

Second US/Europe AP5-9 Practitioners' Workshop - Agenda

The objective of this workshop is to determine the best practices in the development of simulation scenarios for validation activities (fast and real-time simulation).

Day 1 (11 March)	
Bus leaves The Duke Hotel	07:30
Introduction to the workshop and presentation of objectives	08:30 – 9:45
Topic 1: Coordination of Fast & Real Time Simulation Activities <ul style="list-style-type: none"> ○ Applications (When to Use Fast or Real Time Simulation) ○ Optimizing ○ Data Sharing between Fast & Real Time ○ Reuse & Standardization 	10:15 – 12:00
Lunch	12:00 - 13:00
Special Presentation: Validation Data Repository (VDR)*	13:00 – 13:30
Topic 2: Scenario Uses (Safety, Feasibility, Benefit Assessment, Human Performance) <ul style="list-style-type: none"> ○ Normal vs. Abnormal Situations (Collecting Data and Frequency) ○ Cognitive Walkthroughs* ○ Appropriate Baseline ○ Usability ○ Operational Test and Evaluation 	13:30 – 15:30
Break-out session (Special Interest Topics)	15:45 – 17:00
Bus leaves	17:15

Day 2 (12 March)	
Bus leaves The Duke Hotel	07:30
Topic 3: Scenario Considerations <ul style="list-style-type: none"> ○ Domain (Airspace, Surface, Oceanic) ○ Scope (Regional vs. Continental) ○ Multi-Modal/Inter-Modal* ○ Duration of Scenario ○ Fidelity (Level of Realism)* ○ Focal Points (Pilot, Controller, TMU/TMC, etc.) ○ New Operational Concepts (Decision Support Tools) ○ How to Validate ○ Scenario Development Software* 	08:30 – 10:15
Topic 4: Building Traffic <ul style="list-style-type: none"> ○ Scheduling <ul style="list-style-type: none"> ▪ Current ▪ Future (Forecasting) ▪ Range of Loading (High Traffic/Low Traffic) ○ Fleet Mix (Future Aircraft types) ○ Generic Traffic Samples ○ Proprietary Airline Data <ul style="list-style-type: none"> ▪ Business Cases (Hub & Spoke vs. Point to Point) ○ Aircraft Characteristics <ul style="list-style-type: none"> ▪ Performance ▪ Load Factor – Passenger ▪ Weight of aircraft ▪ Avionics ○ Validation 	10:30 – 12:15

Day 2 (12 March) continued	
Lunch	12:15 – 13:15
Topic 5: Scripting Specific Events <ul style="list-style-type: none"> ○ Procedures ○ Weather ○ Policy (ex. 100% X-Ray of Baggage) ○ Operational Errors/System Failures/Security Situations ○ Ground and Air ○ Genetic Algorithm – Conflict Creation 	13:15 – 15:15
Break-out session (Topics 1-5)	15:45 – 17:00
Bus leaves	17:15

Day 3 (13 March)	
Bus leaves The Duke Hotel	07:30
Topic 6: Analysis Considerations <ul style="list-style-type: none"> ○ FAA perturbations & Monte Carlo ○ Complexity, equivalence, perturbations ○ Measures/Metrics ties to scenarios (Safety, Efficiency, Capacity) 	08:30 – 10:00
Presentations by Break-out Groups	10:15 – 12:15
Lunch	12:15 – 13:15
Wrap-up	13:15 – 13:45
Optional Tour of ENAV	13:45 - 15:15
Bus leaves	15:30

* Special Interest Topics – Depending on interest, a special break out session will be formed to discuss these topics.