



ITU Asia-Pacific Centres of Excellence Training/Workshop on Effective Use of Telecommunications/ICTs in Response to Disasters: Saving Lives

24-28 November 2008
Sintok, Kedah, Malaysia

Agenda

Brief Description

The Asia and Pacific region has experienced more disasters than any other region in recent years bringing a wealth of experience that can be invaluable to other countries. Over 70 per cent of all lives lost due to disasters globally occur within the Asia Pacific region. When telecommunication infrastructure is significantly or completely destroyed by a disaster, only radio communication services can be employed for relief operations. Therefore, it is important that resources including human, equipment and services must be deployed rapidly during a disaster relief operation.

The Training Workshop focuses on concepts and hands-on training on various technologies and applications that are suitable for deployment and aimed at facilitating rescue and relief operations in emergencies, especially in the aftermath of a disaster. The training workshop aims to:

- To create awareness and demonstrate telecommunication technology options, facilities and services applicable for use in response to disasters or emergencies especially in disaster relief operations;
- To provide practical experience to participants in using the telecommunication/ICT facilities and services during these operations;
- To strengthen partnerships in disaster relief among international agencies/organizations, NGOs, industry, and governments as well as encourage roles of public sector or NGOs e.g. radio amateurs, volunteers, etc.
- To identify issues and challenges in countries in order to find ways to overcome them.

This Training Workshop is organized jointly by the Telecommunication Development Bureau of the ITU, Universiti Utara Malaysia (ITU CoE ASP UUM), the Ministry of Energy, Water and Communications (MEWC), Malaysia and sponsored by the Department of Broadband, Communications and the Digital Economy (DBCDE), Government of Australia. It is also supported by the Asia-Pacific Satellite Communications Council (APSCC), Asia-Pacific Telecommunity (APT), Economic and Social Commission for Asia and the Pacific (ESCAP), Malaysian Communications and Multimedia Commission (MCMC) Malaysia, THAICOM, Motorola, Inmarsat, Iridium, International Amateur Radio Union (IARU), Asia-Pacific Broadcasting Union (ABU), Telekom Malaysia, Packet-One, and SingTel.

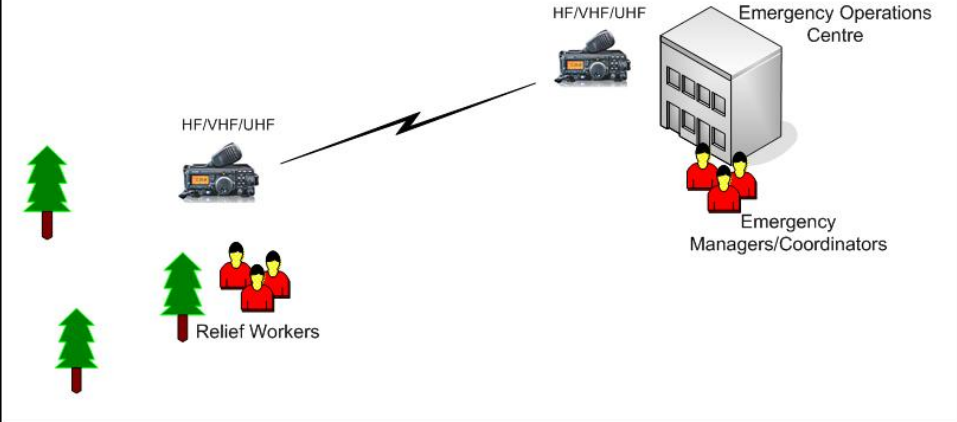
Monday 24 November 2008	
08:00–09:00	Registration
09:00–09:30	Opening and Welcome <ul style="list-style-type: none"> • Y.Bhg. Tan Sri Dr. Nordin Kardi <i>Vice Chancellor, Universiti Utara Malaysia</i> • Mr. Wisit Atipayakoon ITU Telecommunication Development Bureau (BDT) • Dr. Rebecca de Zylva Australian High Commission, Kuala Lumpur <i>on behalf of</i> the Department of Broadband, Communications and the Digital Economy (DBCDE), Government of Australia • Y. Bhg. Dato' Dr. Mohd Padzil bin Hashim Deputy Secretary General (Policy), Ministry of Energy, Water and Communications (MEWC), Government of Malaysia
09:30–10:00	Coffee/Tea Break
10:00–12:30	Session 1: Role of ICTs in Disaster Management The first session will focus on overview of disaster management by highlighting the critical role of telecommunications/ICTs during every phase of a disaster as well as ITU's work in this area which includes an introduction to the ITU Framework for Cooperation in Emergencies (IFCE). <ul style="list-style-type: none"> • <i>Role of ITU in Emergency Communications in the Asia-Pacific Region</i> Mr. Wisit Atipayakoon ITU Regional Office for Asia and the Pacific • <i>Role of Satellites in Disaster Recovery</i> Mr. Terry Bleakley, MEASAT <i>on behalf of</i> Asia-Pacific Satellite Communications Council (APSCC) • <i>Role of Amateur Radio in Disaster/Emergency Communications</i> Mr. Sangat Singh, Former-Director of IARU Region 3 International Amateur Radio Union (IARU) • <i>The Application of Adaptive HF Digital Communication Technology for Future Disaster Relief Operations</i> Assoc. Prof Dr. Ahmad Zuri bin Sha'ameri Malaysian Communications and Multimedia Commission (MCMC)
12:30–13:30	Lunch
13:30–15:30	Session 2: Satellite Communications for Disaster Relief In aftermath of a disaster, satellite communication plays a very important role in disaster relief and rehabilitation due to the disruption of other communication networks, either wired or wireless. Humanitarian teams and relief workers have used satellite phones, terminals, and applications to a large extent within or outside the disaster-hit areas. This session will also demonstrate satellite communications equipment. <ul style="list-style-type: none"> • <i>Satellite and BGAN</i> Mr. Guy Mariz, Technical Trainer, Inmarsat Training Academy Inmarsat
15:30–15:45	Coffee/Tea

15:45–17:45	<ul style="list-style-type: none"> • <i>VSAT and IPSTAR</i> Mr. Pulkit Maheshwari ThaiCom (Public) Co., Ltd. • <i>Telecommunications Services for Emergency Response</i> Mr. Alvin Chew, Director, Business Development, Asia Iridium Satellite LLC.
18:30	Welcome Dinner sponsored by UUM

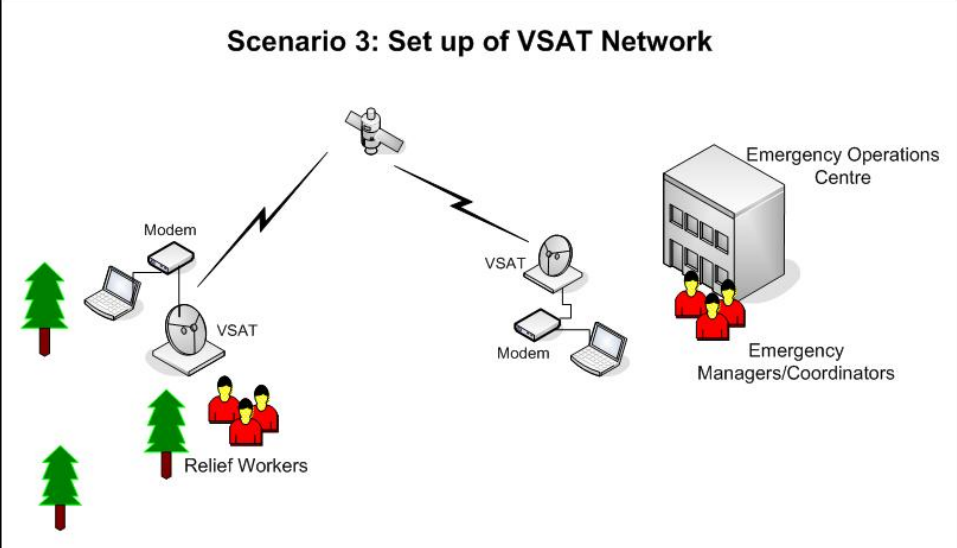
Tuesday 25 November 2008 (On-site)	
09:00–10:15	<p>Session 3: Radiocommunications for Public Protection and Disaster Relief</p> <p>This session will address aspects of spectrum management, such as the protection of safety services from unwanted emissions, as well as providing information on the technical characteristics, spectrum requirements, channeling plans and operational aspects of systems used by such services.</p> <ul style="list-style-type: none"> • <i>HF, VHF, and UHF radio</i> Malaysian Amateur Radio Transmitters' Society (MARTS)
10:15–10:30	Coffee/Tea Break
10:30–12:30	<p>Session 3: continued</p> <ul style="list-style-type: none"> • <i>Public Safety Wireless Technologies</i> Mr. James Wong, Senior Business Development Manager Motorola
12:30–13:30	Lunch
13:30–15:00	<p>Session 4: Ad-hoc Telecommunications/ICTs for Emergencies</p> <p>In emergencies, it is imperative that communications networks, either wired or wireless, must be set up rapidly. However in most cases when the wired telecommunication infrastructure is significantly or complete destroyed by a disaster, only wireless communication network can be employed. This session will look at innovative wireless systems and technologies which can be set up and used in emergencies.</p> <ul style="list-style-type: none"> • <i>Globally Harmonized spectrum for PPDR and the role of ITU in global spectrum harmonization</i> Mr. Khoo Teng Lock, Manager, Government Affairs & Public Policy Motorola Technology Sdn Bhd • <i>Role of Telekom Malaysia in providing telecommunications services during disasters</i> Mr. Mohamad Salleh Bin Yusof, General Manager, Service Assurance Centre, Telekom Malaysia Berhad (TM)
15:00–15:30	Coffee/Tea Break

15:30–17:00	<p>Session 5: Applications for Rescue Operations</p> <p>The Internet, specifically web-based information services, increasingly provides support for major disaster relief and rescue operations. For relief workers, access to the Internet permits continuous updates of disaster information, accounts of human and material resources available for response, and technical advice. The session will also discuss e-applications such as telemedicine which can save lives especially in the aftermath of disasters.</p> <ul style="list-style-type: none"> • <i>Common Alerting Protocol (CAP)</i> Mr. Nuwan Waidyanatha, HazInfo Last-Mile EWS, LIRNEasia • <i>Low-cost Radio Broadcasting (equipment by Asia-Pacific Broadcasting Union)</i> Mr. Rukmin Tissa Wijemanne, Director In a Box Innovations
18:30	Dinner sponsored by Telekom Malaysia Berhad (TM)

Wednesday 26 November 2008 (On-site)	
09:00–09:30	Briefing
09:30–12:00	<p>Session 6: Satellite & Radio communications</p> <p>The session will exercise the scenario on using satellite phones/terminals (Satellite phones anywhere) and the scenario of amateur radio (Role of amateur radio).</p> <div data-bbox="418 1056 1377 1675" style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Scenario 1: Satellite Phones Anywhere</p> </div>
12:00–13:30	Lunch

13:30–17:00	<p>Session 6: (continuing) Satellite & Radio Communications</p> <div data-bbox="418 216 1380 751" style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Scenario 2: Role of Amateur Radio</p>  </div>
18:30	Dinner sponsored by Packet-One

Thursday 27 November 2008 (On-site)

09:00–09:30	Briefing
09:30–12:00	<p>Session 7: VSAT and Ad-hoc Wireless Network</p> <p>The session will exercise scenarios of using VSAT and ad-hoc wireless network. Participants will have to set up the complete VSAT systems e.g. set up voice and/or data communications, apply applications such as satellite applications, tele-medicine, etc.</p> <div data-bbox="418 1218 1380 1774" style="border: 1px solid black; padding: 10px; text-align: center;"> <p>Scenario 3: Set up of VSAT Network</p>  </div>
12:00–13:30	Lunch
13:30–17:00	Session 7: (continuing) VSAT and Ad-hoc Wireless Network
18:30	Farewell Dinner sponsored by UUM

Friday 28 November 2008 (Discussions)	
09:00–10:30	<p>Session 8: Country Presentations</p> <p>This session seeks to learn about participant countries' existing policies, regulations, and plans related to disaster management and emergency telecommunications through the presentations of country papers.</p> <p><u>Session Moderator:</u> Mr. Wisit Atipayakoon, ITU</p> <ul style="list-style-type: none"> • <i>Afghanistan</i> Mr. Ata Mohammad YARI ATRA Board Member, Afghanistan Telecommunications Regulatory Authority (ATRA) • <i>Bhutan</i> Mrs. Sangay ZANGMO Communication Supervisor 1, Bhutan Infocomm & Media Authority (BICMA) • <i>India</i> Mr. Devendra SINGH Joint Advisor (Converged Networks), Telecommunication Regulatory Authority of India (TRAI) • <i>Kiribati</i> Ms. Kimere RIUTETI Personal Assistant, Telecommunications Authority of Kiribati (TAK) • <i>Marshall Islands</i> Mr. Rommel Robles NATIVIDAD Spectrum Manager, Ministry of Transportation and Communications • <i>Nauru</i> Mr. Rudolph GAROA Manager, Cenpacnet Inc. • <i>Philippines</i> Mr. Roderick Pinero MENDOZA Planning Officer II, Albay Public Safety & Emergency Management Office
10:30–10:45	Coffee/Tea Break
10:45–12:30	<p>Session 8: continued</p> <ul style="list-style-type: none"> • <i>Solomon Islands</i> Mr. Tani TAGILI Technical Officer, Ministry of Communications & Aviation • <i>Sri Lanka</i> Mr. Kurukulasuriya Anton Damson FERNANDO Assistant Director, Telecommunications Regulatory Commission of Sri Lanka (TRCSL) • <i>Tonga</i> Mr. Fe'ao VAKATA Communication Engineer, Department of Communications • <i>Vanuatu</i> Mr. Williams Bae WORWOR Senior Met Officer, Vanuatu Meteorological Services • <i>Pakistan</i> Mr. Mirza Babar AZIZ Chief Technology Officer, National Telecom Corporation (NTC)
12:30–14:15	Lunch

14:15–15:45	Session 9: Policy and Regulation <ul style="list-style-type: none"> • <i>National Emergency Telecommunications Plan and the Tampere Convention</i> Dr. Cosmas Zavazava, Head, LDCs, SIDS, and Emergency Communications Programme International Telecommunication Union (ITU), BDT • <i>Use of Emergency Communications in International Disaster Operations: Legal and Policy Considerations</i> Mr. Daniel Bolanos, Disaster Management Unit (DMU) International Federation of Red Cross and Red Crescent Societies (IFRC)
15:45–16:00	Coffee/Tea Break
16:00–16:30	Session 10: Wrap-up: Mr. Wisit Atipayakoon, ITU
16:30–17:00	Closing Session <ul style="list-style-type: none"> • Associate Prof. Dr Wan Rozaini Sheik Osman Director, ITU Centre of Excellence Universiti Utara Malaysia (ITU CoE UUM) • Dr. Cosmas Zavazava Head, LDCs, SIDS, and Emergency Communications Programme ITU Telecommunication Development Bureau (BDT) • Y.Bhg. Datuk Dr. Halim Shafie Chairman, Malaysian Communications and Multimedia Commission (MCMC)
20:00	Dinner sponsored by UUM

TRAINING PARTNERS

