

LEARNING SYSML V2 WITH CATIA MAGIC / CAMEO

INCOSE SysML v2 Exchange · 2026

Everything you need to go from first model to confident SysML v2 practitioner.



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SysML v2 Implementation Lead



Let's connect

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Your SysML v2 learning path

SysML v2 learning resources



01

TRY

SysML v2 Community Edition

- Free CATIA Magic / Cameo for learning and teaching
- 100% OMG SysML v2 standard conformant
- Text and diagrams in perfect sync
- Up to 500 major elements

Available now · Windows, macOS, Linux

02

WATCH

Expert webinar series

- 12+ deep-dive webinars in 2026, delivered for INCOSE and OMG audiences
- From SysML v2 basics to queries, simulation, AI and v1-to-v2 migration

Recordings free for everyone

03

TRAIN

3-day hands-on workshop

- Language, tool and method: SysML v2 with MagicGrid
- Build a full system model, from requirements to analysis
- In person, up to 40 attendees

In person

04

CONTINUE

Self-paced online course

- The 3-day workshop material online, via 3DS EDU
- Learn anywhere, at your own pace
- Ideal for teams that cannot travel

Coming December 2026

CATIA Magic / Cameo SysML v2 Community Edition

Use it today · free for learning & teaching



FREE

Full SysML v2 modeling, at no cost

Learn the language, **teach** a course, record a tutorial, write a paper or run research.

500 major elements

Windows · macOS · Linux



100% standard conformance

Full adherence to the **OMG SysML v2** specification metamodel: what you learn transfers.



Text & diagrams in sync

Instant **two-way synchronization** of textual and graphical syntax: the best way to learn SysML v2.



Built for learning

The same tool used in our **3-day workshops** and webinars: follow along with every exercise.



Continuously updated

Regular new releases, shaped by **community feedback** on what helps people learn.



Get started

On software.3ds.com, choose **Free Download** › **CATIA Magic / No Magic** and pick the SysML v2 Community Edition



SCAN ME
Learn more & download for free

discover.3ds.com/free-catia-sysmlv2-community-edition

SysML v1 to SysML v2 transition guidelines

Built on the INCOSE transition guidance · heavily extended by Dassault Systèmes



FOUNDATION

INCOSE SysML v1 to SysML v2 Transition Guidance

Community guidance on the OMG MBSE wiki, and our common starting point for any v1 to v2 transition.

Content derived from **OUSD (R&E)** publicly available material, as described on the OMG MBSE wiki.

[omgwiki.org/MBSE › SysML v2 transition](https://omgwiki.org/MBSE/SysML_v2_transition)



HEAVILY EXTENDED

From guidance to a process model

Transition guidelines modeled in SysML and shipped with **CATIA Magic / Cameo**.

```
graph TD; Start(( )) --> Prep[Prepare organization for transition]; Prep --> Deploy[Deploy MBSE with SysML v2 to programs]; Deploy --> Select[Select the SysML v1 models to migrate]; Select --> Loop[Steps that repeat for each migrated SysML v1 project (model conversion)]; Loop --> End(( ));
```



FULL GUIDELINES

Read our full transition guidelines

In the SysML v2 Plugin documentation, 2026x Refresh 1

SCAN ME
SysML v1 to SysML v2 transition

[docs.nomagic.com › SYSML2P](https://docs.nomagic.com/SYSML2P)

MBSE with SysML v2

Hands-on training · 3DS EDU course

3 days covering the 3 MBSE pillars

LANGUAGE
SysML v2

TOOL
CATIA Magic / Cameo

METHOD
MagicGrid **COMING IN 2027**

DAY 1

Foundations

- M01 Introduction to MBSE
- M02 Tool fundamentals
UI, views, smart manipulators
- M03 Namespaces & model structure
- M04 Definition and usage

DAY 2

Requirements & structure

- M05 Requirements
Text-based and constraint-based
- M06 Parts & ports
- M07 Connections
- M08 Views
Viewpoints, filtering, rendering
- M09 Use cases

DAY 3

Behavior & analysis

- M10 Action flows
- M11 States
Transitions, guards, effects
- M12 Interactions
Occurrences, events, messages
- M13 Cross-cutting relationships & traceability
- M14 Model analysis
Analysis cases, trade studies, verification

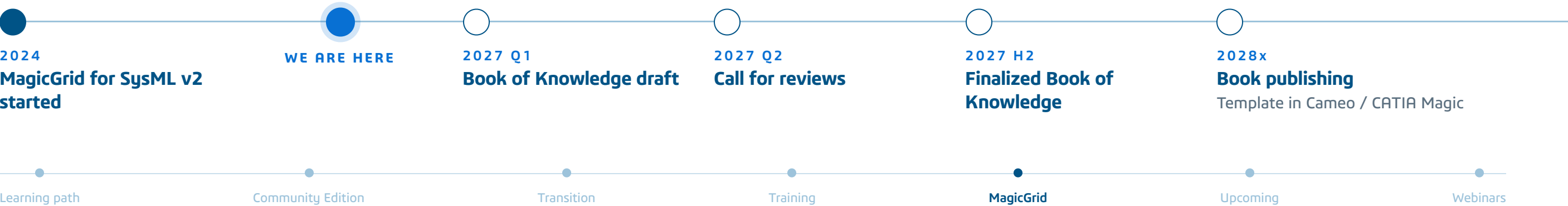
OUTCOME Attendees build a complete rescue-drone system model in CATIA Magic 2026x.

MagicGrid for SysML v2

The method · MBSE methodology from Dassault Systèmes

	Requirements	Structure	Behavior	Parameters	Safety & Reliability
PROBLEM Black box	Stakeholder Needs	System Context	Use Cases	Measures of Effectiveness	Conceptual & Functional FMEA
PROBLEM White box		Conceptual Subsystems	Functional Analysis	MoEs for Subsystems	Conceptual Subsystems FMEA
SOLUTION System	System Requirements	System Structure	System Behavior	System Parameters	System S&R
SOLUTION Subsystem	Subsystem Requirements	Subsystem Structure	Subsystem Behavior	Subsystem Parameters	Subsystem S&R
SOLUTION Component	Component Requirements	Component Structure	Component Behavior	Component Parameters	Component S&R
IMPLEMENTATION	Implementation Requirements				

→ Aligned with ISO/IEC/IEEE 15288 → Described in the MagicGrid Book of Knowledge → Approved by external experts



“The language must be used in conjunction with an effective MBSE methodology.”

OMG · SysML v2

Re-thought for SysML v2

- SysML v2 is a **new language**: more expressive, less constrained
- Every MagicGrid cell reviewed: **usages or definitions**, model organization, visualization
- Recommendations evolve with the spec and tools

Upcoming SysML v2 training

Join us

IN PERSON · 3 DAYS

Santa Clara, CA

November 3–5, 2026

- Full **3-day SysML v2** workshop with MagicGrid
- Hands-on in CATIA Magic 2026x
- Meet the CATIA Magic experts

UPCOMING

IN PERSON · 3 DAYS · WITH INCOSE NTX

Plano, TX

November 17–19, 2026

- Co-hosted with the **INCOSE North Texas** chapter
- 5800 Tennyson Parkway, Plano
- Lunch and breaks included

UPCOMING

ONLINE · SELF-PACED

Anywhere

Launching December 2026

- Covers the **3-day workshop** material
- Delivered through **3DS EDU**
- Learn at your own pace, use with the Community Edition

NEW



Bring it to your INCOSE chapter

Reach out to host the next one.

3ds.com/edu/catia-magic-training/mbse-sysml-v2-and-magicgrid

MBSE with SysML v2 & CATIA Magic webinars

Go deeper · expert webinar series for INCOSE & OMG

01

Introduction to SysML v2

REPLAY

02

Exploring SysML v2 and the CATIA Ecosystem

REPLAY

03

Preparing Your Organization for SysML v2

REPLAY

04

Graphical and Text Working Together

REPLAY

05

Querying the SysML v2 Model

REPLAY

06

Repositories and Capabilities

REPLAY

07

Bridging Systems and Software Engineering

REPLAY

08

Custom Views in SysML v2

REPLAY

09

Model Evaluation and Requirements Verification

REPLAY

10

Simulation with SysML v2

REPLAY

11

AI for SysML v2

REPLAY

12

Diagram Migration from v1 to v2

UPCOMING

13

SysML v2 Geometry Viewer: Spatial Requirements

UPCOMING



ALL EPISODES IN ONE PLACE

events.3ds.com/mbse-sysml-v2-catia-magic

Free replays and registration for upcoming sessions



FORMAT Practitioner-led sessions with live demos: language, tooling, migration, AI and simulation.



THANK YOU

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QUESTIONS? GET IN TOUCH

Kelli Mixon

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Virtual Worlds
for Real Life

Start your SysML v2 journey today



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SysML v2 Community Edition

discover.3ds.com/free-catia-sysmlv2-community-edition



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TRAIN

3-day workshop & self-paced course

3ds.com/edu/catia-magic-training/mbse-sysml-v2-and-magicgrid



ASK

CATIA MBSE Cyber Systems community

3dswym.3dexperience.3ds.com/community/catia-mbse-cyber-systems

