

Supplier Perspective on Interface A

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Author/Company/BU/Revision/Date



Perspective on Interface A

■ Equipment Engineering (EE)

- ▶ EE is essential to maximize productivity of our tools.
- ▶ The knowledge of how to maximize the productivity of tools will be our key competence as a tool supplier.
- ▶ The knowledge will be provided in reasonable and mutually profitable manner to share the value.

■ For the successful EE deployment

- ▶ The key is standardized Interface A.
- ▶ We endorse and participate in the activity to get the standard completed.



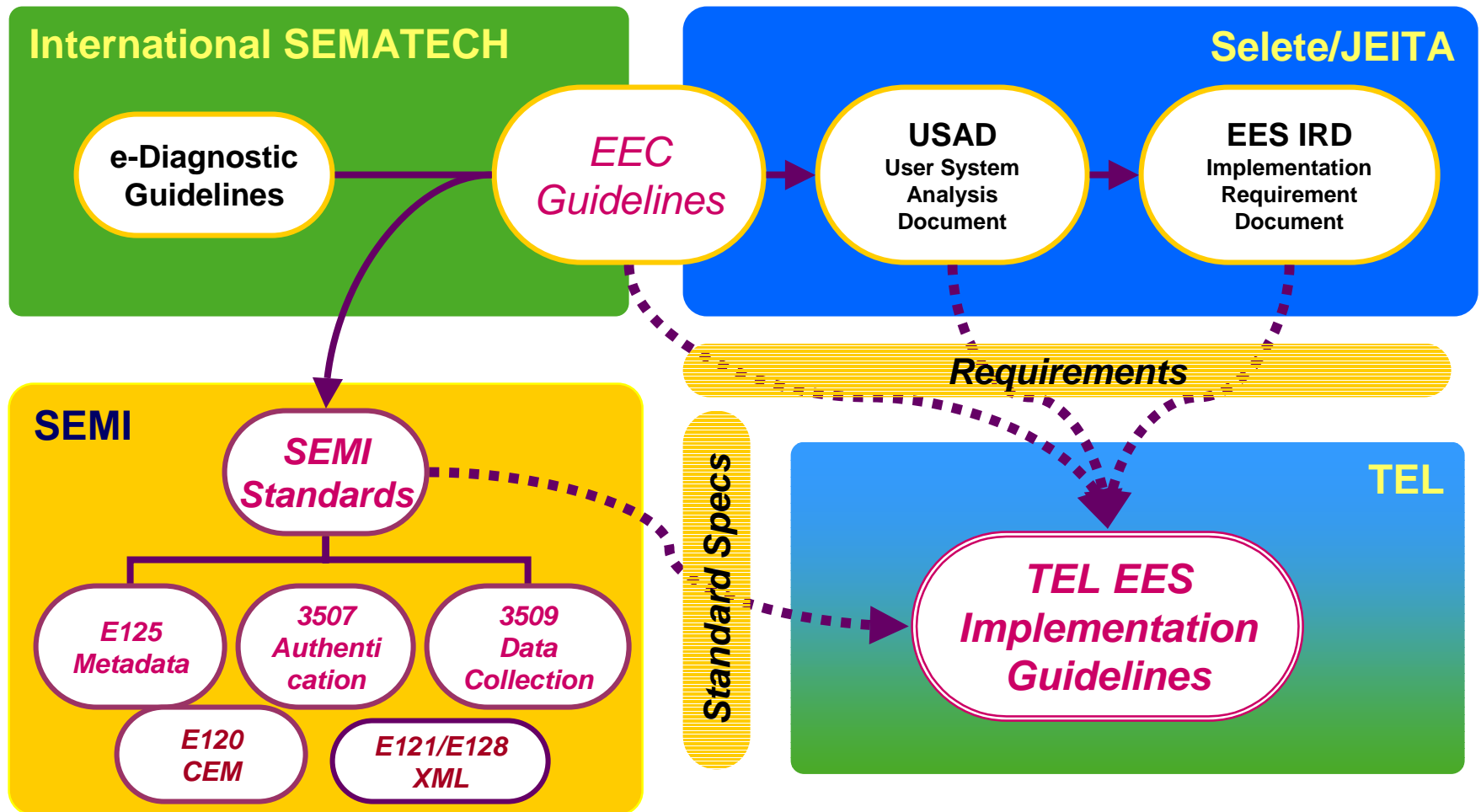
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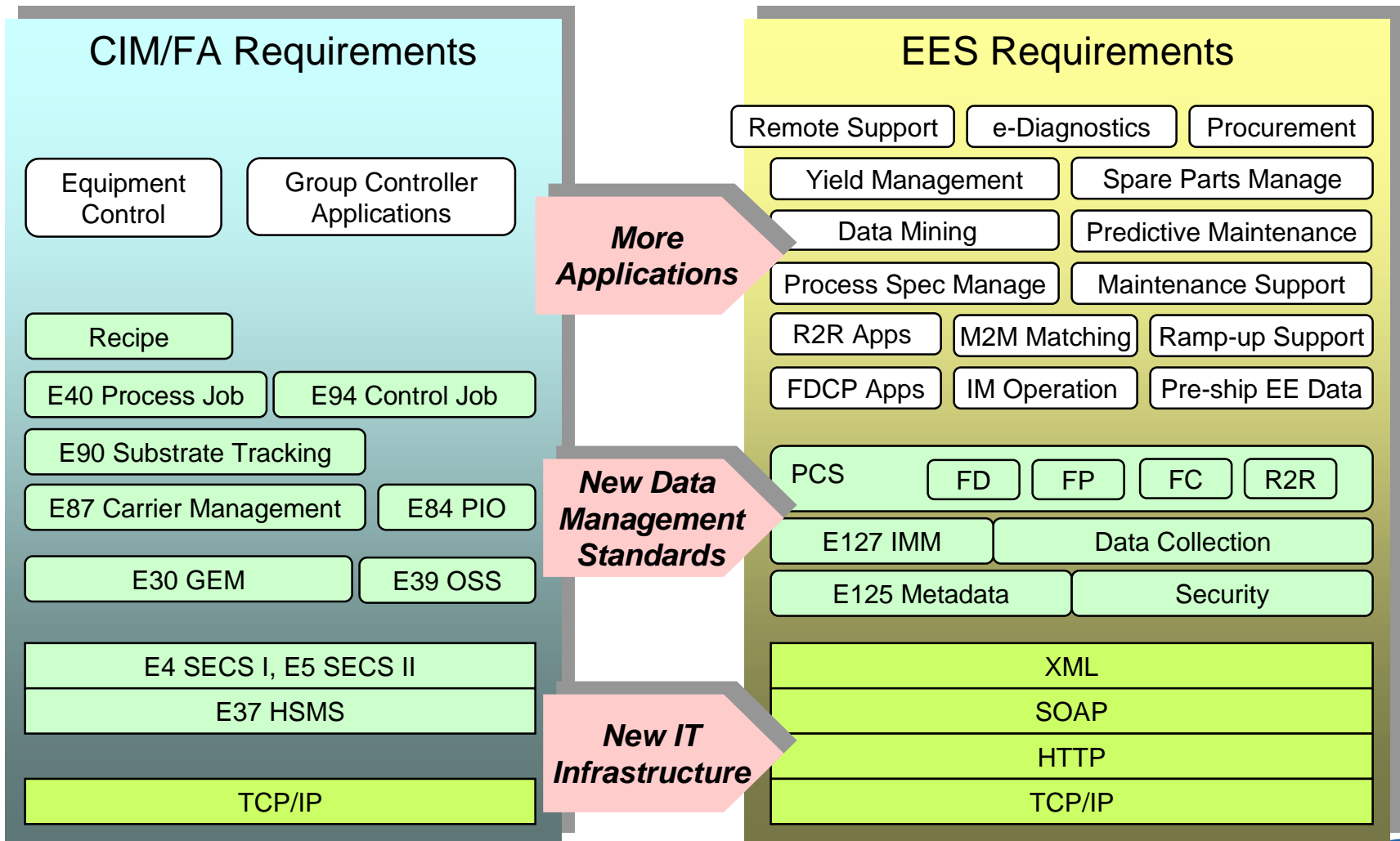


Recognition of the background

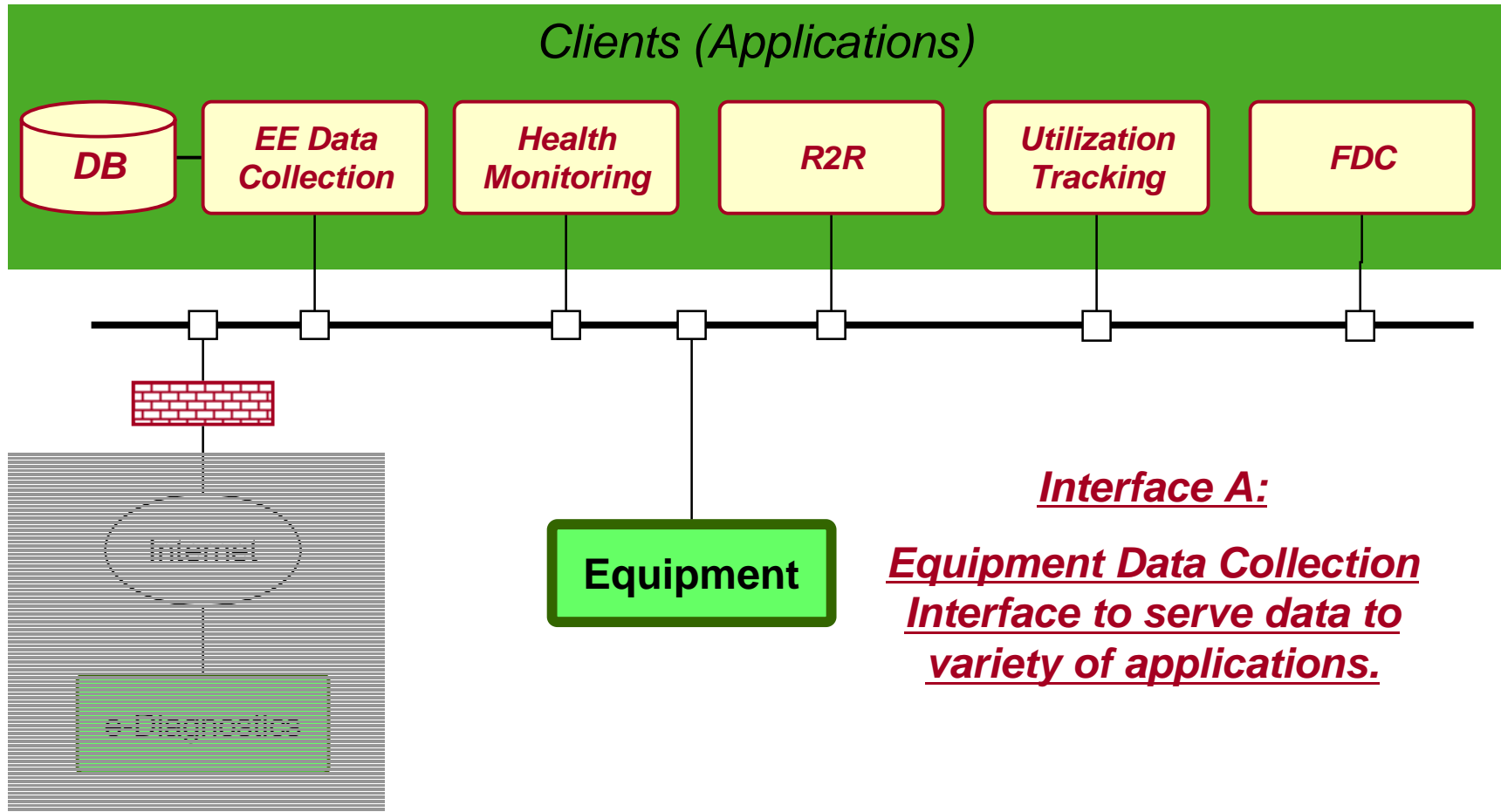
- for TEL Implementation Guide -



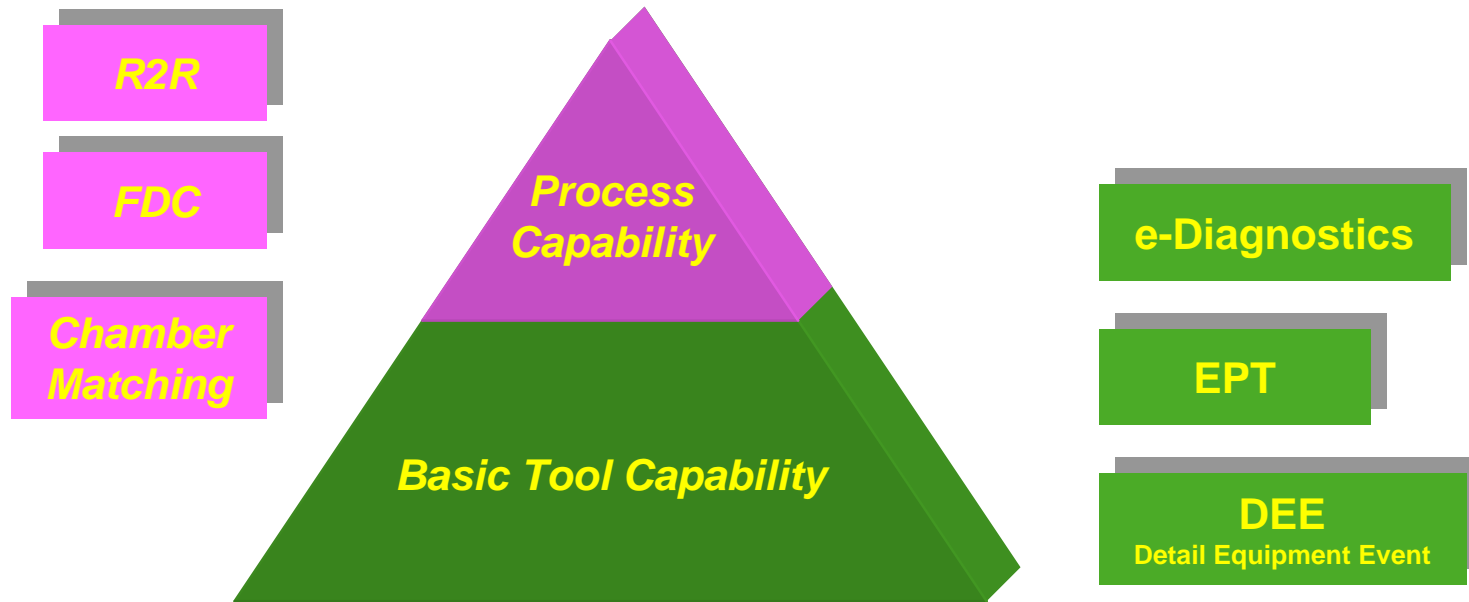
Recognition of the Environment - more IT interaction is needed -



Interface A



Variety of Applications

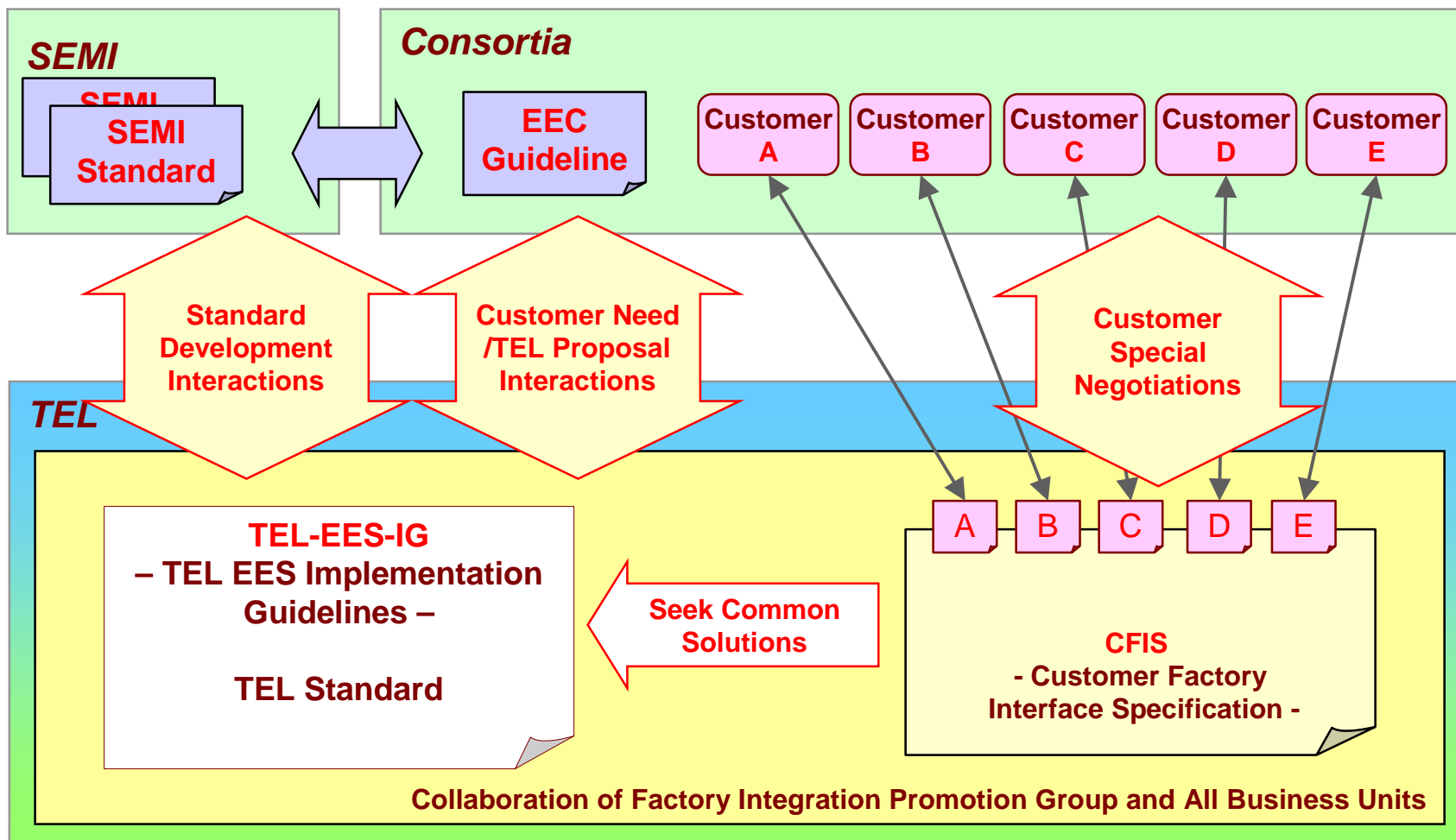


We need to recognize there are varieties of the expectations on Interface A, the single data source. For Process Capability: data collection must be planned for the applications such as R2R or FDC. For Basic Tool Capability: data collection must be planned for the applications such as Equipment Performance Tracking or Detail Equipment Event.



TEL Activity

- We promote the standard implementation -



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TEL Activity

- In Standard Activities -

■ Motivation

- ▶ We will design our EE products based on the standard Interface A specifications.
- ▶ The standards must be defined in reasonable way.
- ▶ TEL will endorse and participate in the work.

■ Implementation Guidelines

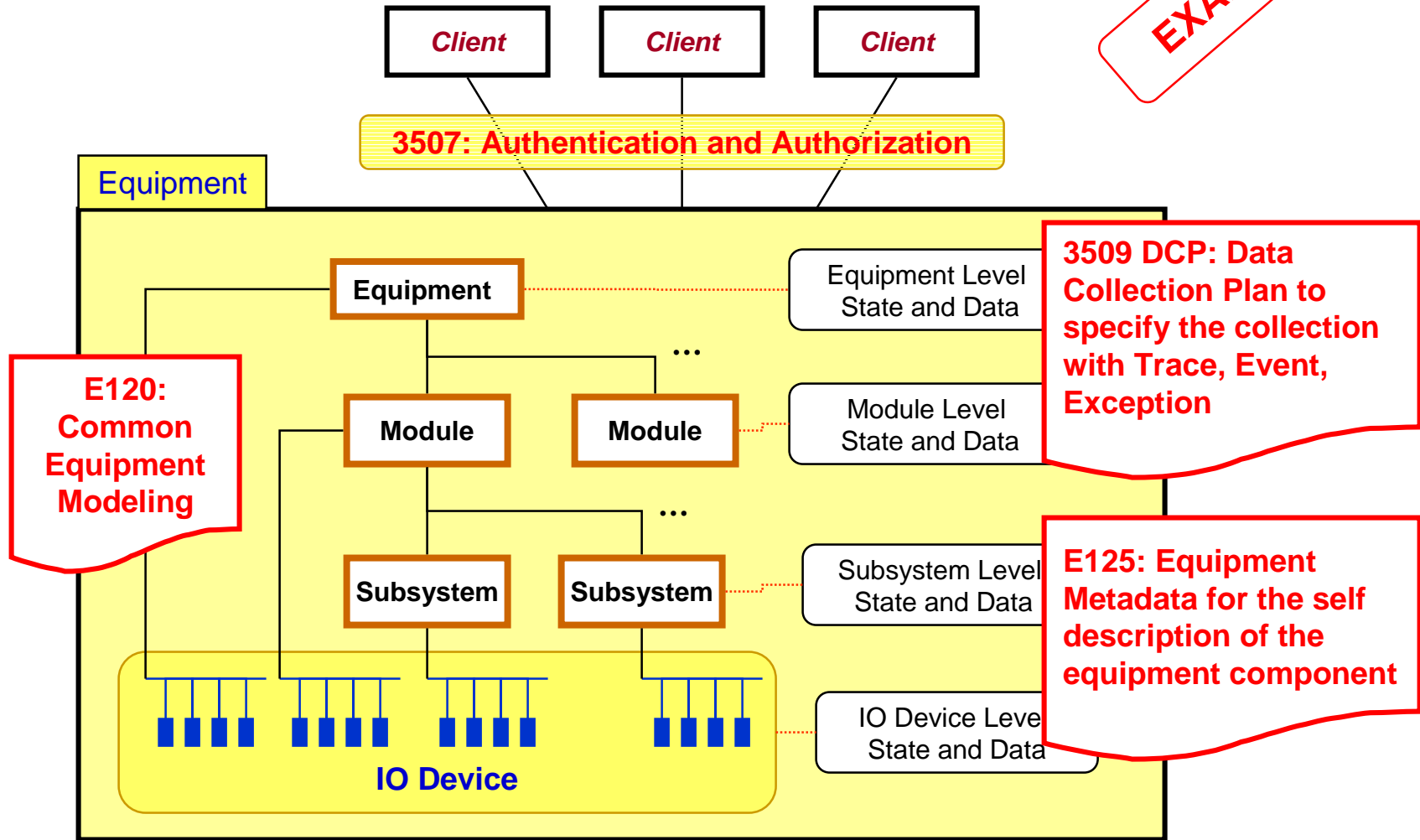
- ▶ In 300mm standard implementation, we have provided guideline document for the equipment automation.
- ▶ However, sometime we have experienced gaps between our implementation and customers expectation.
- ▶ Now we know that the best way to narrow the gaps is to discuss the specifications in open forum.
- ▶ Standard will get feedback from the real design of EE capabilities and the applications on the floor.
- ▶ This will get the standards focused on real requirement.



Interface-A Implementation Guide

- for SEMI Standards -

EXAMPLE



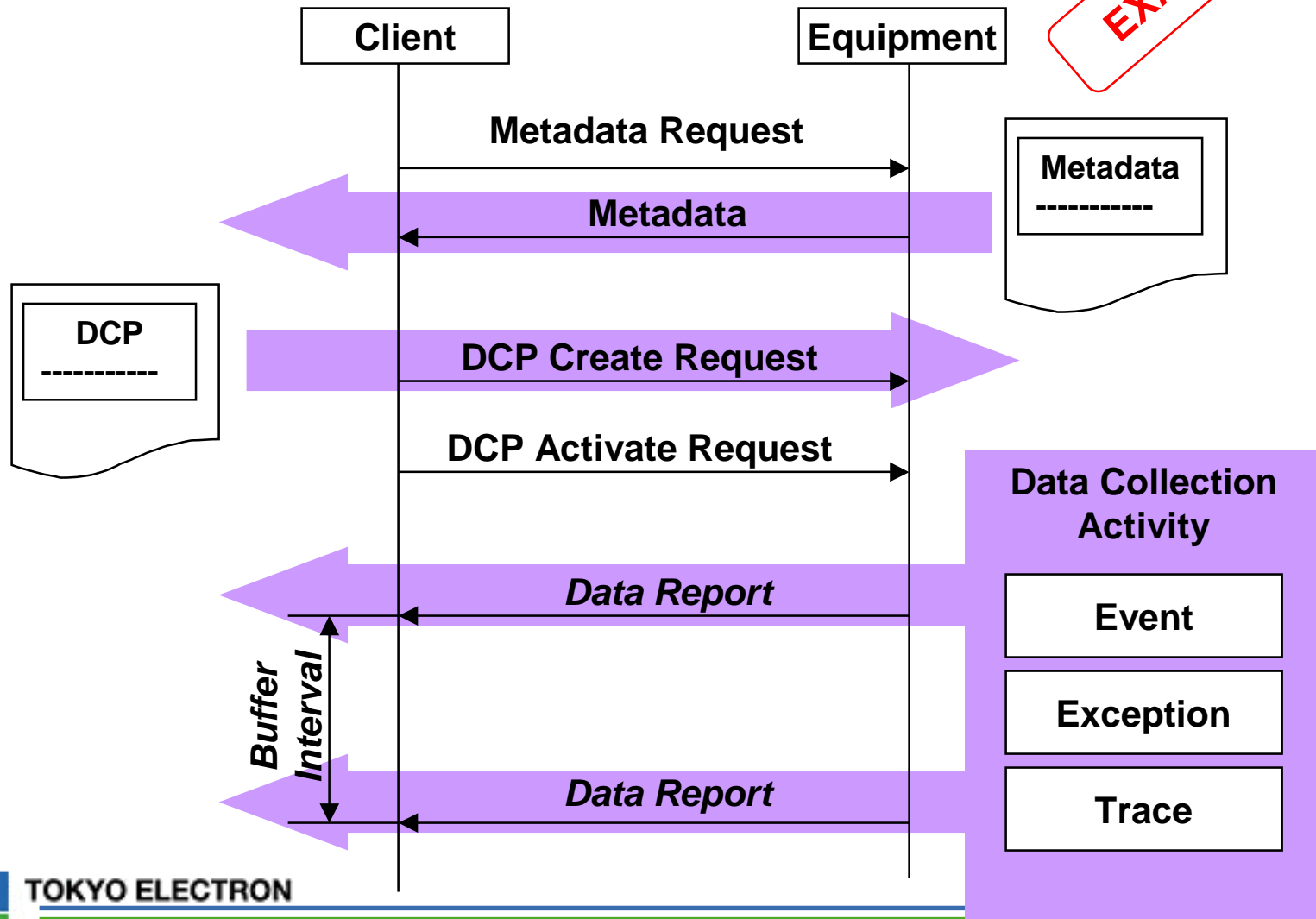
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Integrated Scenario for Interface-A

EXAMPLE



Interface A

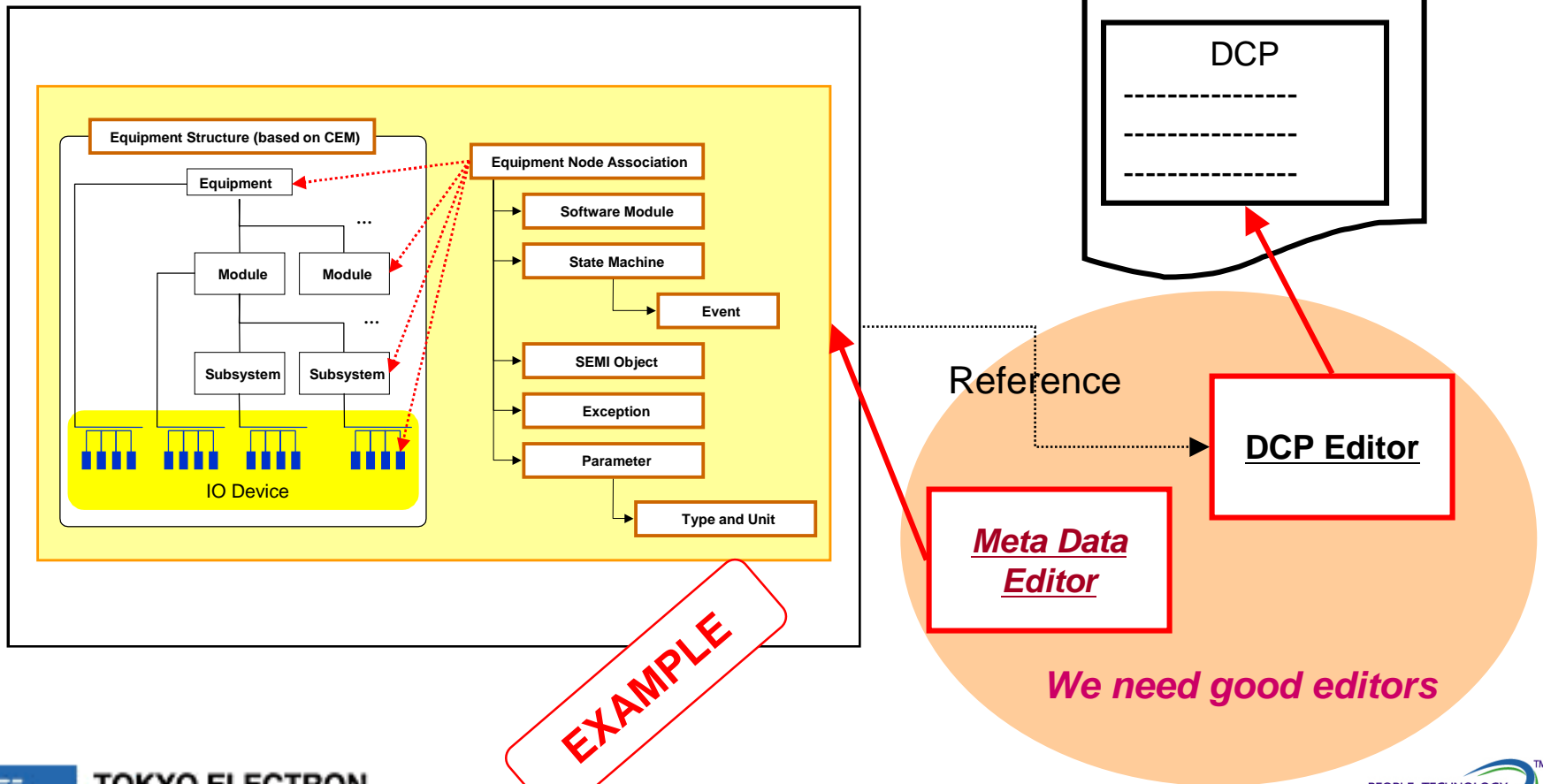
- Self Description and Data Collection Plan -

E121/128 XML

E120 Common Equipment Model

E125 Equipment Self Description (Metadata)

3509 Data Collection Management



EXAMPLE

Action Planned

■ TEL EES Implementation Guidelines

- ▶ Publish our interpretations and concerns to the standard
- ▶ Revision 1.0 for September 2003.

■ SEMI DDA Document

- ▶ We will take part of the standard development by editing #3571 “Data Collection Guide”.
- ▶ #3571 Development Timeline
 - Blue Ballot by September 2003
 - First Yellow for SEMICON/Japan 2003
 - Expect to be approved by March 2004



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