

# **Wireless Broadband Market Development Call For Collaboration**

**Frequently Asked Questions  
Release 1.0**

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1. **Is indoor coverage required for restaurants?**  
Restaurants are not areas required to be covered as part of the indoor coverage requirements.
  
2. **Is indoor coverage required for atriums and lobbies if they do not have seating facilities?**  
Atriums and lobbies are specific common areas that are required to be covered as part of the indoor coverage requirements, even if there are no seating facilities available.
  
3. **Are residential areas, such as condominiums, part of the outdoor coverage requirements?**  
Outdoor coverage is only required for areas that are freely accessible to the public, have a high volume of human traffic and have a concentration of commercial activities. As such, residential areas do not form part of the outdoor coverage requirements.
  
4. **Please clarify what the requirement for Basic Services being offered “at least 512 kbps” entails? Is the specification to “support access or download speeds at least 512 kbps” on a per user basis?**  
Operators are required to offer a service plan with data access or download speeds of at least 512 kbps. However, IDA is cognizant that the data access or download speed to each individual user may be affected by external factors like the number of users and the traffic load. Thus, in such cases, operators will not be required to guarantee that 512 kbps data access or download speeds can be attained at all times.
  
5. **Is there a specification of an upload speed?**  
There is no specified upload speed, however the network should be capable of supporting the various applications and services listed in the CFC Specification 4C(i).

6. **Will IDA mandate the terms and conditions for roaming between the different Regions?**

IDA intends that users should be able to access the network with the same user credentials regardless of the Region they are in for both Basic and Premium Services. Operators will be encouraged to come to an agreement on how to enable roaming, as well as the rates which will allow the user to do so. If necessary, IDA may stipulate appropriate roaming conditions to achieve the objectives of the CFC.

7. **What is the difference between the milestone "Launch of commercial services in other Catchment Areas ", and "Completion of network deployment for all Primary and Secondary Catchment Areas in all Regions"?**

Operators may adopt a phased approach in deploying the network across Catchment Areas. Operators may choose to initially offer wireless broadband service in selected Catchment Areas, and systematically rollout the deployment to the rest of the Catchment Areas in the Region. If adopting a phased network rollout, operators must complete the coverage of all Catchment Areas by 20 June 2007.

8. **Are Wireless Broadband Access ("WBA") licensees permitted to form a consortium with another WBA licensee for the purposes of the CFC? If so, please advise on the approval process.**

The formation of a consortium between WBA licensees for the purposes of the CFC will be subject to IDA's approval. In seeking IDA's approval, interested parties can choose to submit their applications for consortium formations before submitting their CFC proposal, or to send in their application together with the CFC proposal. All applications and any written queries you may have on the formation of a consortium for purposes of the CFC should be sent via hard copy and an email copy to:

Mr Andrew J Haire  
Assistant-Director General (Telecoms)  
Fax: +65 6211-2116  
Email: hema\_ramnani@.ida.gov.sg

9. **How will IDA be assisting operators interested in mounting equipment on public structures such as lampposts?**

Operators can approach IDA for assistance in contacting the relevant public agencies regarding the use of public structures. In addition, a set of guidelines on the use of Land Transport Authority (“LTA”) structures such as lampposts is also available upon request. Interested operators can send in their requests to:

Mr John Thomas  
Fax: +65 6211-2213  
Email: john\_thomas@ida.gov.sg

10. **Can IDA elaborate on the funding of awarded operators?**

Funding will be provided in the form of a disbursement grant that will co-fund the costs of deploying the network and operating the wireless broadband service. Funding will be pegged to deployment milestones and deliverables by the operators. These will be subject to negotiation between IDA and selected operators prior to the award of the CFC.

11. **Is the WBMD CFC opened only to current operators and service providers?**

Participation in the CFC is not confined to current operators and service providers. Any company incorporated in Singapore and having the necessary licenses required to operate the network at the time of deployment can participate in the CFC.

12. **Are Participants required to make use of the Intel-IDA architecture provided as Annex D of the CFC Public Document?**

The Intel-IDA architecture is provided for reference only. It is not a requirement that the Participant must make use of the architecture.