



SESAR PJ05 Remote Tower for Multiple Airports

Solution 2 V3

Passive Shadow Validation Open Day

29 April 2019 – HungaroControl (Budapest)

Dear Partners,

HungaroControl invites you to attend the open day of our PJ05 Solution 2 passive shadow validation we carried out in collaboration with Frequentis.

The current one is our second V3 level validation based on Frequentis systems. The first one took place in DLR's simulator in Braunschweig, Germany in November 2018 with the simulated environment of three Hungarian airports (Budapest Airport RWY1, Pápa Military Airbase and Debrecen Airport) where we looked at how a single ATCO can control three airports at a time in a Multi-Remote Tower Module (MRTM).

The passive shadow validation takes the MRTM concept one step further. We installed camera systems at the three aerodromes involved in the project that provide live video streams that are displayed on a monitor wall. Apart from the video stream, ATCOs are supported by live radar information, can listen to live radio communication and get relevant flight information from Frequentis's system that relies on live AFTN data.

The open day will include presentations and a live demonstration, followed by a panel discussion with project participants where you will have a chance to ask questions about the validation.

Some details about the event:

Date: [29 April 2019 \(10.30 – 15.00; arrival from 9.00\)](#)

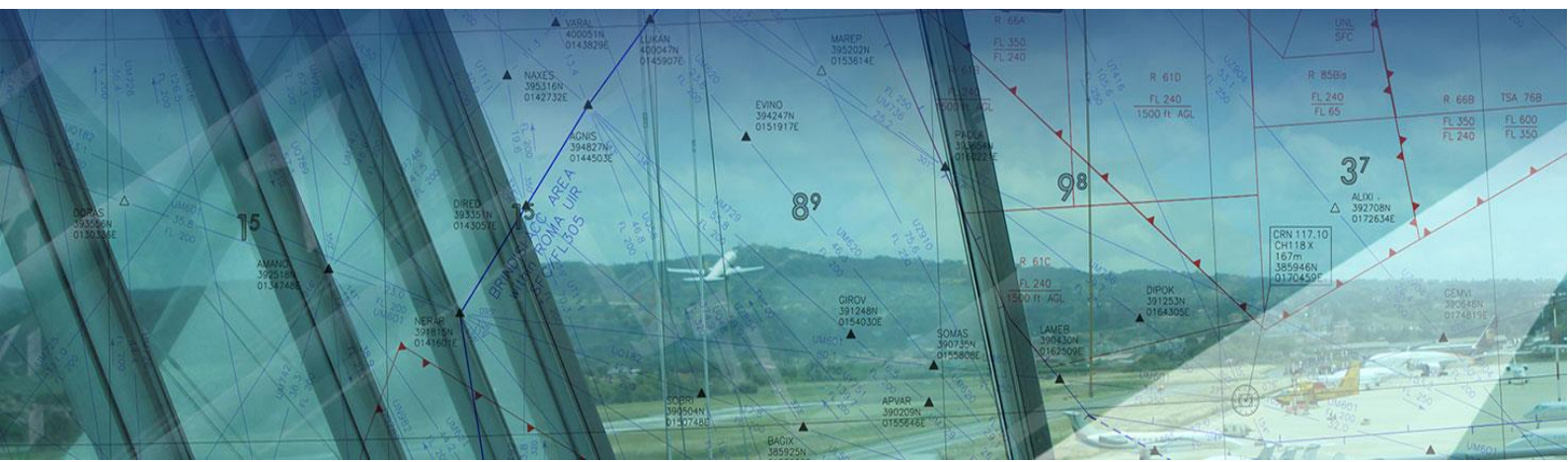
Location: [HungaroControl \(33-35 Igló u., H-1185 Budapest, Hungary\)](#)

Registration: Please [register here](#) before 23 April 2019.

(Please note that the number of attendees we can accommodate is limited.)

For further information, please contact Péter Kántor, PJ05 Project Manager at peter.kantor@hungarocontrol.hu.

We are looking forward to seeing you!



Agenda

Time	Topic		Presenter
9.00 – 10.30	Arrival and registration		
10.30 – 10.45	Welcome		Gyula Hangyál (ATM Director, HC) Dóra Balló (Program Manager, HC)
10.45 – 12.00	SESAR Multi-remote Tower concept (PJ05)		Jörn Jakobi (Project Coordinator, DLR)
	HungaroControl's role in the project from an ATCO's perspective		Csaba Gergely (Senior ATM Advisor, HC)
	Military participation in the project		Attila Paulov (Major, Ministry of Defence, Hungary)
	Frequentis technical solution for the passive shadow validation		Regina Bruzek (Product Sales, Frequentis)
	V3 validation - Human Factors		Fanni Kling (Human Factors Expert, HC)
	Group 1	Group 2	
12.00 – 12.45	Live demonstration	Lunch + Virtual airport tour	
12.45 – 13.30	Lunch + Virtual airport tour	Live demonstration	
13.30 – 15.00	Multi-remote Tower operational and technical environment Panel discussions		Jörn Jakobi Attila Paulov Anna Petrovai (Head of Aerodrome Control Unit) Viktor Zsóka (Head of Aerodrome ATM Systems Development) Fanni Kling Regina Bruzek Csaba Gergely
15.00	Wrap up and Closure		Dóra Balló