

Profibus Überblick



Profibus – Ein Überblick

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References:

- <http://de.wikipedia.org/wiki/Profibus>
- <http://www.profibus.com/>
- http://www.profibus.com/imperia/md/content/pisc/technicaldescription/4001_vOktober2002-German.pdf
- <http://www.profibus.com/technology/profibusdocu/index.html> (Bilder dieses Vortrags)

Profibus - Inhalt

- Basics
- Übertragung und Kommunikation
- Applikationsprofile
 - Spezifische Applikationsprofile
 - Systemprofile
- Gerätemanagement
- Qualitätssicherung

Profibus - Überblick

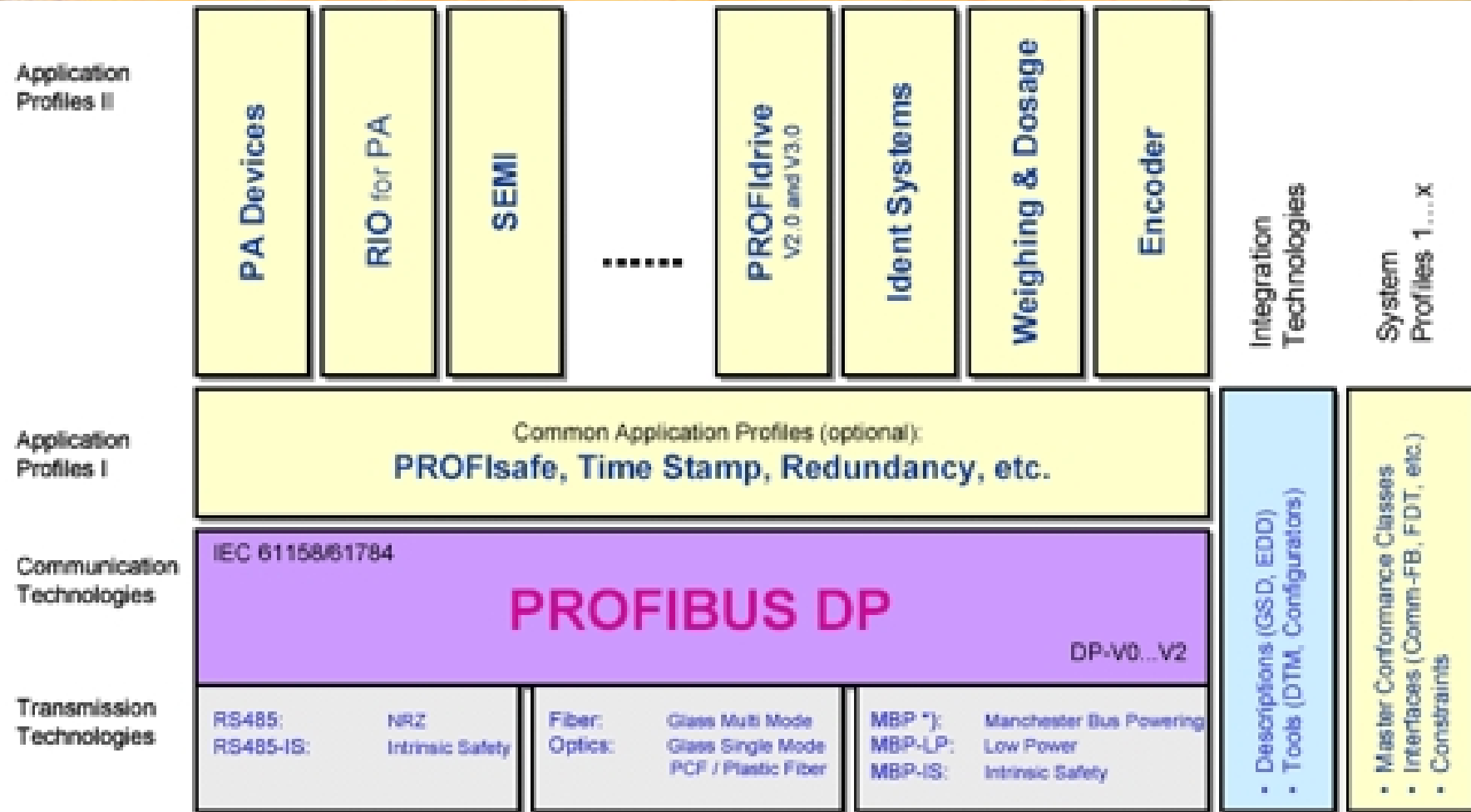


Fig. 3: Technical system structure PROFIBUS

Transmission Technologies

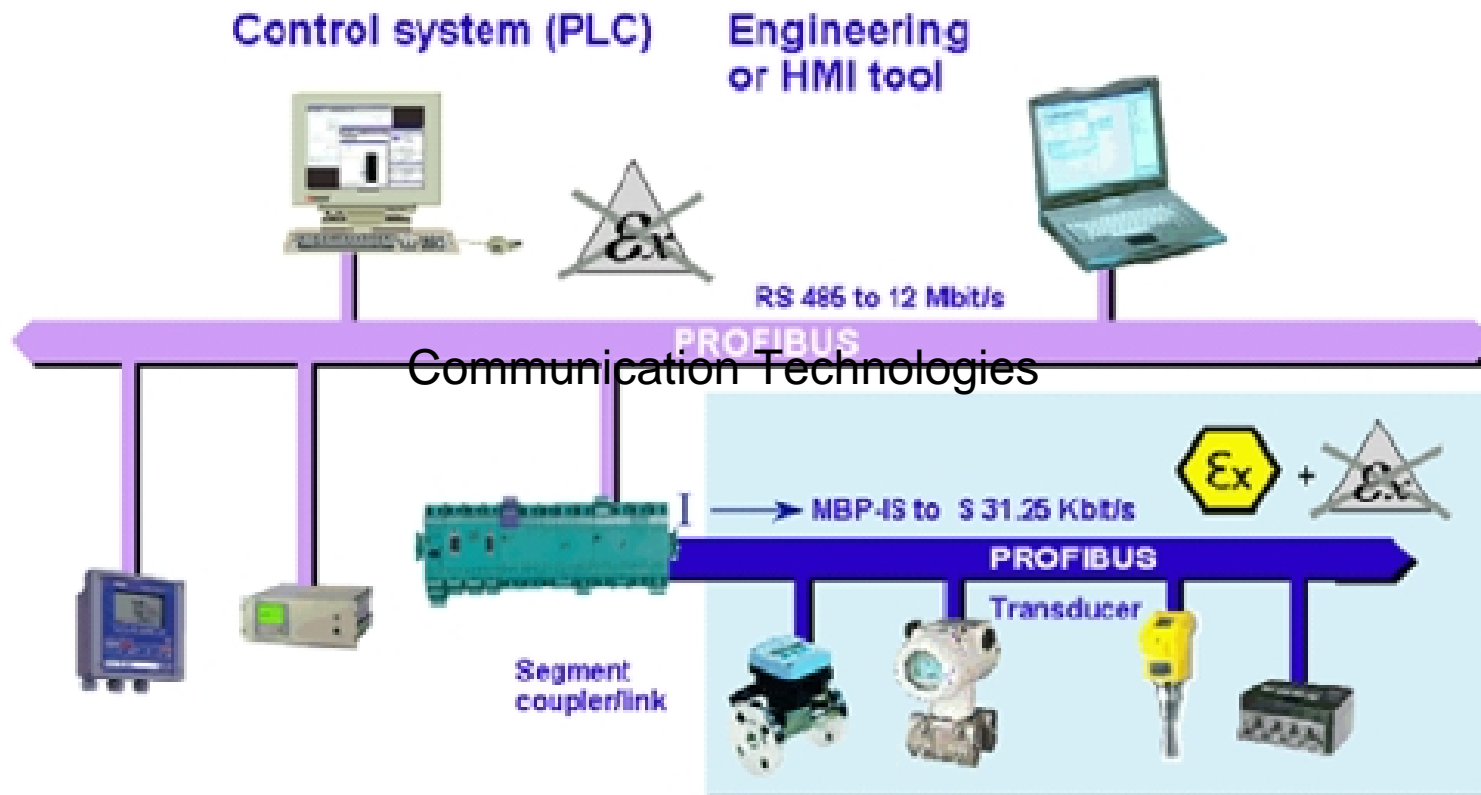


Fig. 7: Plant topology and bus powering of field devices using MBP transmission technology

Communication Technologies

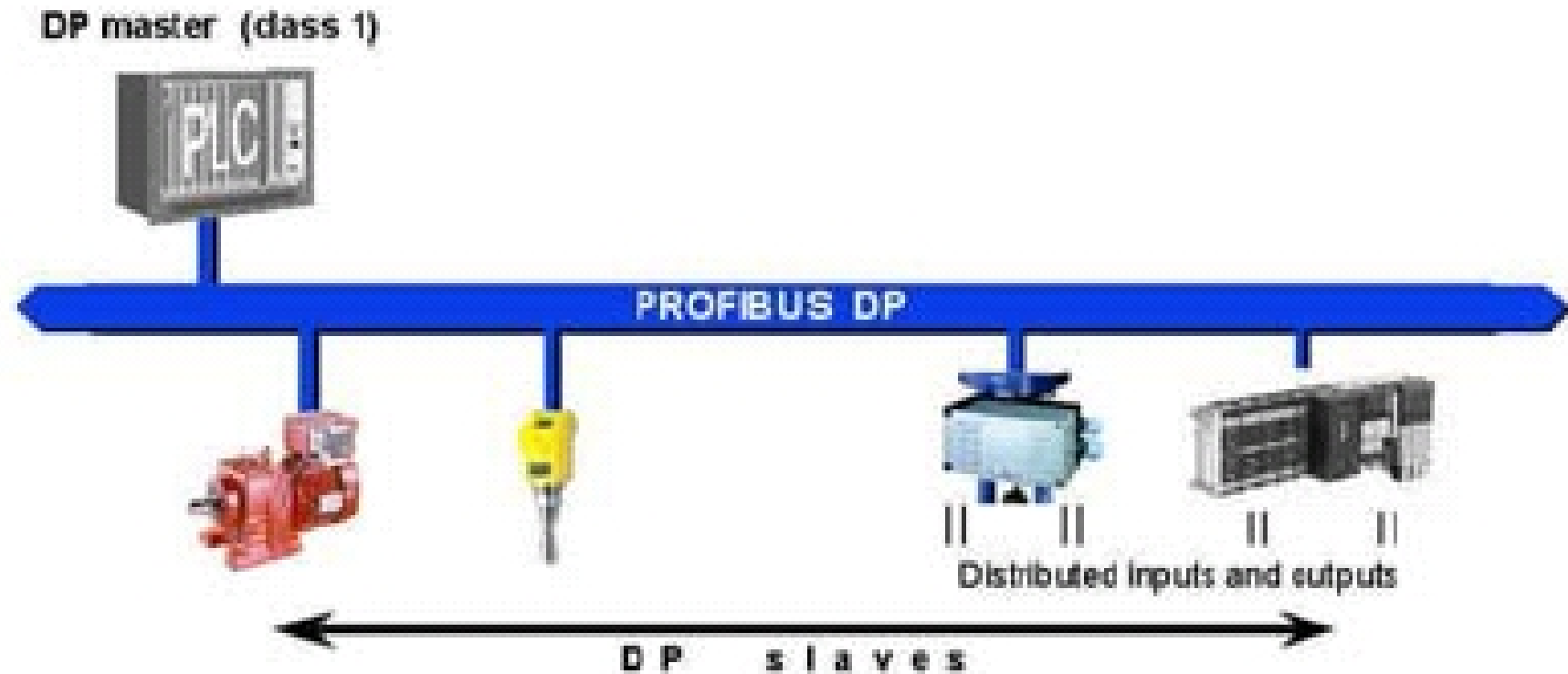


Fig. 10: PROFIBUS DP mono-master system

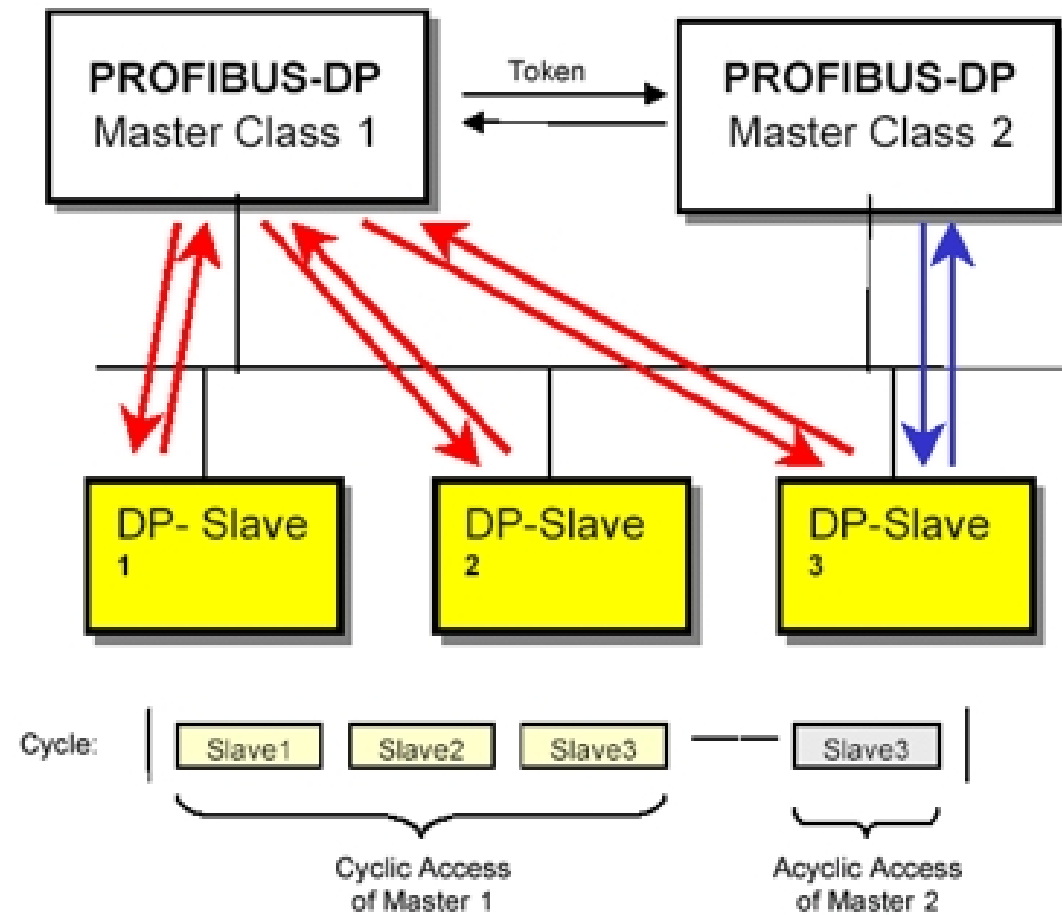


Fig. 13: Cyclic and acyclic communication in DP-V1

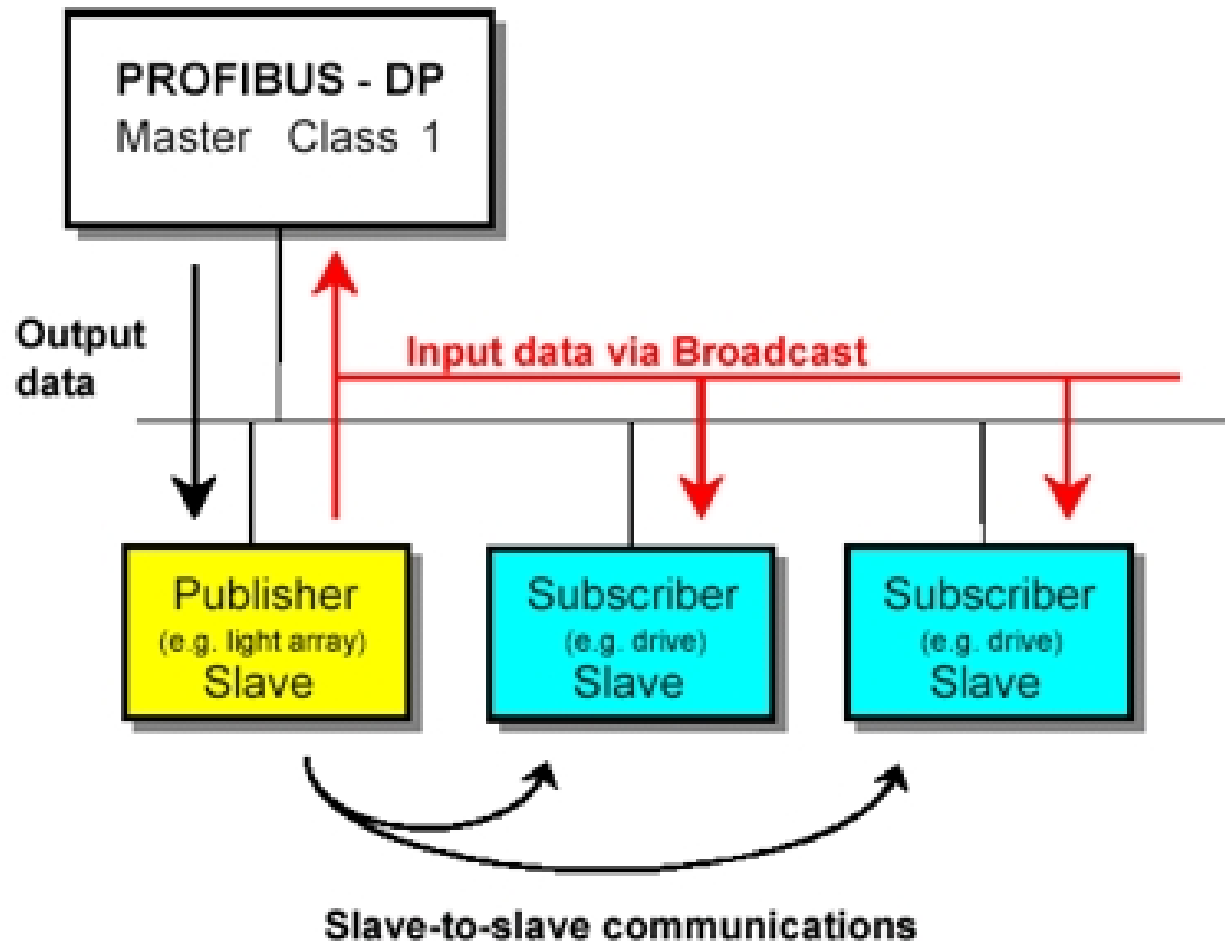


Fig. 15: Slave-slave data exchange

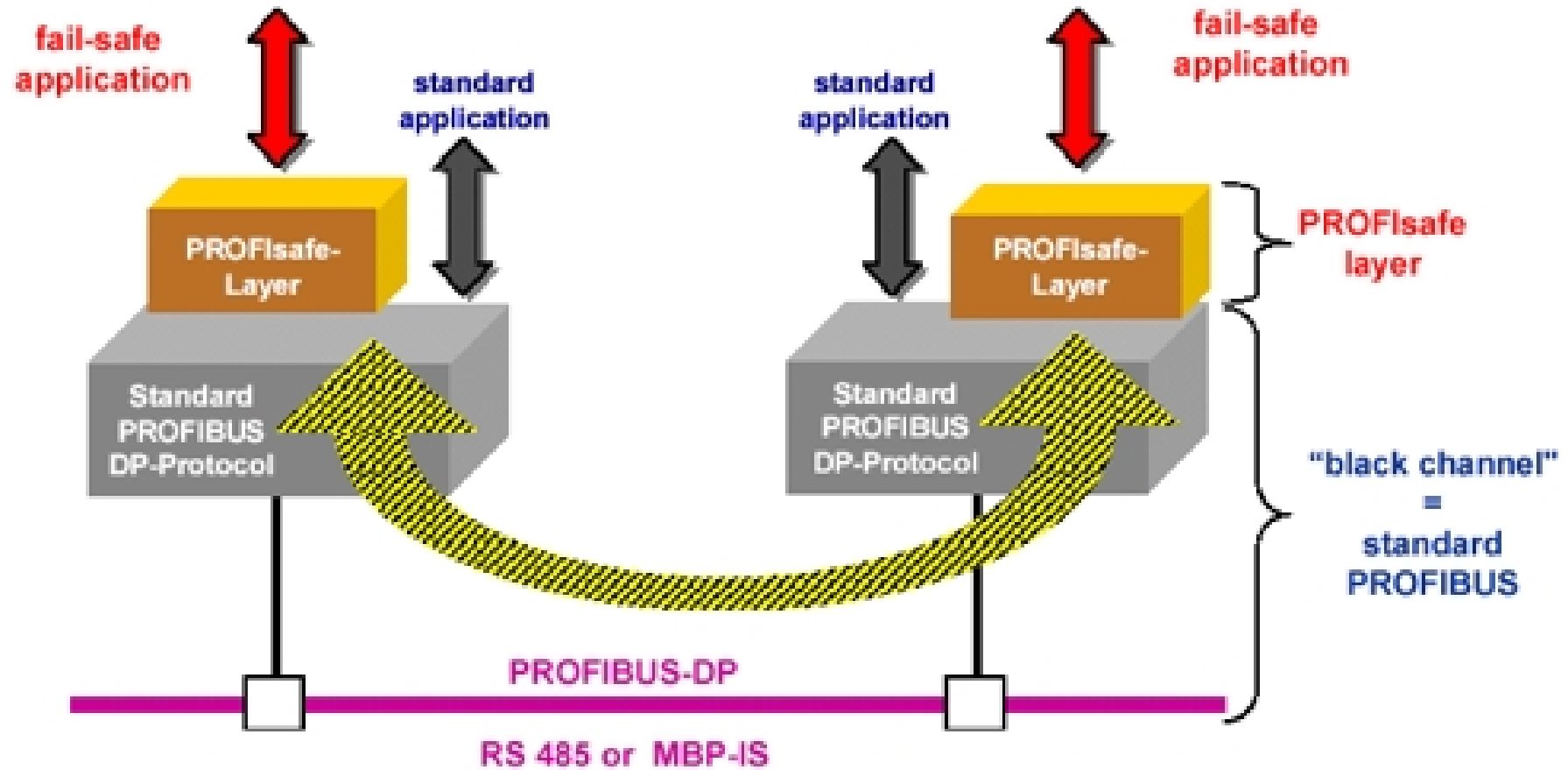


Fig. 17: Fail-safe mode with PROFIsafe

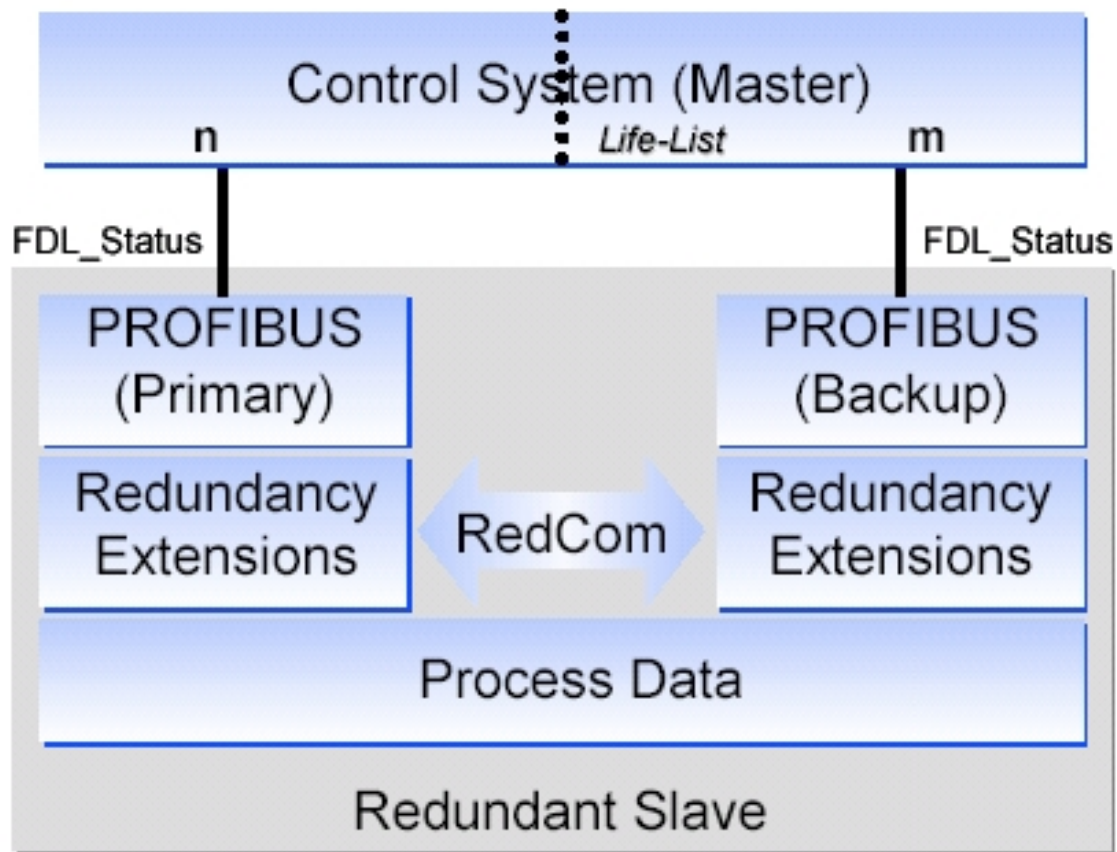


Fig. 20: Slave redundancy in PROFIBUS

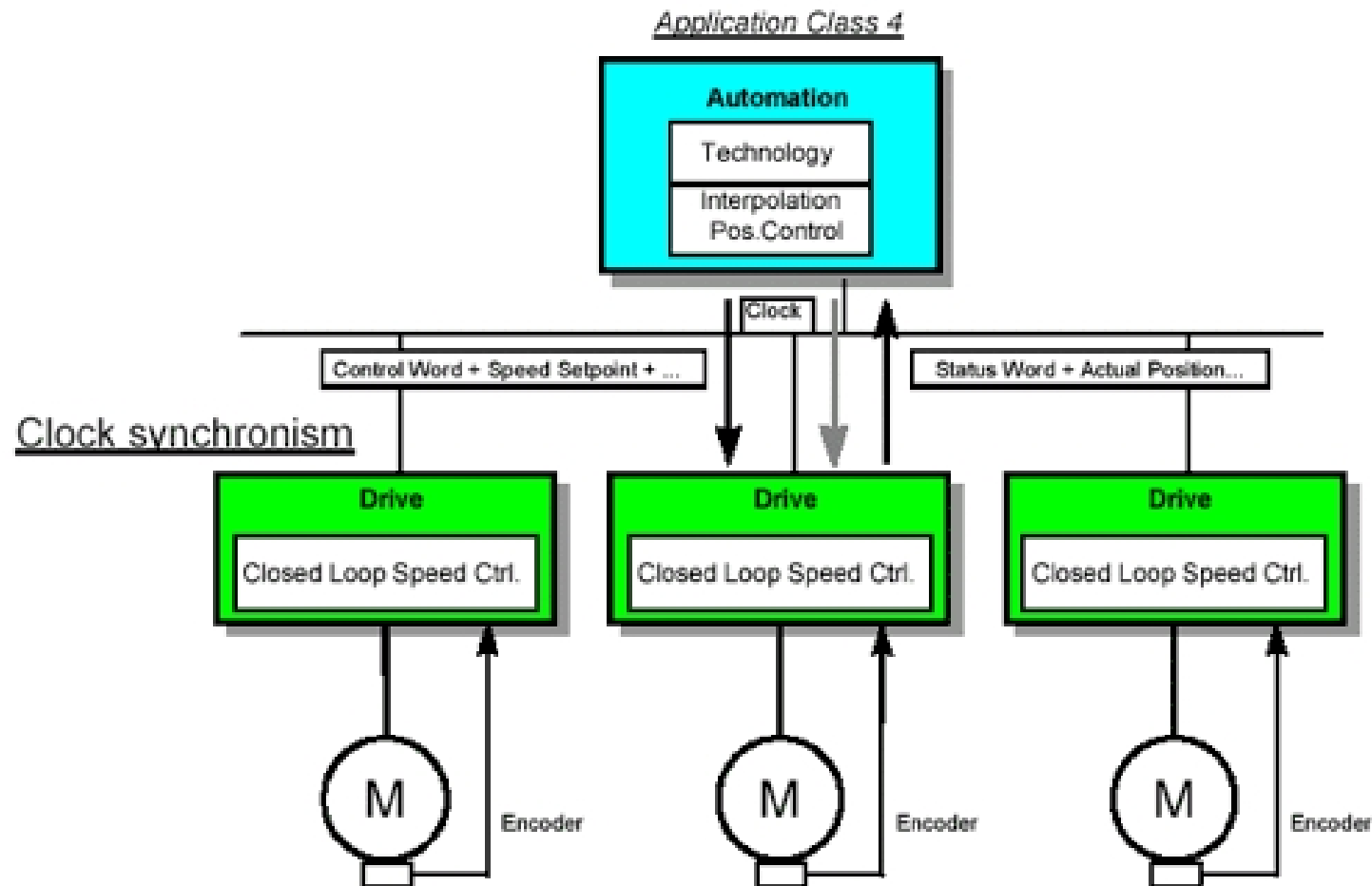


Fig. 21: PROFIdrive, positioning with central interpolation and position control

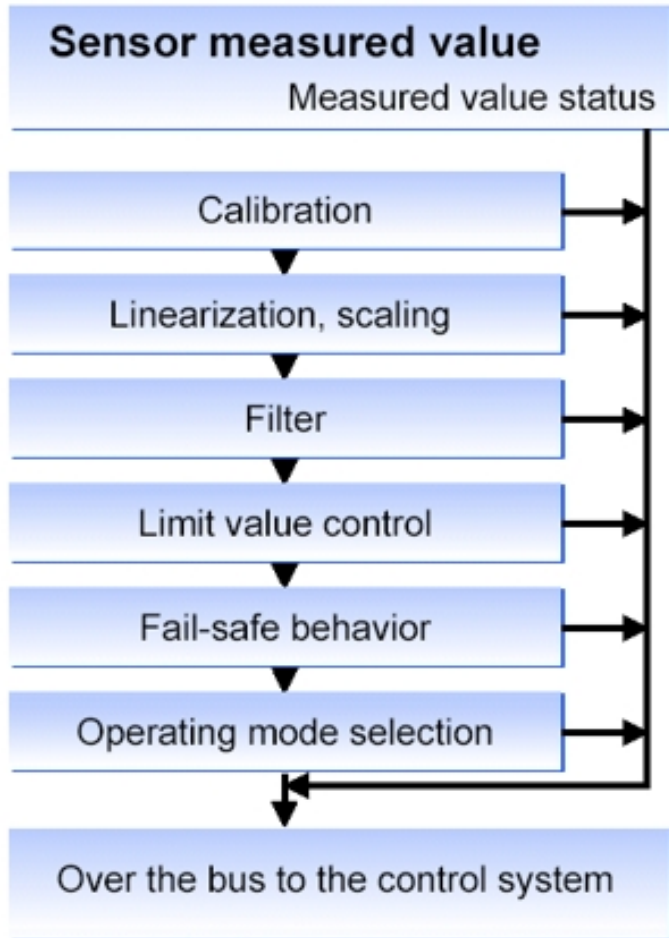


Fig. 25: Signal chain in the PA device profil

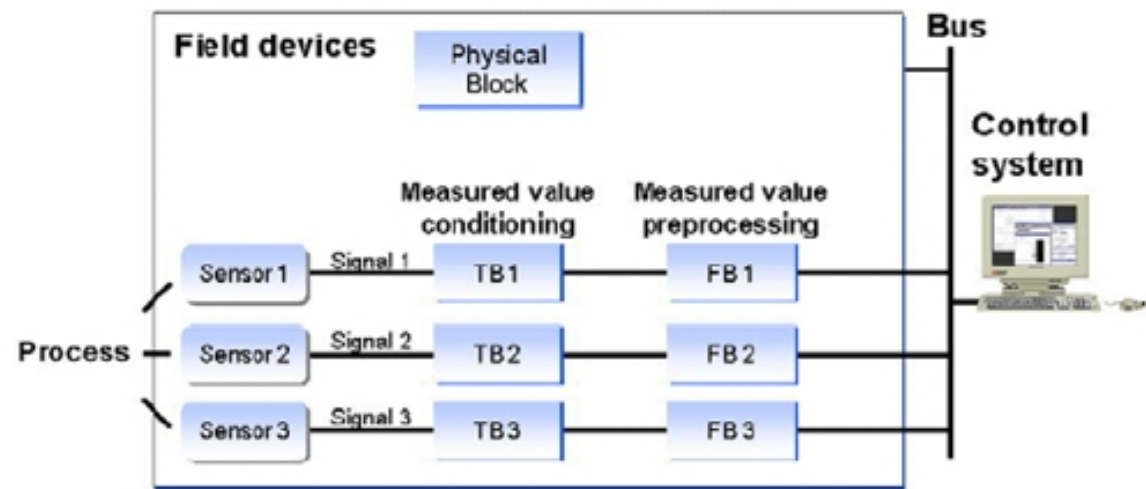


Fig. 22: Block structure of a field device (with multifunctionality)

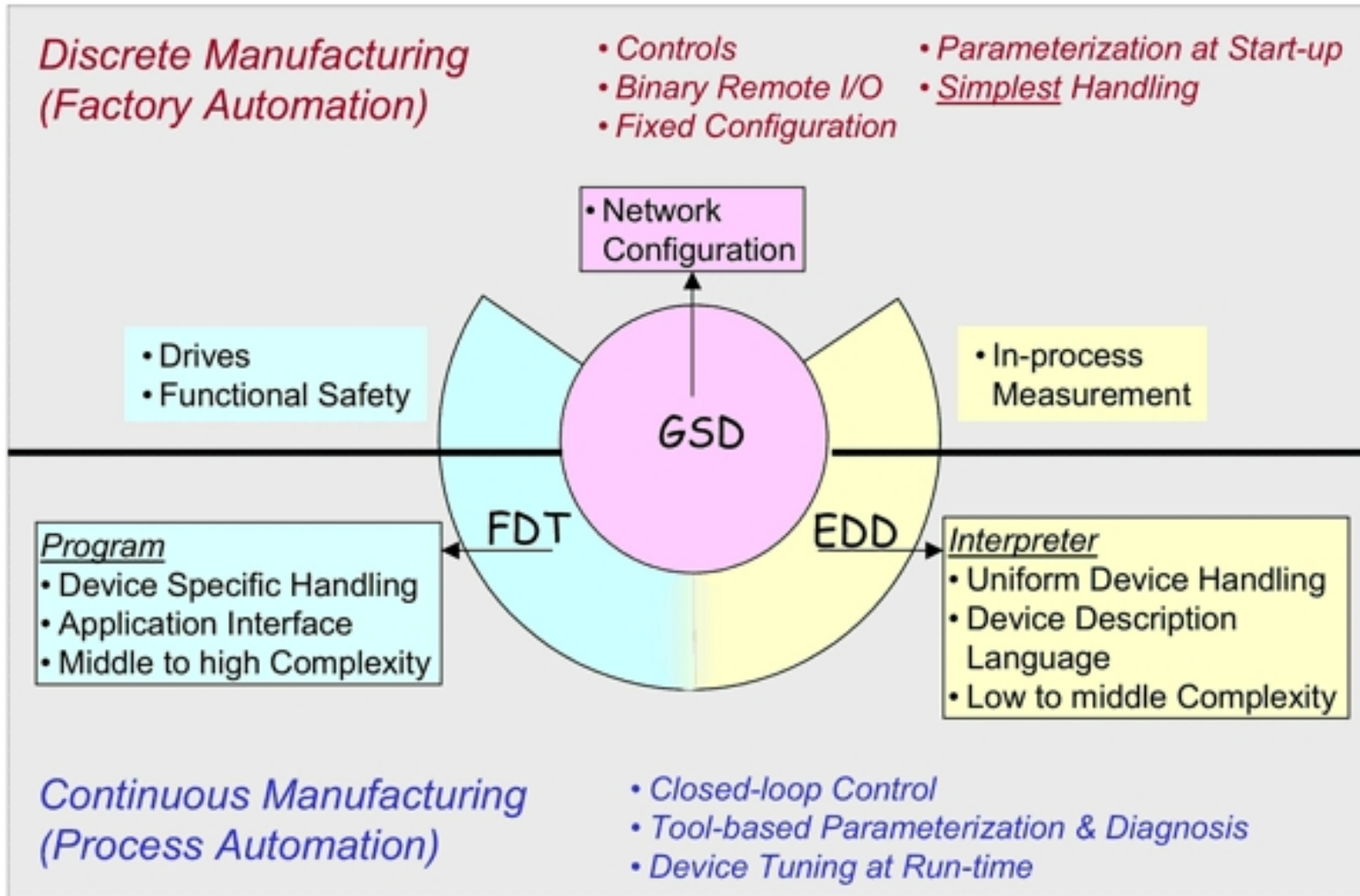




Fig. 35: Device certification procedure