

# Series M/ product architecture



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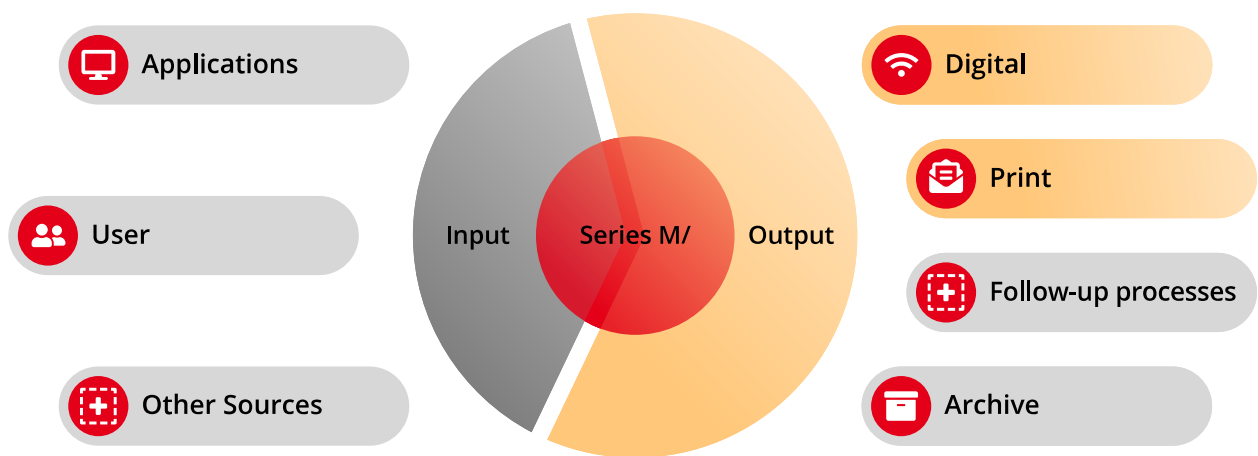
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**kwsoft**

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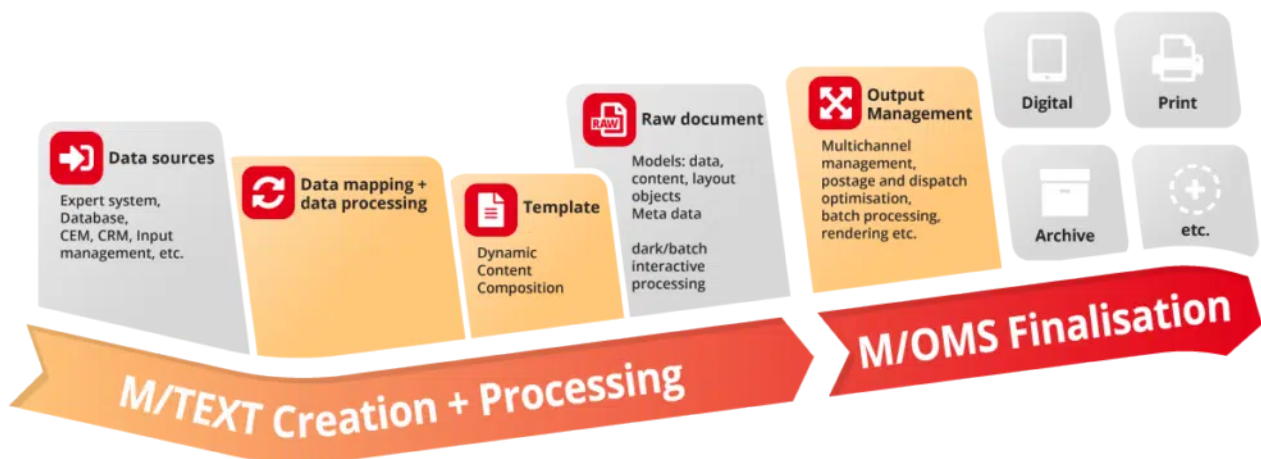
With state-of-the-art technology and modular design for an individual high-performance CCM solution.

The CCM System Series M/ is a standard software based on modern Java EE technology. Its modular structure, distinctive interface strategy, and consistent use of proven IT standards enable individually configurable solutions that are tailored precisely to your requirements. This is how the Series M/ achieves optimum efficiency and turns your customer communications into positive customer experiences.



## CCM processes with the Series M/

The [Series M/](#) takes the approach of an end-to-end [CCM solution](#) that offers the entire creation process from data transfer/[content composition](#) to [omnichannel output](#) from a single source. This process is essentially covered by two products: [M/TEXT](#) for content composition and [M/OMS](#) for finalization and omnichannel output management.



Both products are fully integrated and can be operated together, individually or in combination with other CCM components. For example, M/TEXT as a text solution that transfers the prepared content to an existing OMS. Or M/OMS, which accepts and processes document formats such as PDF, AFP, etc. from existing applications.

You can achieve the highest increase in quality, security, and cost-effectiveness by controlling the complete CCM process for all written corporate communications with the central, end-to-end CCM solution Series M/. Here, our customers benefit from

- a significantly improved performance of the overall process
- the efficiency and clarity of central resource configuration
- an enterprise-wide CCM solution that does not require time-consuming and quality-reducing conversion

## Technology

The Series M/ is implemented as a multi-tier client-server system based on the Java EE architecture. Thus it is executable on all platforms with a JEE application server (e.g. Windows, Linux, Unix: AIX, HP-UX (PA-Risc and Itanium), Solaris, MAC OS X).

### Application Server

The server components can currently run on the following Java EE application servers:

Oracle Weblogic, JBoss AS, IBM WebSphere, Open Liberty und WildFly.



The Series M/ can be operated in a cluster which means it can scale horizontally to meet the infrastructure requirements of modern, globally operated IT applications: High availability with 24x7 operation, load balancing, and scaling.

### Databases

The storage of data (e.g. resources, documents, metadata, administrative data, ...) is done in the run-time environment in one or more relational databases. The Series M/ currently supports the following database systems:

Oracle, IBM DB/2, MS SQL Server, PostgreSQL, SAP HANA.



### Container technology

With the modern architecture of the Series M/, operation on container application platforms (Docker with Kubernetes / OpenShift) for cloud computing is also possible, making the Series M/ cloud-ready.

Raiffeisen Switzerland runs the Series M/ productively on the OpenShift container platform. The applications run very stably and with a multiple parallelized PDF preparation speed of 220 pages per second. They also cover peak loads without the system being maxed out.

[Use Case of the Raiffeisen Switzerland](#)

## Cloud-Technologie with the Series M/

### **M/Cloud for Testing**

kwsoft operates on the current release of the Series M/ in an AWS cloud. As a client, you receive access to this system for a small fee. This means you work as a client in your own environment with preconfigured servers. There, you can upload your resources to test the provided version with your settings, resources, etc. No installation and configuration effort is required on your end.

### **M/Cloud for Production**

Together with our partner msg systems AG, we offer the Series M/ as individual cloud solutions tailored to your company. This allows you to take your customer communication management to the next level in terms of technology. Whether you want to outsource select batch runs or your entire Series M/ infrastructure, M/Cloud for Production is prepared for it.

Sounds interesting? We will prepare a non-binding offer customized for you!

# Series M/ – the innovative product line

Count on innovative document creation and flexible output management with the Series M/ !

## With combinable modules to an individual solution

With [M/TEXT](#) and [M/OMS](#) you have the basis for an end-to-end CCM solution, which you can expand to your individual solution with numerous optional modules. kwsoft offers a variety of configurable standard modules with different functional extensions. For example

- Language modules for user interface and formatting (hyphenation/spelling)
- Renderers for numerous output formats such as HTML, Postscript, PDF, PDF/A, PDF/VT, PDF/UA, AFP, PCL, TIFF, PNG, SVG, XML
- An integration adapter web services for easy connection of applications
- M/OMS Input X for importing various file formats such as AFP, PCL, PDF, SAP GOF
- M/OMS DO for postage and dispatch optimization, DP franking
- M/TEXT TONIC Content Hub, the text editing system for your technical editors
- Etc.

In addition, there are many modules designed according to customer specifications, which you can integrate via numerous interfaces. For example, output extensions that provide data for [business intelligence](#) modules.

In addition, our partners offer modules that complement the [Series M/](#), for example, integration in Outlook, in [Salesforce](#), in [SAP](#), or a [digital ePostbox](#) operated via app

## Custom Development

And when the configuration of the standard products and additional modules reaches its limits, our [Custom Development](#) department provides project-related software engineering for individual additions. This way, we also cover special cases outside the standard and work with you to integrate the products into your specific infrastructure or architecture environment.

## Standards

Instead of reinventing the wheel, we leverage market-proven standards that increase the openness, connectivity, and extensibility of the system.

- Best-of-breed – We cover functions outside the core area of CCM with systems established in the market, such as version management, load distribution, workflow, task control, etc.
- Distinct interface strategy – APIs for seamless (SOA-compliant) integration of the system into your IT infrastructure or into your applications and processes with function calls/data exchange in both directions
- Formats – for input as well as output we support all common standard formats

With each new release we improve the products and develop them consequently, so that today we are considered a technological market leader with the Series M/. Every year at the start of planning new releases, our customers select new functions from a list of suggestions, which, in addition to our strategic product planning, are included in the next release.

Do you have any specific questions?