



# Motorola

## Public Safety: Save Lives with Spectrum

### Issue

The **switch from analogue to digital services** for television offers unprecedented **economic and public interest opportunities** for Europe. One aspect that merits greater attention is the wide range of benefits the newly available spectrum could have if a dedicated, harmonized portion were to be allocated for emergency services across Europe on grounds of public interest. **Public Safety service responders** provide society with indispensable Police, Fire and other emergency services. Each individual in our society has the expectation of, if not the right to, efficient emergency services.

**In Europe**, it is increasingly clear that including the needs of the public safety services into the debate on this spectrum band is vital to our society.

- In November 2007, in its Communication on the **Digital Dividend** (COM(2007)0700), the European Commission's identified public safety applications, such as protection and disaster recovery (PPDR) services to be one of the potential most promising uses of this valuable spectrum.
- In March 2008, the European Commission issued a Communication (COM(2008)130) on "**Reinforcing the Union's Disaster Response Capacity**" calling for measures to enhance broadband and mobile communications for PPDR services, including allocation of bandwidth for communicating in emergency situations.
- In June 2008, the **Council Conclusions on the Digital Dividend**, Member States agreed on the need to coordinate spectrum usage at EU level and asked the Commission to conduct, in cooperation with Member States, the necessary studies and consultations and report on the results of this process at the December 2008 Council.
- In September 2008, the **European Parliament** adopted a report on Digital Dividend, which stresses the societal value of public safety services and the need to include support for their operational requirements in the context of the switch-off of analogue services. The Parliament argues that around 100 MHz of the digital dividend could be reallocated to mobile broadband and other services such as public safety services, radio frequency identification (RFID), and road safety applications, without preventing broadcasting services from flourishing. The report also urges that the EU should ensure a set of harmonized and EU-wide rules on how to allocate radio frequencies.

A report published recently by WIK-Consult GmbH<sup>1</sup> calls for public safety and security considerations to be prioritized in Europe's digital dividend debate. The report highlights that the current allocation of spectrum is inadequate for emergency services to meet their evolving communication needs and in some cases does not have the capacity to cope with major incidents – potentially putting lives at risk. The spectrum planning of this most important band continues at a rapid pace. The Member States and the European Institutions need to ensure NOW that public safety communication is included in the allocation of spectrum in the UHF band.

<sup>1</sup> [www.public-safety-first.eu](http://www.public-safety-first.eu)



**Collaboration and communication in a crisis – the essence of a Mission Critical Solution**

Motorola's mission critical portfolio of solutions provides technology that's second nature by enabling seamless connectivity and putting real-time information directly in the hands of users.

The design of this requires continuous dialogue and a mutual understanding of each other's strengths.

Motorola has understood that Mission Critical Solutions rely on 3 interlinked and vital elements:

- **True Interoperability** enabling instant communication among multiple responders;
- **Critical Networks** are created specifically for public safety organizations to provide the information security and reliability that responders require; and
- **Mission Critical Data** ensures informed, rapid response via secure information distributed by networks and applications.

Mission Critical networks are specifically designed for the unique requirements of public safety users.

Motorola has installed over 300 TETRA networks worldwide and is responsible for well over a quarter of the world's TETRA systems. On the emergency frontline through to day-to-day operations, Motorola is one of the most trusted brands in the provision of Mission Critical networks.

A significant factor in the high level of confidence placed in Motorola stems from our customised process for testing and fully optimizing networks before they are installed. Our integration centre in Berlin, Germany, enables engineers to thoroughly test and demonstrate the equipment to the customer before it is shipped to the field and installed. This compresses the installation cycle while the customer has the benefit of knowing that the network has been tested as an integrated solution and not as separate modules.

Motorola's Public Safety Mission Critical Solutions offer the experience, technology and peace of mind. With a Motorola Mission Critical Solution, public agencies can concentrate on what they do best – **serving and protecting the public.**

**Policy Recommendations**

In order to respond to new challenges, the emergency services need to use the latest broadband technology which require additional UHF spectrum. Motorola makes the following recommendations to enable Europe's emergency services to work more effectively and closely together:

- EU decision-makers must ensure that there is a **sufficient digital dividend** and that it is allocated for innovative services. Motorola supports the addition of the Digital Dividend debate into the text of the **Telecom Package** as the general rules will affect the way how this spectrum is allocated and managed. However, Motorola underlines that the decisions must be made **now** to enable new services in the years to come.
- **Dedicated spectrum for emergency services** would facilitate future broadband capabilities including accessing and transmitting vital real-time high quality video and other information that could enable more effective responses in emergencies and save lives in day to day situations. **The spectrum range, ideal for these uses, lies in the UHF range.**
- **A harmonized frequency spectrum for emergency services across Europe would provide the optimal solution and allow national bodies to better interact.** Harmonization is one of the driving forces behind the success of European integration. This is important for achieving economies of scale and for resolving cross-border interference issues.
- **Political support and leadership** is critical for the EU in order to give a political mandate to **Electronic Communications Committee** who performs the necessary studies to identify sufficient spectrum from within the UHF band for the services of general interest, including emergency services.



**MOTOROLA EU CONTACT:**  
Lizanne Scott; +32-2-718-56-73 ;  
[Lizanne.Scott@motorola.com](mailto:Lizanne.Scott@motorola.com)

© Motorola, Inc. 2008. All rights reserved