**FDD RIT component of SRIT “LTE Release 10 & beyond (LTE-Advanced)” (Source RP-090747)**

#### 4.2.4.1 Compliance template for services[[1]](#footnote-2)

|  | Service related minimum capabilities within the RIT/SRIT | Evaluator’s comments |
| --- | --- | --- |
| **4.2.4.1.1** | **Support of a wide range of services**  Does the proposal support a wide range of services?:  If bullets 4.2.4.1.1.1 - 4.2.4.1.1.3 are marked as "yes" then 4.2.4.1.1 is a "yes".  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.1** | **Ability to support basic conversational service class**  Is the proposal able to support basic conversational service class?:  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.2** | **Support of rich conversational service class**  Is the proposal able to support rich conversational service class?:  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.3** | **Support of conversational low delay service class**  Is the proposal able to support conversational low-delay service class?:  YES / NO | *See [36.912] subclause 16.7* |

#### 4.2.4.2 Compliance template for spectrum2

|  |  |
| --- | --- |
|  | Spectrum capability requirements |
| **4.2.4.2.1** | **Spectrum bands**  Is the proposal able to utilize at least one band identified for IMT?: YES / NO  Specify in which band(s) the candidate RIT or candidate SRIT can be deployed.  *See 4.2.3.2.8.3 in characteristics template for the bands in which the proposed RIT can be deployed. See [36.912] subclause 16.6.1, also.* |

#### 4.2.4.3 Compliance template for technical performance2

| Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1) | Category | | | Required value | Value(2), (3) | Require-ment met? | Comments |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test environment | | Downlink or uplink |
| **4.2.4.3.1** Cell spectral efficiency (bit/s/Hz/cell) *(4.1)* | Indoor | Downlink | | 3 | 4.1 ~ 6.6 |  Yes  No | *See [36.912] subclause 16.4.1.1* |
| Uplink | | 2.25 | 3.3 ~ 5.8 |  Yes  No |
| Microcellular | Downlink | | 2.6 | 2.8 ~ 4.5 |  Yes  No | *See [36.912] subclause 16.4.1.2* |
| Uplink | | 1.8 | 1.9 ~ 2.5 |  Yes  No |
| Base coverage urban | Downlink | | 2.2 | 2.4 ~ 3.8 |  Yes  No | *See [36.912] subclause 16.4.1.3* |
| Uplink | | 1.4 | 1.5 ~ 2.1 |  Yes  No |
| High speed | Downlink | | 1.1 | 1.8 ~ 4.1 |  Yes  No | *See [36.912] subclause 16.4.1.4* |
| Uplink | | 0.7 | 1.8 ~ 2.3 |  Yes  No |
| **4.2.4.3.2** Peak spectral efficiency (bit/s/Hz) *(4.2)* | Not applicable | Downlink | | 15 | 16.3 |  Yes  No | *See [36.912] subclause 16.1* |
| Uplink | | 6.75 | 8.4 |  Yes  No |
| **4.2.4.3.3** Bandwidth *(4.3)* | Not applicable | Up to and including (MHz) | | 40 |  |  Yes  No | *See [36.912] subclause 16.6.2* |
| Scalability | | Support of at least three band-width values(4) |  |  Yes  No | *See [36.912] subclause 16.6.2* |

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| **Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1)** | Category | | Required value | Value(2), (3) | Require-ment met? | Comments |
| Test environment | Downlink or uplink |
| **4.2.4.3.4** Cell edge user spectral efficiency (bit/s/Hz) *(4.4)* | Indoor | Downlink | 0.1 | 0.19 ~ 0.26 |  Yes  No | *See [36.912] subclause 16.4.1.1* |
| Uplink | 0.07 | 0.23 ~ 0.42 |  Yes  No |
| Microcellular | Downlink | 0.075 | 0.087 ~ 0.15 |  Yes  No | *See [36.912] subclause 16.4.1.2* |
| Uplink | 0.05 | 0.073 ~ 0.086 |  Yes  No |
| Base coverage urban | Downlink | 0.06 | 0.066 ~ 0.10 |  Yes  No | *See [36.912] subclause 16.4.1.3* |
| Uplink | 0.03 | 0.062 ~ 0.099 |  Yes  No |
| High speed | Downlink | 0.04 | 0.057 ~ 0.13 |  Yes  No | *See [36.912] subclause 16.4.1.4* |
| Uplink | 0.015 | 0.082 ~ 0.13 |  Yes  No |
| **4.2.4.3.5** Control plane latency (ms) *(4.5.1)* | Not applicable | Not applicable | Less than 100 ms | 50 |  Yes  No | *See [36.912] subclause 16.2* |
| **4.2.4.3.6** User plane latency (ms) *(4.5.2)* | Not applicable | Not applicable | Less than 10 ms | 4 |  Yes  No | *See [36.912] subclause 16.3* |
| **4.2.4.3.7** Mobility classes *(4.6)* | Indoor | Uplink | Stationary, pedestrian |  |  Yes  No |  |
| Microcellular | Uplink | Stationary, pedestrian, vehicular up to 30 km/h |  |  Yes  No |
| Base coverage urban | Uplink | Stationary, pedestrian, vehicular |  |  Yes  No |
| High speed | Uplink | High speed vehicular, vehicular |  |  Yes  No |
| **4.2.4.3.8** Mobility Traffic channel link data rates (bit/s/Hz) *(4.6)* | Indoor | Uplink | 1.0 | 2.56 ~ 3.15 |  Yes  No | *See [36.912] subclause 16.4.3* |
| Microcellular | Uplink | 0.75 | 1.21 ~ 1.42 |  Yes  No |
| Base coverage urban | Uplink | 0.55 | 1.08 ~ 1.36 |  Yes  No |
| High speed | Uplink | 0.25 | 1.22 ~ 1.45 |  Yes  No |

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| --- | --- | --- | --- | --- | --- | --- |
| **Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1)** | Category | | Required value | Value(2), (3) | Require- ment met? | Comments |
| Test environment | Downlink or uplink |
| **4.2.4.3.9** Intra-frequency hand-over interruption time (ms) *(4.7)* | Not applicable | Not applicable | 27.5 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.1* |
| **4.2.4.3.10** Inter-frequency handover interruption time within a spectrum band (ms) *(4.7)* | Not applicable | Not applicable | 40 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.2* |
| **4.2.4.3.11** Inter-frequency handover interruption time between spectrum bands (ms) *(4.7)* | Not applicable | Not applicable | 60 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.3* |
| **4.2.4.3.12** Inter-system handover  *(4.7)* | Not applicable | Not applicable | Not applicable | Not applicable |  Yes  No | *See 4.2.3.2.5.1 in characteristics template* |
| **4.2.4.3.13** Number of supported VoIP users (active users/ sector/MHz) *(4.8)* | Indoor | As defined in Report ITU-R M.2134 | 50 | 131 ~ 140 |  Yes  No | *See [36.912] subclause 16.4.2* |
| Microcellular | As defined in Report ITU-R M.2134 | 40 | 75 ~ 80 |  Yes  No |
| Base coverage urban | As defined in Report ITU-R M.2134 | 40 | 68 ~ 69 |  Yes  No |
| High speed | As defined in Report ITU-R M.2134 | 30 | 91 ~ 94 |  Yes  No |
| (1) As defined in Report ITU-R M.2134.  (2) According to the evaluation methodology specified in Report ITU-R M.2135.  (3) Mandatory when “no” is checked, optional when “yes” is checked.  (4) Refer to Report ITU-R M.2135, § 7.4.1. | | | | | | |

**TDD RIT component of SRIT “LTE Release 10 & beyond (LTE-Advanced)” (Source RP-090747)**

#### 4.2.4.1 Compliance template for services2

|  | Service related minimum capabilities within the RIT/SRIT | Evaluator’s comments |
| --- | --- | --- |
| **4.2.4.1.1** | **Support of a wide range of services**  Does the proposal support a wide range of services?:  If bullets 4.2.4.1.1.1 - 4.2.4.1.1.3 are marked as "yes" then 4.2.4.1.1 is a "yes".  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.1** | **Ability to support basic conversational service class**  Is the proposal able to support basic conversational service class?:  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.2** | **Support of rich conversational service class**  Is the proposal able to support rich conversational service class?:  YES / NO | *See [36.912] subclause 16.7* |
| **4.2.4.1.1.3** | **Support of conversational low delay service class**  Is the proposal able to support conversational low-delay service class?:  YES / NO | *See [36.912] subclause 16.7* |

#### 4.2.4.2 Compliance template for spectrum2

|  |  |
| --- | --- |
|  | Spectrum capability requirements |
| **4.2.4.2.1** | **Spectrum bands**  Is the proposal able to utilize at least one band identified for IMT?: YES / NO  Specify in which band(s) the candidate RIT or candidate SRIT can be deployed.  *See 4.2.3.2.8.3 in characteristics template for the bands in which the proposed RIT can be deployed. See [36.912] subclause 16.6.1, also.* |

#### 4.2.4.3 Compliance template for technical performance2

| Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1) | Category | | | Required value | Value(2), (3) | Require-ment met? | Comments |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test environment | | Downlink or uplink |
| **4.2.4.3.1** Cell spectral efficiency (bit/s/Hz/cell) *(4.1)* | Indoor | Downlink | | 3 | 4.1 ~ 6.7 |  Yes  No | *See [36.912] subclause 16.4.1.1* |
| Uplink | | 2.25 | 3.1 ~ 5.5 |  Yes  No |
| Microcellular | Downlink | | 2.6 | 2.7 ~ 4.6 |  Yes  No | *See [36.912] subclause 16.4.1.2* |
| Uplink | | 1.8 | 1.9 ~ 3.0 |  Yes  No |
| Base coverage urban | Downlink | | 2.2 | 2.4 ~ 3.7 |  Yes  No | *See [36.912] subclause 16.4.1.3* |
| Uplink | | 1.4 | 1.5 ~ 2.7 |  Yes  No |
| High speed | Downlink | | 1.1 | 1.6 ~ 4.0 |  Yes  No | *See [36.912] subclause 16.4.1.4* |
| Uplink | | 0.7 | 1.8 ~ 2.6 |  Yes  No |
| **4.2.4.3.2** Peak spectral efficiency (bit/s/Hz) *(4.2)* | Not applicable | Downlink | | 15 | 16.0 |  Yes  No | *See [36.912] subclause 16.1* |
| Uplink | | 6.75 | 8.1 |  Yes  No |
| **4.2.4.3.3** Bandwidth *(4.3)* | Not applicable | Up to and including (MHz) | | 40 |  |  Yes  No | *See [36.912] subclause 16.6.2* |
| Scalability | | Support of at least three band-width values(4) |  |  Yes  No | *See [36.912] subclause 16.6.2* |

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| --- | --- | --- | --- | --- | --- | --- |
| **Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1)** | Category | | Required value | Value(2), (3) | Require-ment met? | Comments |
| Test environment | Downlink or uplink |
| **4.2.4.3.4** Cell edge user spectral efficiency (bit/s/Hz) *(4.4)* | Indoor | Downlink | 0.1 | 0.19 ~ 0.24 |  Yes  No | *See [36.912] subclause 16.4.1.1* |
| Uplink | 0.07 | 0.22 ~ 0.39 |  Yes  No |
| Microcellular | Downlink | 0.075 | 0.085 ~ 0.12 |  Yes  No | *See [36.912] subclause 16.4.1.2* |
| Uplink | 0.05 | 0.068 ~ 0.079 |  Yes  No |
| Base coverage urban | Downlink | 0.06 | 0.067 ~ 0.10 |  Yes  No | *See [36.912] subclause 16.4.1.3* |
| Uplink | 0.03 | 0.062 ~ 0.097 |  Yes  No |
| High speed | Downlink | 0.04 | 0.049 ~ 0.12 |  Yes  No | *See [36.912] subclause 16.4.1.4* |
| Uplink | 0.015 | 0.080 ~ 0.15 |  Yes  No |
| **4.2.4.3.5** Control plane latency (ms) *(4.5.1)* | Not applicable | Not applicable | Less than 100 ms | 50 |  Yes  No | *See [36.912] subclause 16.2* |
| **4.2.4.3.6** User plane latency (ms) *(4.5.2)* | Not applicable | Not applicable | Less than 10 ms | 4.9 |  Yes  No | *See [36.912] subclause 16.3* |
| **4.2.4.3.7** Mobility classes *(4.6)* | Indoor | Uplink | Stationary, pedestrian |  |  Yes  No |  |
| Microcellular | Uplink | Stationary, pedestrian, vehicular up to 30 km/h |  |  Yes  No |
| Base coverage urban | Uplink | Stationary, pedestrian, vehicular |  |  Yes  No |
| High speed | Uplink | High speed vehicular, vehicular |  |  Yes  No |
| **4.2.4.3.8** Mobility Traffic channel link data rates (bit/s/Hz) *(4.6)* | Indoor | Uplink | 1.0 | 2.63 ~ 3.11 |  Yes  No | *See [36.912] subclause 16.4.3* |
| Microcellular | Uplink | 0.75 | 1.14 ~ 1.48 |  Yes  No |
| Base coverage urban | Uplink | 0.55 | 0.95 ~ 1.36 |  Yes  No |
| High speed | Uplink | 0.25 | 1.03 ~ 1.38 |  Yes  No |

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| --- | --- | --- | --- | --- | --- | --- |
| **Minimum technical requirements item (4.2.4.3.x), units, and Report ITU-R M.2134 section reference(1)** | Category | | Required value | Value(2), (3) | Require- ment met? | Comments |
| Test environment | Downlink or uplink |
| **4.2.4.3.9** Intra-frequency hand-over interruption time (ms) *(4.7)* | Not applicable | Not applicable | 27.5 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.1* |
| **4.2.4.3.10** Inter-frequency handover interruption time within a spectrum band (ms) *(4.7)* | Not applicable | Not applicable | 40 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.2* |
| **4.2.4.3.11** Inter-frequency handover interruption time between spectrum bands (ms) *(4.7)* | Not applicable | Not applicable | 60 | 10.5 |  Yes  No | *See [36.912] subclause 16.5.3* |
| **4.2.4.3.12** Inter-system handover  *(4.7)* | Not applicable | Not applicable | Not applicable | Not applicable |  Yes  No | *See 4.2.3.2.5.1 in characteristics template* |
| **4.2.4.3.13** Number of supported VoIP users (active users/ sector/MHz) *(4.8)* | Indoor | As defined in Report ITU-R M.2134 | 50 | 130 ~ 137 |  Yes  No | *See [36.912] subclause 16.4.2* |
| Microcellular | As defined in Report ITU-R M.2134 | 40 | 74 |  Yes  No |
| Base coverage urban | As defined in Report ITU-R M.2134 | 40 | 65 ~ 67 |  Yes  No |
| High speed | As defined in Report ITU-R M.2134 | 30 | 86 ~ 92 |  Yes  No |
| (1) As defined in Report ITU-R M.2134.  (2) According to the evaluation methodology specified in Report ITU-R M.2135.  (3) Mandatory when “no” is checked, optional when “yes” is checked.  (4) Refer to Report ITU-R M.2135, § 7.4.1. | | | | | | |

1. If a proponent determines that a specific question does not apply, the proponent should indicate that this is the case and provide a rationale for why it does not apply. [↑](#footnote-ref-2)