

## ZONeSEC event

### Widezone Surveillance for Critical Infrastructure Protection

September 27<sup>th</sup> 2018

co-located with CRITIS 2018 conference at Vytauto Didžiojo universitetas (in English, Vytautas Magnus University), Kaunas (Lithuania)

#### **Introduction**

Widezones around critical infrastructures (e.g. gas or oil pipelines, highways, electricity networks, water supply networks) are defined as an area or stretch of land having a particular characteristic, purpose, or use, or is subject to particular restrictions. A failure or threat materialized at one critical point along the Widezone can compromise the integrity of the critical infrastructures. The EU lacks affordable solutions for the surveillance of widezones, but there are also other limitations, related to the complexity and diversity of employed systems; their efficiency, robustness and resilience; their compliance with EU policies and societal values, in particular data protection and privacy; and the difficulty to coordinate surveillance activities in transboundary settings.

Conventional surveillance systems that mainly consist of a network of visual sensors and one or more processing and storage nodes, are not directly applicable in wide area zones, where a larger redundant number of sensors and cameras is necessary. More recently, complex interconnected sensor systems are deployed in wide geographic areas, which communicate collected data to storage servers with supporting software services for aggregation, processing, decision making or alarms. ZONeSEC project (<http://www.zonsec.eu/>) is a four year demonstration project finishing in November 2018 and the final result is a system-of-systems (with integration of new and legacy sensors) for visualizing the critical infrastructure and the sensors deployed for widezone surveillance, detecting illicit activities and alerting operators and other features. ZONeSEC final event brings opportunity for sharing the results of four-year project, as well as hearing about similar initiatives, analyzing joint possibilities for collaboration, and discussing the future of widezone surveillance for critical infrastructure protection, in light of the forthcoming challenges and technology trends.

#### **Registration and venue**

Registration is free and can be done by sending e-mail to one of the organizers

- the event organizer (Aljosa Pasic : [aljosa.pasic@atos.net](mailto:aljosa.pasic@atos.net)),
- the ZONeSEC project coordinator (Dimitris Petrantonakis : [dpetr@exodussa.com](mailto:dpetr@exodussa.com)), or
- the ZONeSEC technical manager (Jose Ramon Martinez : [jose.martinezs@atos.net](mailto:jose.martinezs@atos.net)).

## Agenda

9.00 – 9.10 Opening and logistics

### 9.10-9.40 Invited keynote

### 9.40-11.00 Session 1: EU projects and initiatives

9.40-10.00 Dimitris Petrontonakis (EXODUS) – ZONESEC project

10.00-10.20 Neeraj Suri (Technical University Darmstadt) – CIPSEC project

10.20-10.40 TBC – Project to be confirmed (eg ALADDIN – DXT coordinated project, STOP-IT project with participation of ATOS , ICCS - <https://stop-it-project.eu/> )

### 10.40- 11.00 Coffee break

### 11.00 – 13.00 Session 2: Technology challenges

11.00- 11.20 Jose Ramon Martinez (ATOS): ZONESEC architecture and integration: challenges and lessons learned

11.20-11.40 Joseba Izaguirre (TEKNIKER): Lowering the total cost per km of surveillance: Security Capillaries/Clusters and Plug&Play&Forget Wireless Sensors

11.40-12.00 Nicolas Museaux (Thales) – Surveillance, detection and Alerts Information Management - Event processing

12.00-12.20 Guillaume Inglese (Diginext): CRIMSON COP - operational supervision system applied to ZONESEC

12.20-12.40 Nikolaos Koutras / Michalis Skitsas (ADITESS): Technical evolutions of the UAV systems in the Surveillance of wide zones.

12.40-13.00 Evita Agrafioti (GAP) and Dimitris Petrontonakis (Exodus) - European Widezones Surveillance Reference Toolkit

### 13.00 – 14.00 Lunch

### 14.00 – 15.20 Session3: Market and standardization

14.00-14.20 Kalman Kontz (Aquaserv) and Natalia Kalfa (ATTD) – Use cases for adoption of widezones surveillance for critical infrastructure protection

14.20-14.40 Aljosa Pasic (ATOS): Adoption of surveillance and detection technologies by critical infrastructure operators

14.40-15.00 Dimitris Drakoulis (Telesto) : The CEN WS process – Defining a pre-normative standard on the interoperability of security systems for the surveillance of widezones

15.00-15.20 Prof. Lilian Mitrou (Professor of Privacy and Information Law , University of the Aegean), Ethics in security research : from the ZONESEC case

### **15.20 – 15.50 Coffee break**

15.50 – 16.50 Panel: European perspective on surveillance of areas around critical infrastructures

### **16.50 – 17.00 Closing**

### **Additional data about venue**

#### **CONFERENCE PLACE**

Vytauto Didžiojo universitetas (Vytautas Magnus University)  
S. Daukanto g. 28 (Small Hall, 2nd floor), [goo.gl/IUk03p](http://goo.gl/IUk03p)  
Kaunas, Lithuania

#### **Conference local Co-Chairs:**

Inga Žutautaitė (Vytautas Magnus University, Lithuania)  
Ričardas Krikštolaitis (Vytautas Magnus University, Lithuania)  
Linas Martišauskas (Vytautas Magnus University, Lithuania)

#### **Vytautas Magnus University – VMU**

Vytautas Magnus University was established in 1922 and re-established in 1989 in Kaunas, Lithuania. It is one of the most liberal and modern universities in Lithuania and recognized worldwide – ranked among top 800 universities by QS World University Rankings and U-Multirank Ranking. At present, there are 10 faculties at VMU: Arts, Catholic Theology, Economics and Management, Humanities, Informatics, Law, Natural Sciences, Political Sciences and Diplomacy, Social Sciences, Music Academy, over 7,500 students of 50 nationalities and over 480 members of academic staff.

Vytautas Magnus University is the city's hub of academic, scientific and cultural activities, distinguished by its liberal education system (Artes Liberales), humanist spirit, cultivation of creativity and opportunities for wider, more universal enlightenment. [www.vdu.lt/en/](http://www.vdu.lt/en/)

### **VENUE**

#### **Airport information**

- **Kaunas airport** – <https://www.kaunas-airport.lt/index.php?lang=en>

Direct flights (airlines: Ryanair and Wizz Air only)

- **Vilnius airport** – <http://www.vilnius-airport.lt/en/>

Direct flights ([list of airlines](#))

#### **Service of minibuses on route Vilnius airport <-> Kaunas**

Free of charge for CRITIS 2018 participants.

#### **Timetables and tickets for Vilnius <-> Kaunas travel**

**By Train** – <https://www.traukiniobilietas.lt/portal/en>

**Airport – Vilnius (Vilnius railway station) – Kaunas (with 1 change in Vilnius railway station)**

There is a special train “*Airport-Vilnius*” running regularly from Airport. The train shuttles 16 times a day (service is available from 6 a.m. till 10 p.m.), it takes 7 minutes to arrive to the railway station from the airport. The ticket costs EUR 0.70 (cash only). It can be purchased on-line, in the train and at the railway station. Next to the airport passenger terminal, there is a railway stop, stairs and an elevator for passengers as well as lighting and passenger safety surveillance camera. There is a footway leading from the railway stop to the airport terminal for passengers; the footway has an installed gallery (it is illuminated during the dark time of the day).

*Vilnius-Kaunas* (Kaunas railway station): tickets for train “*Vilnius-Kaunas*” can be purchased on-line, in the train (additional costs of 1.5€, cash only) and at the railway station.

**By Bus** – <http://www.autobusubilietai.lt/index.php?cl=start&lang=0>

**Airport – Vilnius (Vilnius bus station) – Kaunas (with 1 change in Vilnius bus station)**

*Airport-Vilnius* (Vilnius Bus Station): the company *Toks* transports passengers from Vilnius airport to the bus station and back by minibuses. Single ticket costs EUR 1 (cash only). Bus stop is installed next to the airport terminal, near arrival hall C ([timetable](#))

*Airport-Vilnius* (Vilnius bus station): Public buses run from Vilnius airport to Vilnius bus station: No. 1 and No. 2 (final stop is Vilnius bus station “*Stotis*”), No. 88.

*Vilnius-Kaunas* (Kaunas bus station): tickets for bus “*Vilnius-Kaunas*” can be purchased on-line, in the bus (cash only) and at the bus station.

**By Taxi-cab**

Vilnius Taxi: +370 52 444444, +370 52 611111, +370 52 310310

Kaunas Taxi: +370 682 02020, +370 682 66664, +370 650 33554

**Car rental** – <http://www.vilnius-airport.lt/en/planning-a-trip/car-rental/>

## **ACCOMMODATION**

The list of recommended hotels is given at CRITIS 2018 website:

<http://www.lei.lt/critis2018/venue.html>