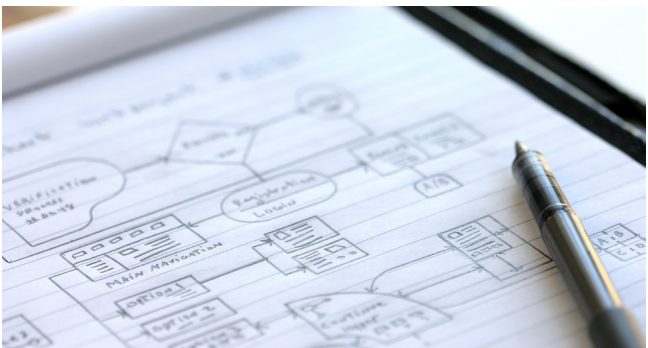# PRODUCT-SPECIFIC
SOFTWARE DEVELOPMENT

REQUIREMENTS MANAGEMENT

ANTRIMON supports you methodically and in a goal-oriented manner to help create a definition of your requirements. The resulting requirement specifications serve as the base for high-quality software. This software meets the customer's requirements and keeps the costs within the specified budget.

We can also take care of the project management and controlling in order to secure your goals: Effectiveness – «Doing the right things» – Efficiency «Doing things right»:

- Organisational design of the Project
- Planning of the project performance, schedules, resources, costs
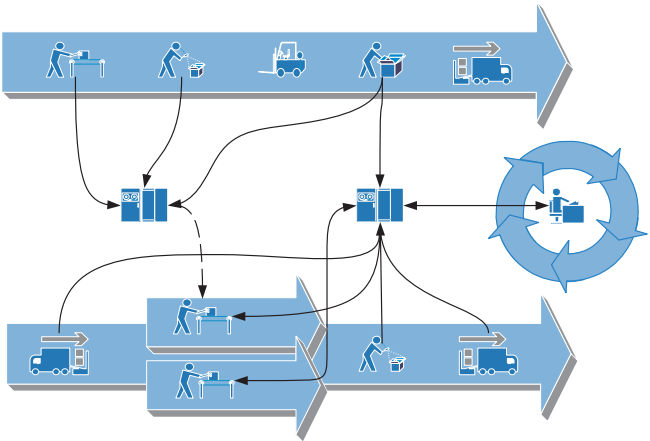- Tasks, competence and distribution of responsibility

Specification properties

- Unambiguousness
- Consistency
- Unambiguousness
- Risk orientation
- Completeness
- Understandability
- Verifiability

SOFTWARE DESIGN

Based on the customer requirements, Antrimon begins with the creation of a software concept. The software architecture to be designed, which represents a fundamental part of the software design, determines the essential quality criteria of the overall system. In this phase the necessary interfaces to external systems and dependencies on hardware components are considered. In addition, Antrimon incorporates the customer's infrastructure and know-how during the development of the architecture.
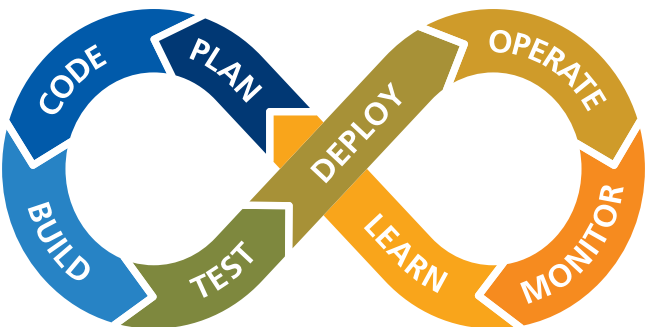

Aspects of a good architecture
- Reusability
- Extendibility
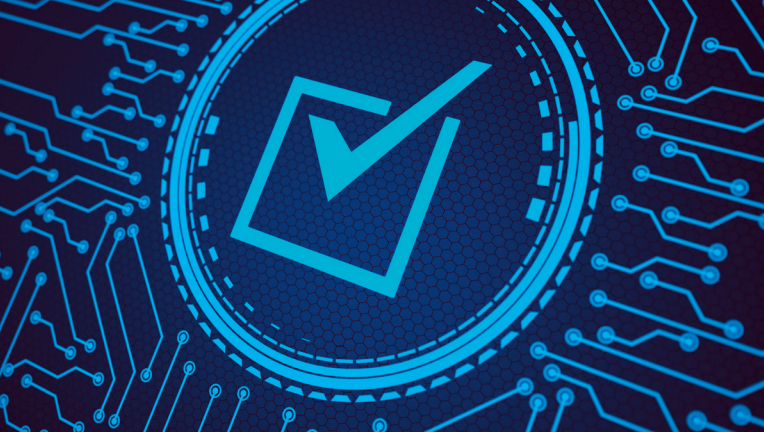- Exchangeability
- Portability

SOFTWARE DEVELOPMENT

Following a detailed architecture and design phase,
Antrimon implements the specifications in software. In doing
so, Antrimon realizes the importance to close cooperation
with the customer to be able to promptly accommodate
subsequent requests for changes. This service is only possible
if the software architecture has been designed according to
the aspects of extendibility or exchangeability respectively.
Apart from development according to the classic V-model,
Antrimon also offers the agile development process.
The agile working method is suitable for dynamic projects
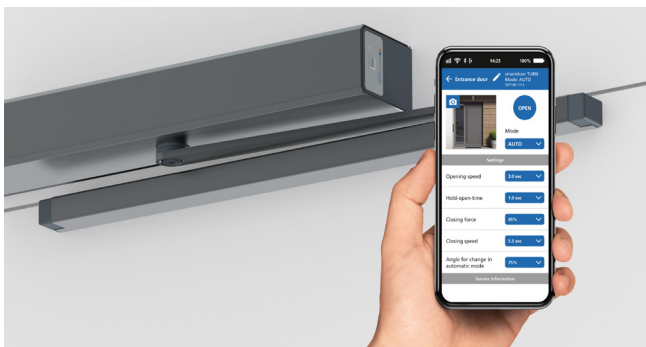where the customer would like to react flexibly to
needs and requirements.

Highlights from the agile manifesto
- Customer satisfaction through continual software delivery
- Use changes as competitive advantage for the customer
- Delivery functioning software at regular intervals
- Produce technical excellence, good design and simplicity

SOFTWARE TEST

Continuous testings accompanying the development phase ensures a high quality product. Antrimon continuously adapts the intensity of the tests and their depth to the customer's market needs. In accordance with the V-model, Antrimon offers test possibilities at each stage of the development. The spectrum ranges here from simple unit and module tests through to the fully automated testing of complex mechatronic systems.

Test possibilities according to the V-model
- Unit and module tests
- Integration tests
- Test of complete mechatronic systems
- Acceptance tests

ANALYSIS, DESIGN AND CODE REVIEWS

Reviews of both design and code are an important part of every development. In time-critical projects, a review of the essential constituents and their design is indispensable. When critical problems can be found at an early stage time-consuming and costly development loops can be prevented. As an external partner, Antrimon can support you with your reviews or take care of them completely. Thanks to our impartial and neutral position we can assess and evaluate the concepts and software from a new perspective.

reddot design award
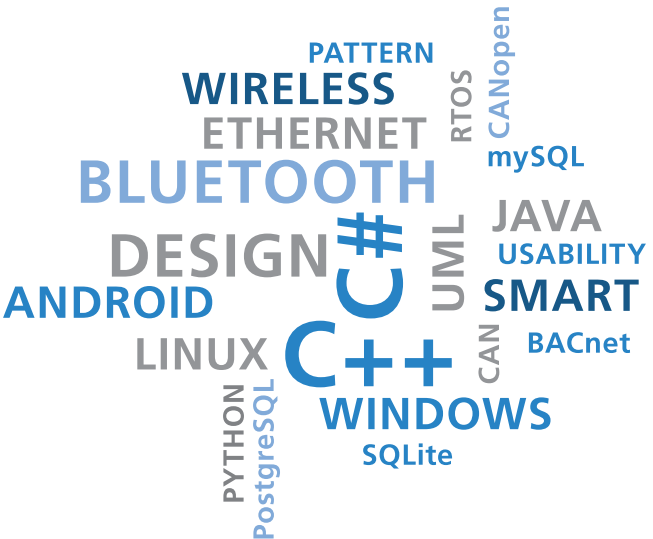
Range of services
- Design and architecture reviews
- Reverse engineering
- Review workshops
- Software documentation

TECHNICAL COMPETENCE

Because of many years of experience and a large number of projects, Antrimon has a high degree of technical competence:

- Relational databases such as SQLite | PostgreSQL | MySQL
- Non-relational databases (NoSQL) such as Redis
- Frameworks such as Spring | Vaadin | Net | Castle | ORMs
- IoT by means of Akka (microservices)
- Cloud by means of Spring-Cloud
- Security such as oauth2 | Spring-Security

PATTERN
WIRELESS
ETHERNET
RTOS CANopen
mySQL
BLUETOOTH
DESIGN C# UML JAVA
USABILITY
ANDROID SMART
LINUX C++ CAN BACnet
PYTHON PostgreSQL WINDOWS
SQLite

antrimon

**Gotthard 3 –
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Mechatronics**
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