

災害に強い消防防災通信ネットワークの整備

Improving on a fire and disaster prevention communication network to cope with disasters

大規模災害時にまず求められるのは、被害情報などの収集や伝達です。被災地の市町村において収集された被害状況などの災害情報が、消防防災通信ネットワークを通じて市町村から都道府県、そして国の窓口となる消防庁へ速やかに集約され、そこから導き出された対策が、確実に被災地住民まで届けられなくてはなりません。

しかし、いざ災害が発生すると、安否確認などが殺到し電話がつながりにくくなったり、通信施設の被災や停電によって一般の通信ネットワークの使用が困難になります。このため災害時の通信には、災害に強い専用の消防防災通信ネットワークが不可欠となります。

Collection and transmission of information on the degree of damage is the first thing that is required following a large-scale disaster. Disaster information, which covers disaster conditions collected from municipalities in the disaster area, is transmitted to the FDMA, which acts as the point of contact for municipalities, prefectures and the rest of the country, via the fire and disaster prevention communication network. Any countermeasures that are devised must be able to reach residents in disaster stricken areas properly.

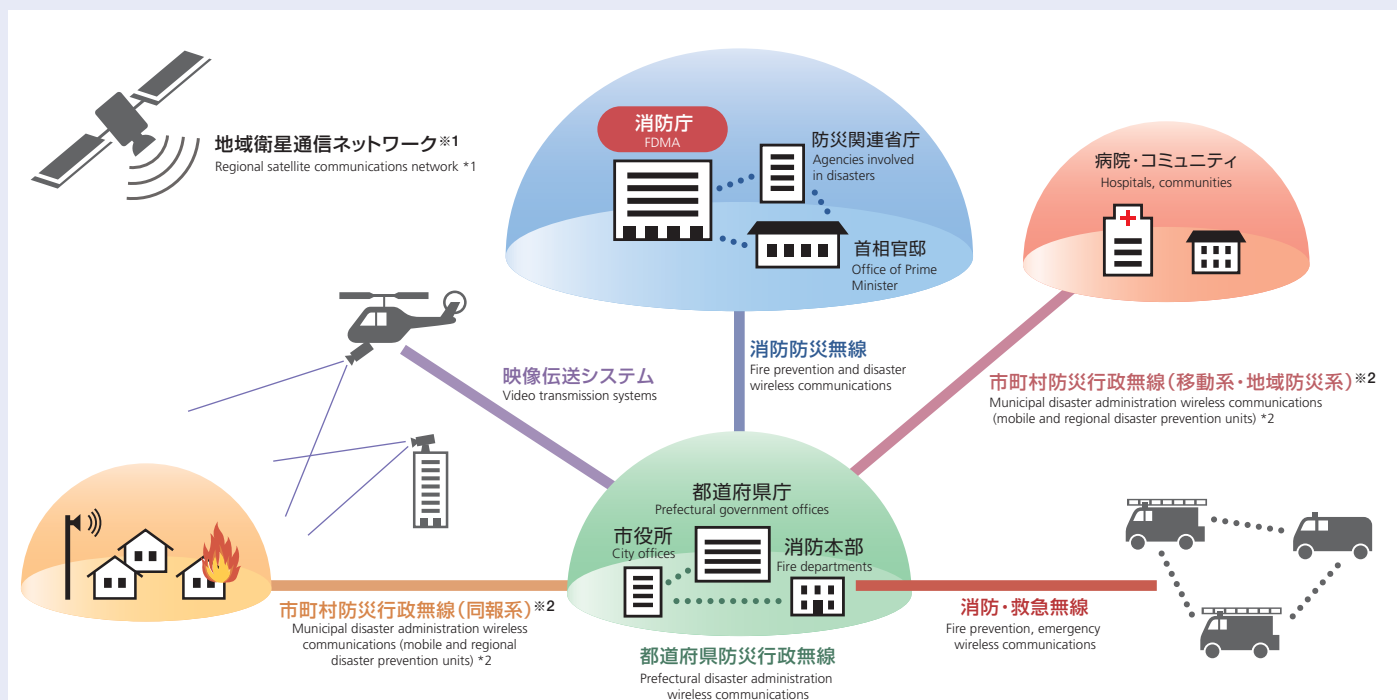
Yet when disaster strikes, telephones become overloaded with people trying to check on the safety of loved ones, while damage to communication facilities and power outages make the use of ordinary communication networks difficult. A special fire and disaster prevention communication network that can survive any type of damage is required for communications during disasters.

消防庁では、防災基盤整備事業等を活用し、これら消防防災通信ネットワークの整備と充実強化を積極的に進めています。

The FDMA maximizes the potential of disaster prevention frameworks and is actively making improvements and enhancements to the fire and disaster prevention communication network.

消防防災通信ネットワークの概要図

Overview of fire prevention and disaster communication network



※1 通信衛星を利用して、消防庁、都道府県、市町村および防災関係機関を結び通信網です。

※2 【同報系】住民連絡用の無線網です。【移動系・地域防災系】災害対策本部と防災機関、行政機関、生活機関との相互連絡に活用します。

*1 Communications satellites are used to link fire departments, prefectural and municipal disaster prevention agencies in a communications network.

*2 A "Simultaneous Broadcast" wireless public communications network. "Mobile and Regional Disaster Prevention Units" used for reciprocal communication between disaster response headquarters and disaster prevention agencies, administrative agencies and lifestyle agencies.

災通信ネットワーク

な地域づくりを推進

for regional areas

the drive for safer, more secure regional development

消防防災関係無線のデジタル化

Digitalization of fire and disaster prevention wireless systems

近年、テレビ放送や携帯電話をはじめ、無線通信分野ではデジタル化が進められています。消防防災分野の無線通信についても、デジタル化により、プライバシー保護のための秘匿性の確保、多チャンネル化・双方向化による情報収集・伝達の効率化、音声のみならず文字・画像等のデータによる住民への情報提供方法の多様化等が実現できます。

消防庁では、国民がより安心・安全に暮らせるように、消防防災関係無線について、従来のアナログ方式からデジタル方式へ移行するための施策を講じています。

Television broadcasts and cell phones, as well as wireless communications, are becoming digitized in recent years. Digitalization of wireless communications within the fire and disaster prevention field has improved confidentiality for protecting privacy, allows more efficient collection and transmission of information through the use of multiple channels and interactive communications, and text and video data can also be used in addition to voice communications. This results in a much more diverse way of providing information to residents.

To ensure that the public can live more safely and more securely, the FDMA is implementing measures to make the shift from conventional analog transmission to digital transmission for fire and disaster prevention wireless systems.

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