_n3A |

#### 5.1.143.2 ∆TIB and ∆RIB values

Table 5.1.143.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_7A-28A-32A\_n3A | 7 | 0.7 |
| 28 | 0.3 |
| n3 | 0.7 |

Table 5.1.143.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_7A-28A-32A\_n3A | 7 | 0 |
| 28 | 0 |
| 32 | 0 |
| n3 | 0 |

#### 5.1.143.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.144 DC\_8-20-32\_n1

#### 5.1.144.1 Configuration for EN-DC

Table 5.1.144.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_8A-20A-32A\_n1A | DC\_8A\_n1A  DC\_20A\_n1A |

#### 5.1.144.2 ∆TIB and ∆RIB values

Table 5.1.144.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_8A-20A-32A\_n1A | 8 | 0.4 |
| 20 | 0.4 |
| 32 | N/A |
| n1 | 0.5 |

Table 5.1.144.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_8A-20A-32A\_n1A | 8 | 0 |
| 20 | 0 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.144.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.145 DC\_20-28-32\_n1

#### 5.1.145.1 Configuration for EN-DC

Table 5.1.145.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_20A-28A-32A\_n1A | DC\_20A\_n1A  DC\_28A\_n1A |

#### 5.1.145.2 ∆TIB and ∆RIB values

Table 5.1.145.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_20A-28A-32A\_n1A | 20 | 0.6 |
| 28 | 0.6 |
| n1 | 0.5 |

Table 5.1.145.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_20A-28A-32A\_n1A | 20 | 0.2 |
| 28 | 0.2 |
| 32 | 0 |
| n1 | 0 |

#### 5.1.145.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.146 DC\_20-28-32\_n3

#### 5.1.146.1 Configuration for EN-DC

Table 5.1.146.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_20A-28A-32A\_n3A | DC\_20A\_n3A  DC\_28A\_n3A |

#### 5.1.146.2 ∆TIB and ∆RIB values

Table 5.1.146.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_20A-28A-32A\_n3A | 20 | 0.5 |
| 28 | 0.6 |
| n3 | 0.5 |

Table 5.1.146.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_20A-28A-32A\_n3A | 20 | 0.3 |
| 28 | 0.2 |
| 32 | 0 |
| n3 | 0.3 |

#### 5.1.146.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

### 5.1.147 DC\_20-32-38\_n1

#### 5.1.147.1 Configuration for EN-DC

Table 5.1.147.1-1: Band combinations EN-DC (four bands)

| EN-DC band configuration | UL configuration(s) |
| --- | --- |
| DC\_20A-32A-38A\_n1A | DC\_20A\_n8A  DC\_38A\_n8A |

#### 5.1.147.2 ∆TIB and ∆RIB values

Table 5.1.147.2.-1: ΔTIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_20A-32A-38A\_n1A | 20 | 0.3 |
| 38 | 0.5 |
| n1 | 0.5 |

Table 5.1.147.2.-1: ΔRIB,c due to EN-DC (four bands)

| EN-DC band | E-UTRA and NR Band | ΔRIB,c (dB) |
| --- | --- | --- |
| DC\_20A-32A-38A\_n1A | 20 | 0 |
| 32 | 0 |
| 38 | 0 |
| n1 | 0 |

#### 5.1.147.3 Reference sensitivity exceptions

No additional IMD exceptions required compared to fallbacks.

## 5.1.148 DC\_3-7-7-28\_n1

### 5.1.148.1 Configurations for EN-DC

Table 5.1.148.1-1: Band combinations EN-DC (four bands)

| EN-DC  Configuration | Uplink EN-DC  configuration |
| --- | --- |
| DC\_3A-7A-7A-28A\_n1A | DC\_3A\_n1A  DC\_7A\_n1A DC\_28A\_n1A |

### 5.1.148.2 ∆TIB and ∆RIB values

Table 5.1.148.2-1: ΔTIB,c due to EN-DC(four bands)

| Inter-band DC Configuration | E-UTRA and NR Band | ΔTIB,c [dB] |
| --- | --- | --- |
| DC\_3-7-7-28\_n1 | 3 | 0.6 |
| 7 | 0.6 |
| 28 | 0.5 |
| n1 | 0.6 |

**Table 5.1.148.2-2: ΔRIB,c due to EN-DC (four bands)**

| Inter-band DC Configuration | E-UTRA and NR Band | ΔRIB [dB] |
| --- | --- | --- |
| DC\_3-7-7-28\_n1 | 3 | 0 |
| 7 | 0 |
| 28 | 0.2 |
| n1 | 0 |

### 5.1.148.3 Reference sensitivity exceptions

REFSENS exceptions have already been specified for DC\_3-7-28\_n1.

# Annex A - Change history

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Meeting** | **TDoc** | **Subject/Comment** | **New version** |
| 2020-08 | 3GPP RAN4#96-e | R4-2010681 | TR skeleton | 0.0.1 |
| 2020-08 | 3GPP RAN4#96-e |  | Implemented TP’s from RAN4 #96-e:  R4-2010246, “TP for TR 37.717-31-11 DC\_1-3\_(n)41”, Samsung, KDDI  R4-2010247, “TP for TR 37.717-31-11 DC\_1-3-41\_n28”, Samsung, KDDI  R4-2010434, “TP for 37.717-31-11 to introduce DC\_3A-7A-8A\_n40A”, Nokia  R4-2010435, “TP for 37.717-31-11 to introduce DC\_3A-7A-28A\_n1A”, Nokia  R4-2010437. “TP for 37.717-31-11 to introduce DC\_5A-7-66A\_n66A”, Nokia  R4-2010514, “TP for DC\_3-19-42\_n1 for TR 37.717-31-11”, NTT DOCOMO INC.  R4-2010515, “TP for DC\_3-21-42\_n1 for TR 37.717-31-11”, NTT DOCOMO INC.  R4-2010516, “TP for DC\_19-21-42\_n1 for TR 37.717-31-11”, NTT DOCOMO INC.  R4-2010896, “TP for TR 37.717-31-11: DC\_2A-28A-66A\_n66A”, Huawei, HiSilicon  R4-2010897, “TP for TR 37.717-31-11: DC\_7A-28A-66A\_n66A / DC\_7C-28A-66A\_n66A”, Huawei, HiSilicon  R4-2010898, “TP for TR 37.717-31-11: DC\_2A-7A-28A\_n66A / DC\_2A-7C-28A\_n66A”, Huawei, HiSilicon  R4-2010899, “TP for TR 37.717-31-11: DC\_3A-7A-28A\_n1A”, Huawei, HiSilicon  R4-2009996, ”TP for TR 37.717-31-11: EN-DC\_1-8-11\_n3”, SoftBank Corp.  R4-2009997, ”TP for TR 37.717-31-11: EN-DC\_1-8-42\_n28”, SoftBank Corp.  R4-2009770, “TP for TR 37.717-31-11: DC\_1-7-32\_n28”, VODAFONE Group Plc  R4-2009771, “TP for TR 37.717-31-11: DC\_1-7-32\_n78”, VODAFONE Group Plc  R4-2009772, “TP for TR 37.717-31-11: DC\_1-20-32\_n28”, VODAFONE Group Plc  R4-2009774, “TP for TR 37.717-31-11: DC\_1-20-32\_n78”, VODAFONE Group Plc  R4-2009775, “TP for TR 37.717-31-11: DC\_3-7-32\_n78”, VODAFONE Group Plc  R4-2009776, “TP for TR 37.717-31-11: DC\_3-20-32\_n78”, VODAFONE Group Plc  R4-2009777, “TP for TR 37.717-31-11: DC\_7-20-32\_n1”, VODAFONE Group Plc  R4-2009778, “TP for TR 37.717-31-11: DC\_7-20-32\_n28”, VODAFONE Group Plc | 0.1.0 |
| 2020-11 | 3GPP RAN4#97-e | R4-2015925 | Implemented TP’s from RAN4 #97-e:  R4-2014037, “TP for 37.717-31-11 for DC\_1-20-32\_n3”, Huawei,HiSilicon  R4-2014038, “TP for 37.717-31-11 for DC\_2-4-7\_n28”, Huawei,HiSilicon  R4-2014039, “TP for 37.717-31-11 for DC\_2-5-7\_n66”, Huawei,HiSilicon  R4-2014040, “TP for 37.717-31-11 for DC\_2-5-66\_n7”, Huawei,HiSilicon  R4-2014041, “TP for 37.717-31-11 for DC\_2-5-66\_n66”, Huawei,HiSilicon  R4-2014042, “TP for 37.717-31-11 for DC\_2-7-66\_n28”, Huawei,HiSilicon  R4-2014043, “TP for 37.717-31-11 for DC\_3-20-32\_n1”, Huawei,HiSilicon  R4-2014107, “TP for TR 37.717-31-11 DC\_1-3-18\_n3”, Samsung, KDDI  R4-2014108, “TP for TR 37.717-31-11 DC\_1-3-41\_n3”, Samsung, KDDI  R4-2014109, “TP for TR 37.717-31-11 DC\_1-3-41\_n41”, Samsung, KDDI  R4-2014130, “TP for TR 37.717-31-11 DC\_2-5-7\_n66”, Samsung, TELUS, Bell mobility  R4-2014615, ”TP for TR 37.717-31-11: EN-DC\_1-3-11\_n28”, SoftBank Corp.  R4-2014616, ”TP for TR 37.717-31-11: EN-DC\_1-  3-11\_n77”, SoftBank Corp.  R4-2014617, ”TP for TR 37.717-31-11: EN-DC\_3-8-11\_n28”, SoftBank Corp.  R4-2014618, ”TP for TR 37.717-31-11: EN-DC\_3-8-11\_n77”, SoftBank Corp.  R4-2014619, ”TP for TR 37.717-31-11: EN-DC\_1-8-11\_n28”, SoftBank Corp.  R4-2014807, “TP for TR 37.717-31-11: DC\_1A-3A-18A\_n28A”, KDDI Corporation  R4-2014845, “TP for TR 37.717-31-11: DC\_1A-3A-18A\_n41A”, KDDI Corporation  R4-2015231, “TP for 37.717-31-11 to introduce DC\_2A-7A-28A\_n7A”, Nokia  R4-2015247, “TP for 37.717-31-11 to introduce DC\_2A-66A-71A\_n71A”, Nokia, T-Mobile  R4-2015248, “TP for 37.717-31-11 to introduce DC\_2-5-66\_n77A”, Nokia, Verizon  R4-2015249, “TP for 37.717-31-11 to introduce DC\_2-13-66\_n77A”, Nokia, Verizon  R4-2015250, “TP for 37.717-31-11 to introduce DC\_2-48-66\_n77A”, Nokia, Verizon  R4-2015272, “TP to TR 37.717-31-11 DC\_1A-3A-40C\_n78A”, Huawei, HiSilicon, Nokia, Ericsson  R4-2015273, “TP to TR 37.717-31-11 DC\_1A-7A-40C\_n78A”, Huawei, HiSilicon, Ericsson  R4-2015274, “TP to TR 37.717-31-11 DC\_1A-8A-40C\_n78A”, Huawei, HiSilicon, Nokia  R4-2015275, “TP to TR 37.717-31-11 DC\_3A-7A-40C\_n78A”, Huawei, HiSilicon, Ericsson  R4-2015276, “TP to TR 37.717-31-11 DC\_3A-8A-40C\_n78A”, Huawei, HiSilicon, Nokia  R4-2015277, “TP to TR 37.717-31-11 DC\_7A-8A-40C\_n78A”, Huawei, HiSilicon  R4-2015405, “TP for TR 37.717-31-11: DC\_1A-7A-8A\_n28A”, Huawei, HiSilicon  R4-2015406, “TP for TR 37.717-31-11: DC\_3A-7A-8A\_n28A”, Huawei, HiSilicon  R4-2015407, “TP for TR 37.717-31-11: DC\_1A-7A-28A\_n3A”, Huawei, HiSilicon  R4-2015408, “TP for TR 37.717-31-11: DC\_3A-8A-40A\_n1A/DC\_3A-8A-40C\_n1A”, Huawei, HiSilicon  R4-2015409, “TP for TR 37.717-31-11: DC\_7A-8A-40A\_n1A/DC\_7A-8A-40C\_n1A”, Huawei, HiSilicon  R4-2015411, “TP for TR 37.717-31-11: DC\_2A-28A-66A\_n7A”, Huawei, HiSilicon  R4-2015412, “TP for TR 37.717-31-11: DC\_2A-5A-7A\_n7A”, Huawei, HiSilicon  R4-2015413, “TP for TR 37.717-31-11: DC\_2A-7A-66A\_n7A/DC\_2A-7A-66A-66A\_n7A”, Huawei, HiSilicon  R4-2015414, “TP for TR 37.717-31-11: DC\_5A-7A-66A\_n7A/DC\_5A-7A-66A-66A\_n7A”, Huawei, HiSilicon  R4-2015415, “TP for TR 37.717-31-11: DC\_7A-28A-66A\_n7A”, Huawei, HiSilicon  R4-2015712, “TP for TR 37.717-31-11: DC\_2-7-66\_n77”, Huawei, HiSilicon, Bell Mobility, Telus | 0.2.0 |
| 2021-02 | 3GPP RAN4#98-e | R4-2101892 | Implemented TP’s from RAN4 #98-e:  R4-2103007, “TP to TR 37.717-31-11: DC\_1-20-40\_n78”, Nokia, Telefonica  R4-2100652, ”TP for TR 37.717-31-11: EN-DC\_1-8-42\_n3”, SoftBank Corp.  R4-2100671, ”TP for TR 37.717-31-11: EN-DC\_1-3-42\_n28”, SoftBank Corp.  R4-2100985, “TP for TR 37.717-31-11: DC\_2-29-66\_n78”, Samsung, TELUS, Bell mobility  R4-2101552, “TP for TR 37.717-31-11: DC\_7-8-32\_n1”, VODAFONE Group Plc  R4-2101553, “TP for TR 37.717-31-11: DC\_7-20-32\_n78”, VODAFONE Group Plc  R4-2101895, “TP to TR TR 37.717-31-11 to include 3-20-40\_n78”, Ericsson  R4-2102020, “TP to TR 37.717-31-11 to include 2A-12A-66A\_n41A, 2A-2A-12A-66A\_n41A”, Ericsson  R4-2102021, “TP to TR 37.717-31-11 to include 2A-66A-71A\_n41A, 2A-2A-66A-71A\_n41A”, Ericsson  R4-2102022, “TP to TR 37.717-31-11 to include 2A-7A-12A\_n66A, 2A-2A-7A-12A\_n66A”, Ericsson  R4-2102023, “TP to TR 37.717-31-11 to include 2A-2A-5A-7A\_n66A”, Ericsson  R4-2102024, “TP to TR 37.717-31-11 to include 2A-7A-71A\_n66A, 2A-2A-7A-71A\_n66A”, Ericsson  R4-2102025, “TP to TR 37.717-31-11 to include 2A-7A-12A\_n78A, 2A-2A-7A-12A\_n78A”, Ericsson  R4-2102026, “TP to TR 37.717-31-11 to include 2A-12A-66A\_n78A, 2A-2A-12A-66A\_n78A”, Ericsson  R4-2102027, “TP to TR 37.717-31-11 to include 7A-12A-66A\_n78A”, Ericsson  R4-2102028, “TP to TR 37.717-31-11 to include 7A-66A-71A\_n78A”, Ericsson  R4-2102029, “TP to TR 37.717-31-11 to include 2A-7A-71A\_n78A, 2A-2A-7A-71A\_n78A”, Ericsson  R4-2102030, “TP to TR 37.717-31-11 to include 2A-7A-66A\_n2A”, Ericsson  R4-2102031, “TP to TR 37.717-31-11 to include 2A-5A-7A\_n2A”, Ericsson  R4-2102032, “TP to TR 37.717-31-11 to include 5A-7A-66A\_n2A”, Ericsson  R4-2102033, “TP to TR 37.717-31-11 to include 2A-7A-71A\_n2A”, Ericsson  R4-2102034, “TP to TR 37.717-31-11 to include 2A-66A-71A\_n2A”, Ericsson  R4-2102035, “TP to TR 37.717-31-11 to include 2A-7A-12A\_n2A”, Ericsson  R4-2102036, “TP to TR 37.717-31-11 to include 7A-66A-71A\_n2A”, Ericsson  R4-2102037, “TP to TR 37.717-31-11 to include 7A-12A-66A\_n2A”, Ericsson | 0.3.0 |
| 2021-04 | 3GPP RAN4#98-bis-e | R4-2106705 | Implemented TP’s from RAN4 #98-bis-e:  R4-2105282, “TP to TR 37.717-31-11: DC\_1A-28A-40A\_n78A”, Nokia, Telefonica  R4-2105283, “TP to TR 37.717-31-11: DC\_3A-28A-40A\_n78A”, Nokia, Telefonica  R4-2105052, “TP for TR 37.717-31-11: DC\_1-11-18\_n3”, Samsung, KDDI  R4-2105053, “TP for TR 37.717-31-11: DC\_1-11-18\_n28”, Samsung, KDDI  R4-2105054, “TP for TR 37.717-31-11: DC\_1-11-18\_n41”, Samsung, KDDI  R4-2105075, “TP for TR 37.717-31-11: DC\_2-5-66\_n48”, Samsung, Verizon  R4-2105076, “TP for TR 37.717-31-11: DC\_2-13-48\_n77”, Samsung, Verizon  R4-2105299, “TP for TR 37.717-31-11: DC\_2-46-48\_n2”, Samsung, Verizon  R4-2105300, “TP for TR 37.717-31-11: DC\_2-48-66\_n2”, Samsung, Verizon  R4-2105301, “TP for TR 37.717-31-11: DC\_2-48-66\_n66”, Samsung, Verizon  R4-2105302, “TP for TR 37.717-31-11: DC\_13-48-66\_n77”, Samsung, Verizon  R4-2105304, “TP for TR 37.717-31-11: DC\_1A-3A-20A\_n7A”, ZTE Corporation  R4-2106643, “TP for TR 37.717-31-11: DC\_1A-3A-38A\_n28A/ DC\_1A-3C-38A\_n28A”, Huawei, HiSilicon  R4-2106644, “TP for TR 37.717-31-11: DC\_1A-7A-38A\_n28A”, Huawei, HiSilicon  R4-2106645, “TP for TR 37.717-31-11: DC\_3A-7A-38A\_n28A/DC\_3C-7A-38A\_n28A”, Huawei, HiSilicon  R4-2107051, “TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n2A”, Ericsson, AT&T  R4-2107052, “TP for TR 37 717-31-11 to include DC\_2A-5A-30A\_n66A”, Ericsson, AT&T  R4-2107053, “TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n2A”, Ericsson, AT&T  R4-2107054, “TP for TR 37 717-31-11 to include DC\_2A-29A-30A\_n66A”, Ericsson, AT&T  R4-2107056, “TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n5A”, Ericsson, AT&T  R4-2107058, “TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n2A”, Ericsson, AT&T  R4-2107059, “TP for TR 37 717-31-11 to include DC\_5A-30A-66A\_n66A”, Ericsson, AT&T  R4-2107060, “TP for TR 37 717-31-11 to include DC\_14A-30A-66A\_n66A”, Ericsson, AT&T  R4-2107061, “TP for TR 37 717-31-11 to include DC\_14A-30A-66A-66A\_n2A”, Ericsson, AT&T  R4-2107063, “TP for TR 37 717-31-11 to include DC\_2A-14A-30A\_n66A”, Ericsson, AT&T  R4-2107064, “TP for TR 37 717-31-11 to include DC\_1A-3A-7A\_n3A”, Ericsson, Telstra  R4-2107065, “TP for TR 37 717-31-11 to include DC\_1A-3A-28A\_n3A”, Ericsson, Telstra  R4-2107066, “TP for TR 37 717-31-11 to include DC\_3A-7A-28A\_n3A”, Ericsson, Telstra  R4-2107055, “TP for TR 37 717-31-11 to include DC\_2A-29A-66A\_n260M”, Ericsson, AT&T  R4-2107057, “TP for TR 37 717-31-11 to include DC\_2A-46D-66A\_n260M”, Ericsson, AT&T  R4-2107062, “TP for TR 37 717-31-11 to include DC\_29A-30A-66A\_n260M”, Ericsson, AT&T | 0.4.0 |
| 2021-05 | 3GPP RAN4#99-e | R4-2111080 | Implemented TP’s from RAN4 #99-e:  R4-2110248, TP for TR 37.717-31-11: DC\_3A-20A-28A\_n1A, Huawei, HiSilicon  R4-2110249, TP for TR 37.717-31-11: DC\_7A-20A-28A\_n1A, Huawei, HiSilicon | 0.5.0 |
| 2021-08 | 3GPP RAN4#100-e | R4-2113563 | Implemented TP’s from RAN4 #100-e:  [R4-2112456](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112456.zip), TP for TR 37.717-31-11 DC\_1-3-5\_n77Samsung, SKT  [R4-2112457](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112457.zip), TP for TR 37.717-31-11 DC\_1-3-7\_n77, Samsung, SKT  [R4-2112458](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112458.zip), TP for TR 37.717-31-11 DC\_1-5-7\_n77, Samsung, SKT  [R4-2112459](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112459.zip), TP for TR 37.717-31-11 DC\_3-5-7\_n77, Samsung, SKT  [R4-2112933](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112933.zip), TP for TR 37.717-31-11: DC\_1A-7A-38A\_n3A, ZTE Corporation  [R4-2112934](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112934.zip), TP for TR 37.717-31-11: DC\_1A-20A-38A\_n3A, ZTE Corporation  [R4-2112935](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2112935.zip), TP for TR 37.717-31-11: DC\_7A-20A-38A\_n3A, ZTE Corporation  [R4-2113064](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113064.zip), TP for TR 37.717-31-11: DC\_7A-29A-66A\_n78A, Huawei, HiSilicon, Bell Mobility, Telus  [R4-2113484](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113484.zip), TP for TR 37.717-31-11: DC\_1-7-32\_n3, VODAFONE Group Plc  [R4-2113485](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113485.zip), TP for TR 37.717-31-11: DC\_1-7-32\_n8, VODAFONE Group Plc  [R4-2113486](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113486.zip), TP for TR 37.717-31-11: DC\_1-7-38\_n8, VODAFONE Group Plc  [R4-2113505](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113505.zip), TP for TR 37.717-31-11: DC\_1-20-28\_n3, VODAFONE Group Plc  [R4-2113506](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113506.zip), TP for TR 37.717-31-11: DC\_1-20-32\_n8, VODAFONE Group Plc  [R4-2113526](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113526.zip), TP for TR 37.717-31-11: DC\_1-28-32\_n3, VODAFONE Group Plc  [R4-2113527](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113527.zip), TP for TR 37.717-31-11: DC\_3-7-32\_n1, VODAFONE Group Plc  [R4-2113529](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113529.zip), TP for TR 37.717-31-11: DC\_3-8-20\_n1, VODAFONE Group Plc  [R4-2113531](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113531.zip), TP for TR 37.717-31-11: DC\_7-8-20\_n1, VODAFONE Group Plc  [R4-2113533](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113533.zip), TP for TR 37.717-31-11: DC\_7-8-20\_n3, VODAFONE Group Plc  [R4-2113534](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113534.zip), TP for TR 37.717-31-11: DC\_7-20-28\_n3, VODAFONE Group Plc  [R4-2113535](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113535.zip), TP for TR 37.717-31-11: DC\_7-20-32\_n1, VODAFONE Group Plc  [R4-2113536](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113536.zip), TP for TR 37.717-31-11: DC\_7-20-32\_n3, VODAFONE Group Plc  [R4-2113544](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113544.zip), TP for TR 37.717-31-11: DC\_7-20-32\_n8, VODAFONE Group Plc  [R4-2113545](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113545.zip), TP for TR 37.717-31-11: DC\_7-20-38\_n1, VODAFONE Group Plc  [R4-2113548](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113548.zip), TP for TR 37.717-31-11: DC\_7-28-32\_n1, VODAFONE Group Plc  [R4-2113549](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113549.zip), TP for TR 37.717-31-11: DC\_7-28-32\_n3, VODAFONE Group Plc  [R4-2113551](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113551.zip), TP for TR 37.717-31-11: DC\_8-20-32\_n1, VODAFONE Group Plc  [R4-2113610](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113610.zip), TP for TR 37.717-31-11: DC\_20-28-32\_n1, VODAFONE Group Plc  [R4-2113611](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113611.zip), TP for TR 37.717-31-11: DC\_20-28-32\_n3, VODAFONE Group Plc  [R4-2113612](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2113612.zip), TP for TR 37.717-31-11: DC\_20-32-38\_n1, VODAFONE Group Plc  [R4-2114160](ftp://ftp.3gpp.org/tsg_ran/WG4_Radio/TSGR4_94_eBis/Docs/R4-2114160.zip), TP to TR 37.717-31-11 for DC\_3-7-7-28-n1, Huawei, HiSilicon | 0.6.0 |