

**Consideration of regulatory provisions and spectrum allocations for use  
by enhanced maritime safety systems for ships and ports**

The World Radiocommunication Conference (Geneva, 2007),

*considering*

- a)* that there is increasing need, on a global basis, to enhance ship and cargo identification, tracking, and surveillance as well as ship and port security and safety;
- b)* that the International Maritime Organization (IMO) adoption of the International Ship and Port Facility Security (ISPS) Code, specifically Safety of Life at Sea (SOLAS) Convention, Chapter XI-2, on special measures to enhance maritime security, requires long-range spectrum dependent systems;
- c)* that the introduction of the shipborne universal automatic identification system (AIS) supports maritime safety and offers potential enhancements to ship and port security and maritime safety;
- d)* that studies within ITU-R indicate that additional AIS channels in the mobile-satellite service may be required to enhance and accommodate global ship tracking capabilities;
- e)* that advanced maritime HF data systems may be used to deliver security alerts and safety information to, and to receive similar information and long-range identification and tracking (LRIT) information from, ships in global regions not under satellite coverage;
- f)* that use of existing maritime mobile allocations, where practicable, for ship and port security and enhanced maritime safety would be preferable, particularly where international interoperability is required;
- g)* that additional studies within ITU-R on spectrum efficient radio technologies may be required to resolve these multifaceted spectrum requirements;
- h)* that requirements for ITU Service Publications and specific revisions of content, format and structure of those publications may be required to support maritime security and safety systems,

*noting*

- a) Resolution **342 (Rev.WRC-2000)**: “New technologies to provide improved efficiency in the use of the band 156-174 MHz by stations in the maritime mobile service”;
- b) Resolution **351 (Rev.WRC-07)**: “Review of the frequency and channel arrangements in the HF bands allocated to the maritime mobile service contained in Appendix **17** with a view to improving efficiency through the use of new digital technology by the maritime mobile service”;

*recognizing*

- a) that there is a global requirement to enhance maritime safety, ship and port security via spectrum dependent systems;
- b) that existing and future technologies for Ship Security and Alerting Systems (SSAS), introduced as a result of the ISPS Code referred to in *considering b)*, will require long-range communication links and networks between mobile ships and shore-based stations;
- c) that due to the importance of these radio links in ensuring the safe and secure operation of international shipping and commerce, they must be resilient to interference;
- d) that studies will be required to provide a basis for considering regulatory changes, including additional allocations and recommendations, designed to accommodate spectrum requirements of ship and port security, consistent with the protection of incumbent services;
- e) that the ITU and international standards organizations have initiated related studies on spectrum efficient technology,

*resolves*

- 1 that WRC-11 consider amendments to provisions of the Radio Regulations necessary to provide for the operation of ship and port security and maritime safety systems;
- 2 that WRC-11 consider additional allocations to the maritime mobile service below 1 GHz to support the requirements identified in *resolves 1*;
- 3 that WRC-11 consider additional allocations to the maritime mobile-satellite service in frequency bands allocated to the maritime mobile service between 156 and 162.025 MHz to support the requirements identified in *resolves 1*,

*invites ITU-R*

- 1 to conduct, as a matter of urgency, studies to determine the spectrum requirements and potential frequency bands suitable to support ship and port security and enhanced maritime safety systems;
- 2 that the studies referred to in *invites ITU-R 1* should include the applicability of spectrum efficient technologies, and sharing and compatibility studies with services already having allocations in potential spectrum for ship safety and port security systems,

*invites*

all members of the Radiocommunication Sector, the International Maritime Organization (IMO), International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), and the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) to contribute to these studies,

*instructs the Secretary-General*

to bring this Resolution to the attention of IMO, ISO, IEC, IALA and other international and regional organizations concerned.