



Lesnoy Dozor

defends forests from fire



by LLC "DSC"

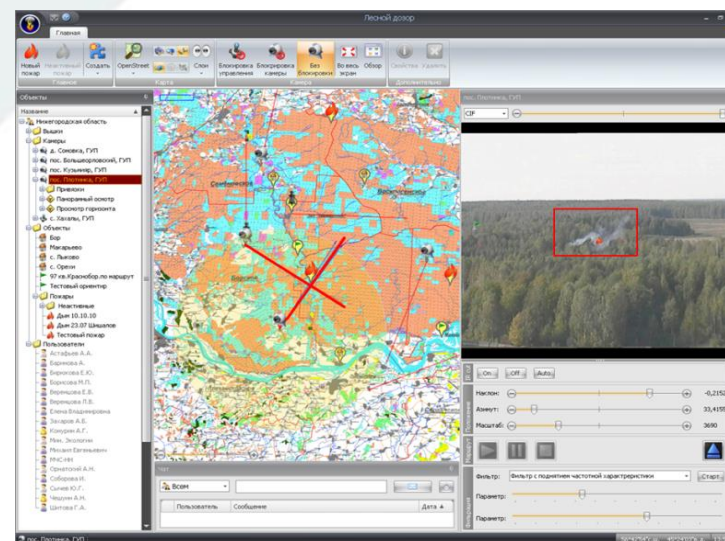
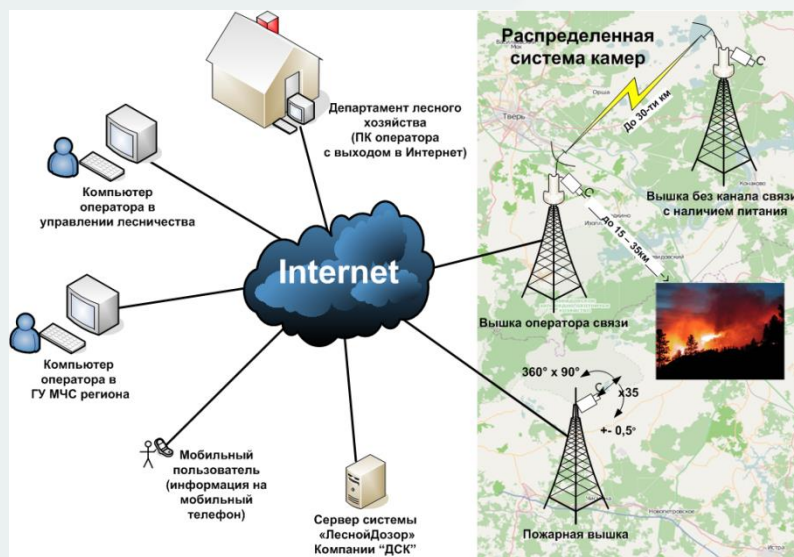
Nizhniy Novgorod, Russian Federation

The system “Lesnoy Dozor”



Лесной Дозор

- Distributed system of IP-video surveillance
- Optimal modelling of the system on existing infrastructure
- Unique software features and technologies: SaaS, Vsaas, GIS, CCC, Computer Vision





Лесной Дозор

Unique key features

- Ability to integrate into existing video surveillance systems and significantly increase their efficiency
 - No need to implement the system from scratch. The existing system can be updated
- Automatization of monitoring
 - «Automatically» is way more reliable than «manually»
- Plotting coordinates
- Organization of dispatch centers
 - Access to the system from anywhere
- Equipment placement
 - Calculation of system coverage to model characteristics
- Integration with other information systems

Comparison with alternative systems for forest monitoring



Лесной Дозор

Parameter	«Lesnoy Dozor»	Other systems
<i>Optimization of communication operators` infrastructure, communication channels requirements</i>	512 Kbit/s - 1 Mbit/s «+++»	4 Mbit/s «-»
<i>Costs of running the system</i>	«+»	«-»
<i>Automatization of fire detection, (compared to other systems in Russia)</i>	«+»	«-»
<i>Software</i>	Develops by scientific organization, Skolkovo resident, patent holders «+»	Based on third-party technologies «-»
<i>Education of users and staff</i>	Online education on schedule and by demand, free (for Russia) telephone line «8-800» «+++»	Once, when system is launched «+/-»

For regions that already have cameras we offer:



Лесной Дозор

- Real automatization of fires
- Real methods of calculating fire coordinates
- Real cost-saving, as infrastructure and human resources are use effectively
- Technical support of users by free (for Russia) phone line 8-800-555-18-59
- Education of users face-to-face and online
- Подготовка и предоставление научно-технического отчета для дальнейшего оптимального развития системы
- Optimal coverage calculation for further development of the system



Лесной Дозор

The usage of the system "Lesnoy Dozor" allows to improve key performance indicators

Estimation of potential increase of efficiency:

- A reduction in the specific area of vegetated land lost from forest fires - up to 50% of current
- The decrease in the ratio of average burned area to the average area of fires over the previous 5 years – 60% from current
- The decrease in the proportion of large fires by 30% from current
- The increase in the proportion of fires eliminated in the first day – 35% from current

About Us: the History & the Team

Limited Liability Company **DSC** was founded in the city of Nizhny Novgorod in 2008. The company is a resident of Skolkovo Innovation Centre and IT-park Ankudinovka. The team develop, sell and implement the early warning system for forest fires **Lesnoy Dozor** ("Forest/Wood Watch" – transl.).



Ivan Shishalov – Managing Director and the architect of the project. Graduated Lobachevsky State University of Nizhny Novgorod with honors. Gained professional experience in *Intel*, *Wireless Net Lab* and *Video City*. Underwent a training in Intel Labs Berkeley. A patent holder for 4 inventions and an author of more than 20 scientific publications.



Andrey Filimonov – Director of Software Engineering. PhD in the field of applied mathematics. A scientific associate at Lobachevsky National Research University of Nizhny Novgorod. Worked in international companies *Teleca* and *Telma* more than 8 years as Developer, SW engineer and Senior Project Manager



Yaroslav Solovyov – Technical Director. Graduated Lobachevsky State University of Nizhny Novgorod (Radiophysical Department). Obtained experience in *Encotes*, *Video City* and *Tele-M* as Developer and then as Project Manager.



Dmitry Bulgatov – Commercial Director. Has working experience on managing positions in companies: *PepsiCo*, *Mobile TeleSystems*, *A'Lemar*, *NCC*, *SMARTS*. More than 8 years in telecommunication business.



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Contact information

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