

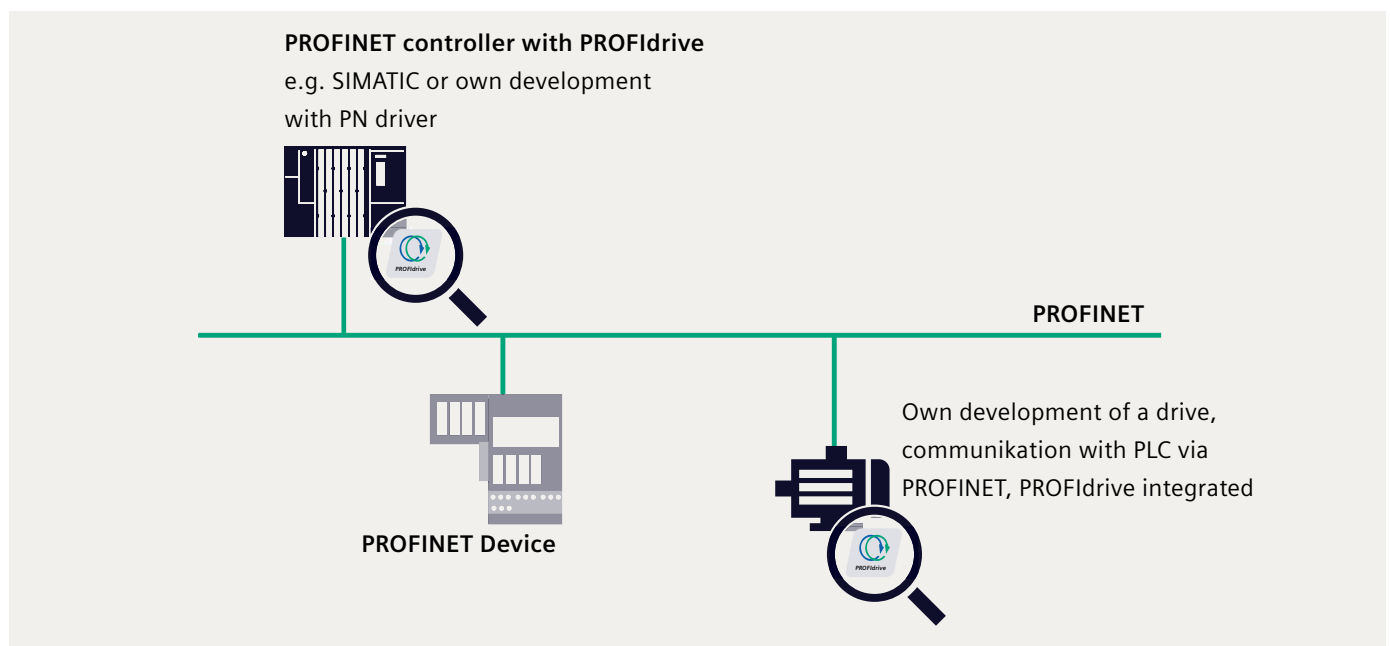
PROFINET PROFILE FOR DRIVE CONCEPTS

PROFIdrive – implement drive concepts quickly and easily

Reduce your engineering and commissioning time: PROFIdrive defines the device behavior and access procedures to internal device data for electric drives on PROFINET – from simple frequency converters to high-performance servo controllers. The drive interfaces are kept as simple as possible and free of technological functions.

PROFIdrive describes a standardized drive interface that was specified for PROFIBUS and PROFINET. This application-oriented profile, which is also standardized according to IEC 61800-7, includes standardized parameters (syntax and semantics) for communication between drives and automation systems, thus ensuring independence from any specific manufacturer.

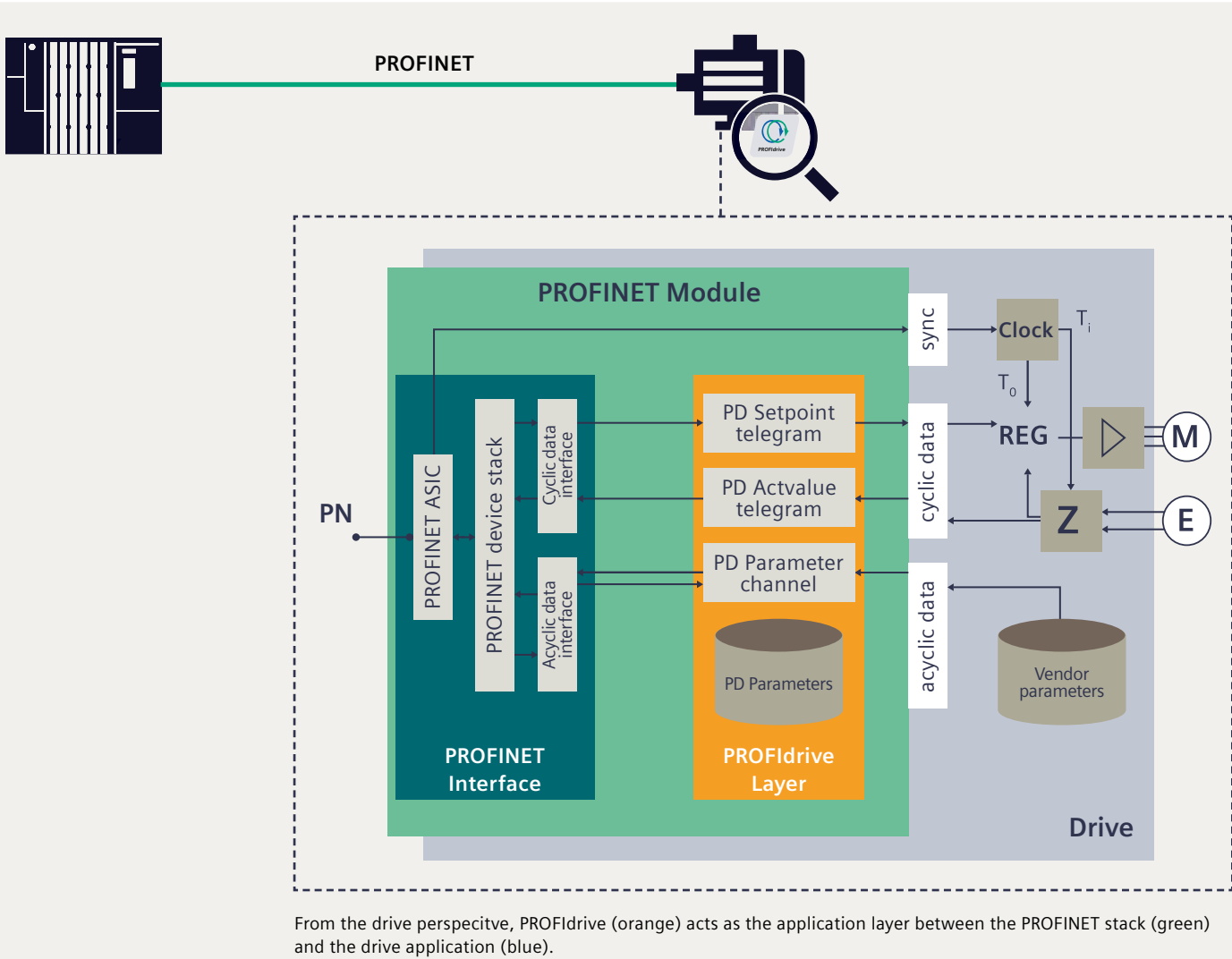
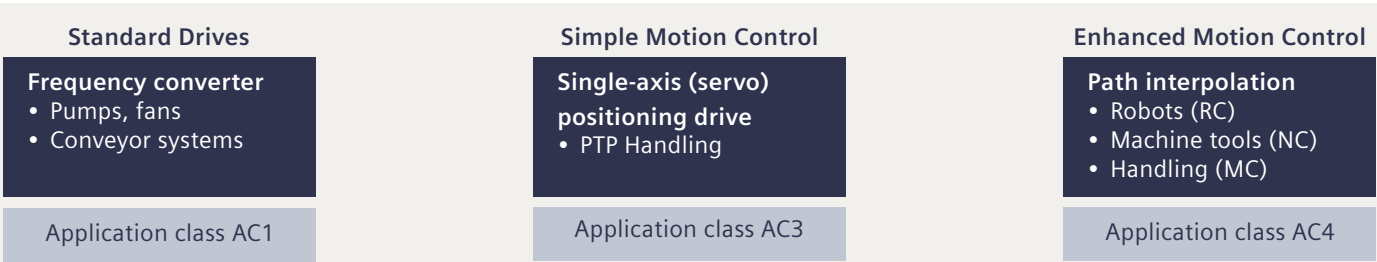
The PROFIdrive application profile forms the basis for numerous drive tasks in industrial automation technology. It defines device behavior and the process of accessing drive data from electric drives, and also perfectly incorporates the additional PROFIsafe and PROFInergy profiles.



Sample applications

Drive technology on PROFINET uses the PROFIdrive profile for a standardized data exchange. The sample applications provide device developers with all the functions necessary for creating a drive for PROFIdrive AC1 (application class 1) or AC4, or so that these can be addressed as PROFINET controllers.

Example 1:
Drive development with PROFIdrive for ERTEC 200P-2
[> Download the PROFIdrive sample application](#)



Target group
The target group for the sample applications is software and application developers who want to use the Evaluation Kit for new products with the PROFIdrive profile or want to port the sample implementation of the PROFIdrive profile to another PROFINET hardware platform.

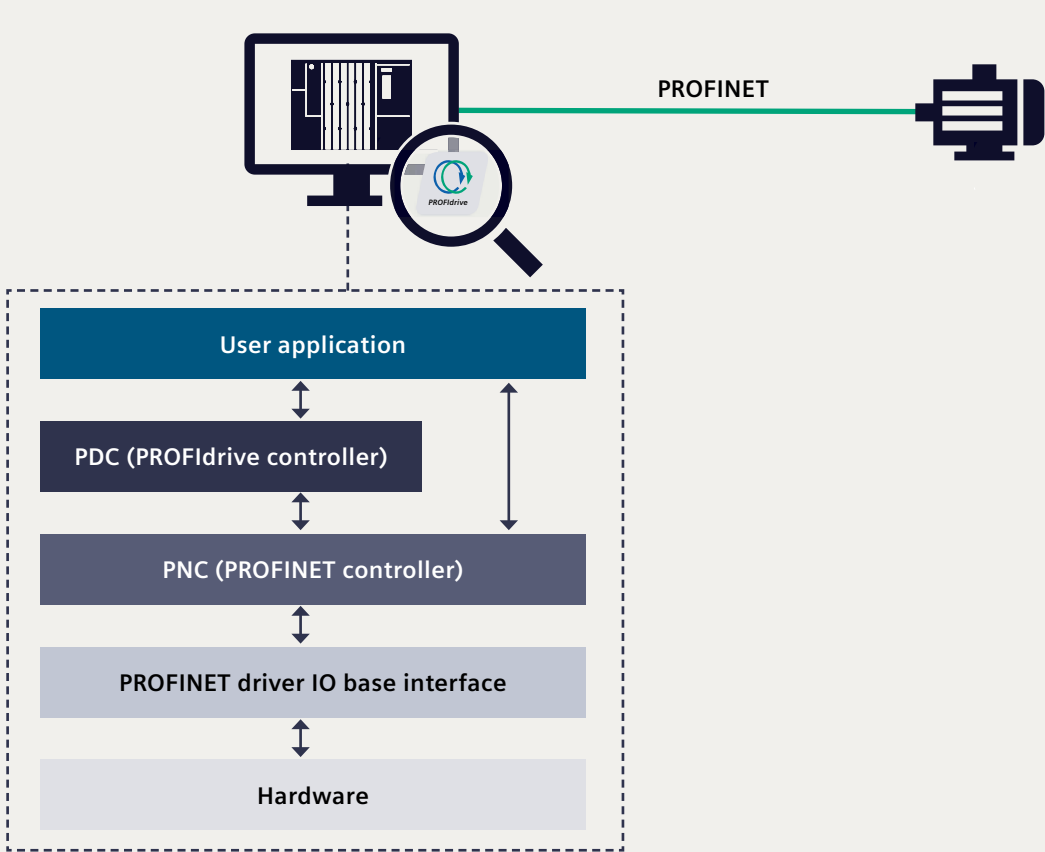
Requirement
The example runs on an ERTEC 200P-based platform, but can be migrated to other communication stacks. Good knowledge of PROFINET IO and PROFIdrive is required to be able to use the PROFINET firmware stack and PROFIdrive sample application.

Beispiel 2:
PROFINET controller development with a PROFIdrive profile and PROFINET driver
With the help of the PROFIdrive controller sample application, users can easily create their PROFINET driver applications with motion controllers that support the PROFIdrive feature. All standard PROFINET and PROFIdrive functionalities are provided with easy-to-use interface functions.

[> Download the PROFIdrive sample application](#)

Target group
The target group for the sample applications is software and application developers who want to develop a PROFINET controller with a PROFIdrive profile.

Requirement
The sample application runs on PROFINET Driver V2.3. For PROFINET over IRT communication (e.g. for AC4), a CP1625 is also necessary.



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