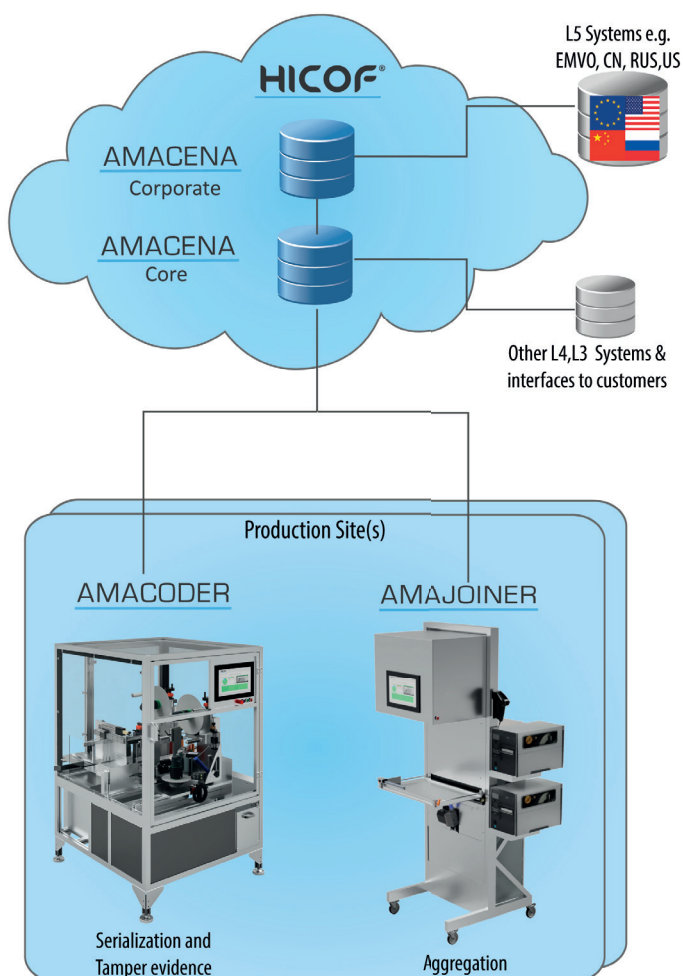


AMACENA®

Database for managing serial data

Highlights

- **Integrated IT-Infrastructure** from coding line up to Partners/ Governments
- **Easy operation** due to transparent data structures -> No experts required
- **Validated Software** -> Easy, quick and low-cost implementation
- **Cost effective** due to Cloud technologies (on-premise version available)
- Suited also for **medium and small MAH's, CMO's & Wholesalers**



System

Currently, a cascade of servers is required as IT-backbone for serialization, starting on line level, through site up to corporate level. Supplied by a multitude of suppliers, interfaces are needed between the different database levels creating data integrity issues as multiple redundant data entry is needed. The solution: Amacena is one single, integrated system replacing this complex landscape. The resulting benefits:

- **One single source of truth** for all data (e.g. a fully GxP compliant Master Data Management)
- **Integration of partners on global scale** without local server infrastructures possible
- **Interfaces** with partners (MAH – CMO) and governmental agencies (EMVO, NMVO, CRPT) available
- **Centrally manages Artworks** for serial codes allows direct access to printers and cameras

Amacena uses state of the art technologies, **minimizing investments and running cost**. By having three configuration possibilities (please see back of this document) Amacena can adjust to all possibilities.

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Software Pack	Amacena Cloud	Amacena Hybrid	On-premise
Covered Software levels	1-4		1-3 (L4 covered by 3 rd party Software)
Connectivity to Business Partners	Interfaces to most know Software vendors included.		Every interface is invoiced separately
Connectivity to Governmental Servers	Through optional "Regulatory" extension		Through 3 rd party software as e.g. ERP Systems
Updates	Included in Subscription fee	Incl. on "Communication Hub"; Sold separately for "On-premise server"	Sold separately
Validation	Full validation of cloud performed by Hicof. Cost fully covered by subscription fee.	Incl. on "Communication Hub", sold separately for "On-premise server"	Separate validation of local server required
Required Site installation	No site installation apart from Machine.	Servers on each site needed.	Servers on each site needed.
Business model	Yearly subscription fee typically dependent on the amount of machines/uploaded packs		
Master Data Management	Central Management of all master Data across the organization	Master data management on site/location level only	

AMACENA Functionalities				
	Line Server L1/2	Line Server Plus	Site Server L3	Corporate L4
Monitor Print & Verify	✓	✓	✓	✓
SKU Setup/ Packaging Properties	✓	✓	✓	✓
Camera ISO 15415 compliance	✓	✓	✓	✓
Label Creator	✓	✓	✓	✓
Order Management		✓	✓	✓
Data Import & Export		✓	✓	✓
Master Data Management			✓	✓
GxP compliant Change Mgt.			✓	✓
Serial number search & rework			✓	✓
Extended User Management			✓	✓
Multi-Level Aggregation Capabilities			✓	✓
Serial Number Generator				✓
Governmental Server Interface				✓