

# CAST Kick-off Meeting



## Breakout Session: Test Cell Communications

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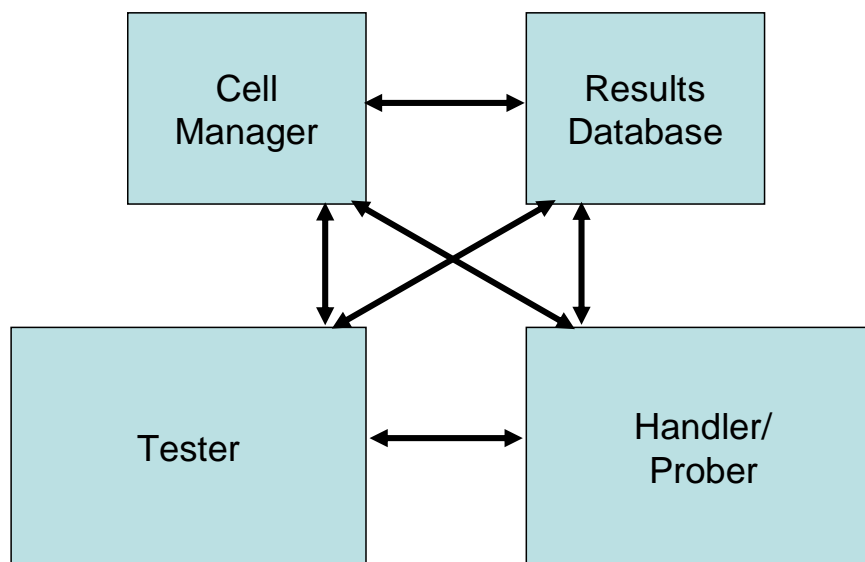


# Breakout Session Overview

- Objective
  - Define standards for the semiconductor industry that provide communications guidelines and methods for different elements within a test cell. These elements include (but are not limited to) probers, handlers, testers, test cell management packages and data collection databases.
- Purpose
  - Brainstorm/Investigate possibilities of standardizing test cell communications
  - Explore existing standards
    - Are they working?
    - Why or why not?

# Typical Test Cell Model

- Typical elements
  - Tester
  - Prober/Handler
  - Cell Manager
  - Datalog Collection Database



# Points of Interest

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- Tester to Prober communications
  - definition of messages, message sequences and scenarios for tester-master and prober-master situations.
- Tester to Handler
  - definition of messages, message sequences and scenarios for tester-master and handler-master situations.
- User fields in the messaging standard
  - transferring user specific, tester specific or prober/handler specific data to a data collection database.
- “Terminology” agreements
  - typical example of this is whether the end of a line or command is terminated with a <CR> or <LF>.

# Where to Start?

- Examine the SECS/GEM standards
  - determine the suitability of the current standards and recommend acceptance or extensions where necessary.



Start from Scratch?

SECS/GEM



Accept “as is”  
under CAST?

SECS/GEM  
CAST

Modify to meet  
CAST requirements?

# Open Discussion

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- What's working/What's not
- Discuss a direction for the working group
  - Start from Scratch
  - Accept as is
  - Modify
- Working group
  - Interested parties
  - Frequency of meetings
    - Conference call
    - Face-to-face