

## Workshop : Migrating from UltraScale+ FPGA designs to Versal SoC (French Language)

### GENERAL OBJECTIVE OF THE TRAINING

Discover how to quickly migrate your UltraScale+ FPGA designs to the new Versal SoC platforms

### COURSE DURATION



1 day - 7 hours

### CONCERNED PUBLIC

- Technicians and Engineers in Digital Electronics
- All our training courses are given at a distance and are accessible to people with reduced mobility.
- People with disabilities may have special training needs. Our partner AGEFIPH accompanies us to implement the necessary adaptations related to your disability. Don't hesitate to discuss your requirements.



### PREREQUISITES

- Any Xilinx device architecture class
- Familiarity with the Vivado® Design Suite

### NOTES

- Release date: 18/11/2025

### TEACHING STAFF

- **William Duluc, Electronics and Telecoms Engineer, AMD Expert since 2009 and AMD Trainer since 2017 :**
  - Expert AMD FPGA - Language VHDL/Verilog - RTL Design
  - Expert AMD SoC & MPSoC - Language C/C++ - System Design
  - Expert DSP & AMD RFSoc - HLS - Matlab - Design DSP RF
  - Expert AMD Versal - AI Engines - Heterogenous System Architect

## TARGET OBJECTIVES AND SKILLS

- After completing this workshop, you will have the necessary skills to:
  - Identify the different functional blocks in the AMD Versal™ adaptive SoC
  - Describe the different tool flows for the Versal adaptive SoC
  - Implement a basic Versal NoC design
  - Apply design migration guidelines for PL-only and PS+PL designs

## COURSE CONTENT

### DAY 1

- Architecture Overview for Existing Users {Lecture}
- System Design Migration Approach {Lecture}

- Design Tool Flow {Lecture, Demo}
- NoC Introduction and Concepts {Lecture, Demo}
- Programmable Logic Design Migration Considerations {Lecture, Demo}
- Processing System Comparison {Lecture}

## TEACHING METHODS

- **Inter-company online training :**
  - Fast Internet connection, webcam, headset
  - Presentation by Webex by Cisco



## RECOMMENDED COMPUTER HARDWARE

- **Inter-company online training :**
  - Recent computer OS Linux or Windows 64-bits
  - Fast Internet, webcam, headset
  - Software tool WebEx Cisco

## TECHNICAL, EDUCATIONAL, ADMINISTRATIVE AND FINANCIAL CONTACT

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