THE DEDICATED RADIO NETWORK IS READY TO AUTOMATICALLY RECEIVE EMERGENCY SIGNALS FROM SCHOOLS AND HOSPITALS IN EVERY RUSSIAN CITY…»

THE SYSTEM IS DEPLOYED IN
900 (81%) cities
70 000 (58%) buildings
**STRELETZ-MONITORING** is
MULTIPLEX SYSTEM FOR EMERGENCY MONITORING, RESCUING AND MASS NOTIFICATION

**Civil unrest**  
**Fire**  
**Gas leak**  
**Occupational accidents**

1. **Site station** «Streletz-Monitoring»
2. **Control unit for mass notification** «BSMS-VT»
3. **Notification multiplexor for connecting to the door phone system**

**APARTMENT BUILDING**
1. 1. Site station «Streletz-Monitoring»
2. Control unit for mass notification «BSMS-VT»
3. Loud speaker

STREET
1. Site station «Streletz-Monitoring»
2. Control unit for mass notification «BSMS-VT»
3. Loud speaker
4. Ticker
5. Video display

**SCHOOL**
1. Site station «Streletz-Monitoring»
2. Control unit for mass notification «BSMS-VT»
3. Ticker
4. Loud speaker

**RAILWAY STATION**
1. Site station «Streletz-Monitoring»
2. Control unit for mass notification «BSMS-VT»
3. Ticker
4. The «Oxion» video display

**Gas leak** — **Central monitoring station** — **Fire** — **Civil unrest**

**1-MINUTE RESPONSE**

- **SMS**
- **Phone**
- **Door phone**
- **Loud speaker**
- **Ticker**
- **Video display**

**THE RESULTS FROM IMPLEMENTING THE SYSTEM:**

A significant decrease in the number of fire victims: firefighters can respond in one minute after the fire outbreak.

**People can be notified using the emergency radio channel:**
- buildings (door speakers)
- hospital patients (bracelets)
- apartments (door phone)

**Firefighter’s safety:** the system can locate and notify a rescuer who is in a life-threatening situation.

Broadcast of emergency notification signals is done via a reliable radio channel, which does not depend on other mass communication equipment.

Mass communication systems can fail during big holidays, mass panic or terror attacks.

**RADIO COMMUNICATION WORKS**
EVEN DURING TERROR ATTACKS, MASS PANIC OR PARTIAL DESTRUCTION OF THE CITY

SMOKE INHALATION IS THE CAUSE OF 80% OF FIRE CASUALTIES
The head of the ministry of emergency situations Sergey Shoygu showcased the wireless fire alarm system to the prime minister of Russia Vladimir Putin and asked to support its mass development. «We’ll do that. Considering the tragic incidents in our country over the past few months and years, this innovation will be in demand»— Putin replied.

Sergey Shoygu: «We plan to install this alarm system in all medical and educational institutions all over the country. The system will allow us to reduce the respond time of a fire crew by 8 times, as well as decrease the number of false alarms by 1000 times».

The solution is to:

*Report fires automatically without the need of a phone call*

The conclusion:
The large number of fire victims is caused by

*Delayed call to the emergency service*
The head of the supervision department of MCHS Deshevih Yury
October 16, 2013
«...Technological innovations need to be implemented; both regional and federal regulations have to be corrected; specific problems mentioned by the ministers and the general prosecutor must be resolved as soon as possible; administrative and criminal trials need to come to a resolution. I will keep these issues under my control».

The research institution of fire safety won an open contest for developing a prototype of an automatic system intended for monitoring, processing, and sending data about the physical properties of a fire, as well as risks and dangers of massive fires occurring in complicated buildings and premises with high number of occupants.

A new cost effective system was developed that can be used to automatically report a fire via a radio signal in cities with a high building density.

The government made corrections to the federal law №123 «Technical regulations for fire safety requirements», which include changes to the section №83, part 7 «Equipping the emergency monitoring system in all schools, hospitals, retirement homes and other public buildings». The president made a two-year postponement for the changes to take effect.

The prototype of the emergency monitoring system underwent complex government testing. During the experimentation, a set of essential technical requirements was established that must be applied to similar systems under a code name «Streletz-Monitoring».

A number of open contests were held to decide which companies are going to supply the equipment to the departments of the federal firefighting service.

The results of implementing «Streletz-Monitoring»

From 2009 to 2012

a decrease in the number of fires
by 7 times
(from 650 to 87)

a decrease in the number of casualties
by 14 times
(from 44 to 3)

AN EXTREMELY COMPLICATED TECHNICAL TASK WAS ACCOMPLISHED

The head of the ministry of emergency situations approved order №743, which states that the hardware and software complex «Streletz-Monitoring» is accepted to be equipped by the Russian ministry of emergency situations.

AN EXTREMELY COMPLICATED TECHNICAL TASK WAS ACCOMPLISHED

Ruling by the president of the Russian Federation
13/11/2009 №Pr-3021

During a government meeting dedicated to the results of a mass inspection of public buildings, president Medvedev stated: «...Technological innovations need to be implemented; both regional and federal regulations have to be corrected; specific problems mentioned by the ministers and the general prosecutor must be resolved as soon as possible; administrative and criminal trials need to come to a resolution. I will keep these issues under my control». 

THE HISTORY OF EMERGENCY MONITORING IN RUSSIA

2009

The research institution of fire safety won an open contest for developing a prototype of an automatic system intended for monitoring, processing, and sending data about the physical properties of a fire, as well as risks and dangers of massive fires occurring in complicated buildings and premises with high number of occupants.

2010

The head of ministry of emergency situations approved order №743, which states that the hardware and software complex «Streletz-Monitoring» is accepted to be equipped by the Russian ministry of emergency situations.

2011

A number of open contests were held to decide which companies are going to supply the equipment to the departments of the federal firefighting service.

2012

The government made corrections to the federal law №123 «Technical regulations for fire safety requirements», which include changes to the section №83, part 7 «Equipping the emergency monitoring system in all schools, hospitals, retirement homes and other public buildings». The president made a two-year postponement for the changes to take effect.

2013

A new cost effective system was developed that can be used to automatically report a fire via a radio signal in cities with a high building density.

PUBLIC BUILDINGS NEED TO BE EQUIPPED WITH FIRE ALARM SYSTEMS THAT CAN AUTOMATICALLY TRANSMIT SIGNALS TO THE FIRE DEPARTMENT. THAT IS BECAUSE THE TRAGIC EXPERIENCE OF THESE FIRES DEMONSTRATES THAT PEOPLE CAN GET CONFUSED OR DISORIENTED AT THE BEGINNING, AND DON’T ALWAYS REPORT THE FIRE IN TIME». 
FEEDBACK ON THE MONITORING SYSTEM

**MOSCOW:**
7 000 (98%) schools and hospitals are equipped with the emergency monitoring system

«No need to call the emergency number. If a fire starts somewhere, we will receive that signal in just a few minutes. This allows us to save a lot of time. Floor plans are loaded into the equipment in advance. While the fire brigade is on its way, they already know which floor and room is on fire».  

Sergey Shoygu
Minister of Emergency Situations from 1994 to 2012:

«The existing methods cannot offer the adequate level of safety that needs to be provided in the modern world. We need to switch over to more modern solutions like «Streletz-Monitoring». Our goal is to evaluate the expenses and create a schedule of installation works in all municipal institutions and enterprises before January 1, 2014».  

Krasnoyarsk krai
Victor Shevchenko, deputy mayor of Krasnoyarsk:

«The main requirement: the signal has to be transmitted to the fire department automatically, without human intervention. There was one case on a paint factory, when the security guard checked the territory several times and decided that everything is normal. In result, they only found out about the fire after it’s been spreading for 30 minutes».  

Perm Krai
Oleg Popov, the head of MCHS headquarters in Perm Krai:

«The system proved to be great. It works in all middle schools. It works in all preschools as well».  

Vladimir city
Sergey Sakharov, the mayor of the city:

Firefighters are sent out to a school or a hospital IN ONE MINUTE

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