

# PRESS RELEASE

## **MSC Software Selects CADLM to deliver AI solutions for CAE globally**

*Next Generation software platform, ODYSSEE, provides near real-time responses for complex engineering design and optimisation problems*

(NEWPORT BEACH, CA, 17 June 2019) - [MSC Software Corporation \(MSC\)](#), a global leader in computer-aided engineering (CAE) simulation software and services, today announced an extension to its cooperation with CADLM into a strategic market development partnership for ODYSSEE, its innovative new state-of-the-art Machine Learning-based software package for real-time parametric design and optimisation. Paris-based CADLM has been a pioneer in implementing Artificial Intelligence (AI) technology in CAE, and MSC Software have selected CADLM solutions to add to its product portfolio, globally.

The ability to compile information from CAE simulations associated with mathematical models and data mining allows for very fast analysis of very complex and highly non-linear simulation responses such as crash, transient dynamic and structural analysis, and CFD, but also finance, biomechanics, and defense applications. CADLM develops predictive, real-time design optimisation models for CAE simulations based on Machine Learning techniques via the ODYSSEE suite of software.

ODYSSEE is a powerful platform, including various machine learning, data handling, signal treatment, image processing & recognition, data compression and fusion, as well as system sensitivity analysis complemented by optimisation and robustness indicators. The software is applicable to FE or CAD models and is solver independent, allowing for rapid deployment and coupling with most of MSC's CAE software, from very early design concept to optimisation and robustness analysis.

ODYSSEE provides an impressive set of tools empowering engineers and analysts who require quick feedback on complex engineering design and optimisation problems. It employs various techniques such as learning from data, forecasting, and optimisation of design parameters; all within an interactive and real-time environment.

Key modules of the ODYSSEE software suite include:

- Machine learning engine via the QUASAR module
- Optimisation and robustness analysis via the NOVA module
- Reduced Order Modelling technology via the LUNAR module

“The CADLM team was eager to pair the ODYSSEE product with an already established leader in the CAE market. We are confident that MSC’s highly capable sales and support organisation, will help expedite the delivery of ODYSSEE technology to manufacturing companies that are ready to take the strategic step towards AI and Digital Twins,” said Kambiz Kayvantash, CEO, CADLM, commenting on the partnership.

"We selected CADLM for its game-changing software platform ODYSSEE that allows for numerous machine-learning solutions whose exploitation is central to real-time CAE design exploration. Integration of CADLM’s AI technology with MSC’s CAE tools will enhance our mutual solutions and establish new perspectives, not only in CAE based structural designs, but also in digital solutions that create autonomous connected ecosystems as we move towards the convergence of the physical with the digital world, and intelligence is built-in to all processes," said Kais Bouchiba, MSC Sr. Vice President EMEA & Global A.I. / Machine Learning Strategist, who welcoming the extension of the partnership.

### **About MSC Software**

MSC Software is one of the ten original software companies and a global leader in helping product manufacturers to advance their engineering methods with simulation software and services. As a trusted partner, [MSC Software](https://www.mscsoftware.com) helps companies improve quality, save time, and reduce costs associated with design and test of manufactured products. Academic institutions, researchers, and students employ MSC's technology to expand individual knowledge as well as expand the horizon of simulation. MSC Software employs 1,400 professionals in 23 countries. For more information about MSC Software's products and services, please visit: [www.mscsoftware.com](https://www.mscsoftware.com)

MSC Software is part of Hexagon, a global leader in sensor, software and autonomous solutions. Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.8bn EUR. Learn more at [hexagon.com](https://hexagon.com) and follow us @HexagonAB.

Press contact:

Mary Harrison, MSC Software

Tel. + 44 7741 524129

e-mail. [Mary.Harrison@mscsoftware.com](mailto:Mary.Harrison@mscsoftware.com)

### **About CADLM**

CADLM specializes in engineering, simulation, optimization, and industrial reliability analysis. It has developed specific know-how in data analysis and AI, especially for the automotive, aerospace, biomedical and civil engineering sectors. It counts among its customers Toyota, PSA, Thales/DGA, VEDECOM, Ariane Group & Dorel. CADLM markets its software under the ODYSSEE platform (data mining, prediction, scale models, optimization, artificial intelligence) and offers high value-added services, with a commitment to time and results. For more information on CADLM and its products, visit [www.cadlm.com](http://www.cadlm.com)

Press contact:

Agnès Bellini, CADLM  
Tel. + 33 1 69 07 29 22  
e-mail. [Agnes.bellini@cadlm.com](mailto:Agnes.bellini@cadlm.com)

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