

Invitation to the ETSI ISG Augmented Reality Framework (ISG ARF) workshop – Paris, 23rd May 2018

The ETSI Industry Specification Group (ISG) ARF is organising an open workshop in Paris on 23rd May 2018 hosted by Institut Mines Telecom (46 Rue Barrault, 75013 Paris). The workshop will be followed by a face-to-face meeting of the ISG ARF restricted to participants whose organisation has signed the relevant ISG agreement.

Augmented Reality (AR) is the ability to mix in real-time, spatially registered digital content with the real world. The ETSI Industry Specification Group ARF was launched by ETSI on 30th November 2017 to define **a framework for the interoperability of AR applications and services**. 14 members have now joined the initiative.

b<>com – Basinlogic - Deutsche Telekom – DIOTA - European Broadcasting Union (EBU) - Fraunhofer Institut fuer Integrierte Schaltungen (Fraunhofer IIS) - Fraunhofer Institute for Telecommunications, Heinrich Hertz Institute (Fraunhofer HHI) - Institut fuer Informatik, Universitat Gottingen - Institut Mines Telecom - Interdisciplinary Centre for Security, Reliability and Trust/University of Luxembourg - Orange - Robert Bosch GmbH - Schneider Electric Industries SAS - Siemens AG

AR technologies and applications will play an essential role in Industry 4.0, and the success of smart cities and smart homes. Indeed many domains are already seeing or will soon see the improvements and efficiency gains AR adoption will bring. The need for transparent and reliable interworking between different AR components is key to the successful roll-out of such services.

In this initial phase of work the ISG ARF is interested in **hearing from the industry about AR industrial use cases, obstacles encountered when deploying** (pilot) AR services and **requirements for interoperability**.

Scope: This Workshop will present the objective and workplan of the recently launched Industry Specification Group ARF on Augmented Reality and the initial result of the first survey on industrial use cases conducted by the group. It will aim to raise awareness of the new ISG, collect interoperability requirements from the industry and stimulate discussions during the presentation of the first draft of the interoperability framework the group is developing.

Who should attend? anyone considering joining the ISG ARF, anyone interested in discussing interoperability requirements for AR applications, ISG ARF delegates attending ARF meeting #3.

Presentations are invited from participants willing to share their experience of using AR applications and services for industrial use cases and in particular obstacles they may have encountered when trying to use technology from different providers and requirements identified for interoperability. The workshop is **free to attend** and will be conducted **in English**.

Registration: Please [register here](#) for F2F participation

Draft Programme

The programme will continue to evolve in the run up to the workshop.

Start time 10:00am, registration from 9:30am

- Welcome Note by Stéphane Bordas - Ministry for Economy
- ISG ARF objectives and workplan including an overview of the 3 initial work items - ETSI ISG ARF management team
- Results of the first survey on typical industrial use cases conducted by the ISG ARF by Nicole Leminous - b<>com
- TARGET - Training Augmented Reality Generalised Environment Toolkit by Aurel Machalek - Université du Luxembourg
- Augmented Reality applied to 3D injected moulding by Dominique and Antoine Vié - Boudin SAS

12:30pm Lunch provided on site with demos

The afternoon session will be split into 2 sessions. The first session will be dedicated to industrial projects/solutions, including presentation of use cases, obstacles to large-scale deployment, interoperability issues/requirements. This will be followed by a second session starting at 4pm which will consist of an in-depth review of the proposed reference architecture for the interoperability framework for AR applications.

Start time at 13:30

- Hardware devices for Augmented Reality content visualisation by Thomas Perpère - DIOTA
- AR in 5G by Mauricio Aracena - Ericsson
- Presentation of Industry 4.0 use cases by Jean-Luc Bessede - Schneider Electric
- Title TBC Presentation by Pierre Nowacki - DAQRI
- On the road to Augmented Reality: creating your next move by Didier Deschanel - Eurovia

End time 15:30

Networking break

Start time at 16:00 – in-depth review of the proposed reference architecture

- Benefits of an interoperable AR framework: how can a framework boost adoption of AR technologies, demonstration with concrete use cases.
- Framework overview including presentation of data plane, tracking and device interfaces.
- Open discussions on current architecture, any missing interface? Best way to represent components, data flows, relevant standards?

End Time: 18:00

Contacts:

- Technical aspect and presentation enquiry: Ms. Muriel Deschanel muriel.deschanel@b-com.com (ISG ARF chair) and Dr. Ralf Schäfer, ralf.schaefer@hhi.fraunhofer.de (ISG ARF vice-chair)
- Registration: Sylwia Korycinska, Sylwia.korycinska@etsi.org