

## **SAE Made Simple**

### **Web Based Training Duration:**

- app. 2 hours

### **Web Based Training Description:**

- This Web Based Training provides a fast track to the concepts and technology of the SAE discussions within 3GPP and their current state.
- The Web Based Training starts out with a top-level view at the potential requirements of an SAE and lists the shortcomings of the existing core network architectures. This part concludes with the interactive discussion of all not yet addressed issues of the core network architecture.
- In the following parts the Web Based Training unfolds the envisaged architecture of the evolved packet core and its interworking with all kinds of access network types, 3GPP-based, 3GPP2-based and IEEE-based.
- The Web Based Training concludes with the presentation of typical use cases like attachment and voice call setup

### **Some of your questions that will be answered during this Web Based Training:**

- Why is there a system architecture revolution necessary in the first place?
- Which improvements does SAE yield?
- Which issues have not yet been addressed by the ongoing SAE discussions?
- How does network access and attachment to the core network work for the different access network types?
- How does seamless mobility work between different access network types?
- How does the network control and provide QoS?
- How does voice call establishment work through the evolved packet core

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## **Table of Content:**

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### **Part 1: Assessment & Top Level View of the SAE**

- **Why is an Architecture Evolution necessary?**
  - **Important Requirements on SAE according to 3GPP**
  - **Mobility Options and Considerations**
  - **Architecture Overview**
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### **Part 2: Assessment & Top Level View of the SAE**

- **Network Access to the EPC in case of 3GPP-Access Networks**
  - **Network Access in case of Non-3GPP Access Networks**
  - **Voice Call Establishment**
  - **Macro Mobility / Inter-RAT Roaming**
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### **Part 3: Architectural Details of the EPS**

- **Network Layout and Important Identifiers**
- **Network Elements and their Functions within the EPC**
- **The Protocol Suite of the EPC**