

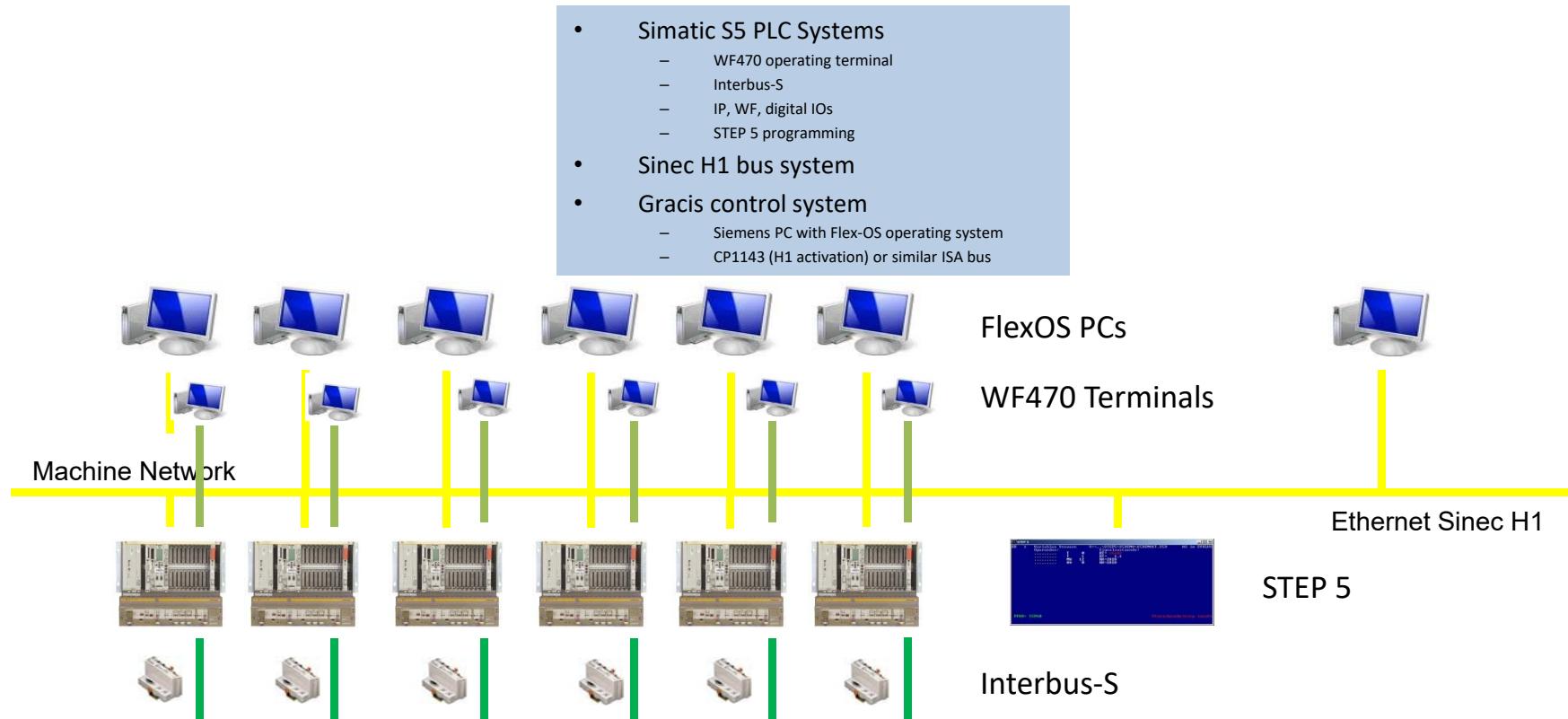


Integration of an analysis and data-management system

Plant modernisation with

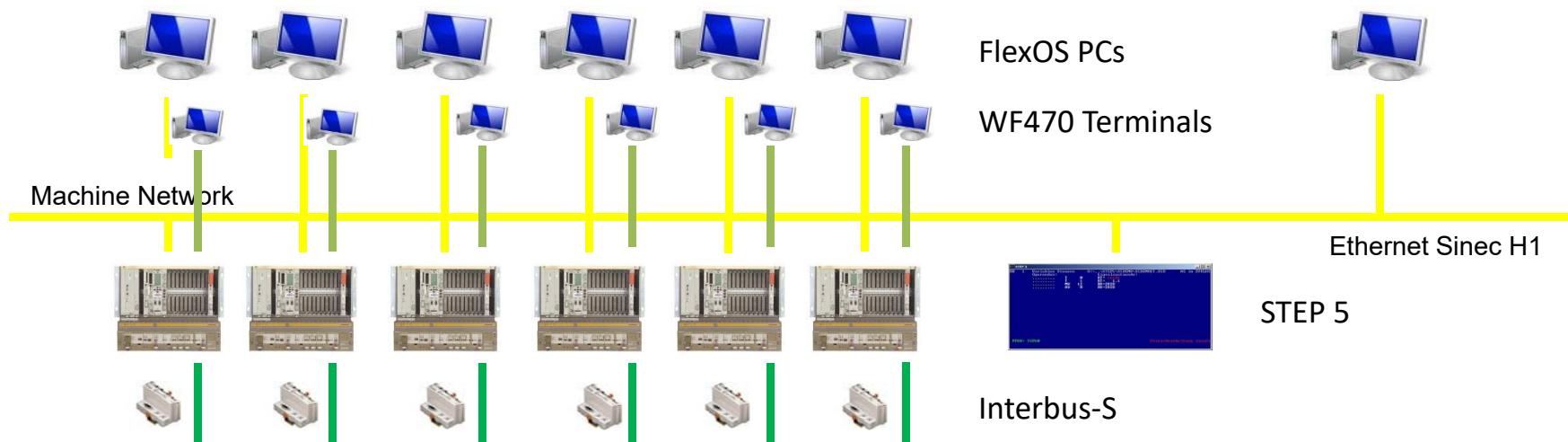
ABC IT Systems

Current Condition



Current Condition - Assessment

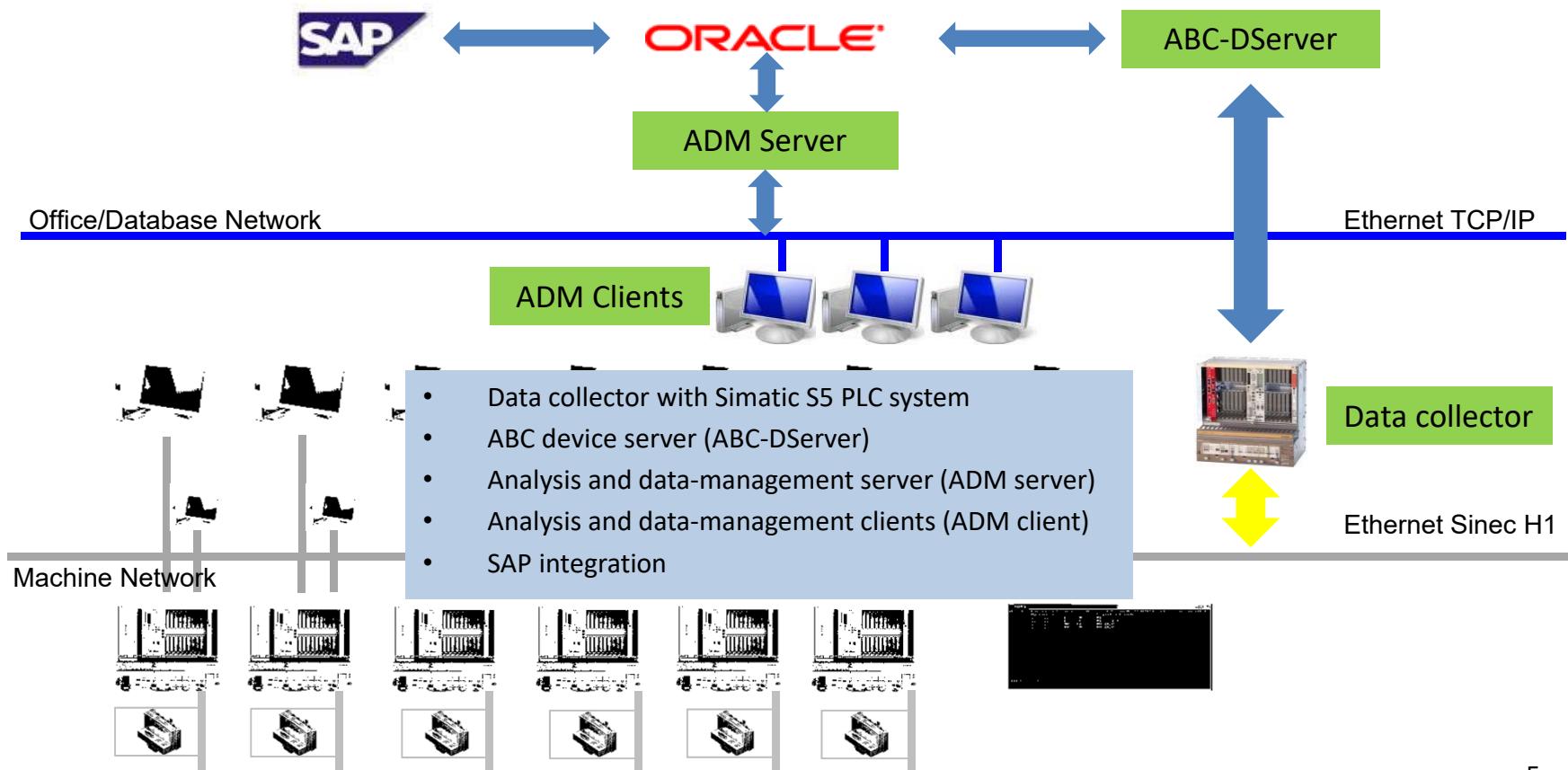
- The integration of an analysis and data-management system is not possible with the existing infrastructure.
- All components used here are out of date, they are being discontinued and spares are only difficult or even impossible to procure.



ABC retrofit - concept

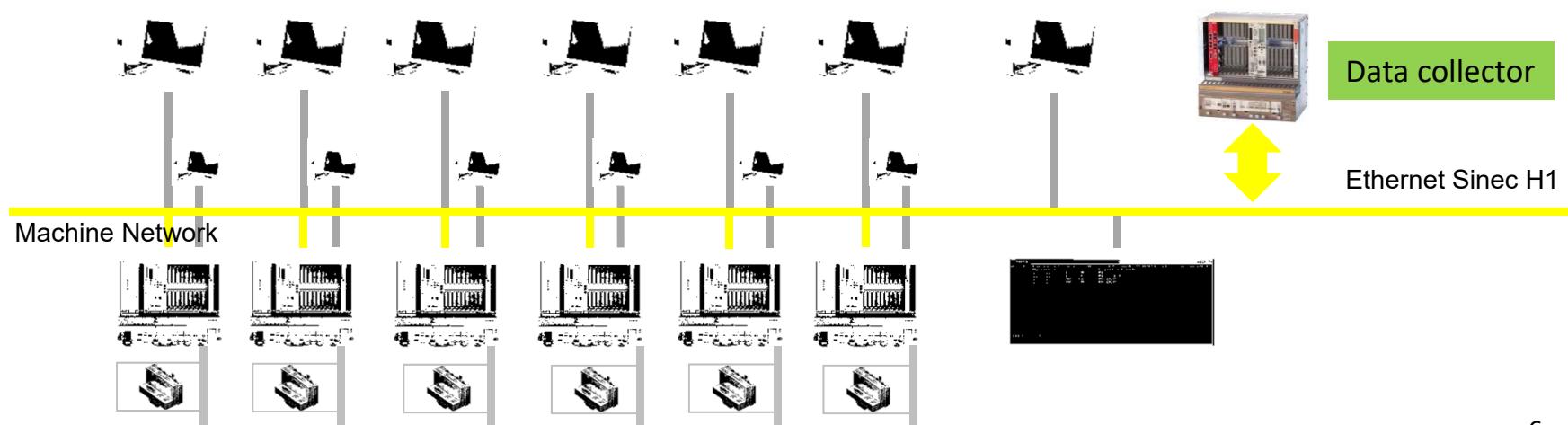
- ✓ The ABC retrofit concept constitutes the basis for the expansion and modernisation of Simatic S5 system controls.
- ✓ The costs for the individual modernisation and conversion phases may be precisely specified (cost control).
- ✓ Systems will be modernised according to the state-of-the-art over a planned period of time (planning reliability).
- ✓ No additional system downtimes during the individual phases of modernisation.

1. Integration of an analysis and data-management system

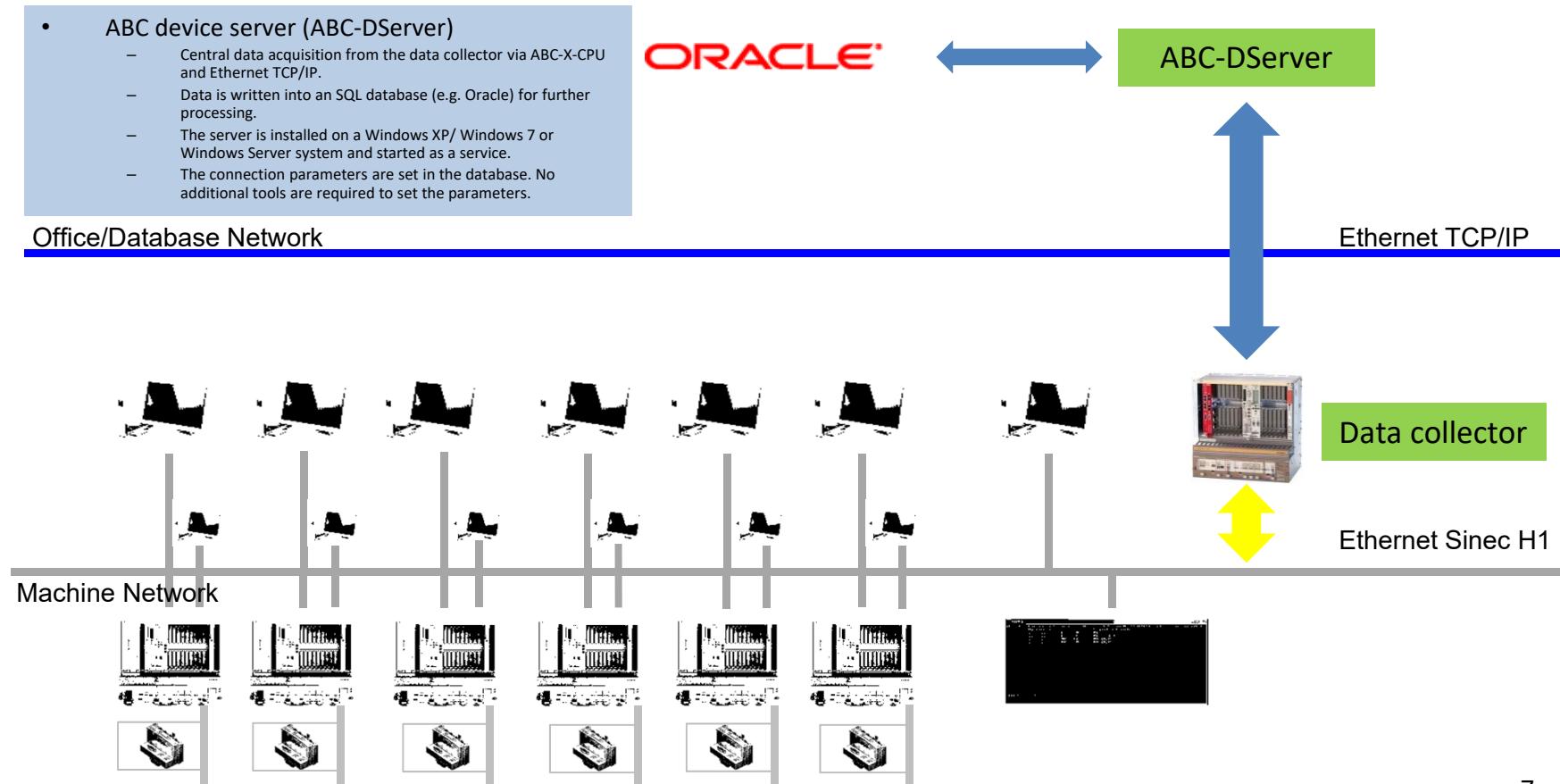


Step 1.1

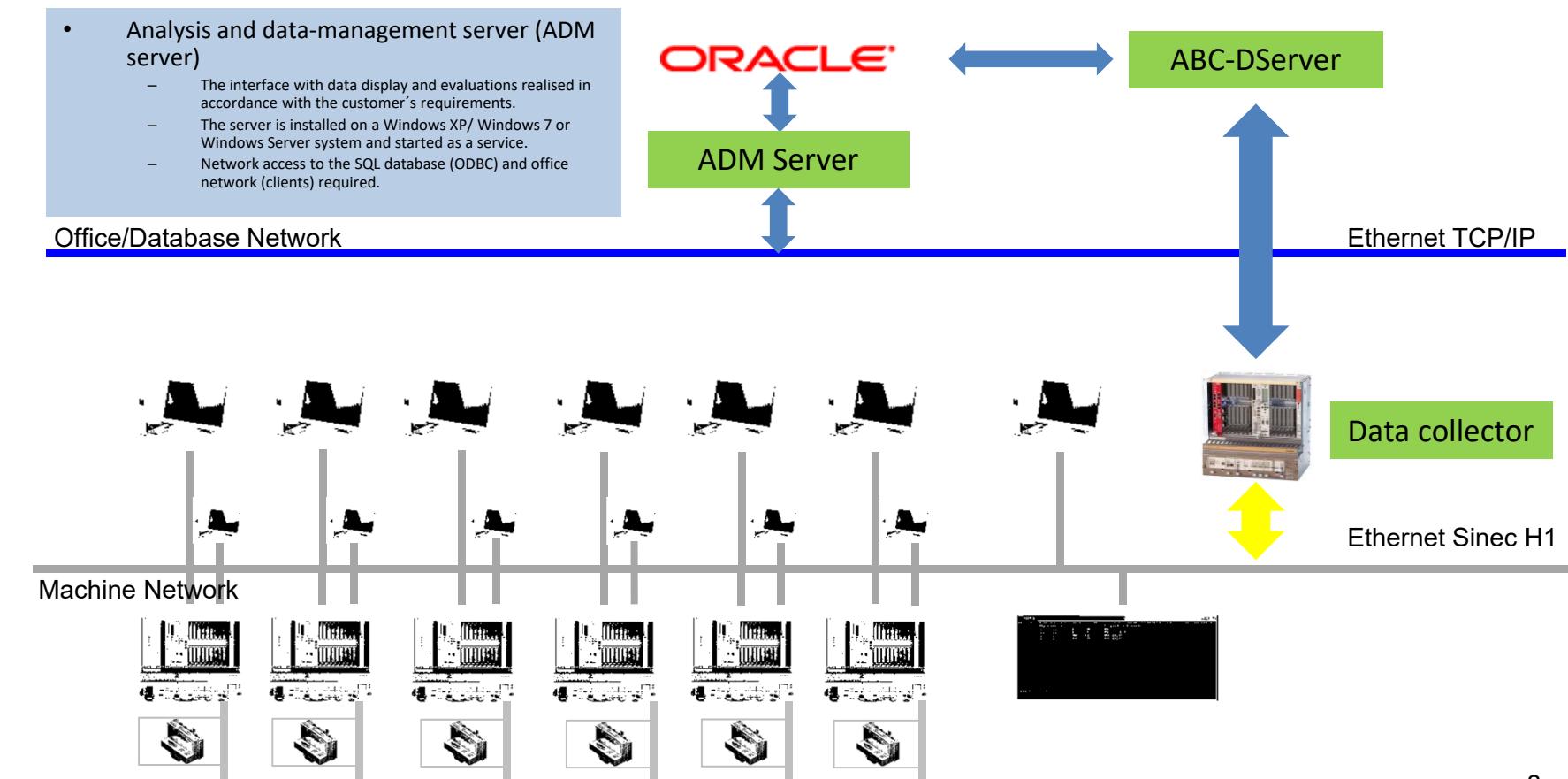
- Data collector with Simatic S5 PLC system
 - Simatic S5 rack (from spare parts)
 - ABC-X-CPU (new)
 - CP143 (Sinec H1) (from spare parts)
 - Expansion of the connection project in the individual cells
 - No program customisations necessary
 - Data points must be known



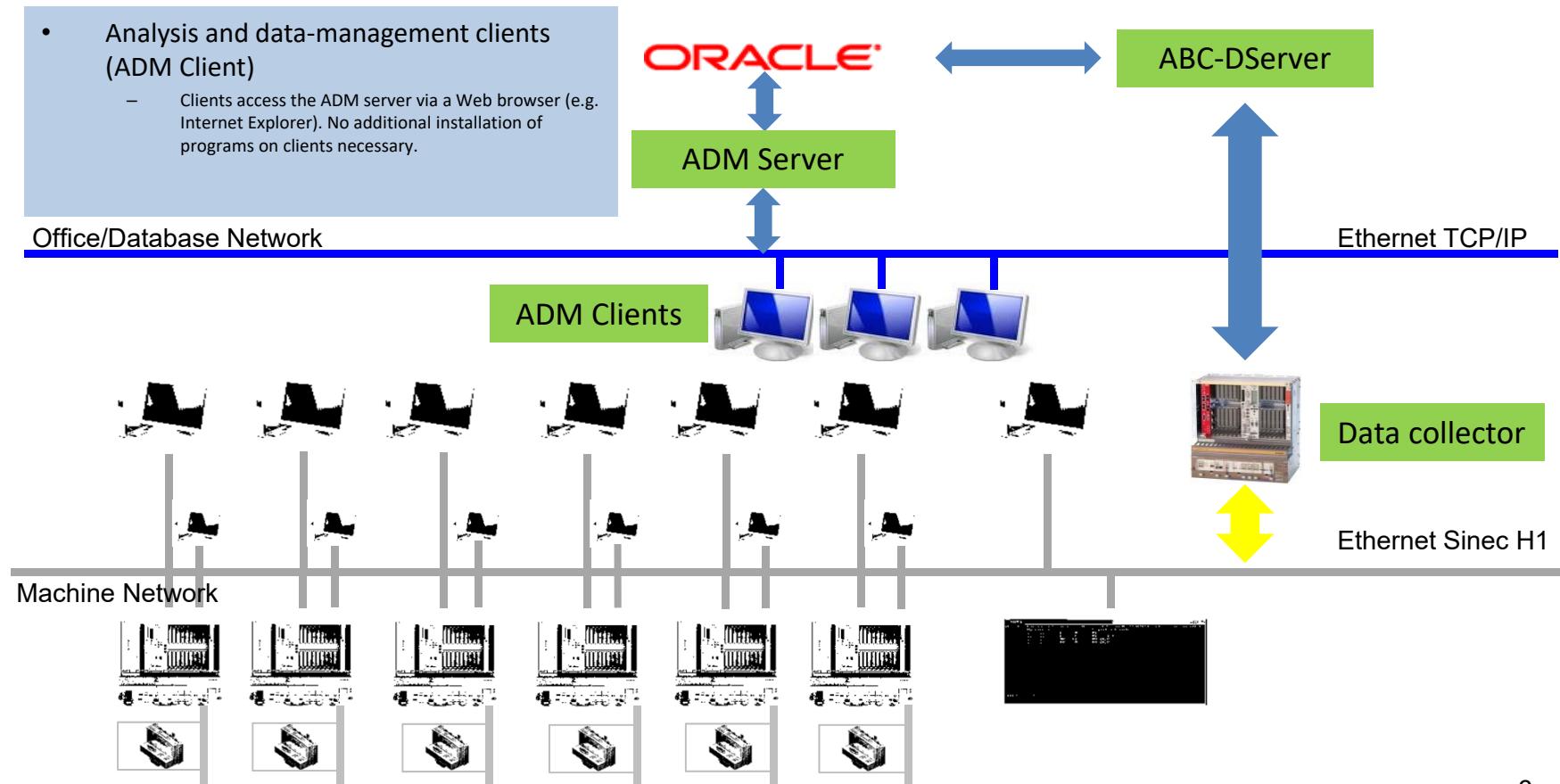
Step 1.2



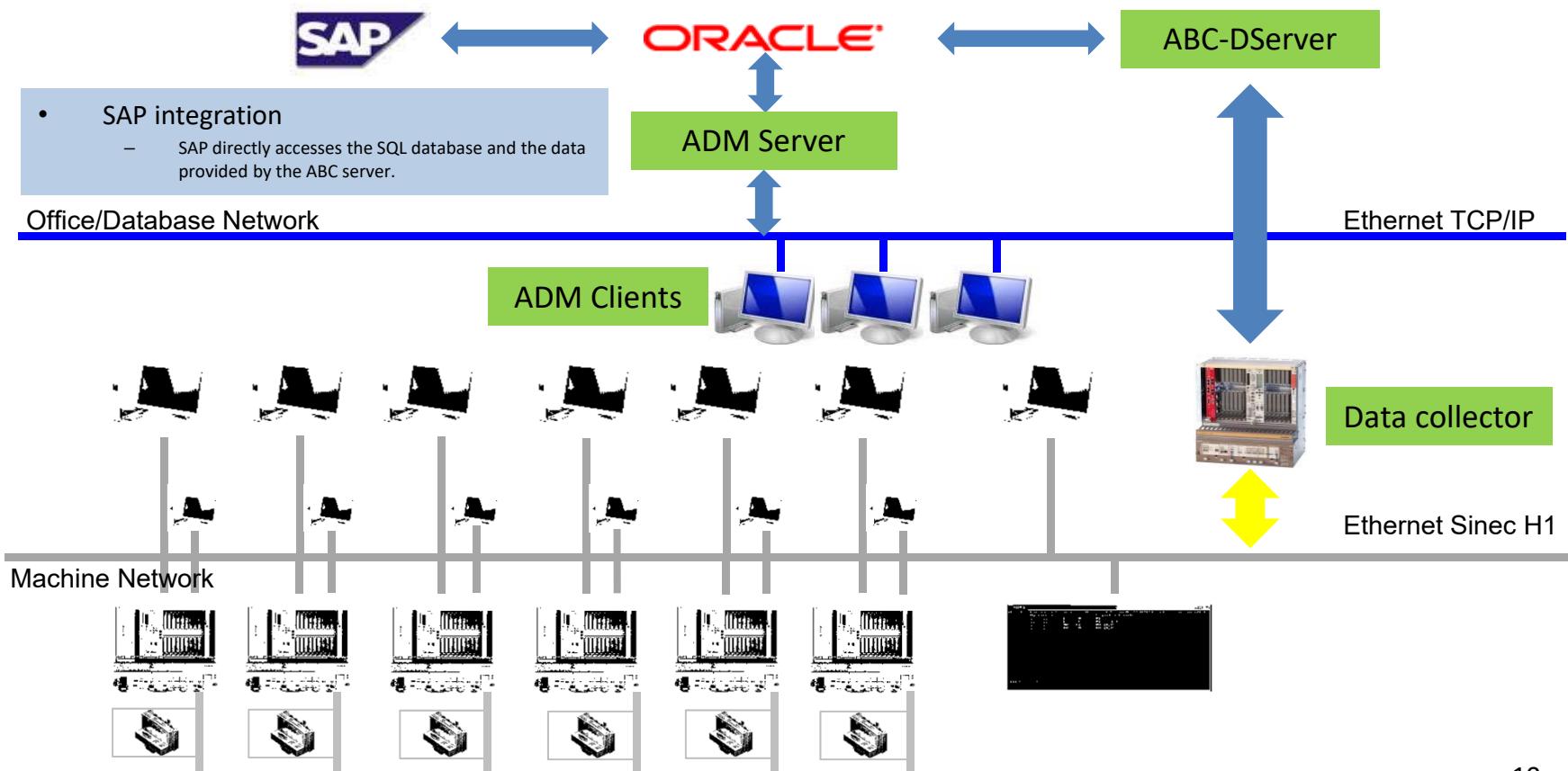
Step 1.3



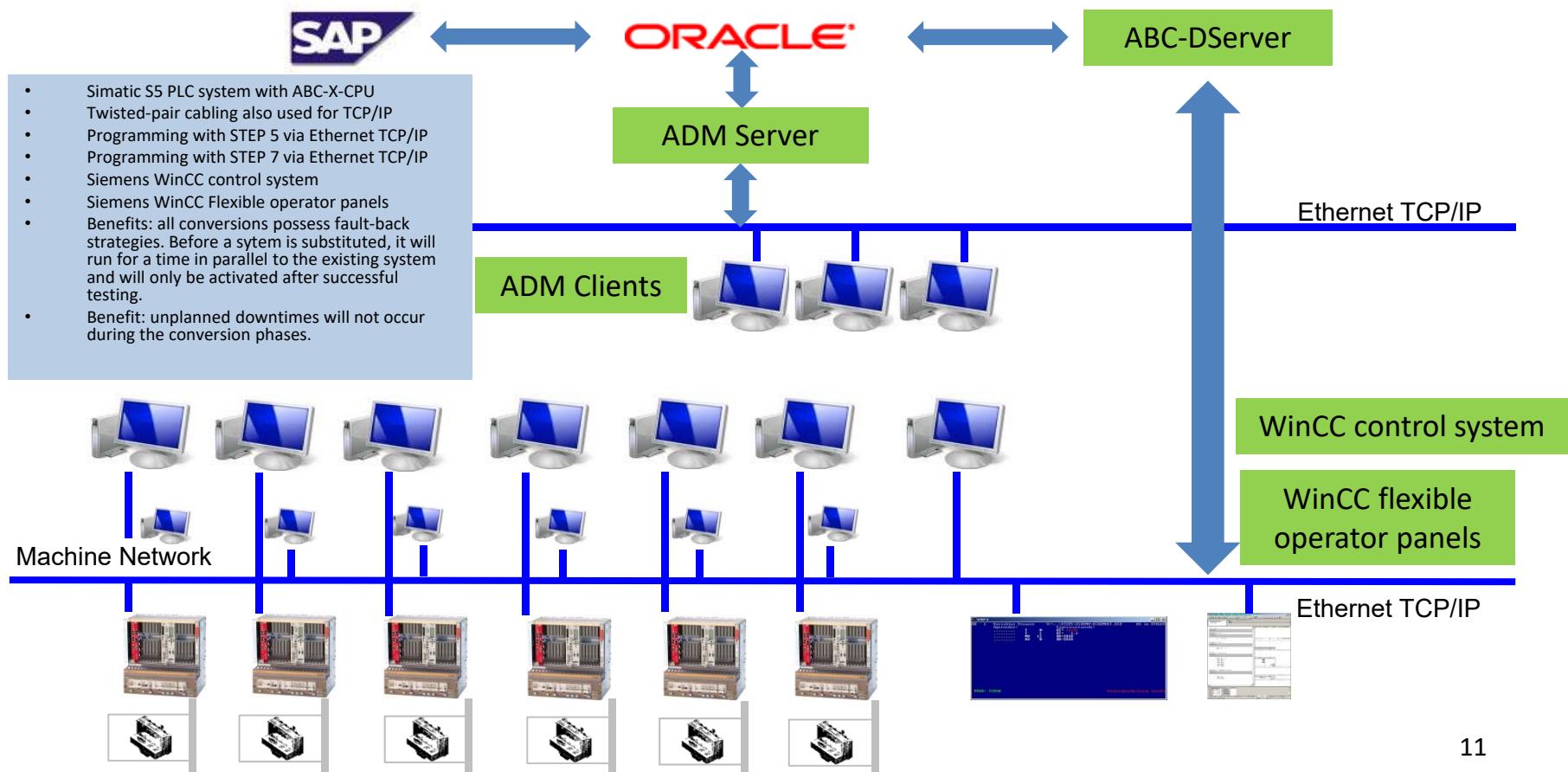
Step 1.4



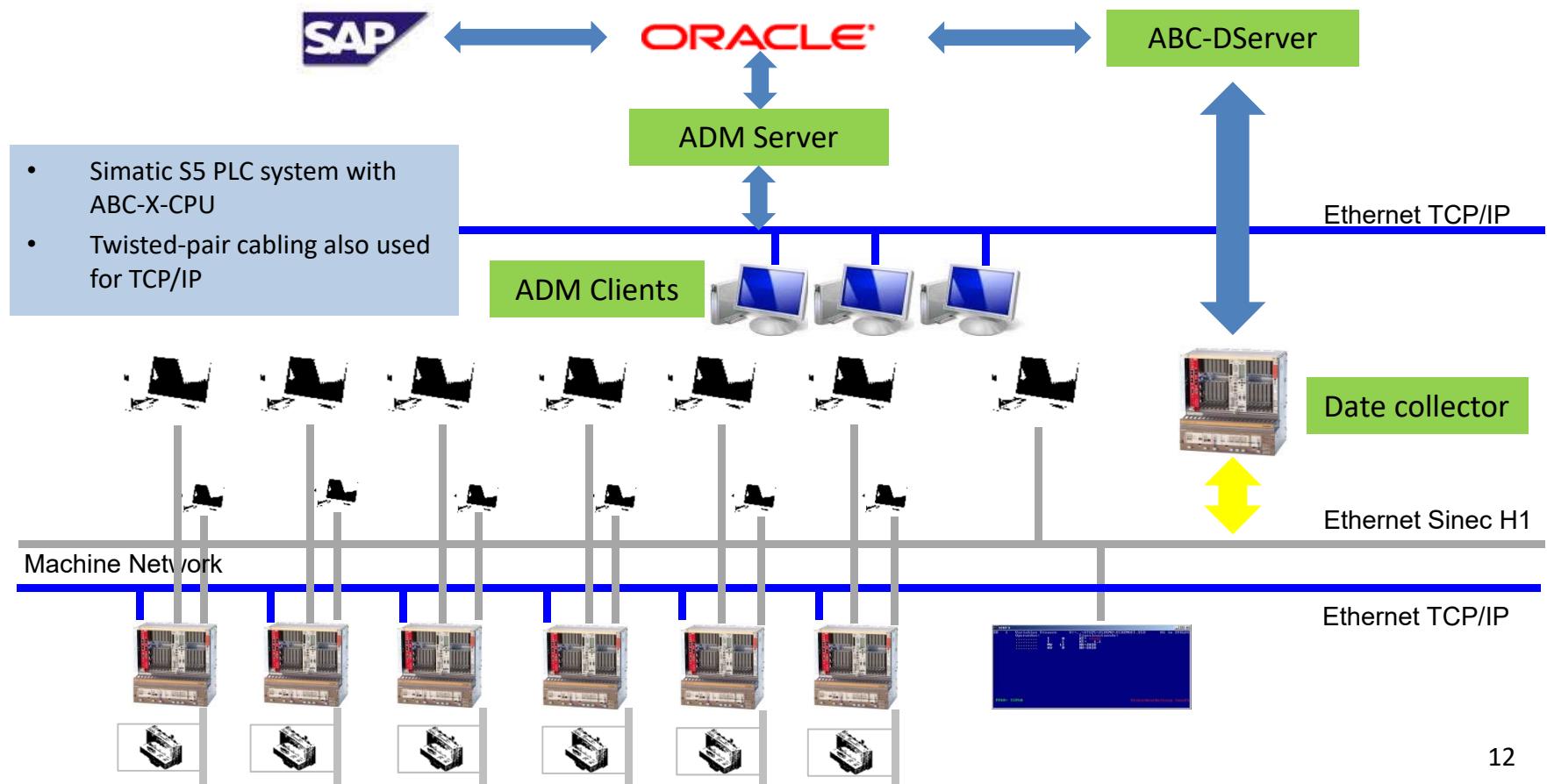
Step 1.5



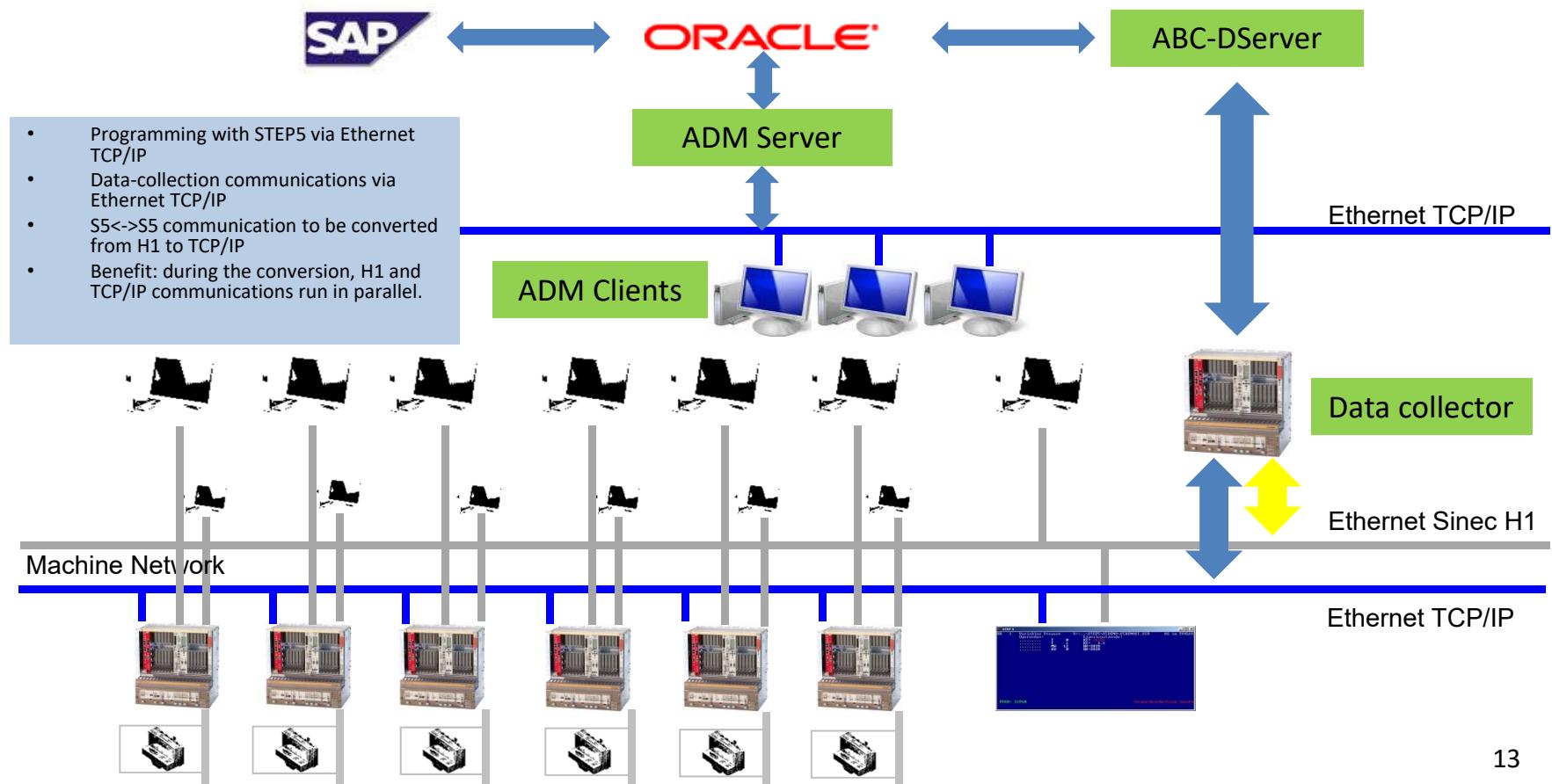
2. Modernisation control level



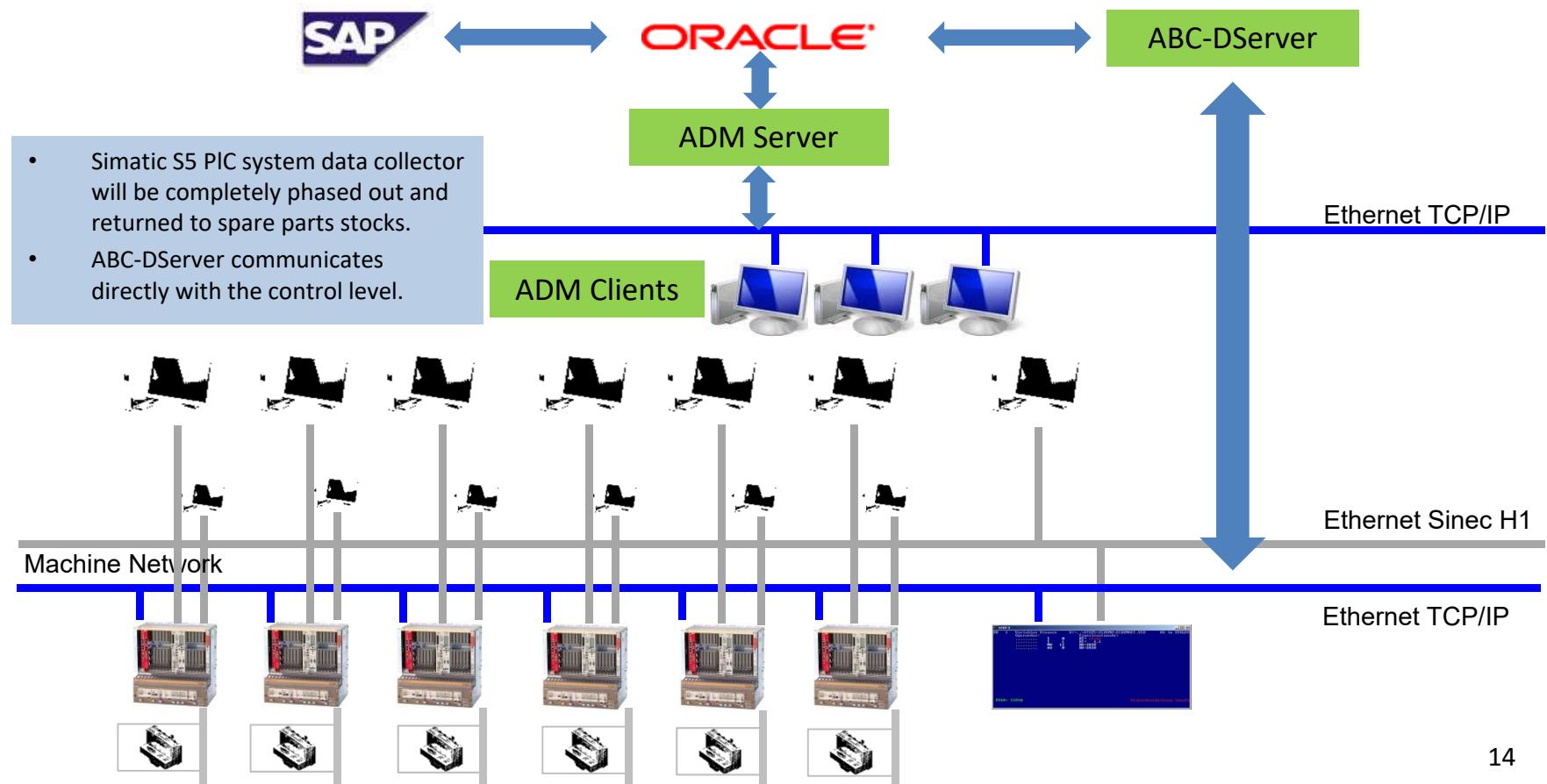
Step 2.1



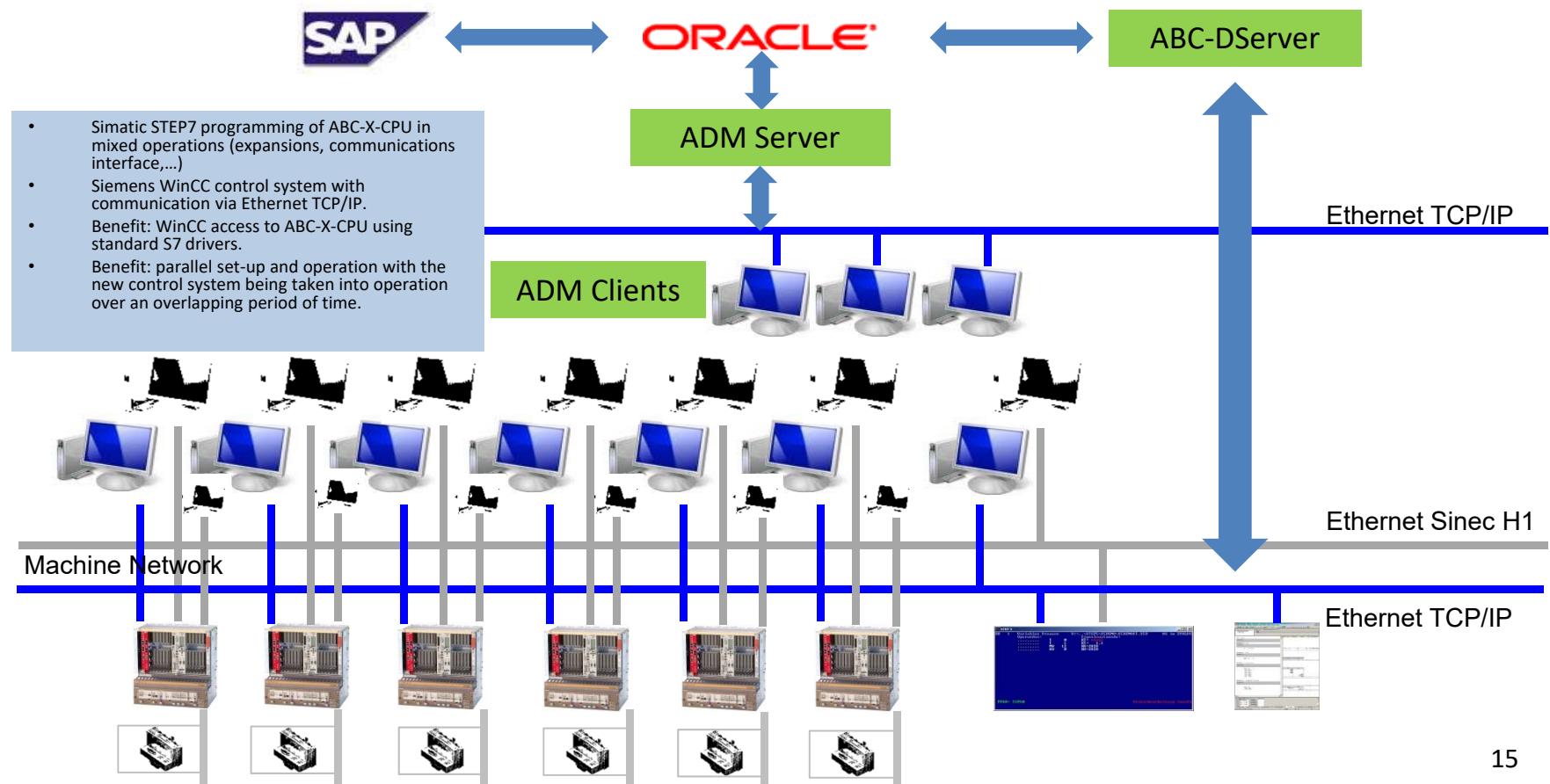
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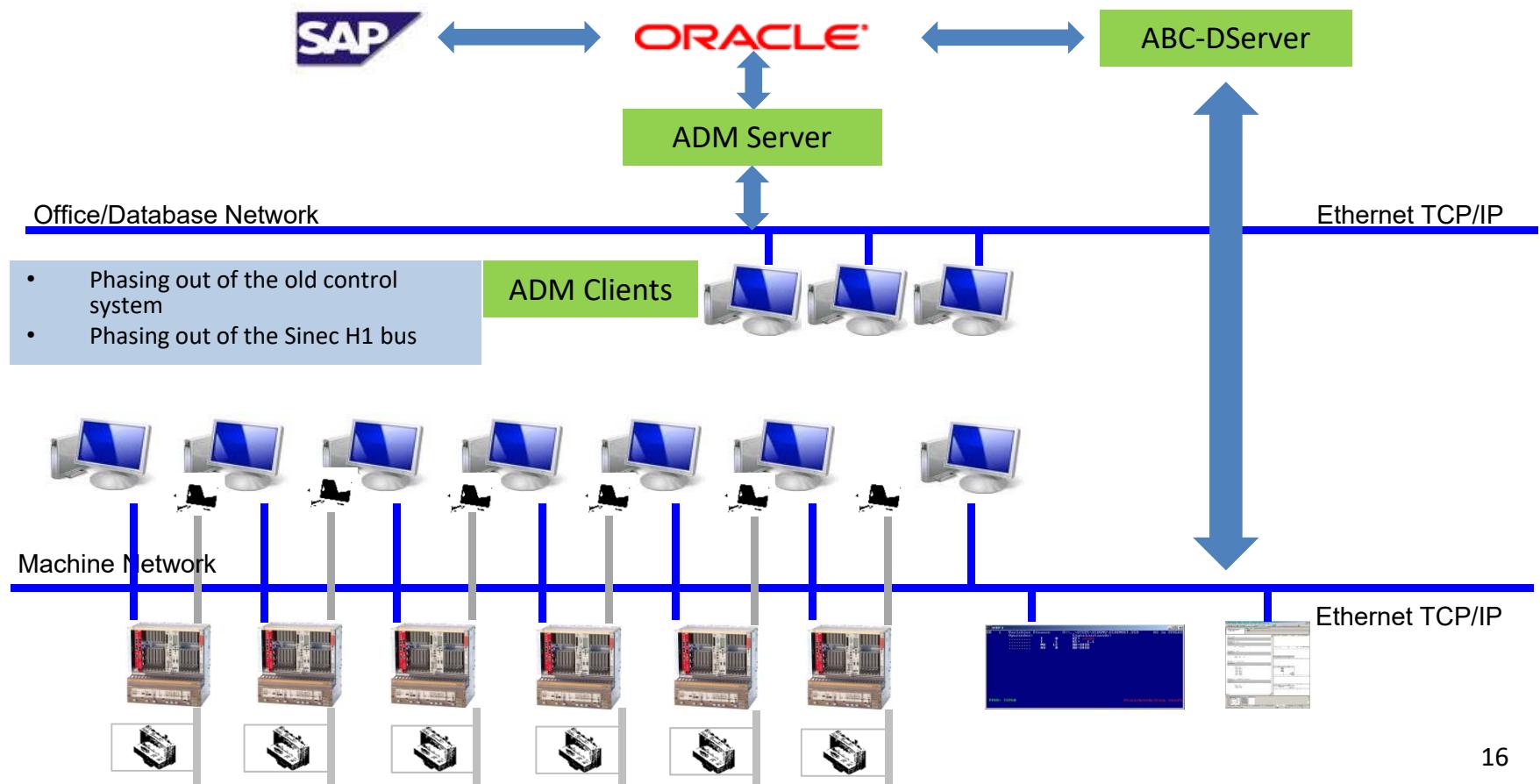
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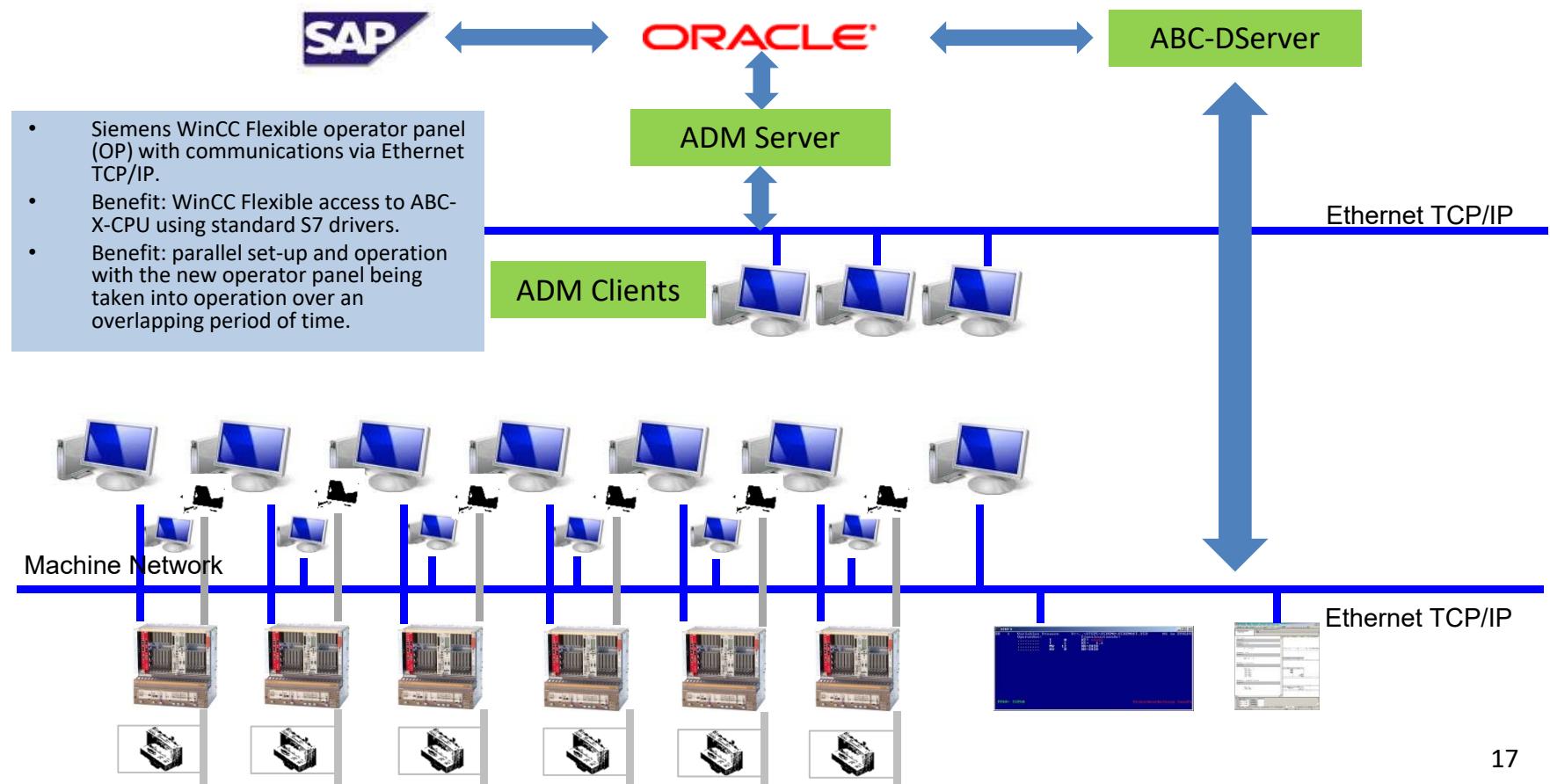
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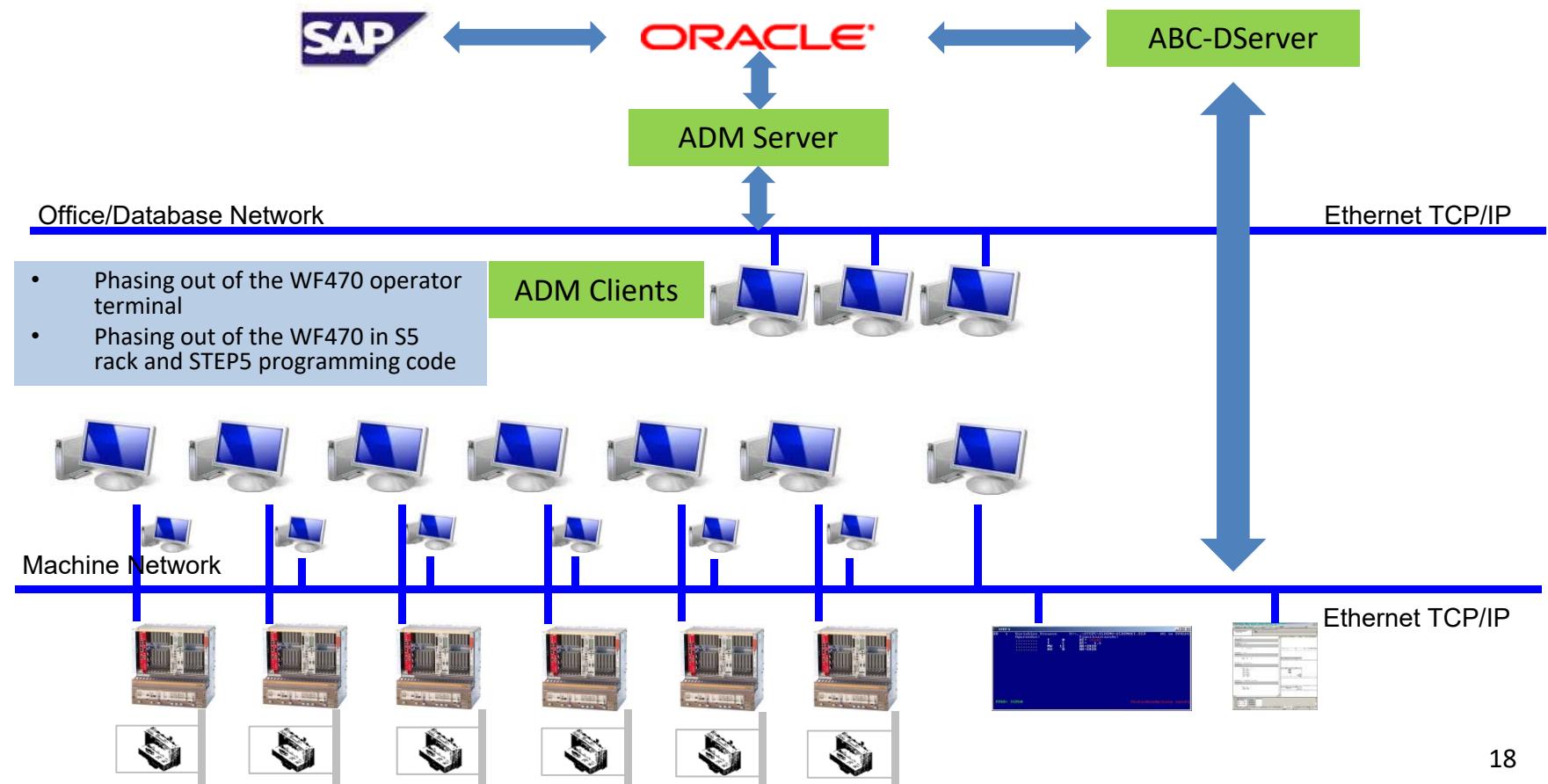
Step 2.5



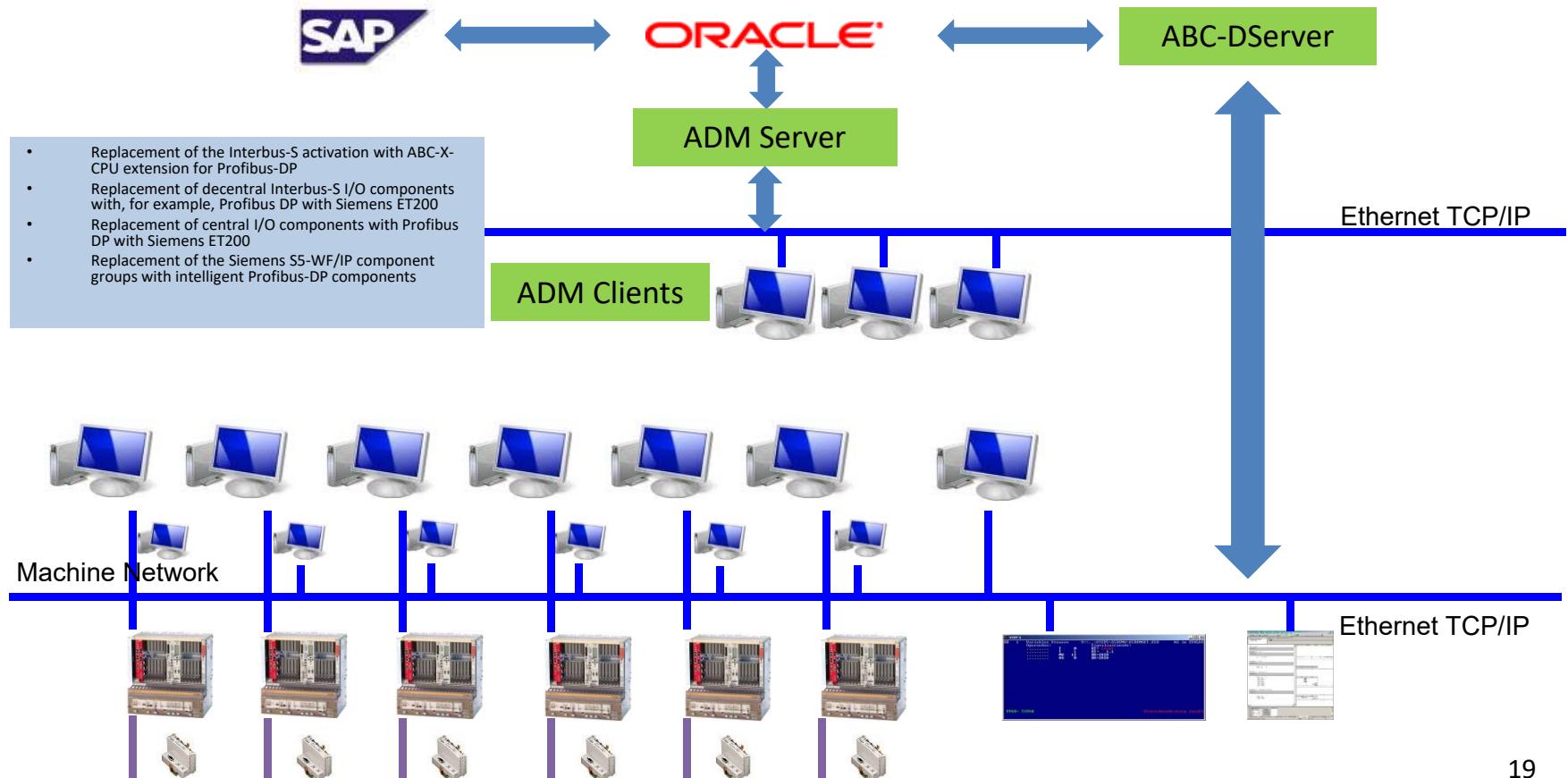
Step 2.6



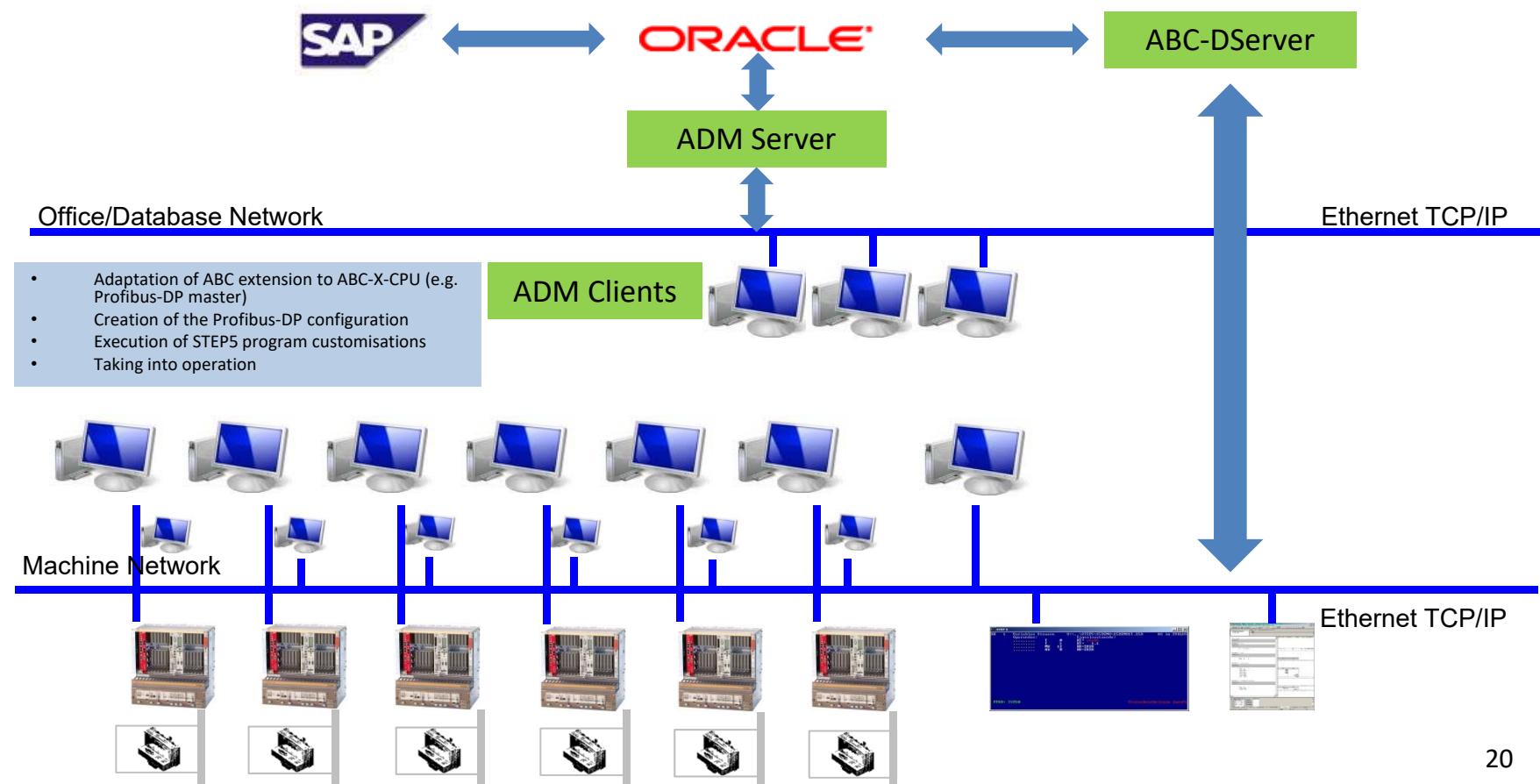
Step 2.7



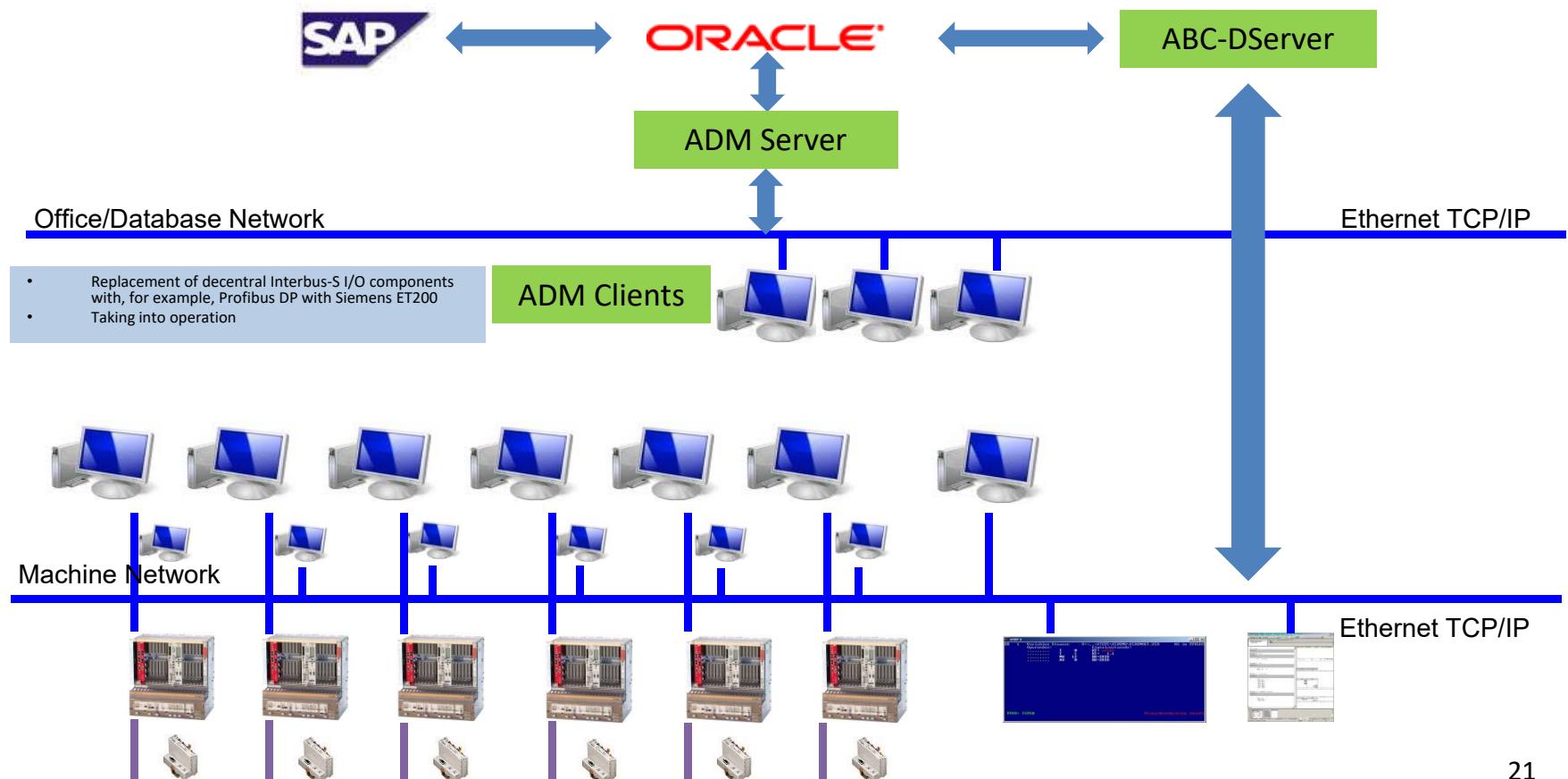
3. Modernisation field bus level



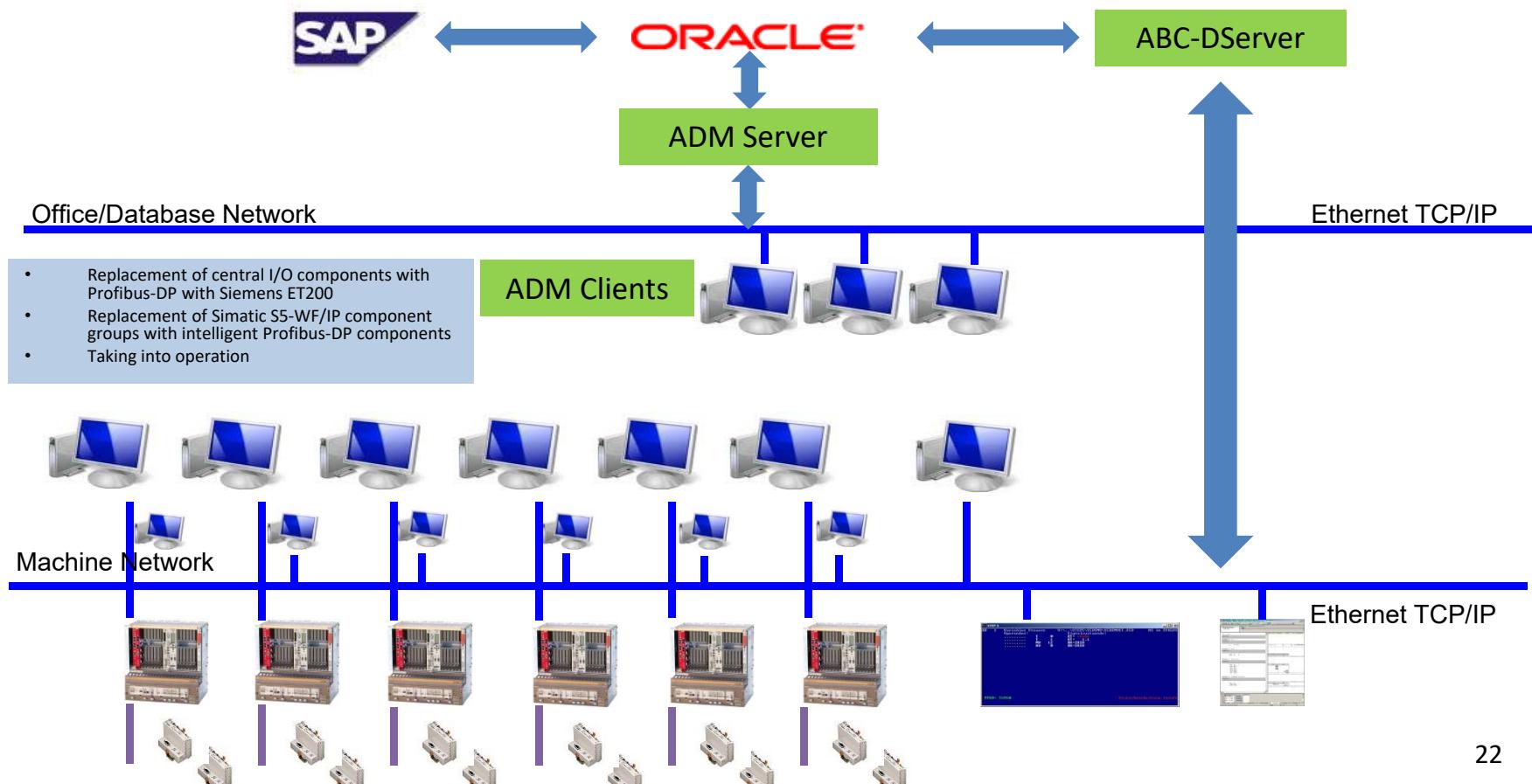
Step 3.1



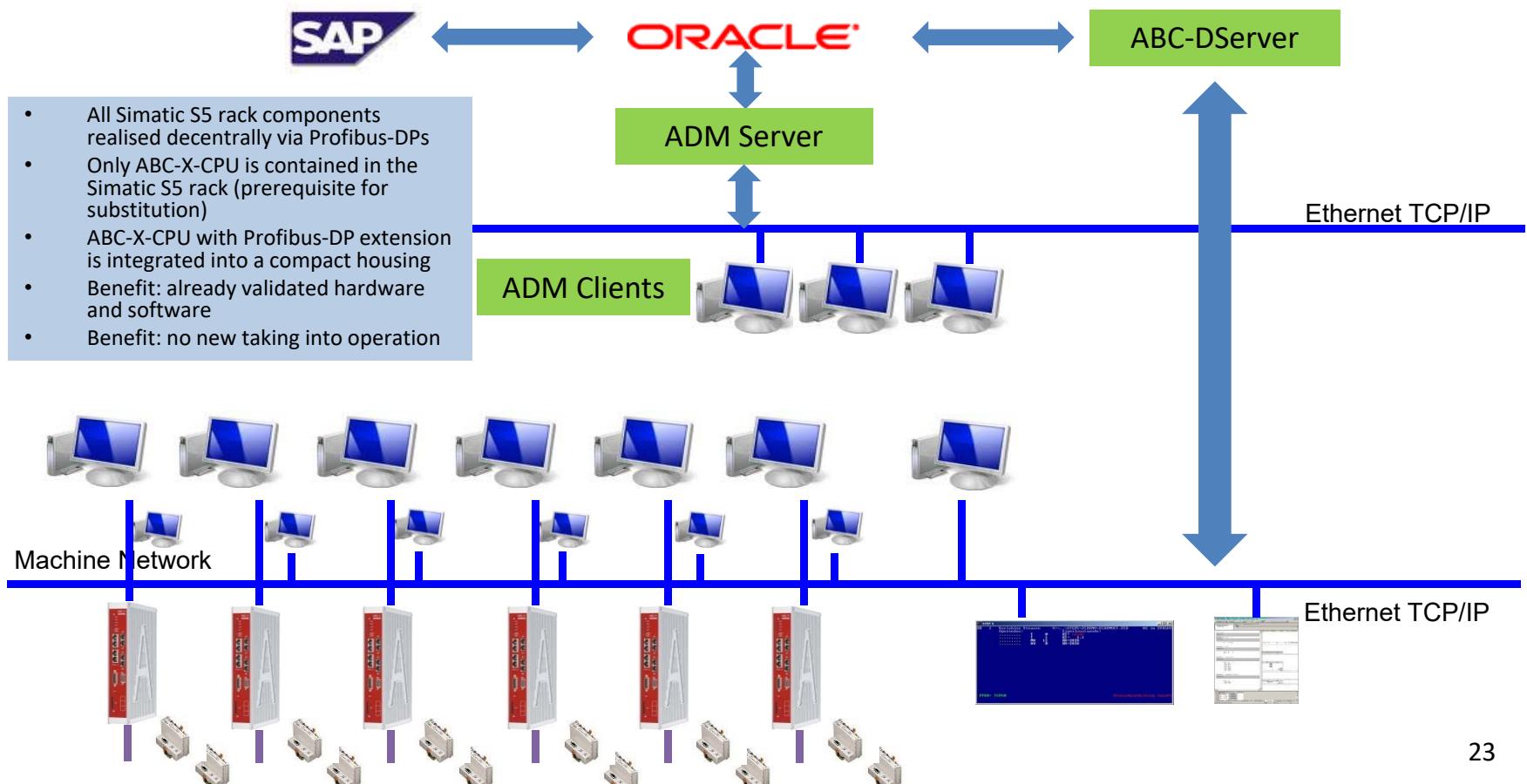
Step 3.2



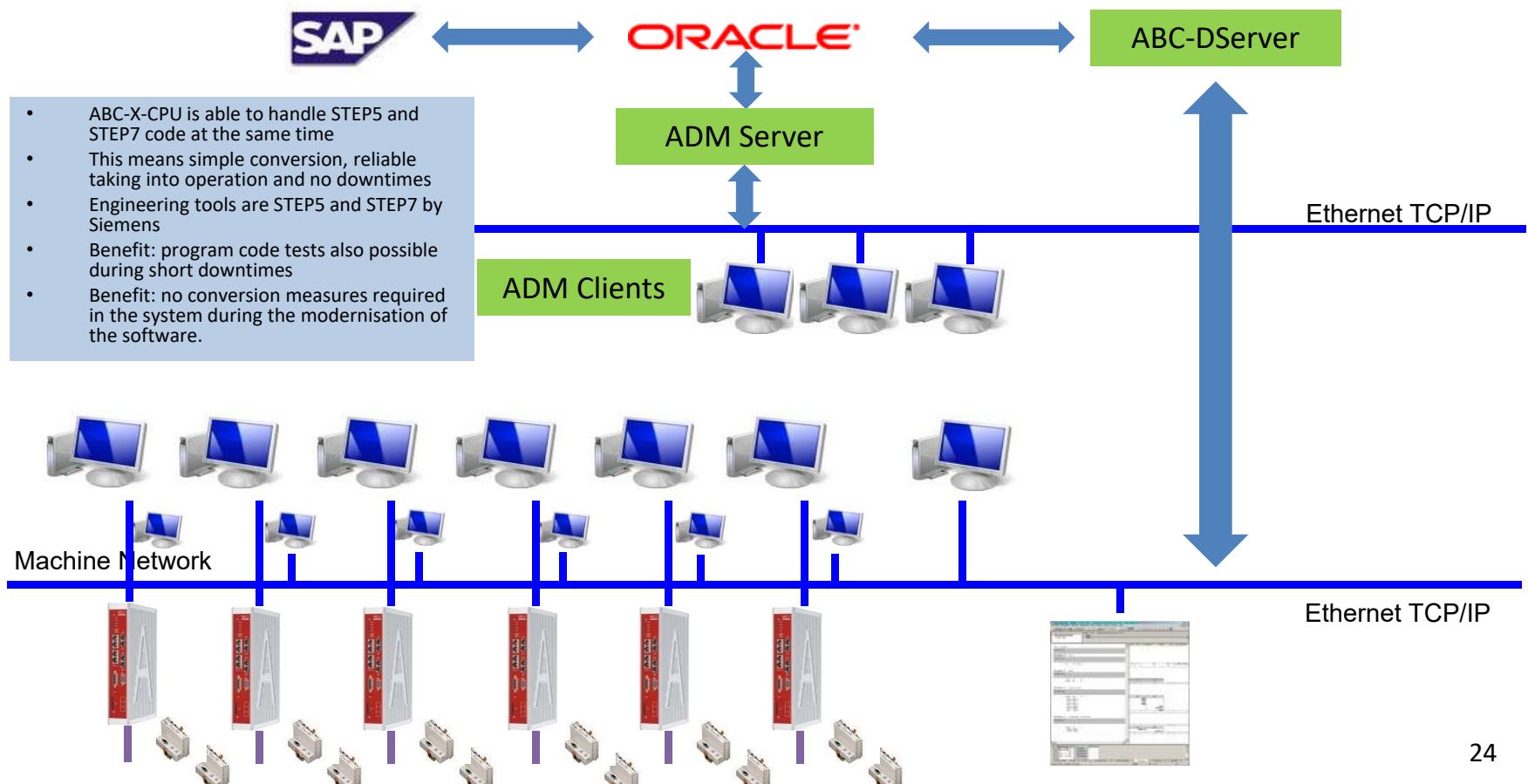
Step 3.3



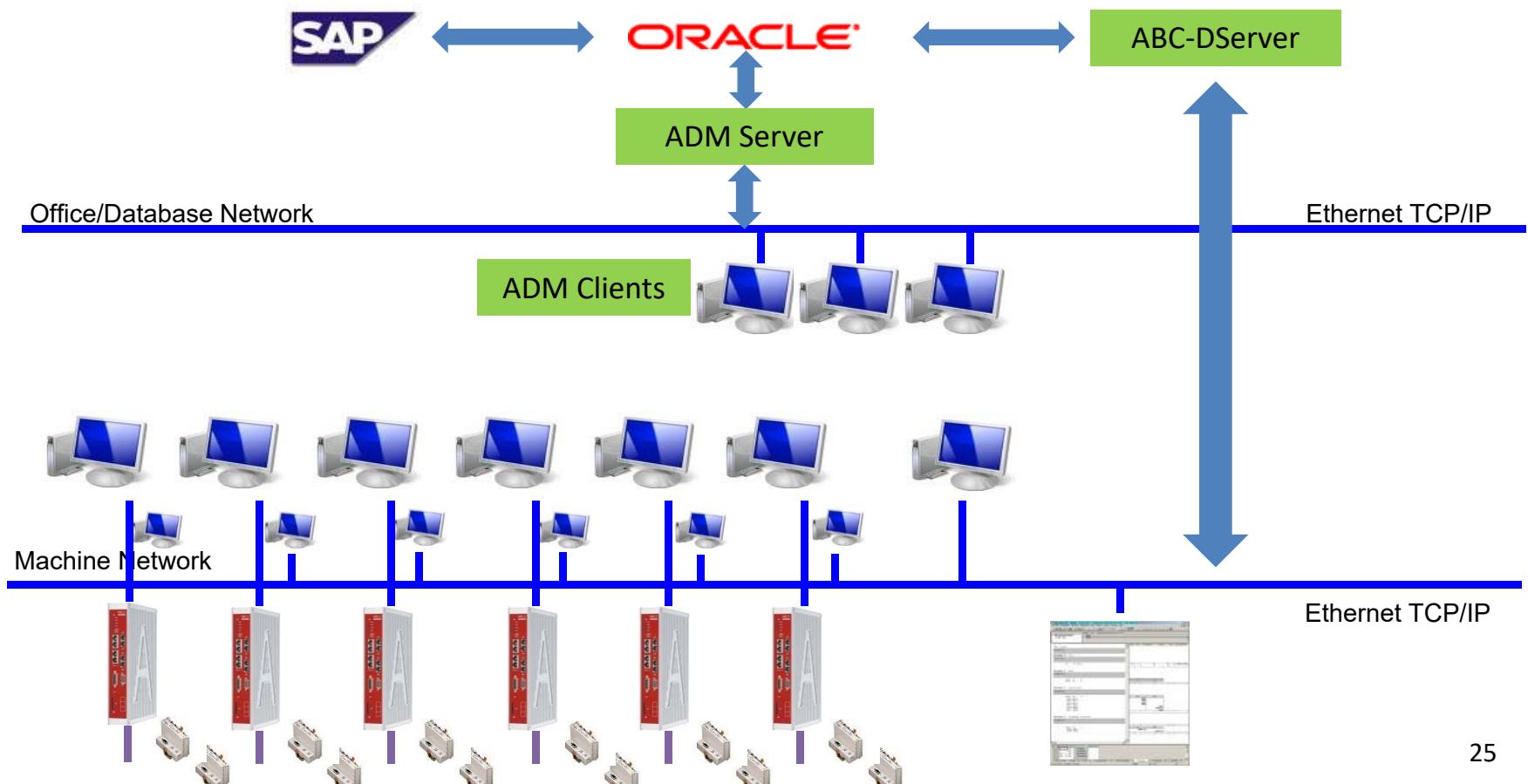
4. Modernisation Simatic – S5 rack



5. Modernisation STEP 5 - software



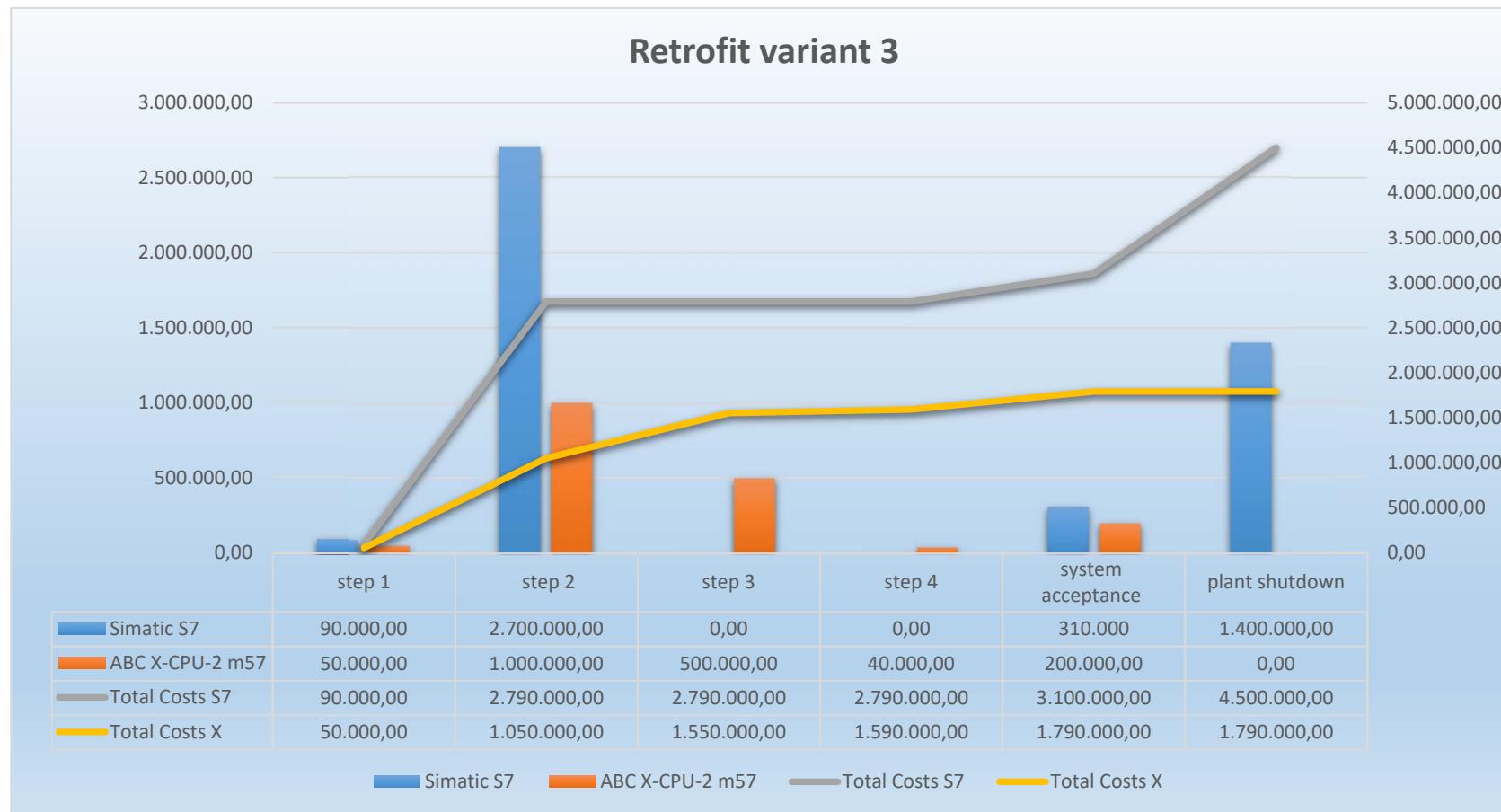
6. Modernisation implemented in hardware and software



ABC scope of performance

- ✓ System expanded by an analysis and data-management system
 - ✓ ABC IT will assume the handling of the entire project
- ✓ Modernisation of the Simatic S5 controls
 - ✓ The expansion and modernisation periods and times will be defined by the customer
 - ✓ ABC IT will carry out the planning and realisation while accompanying the customer during the modernisation – if desired
 - ✓ ABC IT will work with the system builder / system integrator associated with the customer – if desired
 - ✓ ABC IT will assume the entire handling of the modernisation process – if desired

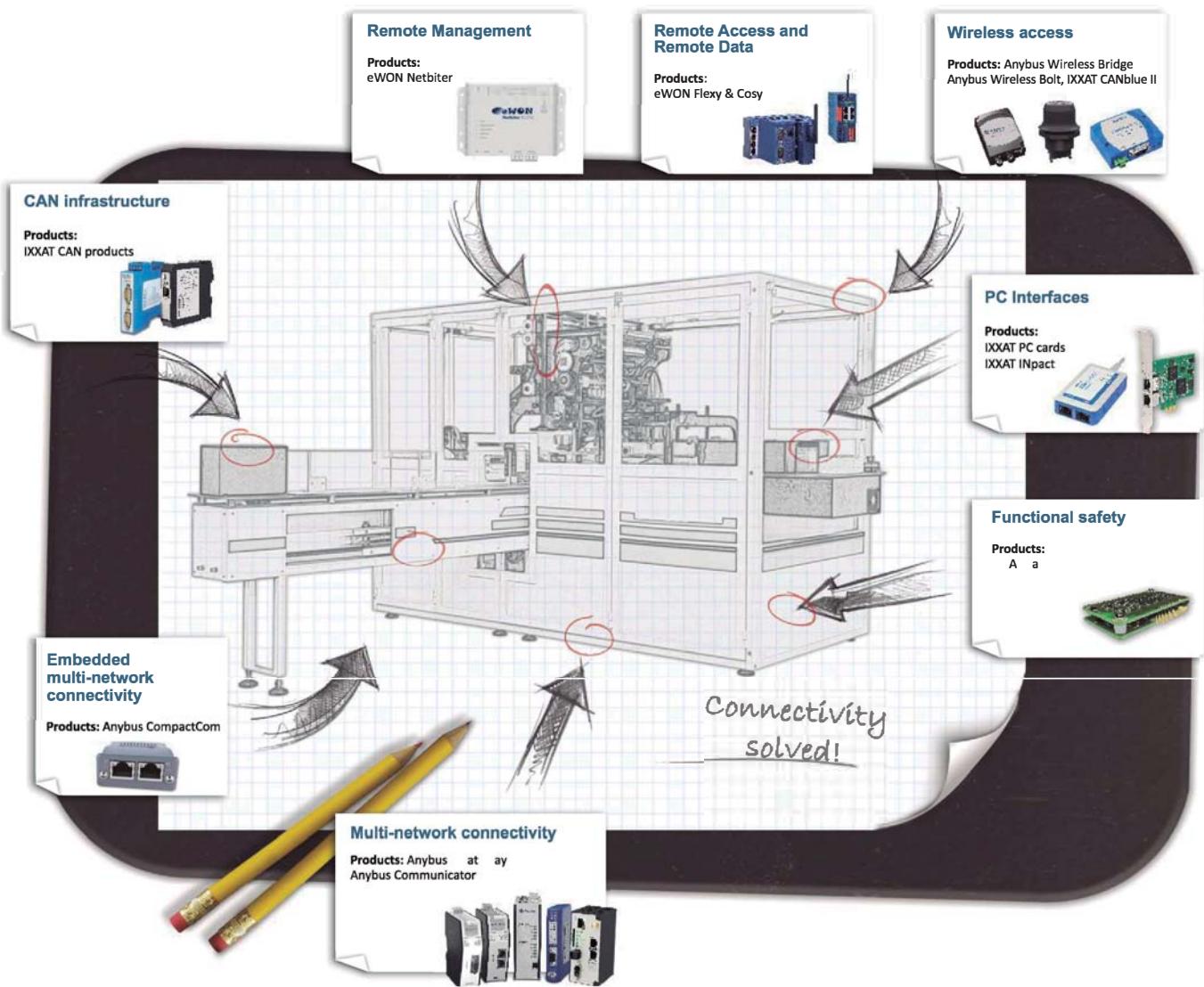
Cost example



ABC components



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ER-Soft, S.A.,
C/ Comunidad de la Rioja, 3
28231 Las Rozas (Madrid)
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