



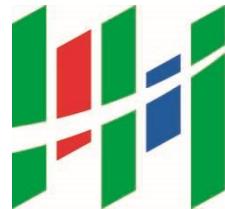
Next Chapter of Hot Mill Automation

New Interfaces for IPC based solution

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Creating the future of metals



Siemens VAI Metals Technologies

- More than 60 years of metallurgical, engineering and plant-building experience
- Strong emphasis on R&D and introduction of numerous innovations
- Worldwide sales organization and global engineering

Mitsubishi-Hitachi Metals Machinery (MHMM)

- More than 2,200 plants installed worldwide with proven record of reliability and cost-effectiveness
- In-house manufacturing expertise
- Strong sales setup and engineering competence, particularly in growing Asian countries

OWNERSHIP

51% Mitsubishi-Hitachi Metals Machinery Inc.¹
49% Siemens

GLOBAL BUSINESS FOCUS

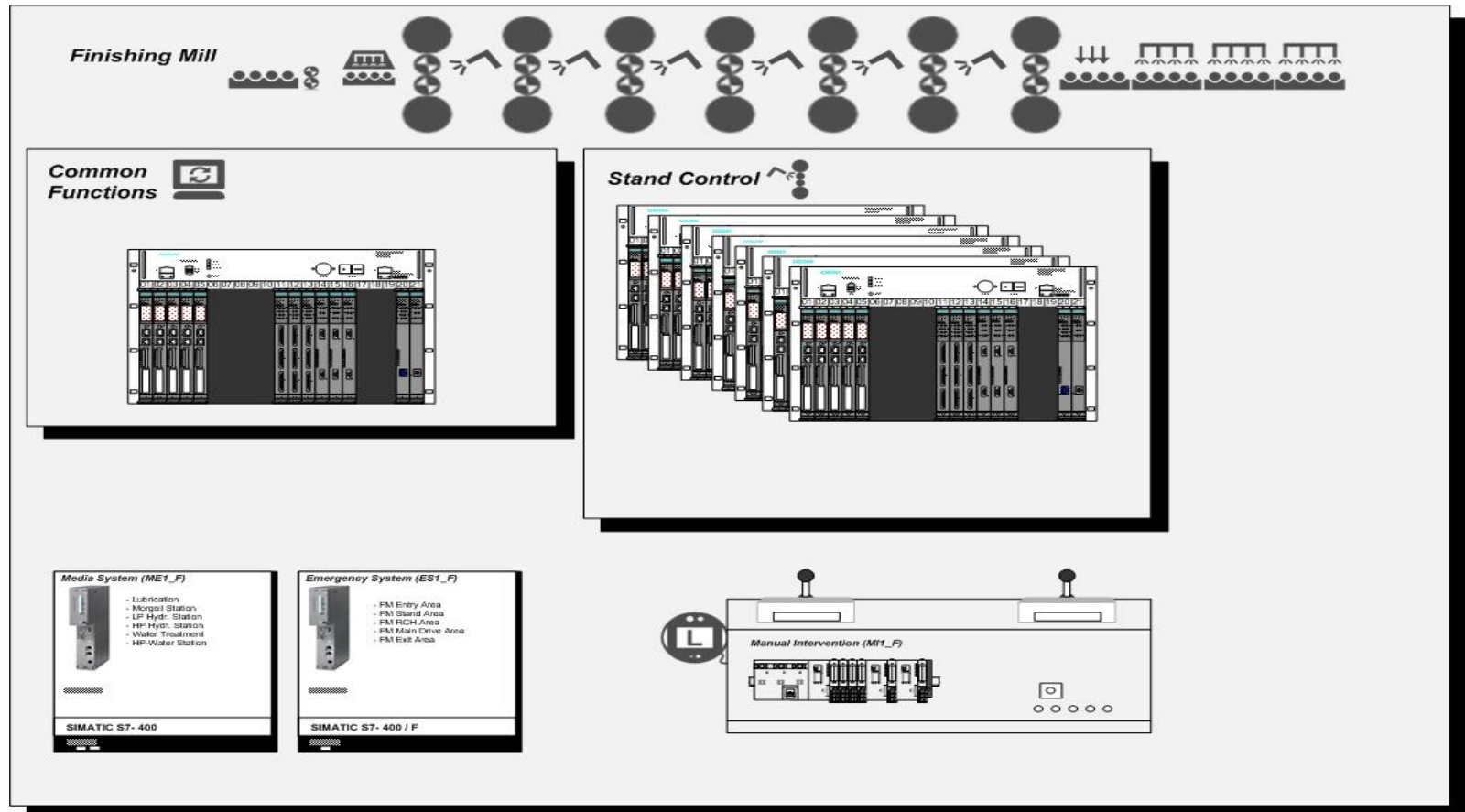
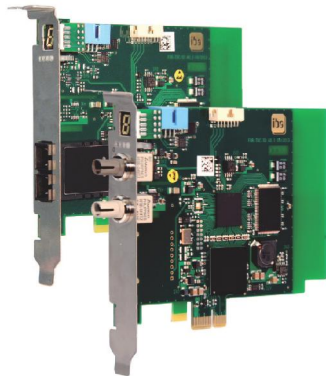
Supplier of advanced processes, technologies, plants, products and services for the iron, steel and nonferrous industries

COMPREHENSIVE TECHNOLOGY AND PRODUCT PORTFOLIO

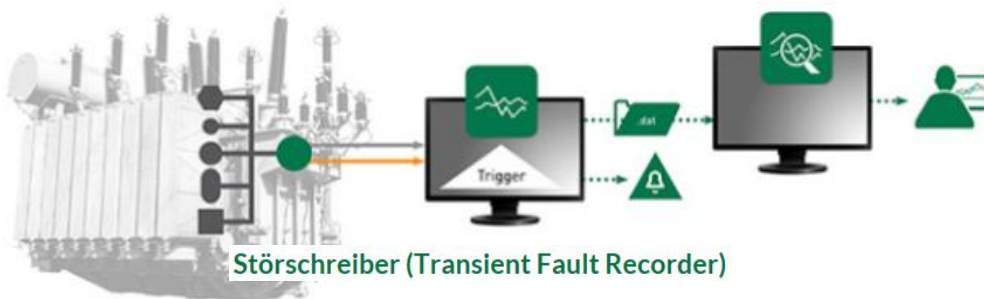
for totally optimized and integrated processes along the entire metals value chain

1) a Mitsubishi Heavy Industries consolidated group company with equity participation by Hitachi, Ltd. and IHI Corporation.

Current solution + Interface



Usage of iba-System's within Primetals



Next Chapter of HM Automation with IPC 627D

Solution Features:

- Software executable on S7 platform
- Graphical programming interface
- PROFINET communication link as well as PROFISAFE
- State of the art HMI interface
- Answers for modernization projects

IPC Features:

- High end industrial PC
- Intel Xeon E3 processor
- Very high system availability and data security due to
 - Solid-state drive (SSD) with 240 GB
- Flexible control cabinet installation with high user friendliness and assured characteristics, such as 55 °C ambient temperature.



Einsatzfelder der verschiedenen Schnittstellen

Request-S7 über ibaBM-PN

Sehr Zeitkritisch
Hohe Deterministik gefordert
~ > 1 ms

z.B. Anstellungsregelung

Request-S7-UDP

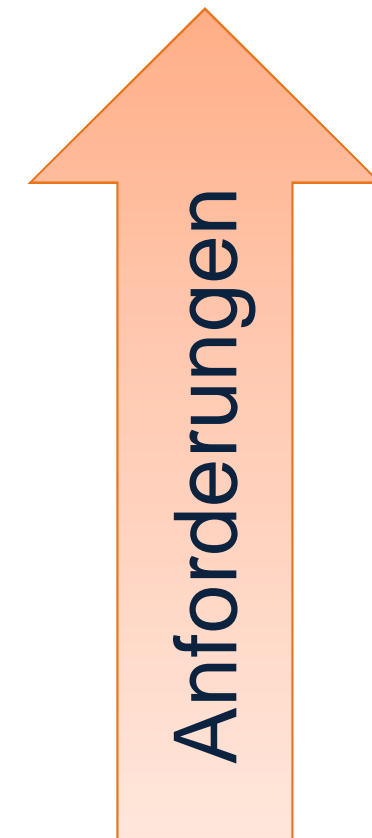
Etwas Zeitkritisch
Geringe Deterministik gefordert
~ > 10-20 ms

z.B. Work roll shifting

S7-Xplorer

Nicht Zeitkritisch
Keine Deterministik gefordert
~ > 50 ms

z.B. Mediensteuerung



ibaPDA Konnektivität im Vergleich

„TDC solution“



SIMATIC TDC

Mit GDM:

Request-TDC über FOB-TDC(exp)

Ohne GDM:

Request-TDC über FOB-SD(exp)

SIMATIC S7-400 (punktuell)

S7-Analyzer

Request-S7 über PROFIBUS (ibaBM-DPM-S)



„S7 based solution“



SIMATIC WinAC auf IPC-Plattform und SIMATIC S7-400 (punktuell)

Request-S7-UDP

über UDP (ibaPDA-Interface-S7-TCP/UDP, ab V6.34)

Request-S7

über PROFINET (ibaBM-PN, in Entwicklung)

S7-Xplorer

über TCP/IP





THANK YOU ... see you on METEC 2015