
INFORMATION DOCUMENT

REQUEST FOR INFORMATION

*“PROCUREMENT OF QUALITY OF SERVICE TESTING EQUIPMENT FOR THE
AUTHORITY FOR INFO-COMMUNICATIONS TECHNOLOGY INDUSTRY OF
BRUNEI DARUSSALAM (AITI)”*

Reference: AITI/8/2/RT-QoS-10/01

Date: 3rd May 2010



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INTRODUCTIONS AND INSTRUCTIONS

1. The Authority for Info-communications Technology Industry of Brunei Darussalam's (AITI) Monitoring Unit is assigned to oversee the standards and reliability of the services provided by licensees. To ensure that the licensees provide services to the consumers in accordance with the terms and conditions of their licenses, AITI is looking to purchase a Quality of Service Test System in order to verify the same.
2. AITI seeks information on the following matters contained in Section I, Information Sheet.
3. This Request for Information will be open from 3rd May 2010 to 27th May 2010.

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SECTION I INFORMATION SHEET

1. Background

1.1 "AITI's Licensing & Regulatory Framework contains a Monitoring Framework that allows AITI to oversee industry performance. As regulator, AITI is responsible to ensure that the service levels delivered by licensees is at a level that meets the terms and conditions of their license and the needs of consumers. AITI may rely on complaints before investigating any potential breach of obligations. However, in certain key areas it is necessary for AITI to be proactive in monitoring the behavior and actions of licensees so as to take pre-emptive steps to prevent a problem from arising."

2. Purpose of Quality of Service Testing Equipment

2.1 AITI seeks information on the various methods and cost of equipment used for testing the quality of services of specific networks, which will give AITI the ability to analyze the user end experience of that particular network services. These networks are:

⇒ *Cellular Services available in Brunei Darussalam*

GSM and the WCDMA network technologies are used by local cellular service providers. These services enable users to send SMS, MMS, make voice and video calls and also access the internet through their mobile phones.

⇒ *Current and Future Broadband Wireless Services available in Brunei Darussalam*

These services utilize the latest 3.5G mobile technology, also known as HSDPA (High-Speed Downlink Packet Access), which allows access to the Internet wirelessly. Broadband wireless access through IEEE802.16e (mobile WiMax), 802.11a/b/g/n (WiFi) and LTE extension of 3.5G services will also be rolled out in the near future.

⇒ *Internet Access Fixed Line Service available in Brunei Darussalam*

This service is a high speed data communications service using a variation of ADSL which connect users at higher speeds with unlimited connectivity

depending on the service package that the subscriber subscribes to.

3. Services to be Tested

The system should enable AITI to test the quality of the services on the above mentioned networks; the following are some of the parameters that is require to be tested.

The system should be able to produce a report of the measurements that have been tested.

Mobile Communications	Internet
GSM and WCDMA networks:	HSDPA, ADSL, 802.16e, 802.11a/b/g/n and LTE networks:
a) Network coverage.	a) Network availability.
b) Call success rates.	b) Network latency.
c) Average call set up time.	c) Packet loss.
d) Dropped call rate.	d) Throughput or bandwidth utilisation.
e) Data rates in GSM, GPRS, EDGE, WCDMA, HSDPA.	e) Jitter.
f) Service measurement testing for SMS and MMS.	f) Packet data testing for HTTP and FTP.
g) Audio quality measurements – PESQ measurement [ITU standard 862.1].	g) Video streaming rates.

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SECTION II SUBMISSION REQUIREMENTS

All submissions must comply with the terms and conditions, requirements and specifications contained herein. Failure to do so will render the submission invalid.

1. Submission Requirements

- 1.1 Interested Parties shall send their proposals by hand, post and/or electronic mail to:

Ak. Saiful Rosman bin Pg Roslee
Authority for Info-communications Technology Industry of
Brunei Darussalam Block B14, Simpang 32-5,
Kg Anggerek Desa, Jalan Berakas,
Bandar Seri Begawan BB3713,
Brunei Darussalam.

Tel: +673 232 3232

Fax: +673 238 2446

Email: saiful.rosman@aiti.gov.bn

- 1.2 Proposals must be received not later than **3.00 p.m. on 27th May 2010.**

2. Preparation of Proposal

- 2.1 Consultants are requested to submit a technical and financial proposal written in the language(s) specified in the English Language.

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