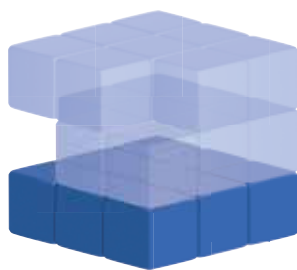# emlix yocto framework

Efficient yocto development with building blocks

emlix makes its yocto workbench with its adaptable building blocks, its reliable processes and its well-tried toolchain available to its customers. The solution, based on many years of project experience, forms a solid and reliable framework on which companies can build their yocto development. It avoids classic yocto pitfalls and sets the groundwork for many years of efficient maintenance.

Based on an easily adaptable infrastructure, multi-platform-capable embedded Linux systems can be developed in a short space of time. The focus lies on the key requirements of an industrial software system: reusability, hardening, reproducibility, maintainability and security as well as reliable version control of the entire platform.
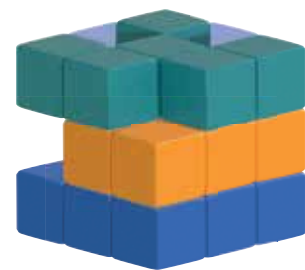
As a result, companies have the opportunity to develop efficiently and sustainably, with a high degree of predictability and cost control.

emlix yocto workbench	standardised building blocks	application specific use cases

Cost-efficient and reliable development

Our services for getting started with a reliable, maintainable Yocto environment include:

- KickOff workshop for project configuration
- Setup of the platform-specific yocto workbench
- Low complexity bottom-up approach
- Development based on standardized building blocks (e.g. networking, container engine, update engines)
- Use of tried-and-tested tooling (CI/CD, testing)
- Development within defined processes
- Version management, security and maintenance right from the start

- Consideration of application-specific use cases (optional)

The yocto workbench significantly lowers the technical barrier to develop a longterm maintainable yocto-based embedded Linux platform. The whole system can be seamlessly integrated into your own development. It provides a reliable basis for feature extensions and maintenance. In this way, companies benefit from the flexibility of the yocto project and reduce their own project risks at the same time.

Yocto engineering services

emlix yocto engineering services are meant for customers, who wish to delegate optimization and extension as well as the long-term maintenance of their embedded Linux platform to a reliable partner. This includes migrating and updating existing yocto systems, for example to improve security level and maintainablility. We are happy to discuss your yocto- / Linux-based project during a scoping workshop.

emlix has extensive project experience in the design, development and maintenance of industrial, hardened yocto systems. We unlock the benefits of the yocto Project for our customers and convert them into a reliable yocto platform.

We are also happy to support you in the implementation of complex embedded Linux-based solutions and platforms which use other distributions, build systems and CI/CD pipelines.

„With emlix as a competent partner, we were able to realize an important step towards secure cloud solutions in the industrial environment in the area of trusted computing platforms. The professional security concept and the porting of the web service to Yocto Embedded Linux offer us significant advantages in terms of reproducibility, maintainability and control of the system.“

Tim Borowski, Software developer
Schenck Process Europe GmbH

Find out more about an easy approach for development with the emlix yocto framework. Our yocto experts will be happy to provide consulting.
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