

Life Cycle  
Management

**Finally**  
safe from  
surprises.

### Applicable Management Systems

We develop, implement and digitise applicable solutions, processes and applications for your perfect obsolescence, discontinuation, configuration, change, risk and life cycle management.

**Convenient. Secure. Free from surprises.**



 **AMSYS**  
Applicable Management Systems

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# Your benefits at a glance

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## ... in the words of our clients:

- “Only 7 months after project launch, **more than \$ 3.9 million** have been saved already.”  
(just one example from a railway company)
- “**Multifaceted consultation** that also **gives you the tools you need.**”  
(universal opinion of seminar participants from electronics production)
- “The software-supported process achieved a **return on investment of 23 to 1.**”  
(independent evaluation by a client from the military industry)
- “Our **eyes** have been **opened!** Contents are conveyed **well** and in a **practical** manner.”  
(from a consultancy project with participants from the scientific sector)
- “**Process cost saving of at least 30 %** were realised in less than 12 months.”  
(various client analyses from mechanical and plant engineering)
- “**Excellent** - unlimited **recommendation.**”  
(client opinion from the aerospace sector)

Life Cycle  
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**Finally**  
avoiding  
unnecessary  
costs  
effectively.



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# Life Cycle Management

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**Life cycle management** helps companies to **analyse risks** and **evaluate opportunities** to use the findings as a basis to **derive profitable strategies**. Especially in relation to **durable capital goods**, technical and organisational measures **reduce life cycle costs**, for all parties involved in the supply chain - **from manufacturer to operator**.

## Obsolescence Management (OM)

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- **Discontinued! – Now What?**
- **No longer procurable?**
- **Secured spare parts supply?**
- **Who takes care of that?**

**Costly supply bottlenecks** arise when a component, material, tool, process, assembly, software or standard necessary for the production or repair of a company's own product is **no longer available from the manufacturer**. This is known as 'obsolescence'. That is why it is becoming increasingly important to practice active management to reduce or completely **avoid unplanned costs**.

## Change Management (CM)

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- **Specifications Change?**
- **Changes not documented?**
- **Traceability ensured?**
- **Status of changes not clear?**

If **changes to configurations** (master data) are not adequately managed throughout the entire life cycle, errors are created that require remedy through **expensive rework**. In order to avoid this, configurations must have a **clean structure** and change to it must be fully documented. This is realised by a **consistent change process** 'from the cradle to the grave' and adequate **digitisation**.

## Risk Management (RM)

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- **Availability status predicted?**
- **Solutions planned proactively?**
- **Lifetime extension possible?**
- **What are the risks?**

If **risks such as non-availability** of spare parts, production materials or failure probabilities of a product are not known, **unplanned costs** are incurred for their remedy as well as production downtimes. Risk management facilitates **proactive identification of threats, evaluation** of their **effects** and the **development** of **risk mitigation or prevention strategies** to **control** life cycle costs.

## Free tool for your change and obsolescence management

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In accordance with the VDMA Standard Sheet 24903, the COG smartPCN Standard and the JEDEC J-STD-046, J-STD-048 standards, you can use the PCNGenerator to generate **standardised change (PCN) and discontinuation notices (PCN) in a PDF and digital format** and send these out via email. The tool allows you to verify your digital data and process it if necessary.

[www.pcngenerator.com](http://www.pcngenerator.com)



## AMSYS Service Portfolio

Are you an **operator or manufacturer** of durable capital goods? If so, we can offer you **individual consultations and a portfolio of solution options** through:

- **Workshops & trainings**
- **Process audits & coaching courses**
- **Concept development & definitions**
- **Process implementations**
- **Operational processings & realisations**
- **Contract design & tenders**
- **(Master) Data cleaning**
- **Preparation of risk analyses**
- **Development of supply strategies**

We are happy to assist you in the development, expansion, reorganisation and daily operation in your organisation in relation to the following topics:

- **Obsolescence & discontinuation management**
- **Configuration and change management**
- **Risk & life cycle management**

## Your benefits

**You will already reduce and avoid high downtime costs within the first few months!**

Our **customised solutions** are executed sustainably, enabling you to minimise and prevent production downtimes and service interruptions **throughout the entire life cycle** – even when the planned service life of plants, machinery or means of production is extended.

You will benefit from our **systemic expertise** in problem solving, as well as our **extensive experience** in the planning, design and execution of process changes, all the way to **'outsourcing' your responsibilities in our solution.**

Our **AMSYS experts** are specialised in making sure that the implemented solutions are applicable to you - we bear this guarantee in our name: **Applicable Management Systems!**

### Contact us without obligation!

We advise you individually which service components are the right ones for you, your requirements and your success.

**Finally**  
consultancy and  
software  
from a unique  
source.

**Successful project guaranteed**

Thanks to our **extensive experiences in a vast range of sectors**, we can analyse your processes extremely fast, and design, implement and digitise necessary improvements.

With us, you will receive the **most competent consultation together with perfect software.**

# LCM CLIENT

Life Cycle Management

Our modular, web-based **Life Cycle Management (LCM) Client** is the optimal solution for the **automated, digitised and transparent** design of your **reactive, proactive or even strategic process**.

The LCM Client comprises **3 modules** which you can either operate as a **combined solution** or as a **separate application** – fully customised in accordance with your requirements.

## OM MODULE

Our module for **obsolescence management (OM)** **individually** maps your **process pursuant to the IEC 62402**. Automate the management of your obsolescence cases. **Determine the effects** of discontinuations on your products and facilitate **full traceability** of the actions taken. Achieve enormous resource savings through **interfaces with external data bases** and internal systems with full integration of the **smartPCN & VDMA 24903** standards for your communication with suppliers and customers.



## CM MODULE

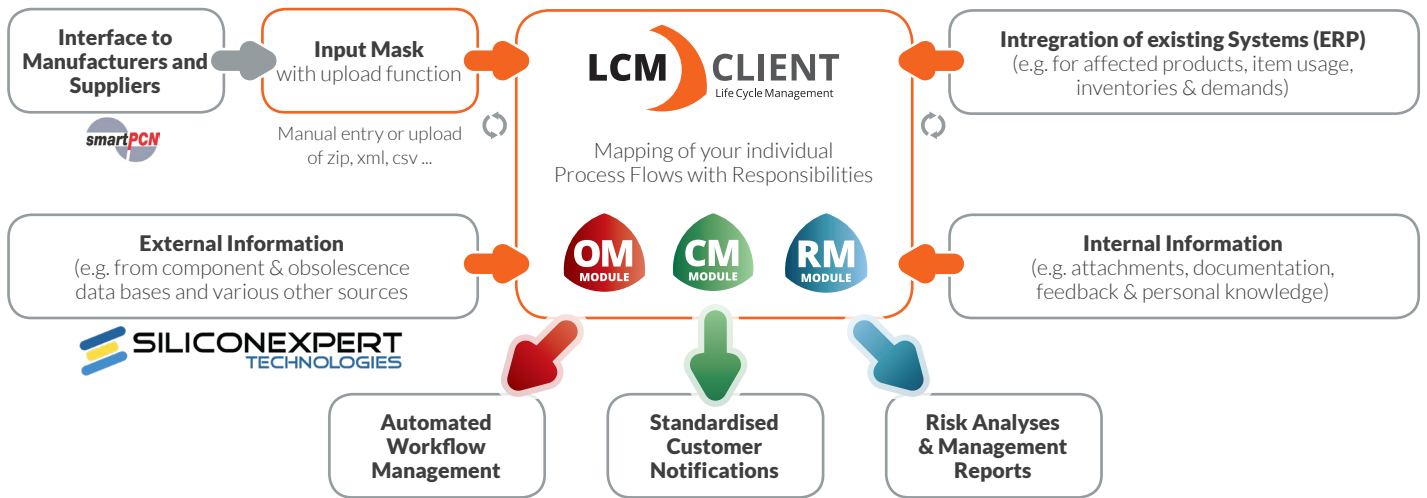
Our **change management (CM)** module facilitates complete and digital management of changes to your configurations. Easily identify **effects of changes** and integrate all persons involved in the solution. You will have an overview of the **configuration status** (master data) as well as the planned and implemented changes to it. The CM module with **integrated workflow management** brings light into the darkness of change tracking.



## RM MODULE

Our module for **risk management (RM)** enables you to present **overall risks based on international standards** through **live aggregation** of likelihoods of occurrence at component level which have an impact on your products. Solution options are linked automatically. Manage proactively against economic and technical risks with **risk mitigation or risk prevention strategies**. This module can also be connected to data bases and **customised for you**.





| LCM CLIENT<br>Life Cycle Management   | OM<br>MODULE         | CM<br>MODULE         | RM<br>MODULE        |
|---|----------------------|----------------------|---------------------|
| Automated management process conforming to standards                          | ●<br>e.g. IEC 62402  | ●<br>e.g. ISO 10007  | ●<br>e.g. ISO 31000 |
| Customised process flow and input fields acc. to your requirements*           | ●                    | ●                    | ●                   |
| Creation, management & monitoring of cases (case management)                  | ●                    | ●                    | ●                   |
| Integrated upload function to add file attachments                            | ●                    | ●                    | ●                   |
| Allocation of responsibilities (task & workflow management)                   | ●                    | ●                    | ●                   |
| Clear product breakdown structure to the smallest exchangeable item           | ●                    | ●                    | ●                   |
| Automatic risk assessment of all items of your products                       | ●                    | ●                    | ●                   |
| (Alarm) Notification if a certain obsolescence status occurs                  | ●<br>reactive        | ●                    | ●<br>proactive      |
| Mapping of hardware (not limited to electronics) & software                   | ●                    | ●                    | ●                   |
| Import & export functions (e.g. for .xls, .xml, .csv, .txt, .zip)*            | ●                    | ●                    | ●                   |
| Automatic output of standardised notifications & reports                      | ●                    | ●                    | ●                   |
| Various cockpits, dashboards & graphics                                       | ●                    | ●                    | ●                   |
| Interfaces to other information systems (data bases, ERP, etc.)*              | ●                    | ●                    | ●                   |
| External input mask with upload function (e.g. for suppliers & manufacturers) | ●<br>e.g. VDMA 24903 | ●<br>e.g. VDMA 24903 | ●                   |
| Manual addition or reprocessing of data sets                                  | ●                    | ●                    | ●                   |
| Sophisticated high-performance search functions (keywords & filters)          | ●                    | ●                    | ●                   |
| User management & administration (read & write privileges)                    | ●                    | ●                    | ●                   |
| History function with (re-)traceability                                       | ●                    | ●                    | ●                   |
| Modern and scalable technology (web-based & mobile-enabled)                   | ●                    | ●                    | ●                   |
| Hosting on the company's own or a dedicated AMSYS (SaaS) Server               | ●                    | ●                    | ●                   |
| System maintenance, regular updates, support & backups                        | ●<br>included        | ●<br>included        | ●<br>included       |

\* Depending on the level of customisation, an additional one-off fee may apply

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# References (excerpt)

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● **Rail, transportation and public transport:**

**Berliner Verkehrsbetriebe** AÖR, **Deutsche Bahn** AG, **Knorr Bremse** Sfs Berlin, **NS** Nederlandse Spoorwegen, **ÖBB**-Technische Services GmbH, **Rheinbahn** AG, **Schweizerische Bundesbahnen**, **Stadler** Pankow GmbH, **VAG** Nürnberg, etc.

● **Industrial engineering, automation and energy:**

**ABB** AG, **Belimo** Holding AG, **Komax** AG, **Océ** Printing Systems GmbH & Co., Robert **Bosch** GmbH, **Schurter** AG, **Sick** AG, **SMA** Solar Technology AG, **Siemens** AG, **T-Systems** International GmbH, **Vattenfall** GmbH, **ZF** Friedrichshafen AG, etc.

● **Aerospace, marine and military sectors:**

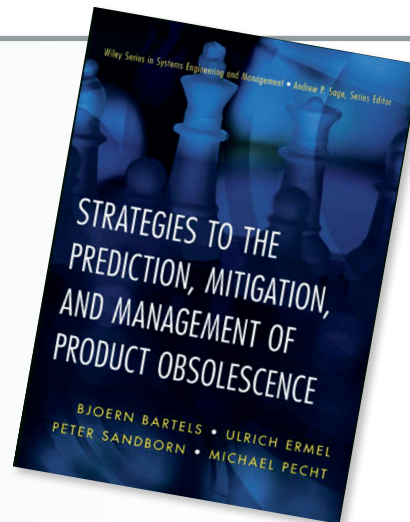
**Airbus** Defence and Space, **DLR** Gesellschaft für Raumfahrtanwendungen mbH, **ESG** GmbH, **Krauss-Maffei Wegmann** GmbH & Co. KG, **Rheinmetall** Waffe Munition GmbH, **Rockwell Collins** Inc., **RUAG** AG, **Schiebel** Elektronische Geräte GmbH, etc.

● **Automotive and medical technology:**

**Audi** AG, **CLAAS** Selbstfahrende Erntemaschinen GmbH, Conti Temic Microelectronic GmbH, Dr. Ing. h.c. F. **Porsche** AG, **Hirschmann** Car Communication, **Maquet** GmbH, **Melag** Medizintechnik oHG, **Truma** Gerätetechnik GmbH & Co. KG, **Volkswagen** AG, etc.

## We go the extra mile for you.

AMSYS is the official **business partner of the COG** (Component Obsolescence Group Deutschland e.V.), **'Endorsed Trainer'** of the **IIOM** (International Institute of Obsolescence Management), **German Spokesman for Standards Revision** for reliability topics of the **IEC** (International Electrotechnical Commission), head of **working groups** at **VDI** (Association of German Engineers), **co-author of VDMA** (Mechanical Engineering Industry Association) **Standards**, **partner** of the Institute of **Process Excellence**, **co-author** of the **specialist publication 'Strategies to the Prediction, Mitigation and Management of Product Obsolescence'** and also **developer & hosting provider** of the largest **exchange portal for transport companies** in Europe ([www.obsolescence-management.net](http://www.obsolescence-management.net)).



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## Talk to us.

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AMSYS GmbH

Roentgenstrasse 5 | 82152 Planegg - Munich | Germany

**+49 (0) 89 9974080 00**

info@am-sys.com

[www.am-sys.com](http://www.am-sys.com)