2023 5G Challenge Application Template

*[Applicants: To save space, you are allowed to delete bracketed italicized instructions, such as this sentence.]*

# Applicant Information

*[An entrant may either be (i) a single or multiple organizations, or (ii) an individual or group of individuals ("team"). Organizations may enter under an official affiliation (e.g., a university or corporation). Multiple affiliations may partner under one application. An organization must have its primary place of business in the United States. An individual or team leader (if multiple individuals enter as a team) must be at least age 18 and a U.S. citizen or permanent resident of the United States.]*

*[Applicant Type (either (i) organization or (ii) individual)]* answer here

*[Applicant Name]* answer here

*[Applicant Address]* answer here

*[Team Leader Name and Title]* answer here

*[Team Leader Email address]*answer here

*[Team Leader Phone Number]* answer here

*[Include affiliations and sponsors, if applicable]* answer here

# Subsystems

*[Name and type of subsystem(s) to be submitted for testing: CU+DU or RU.* *Applicants are encouraged to submit multiple variations of their subsystems if applicable, such as two RUs with different technical specifications (see Section 5 below).]*

answer here

# Mobility Testing Track

*[All subsystems will be considered for the Multi-vendor E2E Integration Testing Track.]*

*[Are you willing to participate in mobility testing with other contestant subsystems?]* answer here

*[If yes, list in order of preference the configurations you want for mobility testing. Possible configurations are Type A (single-vendor pairing), Type B (designated pairing), and/or Type C (cold pairing). Multiple configurations can be selected. You must provide an answer for each subsystem submitted.]*

answer here

# Technical Overview

*[Provide a technical overview with sufficient detail to assess viability and to identify any novel aspects. For each subsystem submitted for testing, include any conditions that may impact the host lab of the 5G Challenge (e.g., computer hardware, operating system, and orchestration). You must provide an answer for each subsystem submitted.]*

answer here

# Technical Specifications

*[Provide the following technical details for each subsystem submitted. If submitting multiple systems with different technical specifications (e.g., one TDD RU and one FDD RU), clearly list the specifications under each subsystem. These answers will be used to choose contestant pairings for Multi-vendor E2E Integration Testing Tracks and contestant groups for Mobility Testing Tracks.]*

CU+DU subsystems Identify subsystem by name or number here

* *[Duplex method supported (TDD and/or FDD)]* answer here
* *[Mode of operation supported for RUs (Cat-A or Cat-B)]* answer here
* *[Open fronthaul synchronization configuration(s) supported]* answer here

RU subsystems:

* *[Duplex method supported (TDD and/or FDD)]* answer here
* *[Frequency bands supported]* answer here
* *[Max RF output power]* answer here
* *[Any applicable output power control limitations]* answer here
* *[Tx/Rx configuration]* answer here
* *[Instantaneous bandwidth (IBW)]* answer here
* *[Occupied bandwidth (OBW)]* answer here
* *[5G NR Carrier bandwidth]* answer here
* *[Mode of operation supported by the open fronthaul (Cat-A or Cat-B)]* answer here
* *[Open fronthaul synchronization configuration(s) supported]* answer here

# Compliance

*[Identify compliance with the mandatory 3GPP standards and O-RAN ALLIANCE technical specifications specified in Section 10 of the 2023 5G Challenge Rules. Include a summary of test results where relevant. State which open fronthaul synchronization configuration(s) your entry supports and why those configurations were chosen (options LLS-C1, LLS-C2, LLS-C3, and LLS-C4).]*

answer here

# Security Plan

*[Describe the security plan, including, for example, implementation of 3GPP and O-RAN ALLIANCE security procedures, known critical software vulnerabilities, and mitigation plans.]*

answer here

# Wrap-around Emulation Testing

*[This information will not be used to score the application.]*

*[Indicate preferred 5G Test system (Viavi or Keysight)]* answer here

*[Identify any prior experience interoperating with vendors of the host lab emulation test systems (Viavi or Keysight)]* answer here

*[Identify test and measurement vendor(s) used previously, and summarize the testing results]* answer here

# Prior E2E Integration Partners

*[Identify vendors that you have interoperated with previously and the type of E2E integration testing performed (e.g., plugfest, 5G Challenge Preliminary Event, or commercial launch). This information will not be used to score the application.]*

answer here

# Delivery of Subsystem

*[Select primary and secondary delivery options: (1) cluster delivery and local host lab installation, (2) remote install onto host lab cluster, and (3) remote install onto host lab “bare metal” system.]*

answer here

# Staff and Resource Availability

*[What lead time is needed for staff to support 5G Challenge activities?]* answer here

*[When can the hardware/software package be delivered?]* answer here

*[How long can the hardware/software package be left at the host lab?]* answer here

*[Are there any preferences or constraints for schedule of time in the host lab, or any conflicting events that will prevent participation (e.g., holidays or specific events)?]* answer here

*[Any other potential delays and conflicts?]* answer here

# Organizational Support for the 5G Challenge

Summarize the plan for providing the required level of support to the 5G Challenge:

*[Job title(s) of staff who will be physically on-site during testing]* answer here

*[Statement of commitment to the host lab’s time zone and regular working hours for remote personnel]* answer here

*[Typical and maximum expected response time for remote personnel to respond, when the host lab identifies issues that require troubleshooting and resolution]* answer here

*[Note that (1) each contestant is required to have system engineering staff on-site for the testing of their submitted subsystems during their various lab phases, and (2) each contestant must make necessary off-site staff available to quickly respond (i.e., within 90 minutes) to troubleshoot and resolve integration issues encountered that cannot be resolved by their staff on-site.]*

# Additional Comments for the 2023 5G Challenge Team

answer here