



FIWARE IN ACTION

2025 EXCELLCITY PRACTICAL SEMINAR

23rd – 24th April 2025

A G E N D A

WIRED FOR TOMORROW: IOT & FIWARE CONNECTIVITY

23rd – 24th April 2025

University of Library Studies and Information Technologies

Sofia, Bulgaria

Partners:



23rd April 2025 (Wednesday)

211 Hall

University of Library Studies and Information Technologies (ULSIT)

Address: 69A, Shipchenski Prohod Blvd., Sofia, Bulgaria

Moderators:

Chief Assist. Prof. Lyubomir Gotsev, PhD & Assist. Prof. Genadiy Gospodinov

09:00 – 09:15	Registration
09:15 – 09:30	Official Opening of the Seminar <i>Greetings from the Official Academic Authorities of ULSIT</i> <ul style="list-style-type: none">• Prof. Georgi Dimitrov, PhD - Dean of the Faculty of Information Sciences• Prof. Eugenia Kovatcheva, PhD – Manager of ExcellCity Project. <i>Presenting the Guest Lecturers</i> <ul style="list-style-type: none">• Jose Luis Benitez Moreno - FIWARE• Vincent Maurice Demortier - FIWARE• Illari Mikkonen – FIWARE <i>Presenting the Objectives & Agenda of the Seminar “FIWARE IN ACTION”</i> <ul style="list-style-type: none">• Chief Assist. Prof. Lyubomir Gotsev• Prof. Eugenia Kovatcheva – Manager of ExcellCity Project
09:30 – 11:00	Unlocking FIWARE: Platform Access, Service Deployment & Node-Red Playground <i>Accessing the FIWARE-powered platform, deploying services, and exploring Node-Red for sensor connectivity.</i> Jose Benitez Ilari Mikkonen
11:00 – 11:15	Coffee Break
11:15 – 12:30	From Research to Reality: Connecting IoT Sensors <i>Discovering, configuring, and integrating sensors into an IoT platform with IoT Agent and Orion logs.</i> Ilari Mikkonen Jose Benitez
12:30 – 13:30	Lunch
13:30 – 15:00	Scaling IoT: Multi-Sensor Integration for Smarter Systems <i>Accelerating sensor deployment by integrating multiple sensors and ensuring seamless compatibility</i> Jose Benitez Ilari Mikkonen
15:00 – 15:15	Coffee Break
15:15 – 16:30	Data-Driven IoT: Real-Time Visualization & Insights <i>Configuring data visualization tools like Grafana to interpret sensor data effectively.</i> Ilari Mikkonen Jose Benitez

24th April 2025 (Thursday)

211 Hall

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Address: 69A, Shipchenski Prohod Blvd., Sofia, Bulgaria

Moderators:

Assoc. Prof. Denis Chikurtev, PhD & Chief Assist. Prof. Lyubomir Gotsev, PhD

09:00 – 09:15	Registration	
09:15 – 10:45	The Future of Robotics: FIWARE, Robot Operating System 2 (ROS2) & Automation <i>Theoretical deep dive into robotics, automation, and FIWARE's role in Robot Operating System 2 (ROS2).</i>	Vincent Demortier
10:45 – 11:00	Coffee Break	
11:00 – 12:30	Minimal Interoperability Mechanisms – MIMs – explained.	Vincent Demortier
12:30 – 13:30	Lunch Time	
13:30 – 14:45	Beyond Basics: Expanding IoT Capabilities with New Sensors <i>Exploring additional sensors, visualization techniques, and advanced IoT configurations.</i>	Jose Benitez Ilari Mikkonen
14:45 – 15:00	Coffee Break	
15:00 – 16:15	Next-Gen IoT: Protocols, Interoperability & Edge Computing <i>Integrating Wi-Fi, Zigbee, FIWARE Catalogue extras, and ETL for seamless IoT connectivity.</i>	Ilari Mikkonen Vincent Demortier Jose Benitez
16:15 – 16:30	Closing the Seminar	