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Pascal Roques

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Senior MBSE Consultant & Trainer

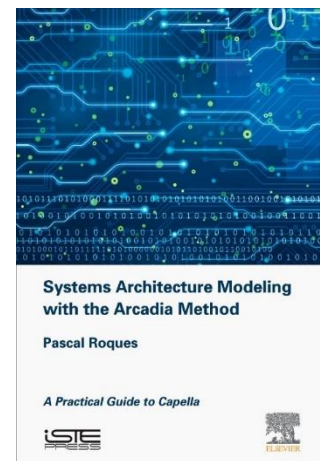
*30 years of Experience in Consulting and Training
on Modeling with Arcadia/Capella, SysML, UML*

1. Books

Pascal Roques is the author of the following books in English:

- ✚ Systems Architecture Modeling with the Arcadia Method - A Practical Guide to Capella, ISTE Press – Elsevier 2017
- ✚ UML in Practice: The Art of Modeling Software Systems Demonstrated through Worked Examples and Solutions, Wiley 2004

Pascal Roques is also the author of many books in French about SysML and UML (Eyrolles), distributed to more than 50 000 copies.



2. Career

After a first experience of Design Engineer in CSEE, Pascal Roques entered **Verilog** in Toulouse early 1986. He worked there as a Consultant / Trainer for almost ten years on Modeling tools. Pascal Roques then founded the **Valtech** agency in Toulouse mid 1995 where he continued to do consulting and training in Modeling. In 2001, he joined **Valtech Training** in which he was responsible of the Modeling part of the Training Catalog, while leading more than 150 UML and SysML training sessions in France and abroad.

Pascal Roques is now an **independent** consultant and trainer focusing on Model-Based Systems Engineering (**MBSE**). Since 2011, he has led more than 160 MBSE courses in France and abroad for more than 2000 engineers. Pascal Roques is the author of the first book on **Capella** (ISTE – Elsevier) and regularly speaks in international conferences.

3. Technical Skills

Methods: Arcadia, MBSE, INCOSE Handbook, Scrum, RUP, SADT

Modeling Languages: ArcML, SysML, UML, OMT, SADT, IDEF0

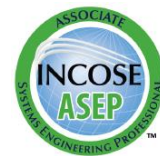
Modeling Tools: Capella, Cameo Systems Modeler, Enterprise Architect, MagicDraw, PlantUML, StarUML, Rational Rose, etc.

Certified by OMG on UML2 and SysML:

- + OMG-Certified UML Professional Advanced
- + OMG-Certified SysML Model Builder Fundamental

- + Certified **IREB-CPRE** Foundation Level
- + Certified **ASEP** by INCOSE

- + ScrumMaster



4. Major Training and Consulting Missions

4.1 Recent Training Sessions

Arcadia/Capella: Thales Université, Thales UK, Thales Roma, Thales Germany, Thales Netherland, Thales Austria, Thales España, KTH, Safran Engineering Services, MBDA, ESTEC, Continental Automotive, Cegelec, Safran Electronics & Defense, Glaway Soft, IRT St Exupéry, CNES, Ingeliance, Liebherr, Technicatome, ZF, Spherea, The Signalling Company, GMV, OHB, DGA, Axone, ESG, ISAE Supaero, Stille, ITER, Engie Solutions, Eolane, SNCF, CEA, RATP, Meritis, Flying Whales, Daronmont, BioMérieux, LGM, Egis Rail, etc.

SysML: Airbus DS, Autoliv, Sercel, BioMérieux, ECIA, Eolane, IFSSTAR, Johnson Controls (Visteon), GE Healthcare, CETIM, Siemens, Certifer, SII, MathWorks, NagraVision, Esterel Technologies, CNES, Nexter, Sogeti, MBDA, Magnetti Marelli, Sercel, Areva Expansion, JTEKT, Up Technologies, Veritas, DSNA, Rockwell Collins, Plastic Omnium, RSWL, etc.

UML: PSA, Actia, Schneider, Michelin, UE, DGAC, ATEIS, Moet, Meteo France, CoSMo, CEGID, Orange, Airbus, Thales, RSWL, etc.

4.2 Major Consulting Missions

Client	GMV (for ESA)
Durée	Coaching on Arcadia/Capella on 2 different projects (2020-2022) 20 days + 20 days
Rôle	<ul style="list-style-type: none"> ▪ Jumpstart on Arcadia/Capella Remote assistance to the use of the Capella modeling tool
Customer	CNES
Duration	Coaching on Arcadia/Capella on 2 different projects (Toulouse, Paris) 8 days + 5 days
Role	<ul style="list-style-type: none"> ▪ Jumpstart on Arcadia/Capella for a R&D project ▪ Assistance to the use of the Capella modeling tool
Customer	Schneider Electric
Duration	Coaching on Arcadia/Capella 8 days
Role	<ul style="list-style-type: none"> ▪ Jumpstart on Arcadia/Capella for a R&D project ▪ Assistance to the use of the Capella modeling tool
Customer	IRT St Exupéry
Duration	Coaching on Arcadia/Capella 20 days
Role	<ul style="list-style-type: none"> ▪ Audit of existing Arcadia/Capella model ▪ Recommendations on both method (Arcadia) and tool (Capella) use
Customer	Thales Alenia Space
Duration	Methodological Guide 20 days
Role	<ul style="list-style-type: none"> ▪ Preparation of a methodological guide on Data Modeling with the ARCADIA method and the Capella modeling tool
Customer	BioMérieux, Sercel, Siemens, etc.
Duration	Audits of SysML models 2 - 5 days
Role	<ul style="list-style-type: none"> ▪ Audit of SysML models made by the clients after initial training. Writing a set of observations and recommendations after debriefing
Customer	CETIM
Duration	SysML pilot project 5 days
Role	<ul style="list-style-type: none"> ▪ Assistance to the definition of a modeling methodology ▪ Assistance to the use of the MagicDraw modeling tool (CSM)
Customer	Thales Alenia Space
Duration	Satellites constellation projects 20 days
Role	<ul style="list-style-type: none"> ▪ Assistance to the use of Arcadia methodology ▪ Assistance to the use of the Capella modeling tool
Customer	Thales Air Systems
Duration	Systems Modeling pilot project 10 days
Role	<ul style="list-style-type: none"> ▪ Assistance to the use of Arcadia methodology ▪ Assistance to the use of the Capella modeling tool

5. Main Conferences and Publications

- 03/2018 Capella Day 2018 (Stuttgart)
Guide to Arcadia and Capella successful adoption
- 01/2018 ERTSS 2018 (Toulouse)
Capella to SysML Bridge: a Tooled-up Methodology for MBSE Interoperability (with B. Viaud, Artal)
- 09/2017 Eclipse Day Milano (Milan)
Capella: the Polarsys solution for MBSE
- 06/2017 Capella Day - EclipseCon 2017 (Toulouse)
Why are Arcadia and Capella relevant for MBSE?
- 10/2016 Models 2016 (St Malo)
Tutorial: "Arcadia in a Nutshell"
- 06/2016 EclipseCon 2016 (Toulouse)
Workshop: "Hands-On Systems Modeling with Arcadia / Capella"
- 01/2016 ERTSS 2016 (Toulouse)
MBSE with Arcadia Method and Capella Tool
- 09/2015 EAUG (Enterprise Architect User Group, Paris)
MBSE avec SysML (with D. Travel, Biomérieux)
- 06/2015 EclipseCon 2015 (Toulouse)
Systems Modeling with the Arcadia method and the Capella tool
- 04/2015 RE Magazine IREB (Issue 2015-02)
Modeling Requirements with SysML
- 05/2014 No Magic World Conference (Allen - USA)
How Not to Fail with SysML?
- 07/2013 INCOSE Webinar N°54
Requirements Modeling with SysML
- 04/2013 IEEE SysCon 2013 (Orlando – USA)
Tutorial: Requirements Modeling with SysML
- 02/2013 No Magic World Conference (Allen - USA)
SysML Adoption in France: Industry Examples
- ...

6. Education

- 1983** DEA in Artificial Intelligence, Robotics, and Pattern Recognition (Toulouse)
- 1982** ENSICA (École Nationale Supérieure d'Ingénieurs de Constructions Aéronautiques)