AUTOMATED CITY ALERTING SYSTEM

TERRITORIAL AUTOMATED SYSTEM OF CENTRALIZED ALERTING

Control of the system is operated from a control panel of the alerting system

THE CONTROL PANEL OF THE CITY ALERTING SYSTEM

- Alert of responsible officials through mobile phones;
- Targeted activation of ultimate alerting devices with the help of radio channels of existing VHF broadcasting stations (FM-band);
- Activation of ultimate alerting devices using a public telecommunication network, including cloud computing technologies;
- Activation of all devices located in the area of radio reception and the digital communication channel in 2 seconds;
- Work from a backup power source in alert mode.

The use of several channels of information delivery makes it possible to maximize the effectiveness of alerting the public about emergencies of man-made, natural, social, terrorist, and military characters.

FACILITIES OF INCREASED DANGER

Use of loudspeaker systems of the facility to alert employees and adjacent territories;

Use of the information system through mobile phones to increase the overall speed of informing.

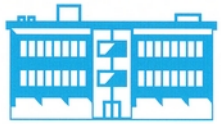
Automated System for Early Detection of Emergencies and Alerting

The system of the loud alert

Information system through mobile phones

Employees of the enterprise

Adjoining territory



ALERT SYSTEMS OF FACILITIES

Informing employees, visitors and adjacent territories.

City Alert System Control Station

The alert system of the facilities (shopping and entertainment facilities, etc.)

Employees, visitors and adjoining areas

TELECOMMUNICATION NETWORK OF GENERAL USE

THE FOLLOWING RESULTS WILL BE ACHIEVED BY CONNECTION TO A CONTROL PANEL OF THE CITY ALERTING SYSTEM:

-Significant budget saving for the implementation of the alerting system;

- Automatic determination of zones of possible influence of dangerous factors that occurred during an accident;

- Prompt city leadership informing about emergencies at facilities of increased dangerous;

- Automatic selection of emergency response scenario for city residents alert;

- Involvement of local and facilities` alert systems during activation of the general city alerting system.

Increasing of the alert area by integration local facilities-based alerting systems into the city system.

The control of alert systems of facilities of increase dangerous can be carried out by dedicated digital communication channels, or public telecommunication networks, including GSM standard or dedicated digital communication channels.

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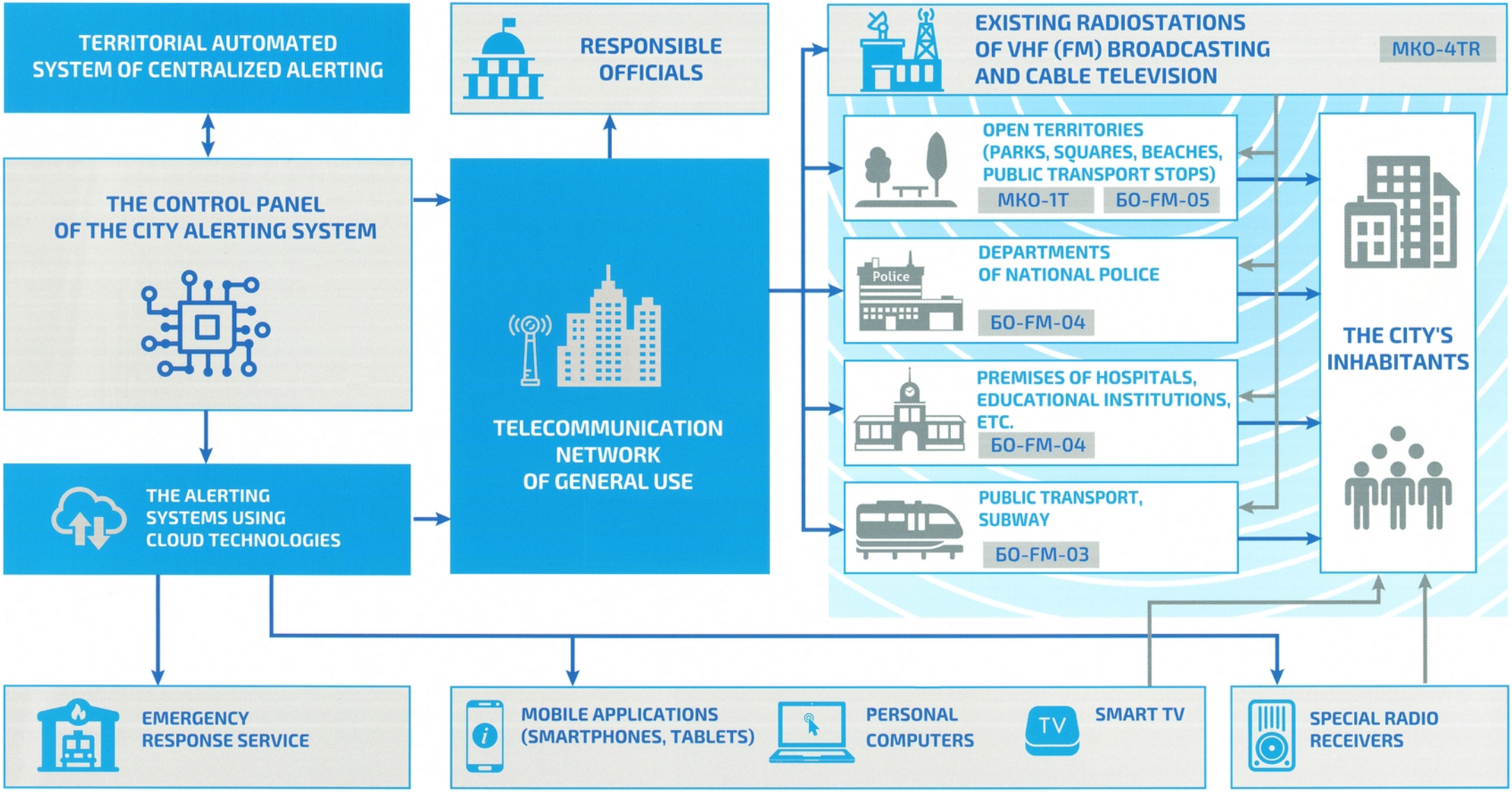
AUTOMATED CITY ALERTING SYSTEM

TELECOMMUNICATION NETWORK OF GENERAL USE



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AUTOMATED CITY ALERTING SYSTEM

THE ULTIMATE ALERTING DEVICES

BROADCASTING NETWORK CONTROL DEVICES ON THE BASIS OF THE ALERTING CONTROL MODULE MKO-4TR

It is used for the transmission of urgent messages via the media and commands control of ultimate alerting devices.

THE SIGNAL-LOUDSPEAKER DEVICE WITH AUTONOMOUS POWER SUPPLY FROM THE SOLAR BATTERY

It provides alerting in open areas with the broadcast of the "Attention to all" signal and informational speech messages via external loudspeakers.

Such distribution of acoustic signals allows not to interfere with the perception of information in an emergency.

Auto diagnostics of device.

SPECIALIZED RECEIVERS FOR ESSENTIAL BROADCASTING

Provides indoors alerting with the broadcast of informational speech messages through the loudspeaker.

Having command receive, it switches on to full volume regardless of the user's setting. It has an indication of missed messages.

SIGNAL-LOUDSPEAKER DEVICE FOR INDOOR ALERTING

It is designed to indoor alerting through the built-in speaker of informational speech messages received through communication channels from the control panel of the alerting system.

The device provides transmission to the control panel of the alerting system the confirmation of the fact of listening to an information message. It has an indication of missed messages. There is a possibility to call the emergency response service.

Auto diagnostics of device.

TECHNICAL CHARACTERISTICS OF ACOUSTIC SIGNAL

Stereo signal, nominal effective value of the linear output voltage 0,775 V with the possibility of regulation in the range from 0,2 to 3 V	In the range from 400 W to 1200 W depending on the number of installed low-frequency amplifiers (LFA). Operating frequency 80-1800 Hz	3 W, Operating frequency 100 Hz-1200 Hz	5 W, Operating frequency 150 Hz-12000 Hz

CHANNELS OF CONTROL OF THE SIGNAL-LOUDSPEAKER DEVICE:

1. Signal of the VHF (FM) in the range from 50 to 115 MHz 2. Fixed telephone channel 3. The mobile communication channel of the GSM standard, frequency 900/1800 MHz 4. Ethernet digital channel, 100 MB/s	1. VHF (65-108 kHz) FM broadcasting; 2. Digital communication channel with a speed of 128 Kbit/s (wired and WIFI); 3. Telecommunication network of general use.	1. VHF (65-108 kHz) FM broadcasting;	1. VHF (65-108 kHz) FM broadcasting; 2. Telecommunication network of general use, GSM standard

POWER SUPPLY

From the 220 V network	From stand-alone sources - solar and rechargeable batteries.	From the 220 V network	From the 220 V network and rechargeable batteries.

Duplication of control and delivery channels of information messages significantly increases the reliability of the system`s work. It also allows to operatively switch to one of the backup channels in automatic mode in the absence of a connection between the alert control panel and the signal-loudspeaker device on the main communication channel.

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