

Autonomy Studio Tool AST

A virtual studio for multi-domain complex operations
Nato MSG-184 Symposium

J. Habonneau, B. Quellec, M. Bauché, L. Marchal & F. Digne

jerome.habonneau@fr.thalesgroup.com

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AST functional architecture

For New Mission Autonomy Capabilities

Develop mission autonomy modules of drones

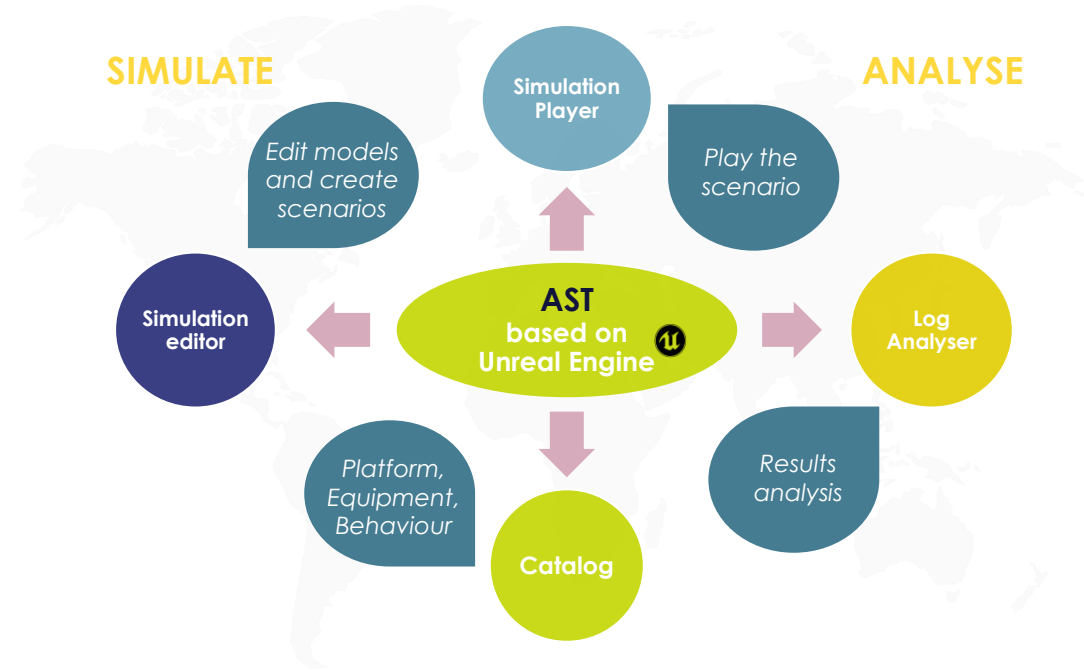
Simulate mono-drone & multi-drone scenarios (missions / events / failures)

Qualify mission autonomy modules before installation on targets.

For New System Architecture

Model new System Architectures

Demonstrate / Evaluate with respect to operational concepts.



AST Simulation Editor

Our catalog contains:

- **Platforms, sensors, behaviours & models**
- **Generic** platforms or sensors **to be parameterized**
- **Existing** elementary components & **generic** components to **create new architecture**
- **Scenarios**

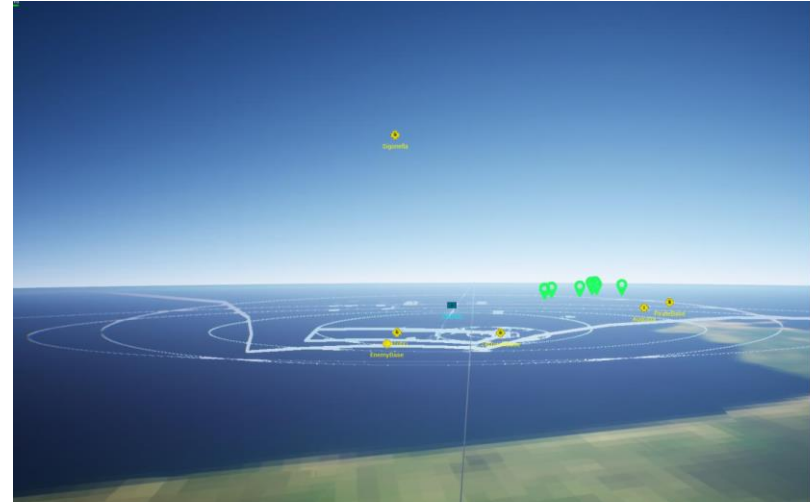
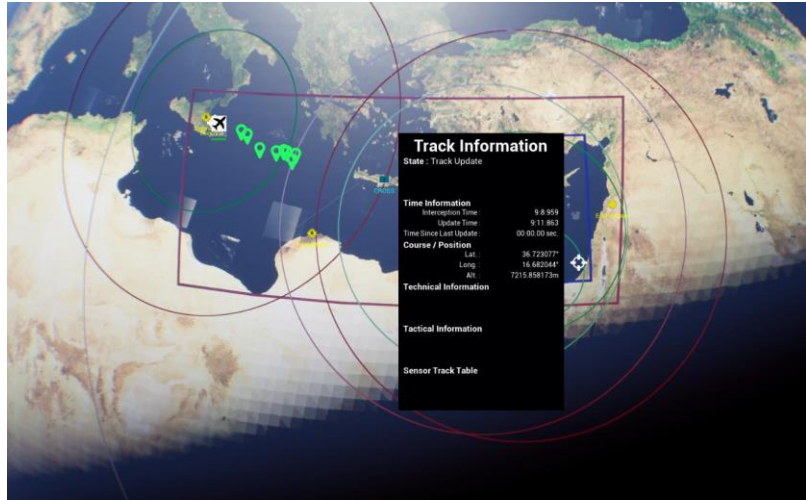
Architecture & CONOPS include:

- **Tactical behaviours** of platforms
- Cooperation and collaboration of fleet assets



AST Simulation Player

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3 types of views:

- God like
- Asset
- 3D

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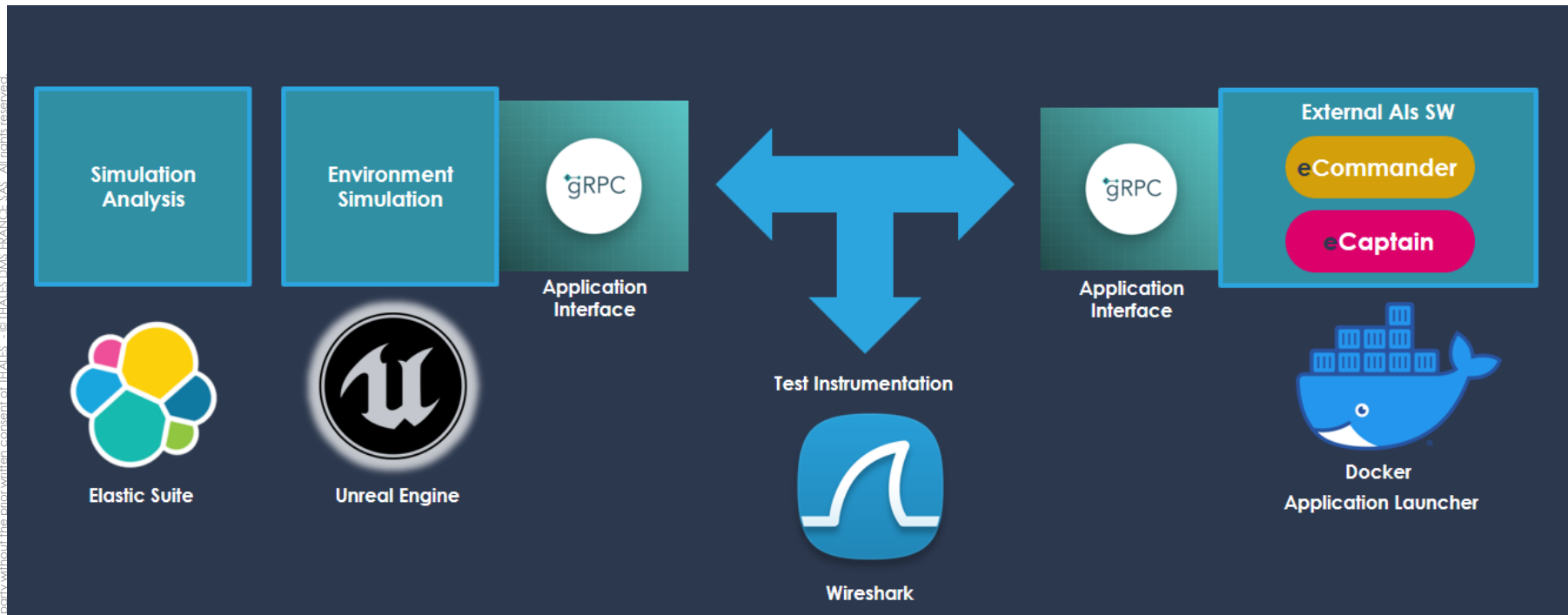
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OPEN

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Hybrid Simulation

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SIL Test of UxV mission autonomies

Conclusion

Multi-domain studio for:

- UxV Mission Autonomy Validation
- Studying systems of systems architecture & CONOPS

Applications in:

- Mine Counter Measures **MCM**
- Anti Surface Warfare **ASuW**
- Anti Submarine Warfare **ASW**

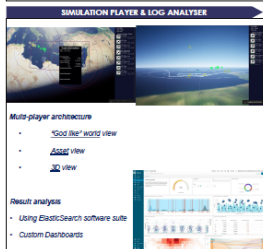
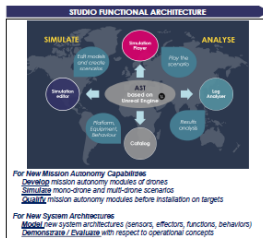
A virtual studio for multi-domain complex operations simulations

Development of individual or collaborative behaviors for platforms & operators

Integration and validation of external mission autonomies

CONUSE & CONOPS studies for:

Mine Counter Measures MCM / Anti Submarine Warfare ASW / Anti Surface Warfare ASuW



Our simulator provides an up-to-date and game based technical solution for understanding connected systems of systems in rapidly changing and complex multi-domain operations.



NATO MODELLING AND SIMULATION GROUP
 Exercise Training and Decision Support for Complex Multi-Domain Operations

Uhrval, Uhrval Engine 4, Uhrval Engine 4 Components, Uhrval Engine 4 Actors, Uhrval Engine 4 Plan, Uhrval Engine 4 Sensor, Uhrval Engine 4 Asset, Uhrval Engine 4 Controller, Uhrval Engine 4 Commander, Uhrval Engine 4 Captain, Uhrval Engine 4 Mission, Uhrval Engine 4 Navigation, Uhrval Engine 4 Controller, Uhrval Engine 4 Operator, Uhrval Engine 4 Commander, Uhrval Engine 4 Captain

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