

# IC Maker Interface A Needs

29 October 2004

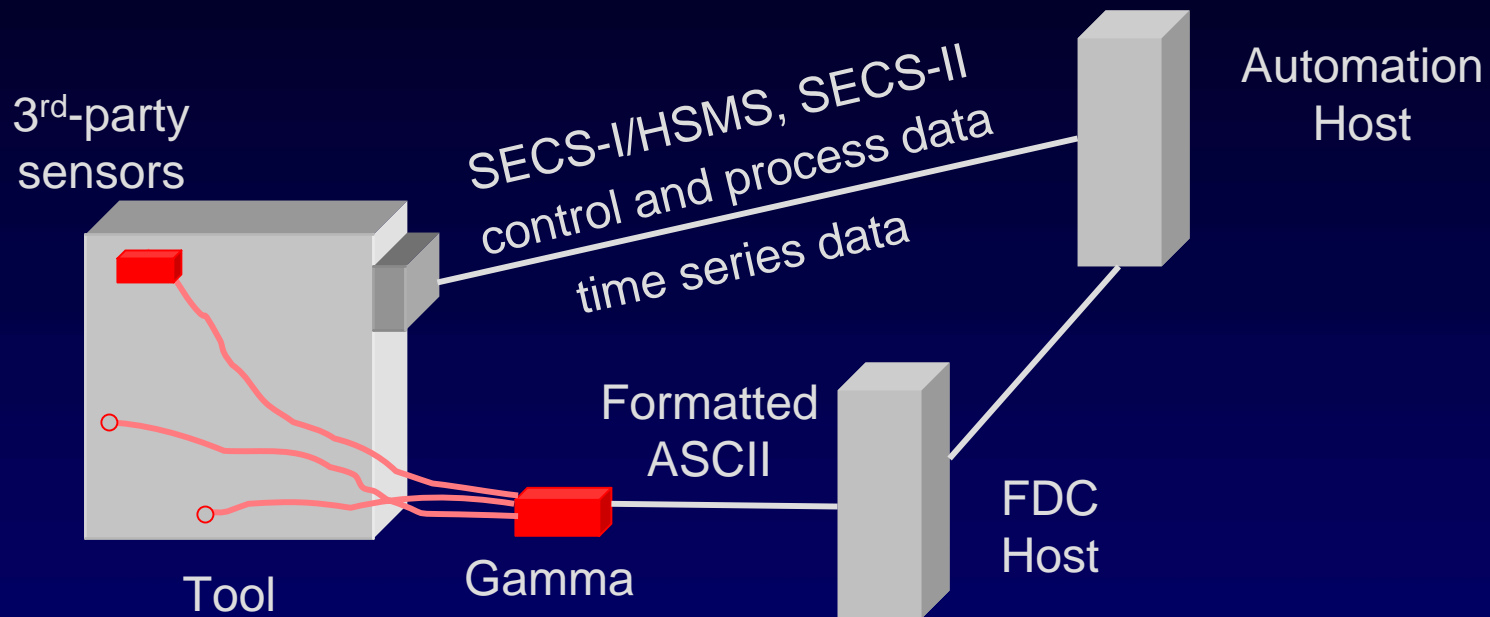
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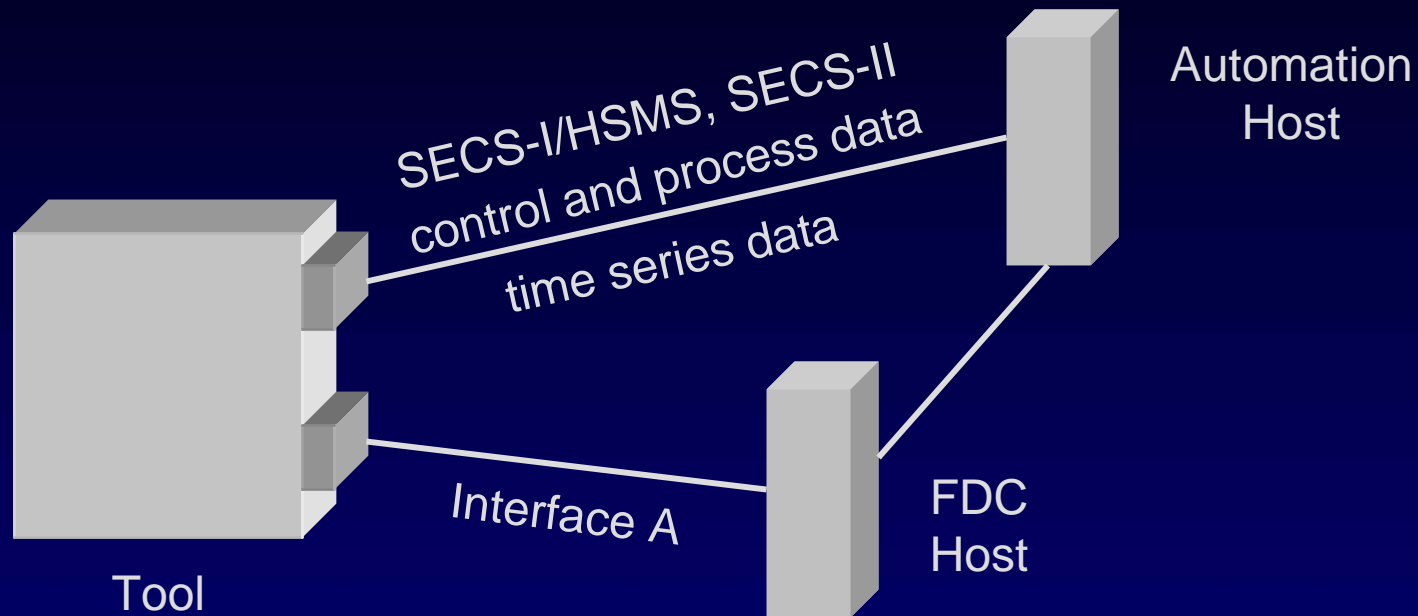


# Existing FDC Connectivity at TI



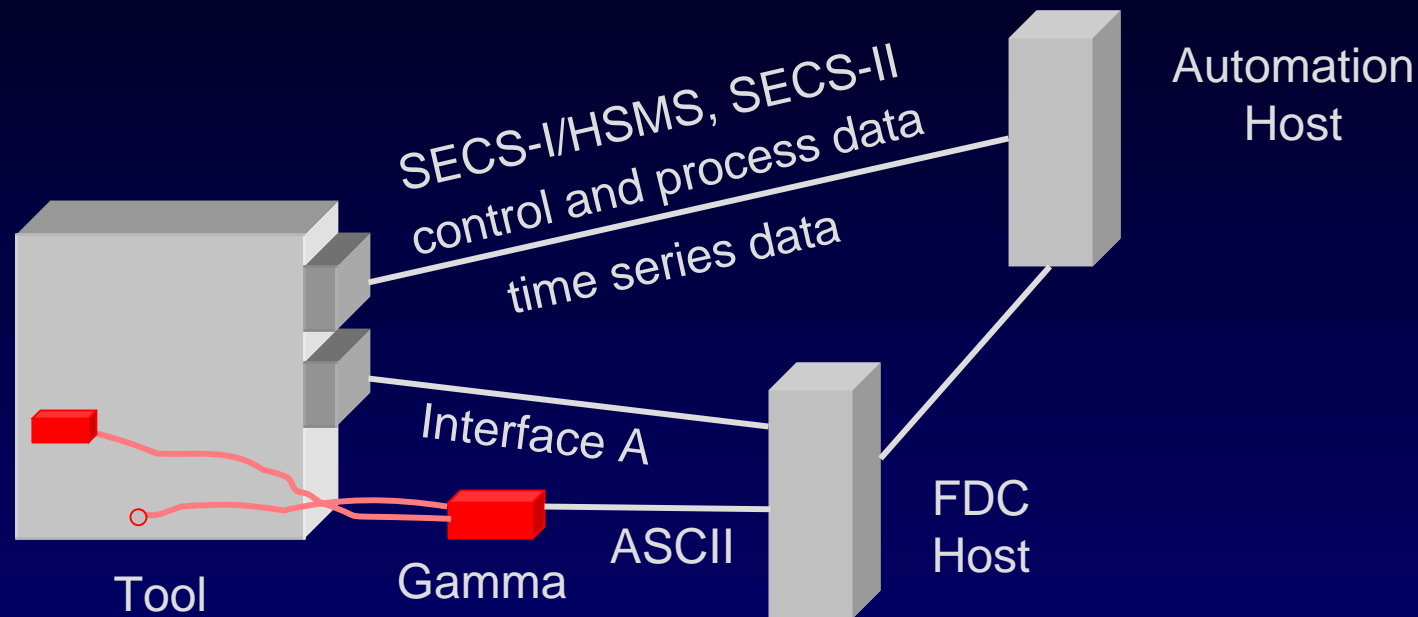
- TI currently connects physically to analog/digital signals in the tool for data not provided by SECS.

# Potential for Interface A



- Ideally, all data would come from tool's Interface A port

# More and High Quality Data Needed via Interface A



- Unless tool's Interface A includes all our currently monitored signals, we'll probably still have custom connections

# TI Wish List

- Publication rates independent of sample rate. Host decides how many data points are bundled into a single message
- Sampling rates vary between long processes (1hz) and short processes (20-100hz). Rates should be switch able at runtime, for high-data-rate-collection for short periods of time
- Tool should be provide pre-digested summary data, such as standard deviation, average, min, and max for all major parameters
- All physical state changes, such as gates opening or closing, should be reported

# Signal Types Monitored Today

rolling average

voltage

temperature

exhaust

air leak threshold

arm position

endpoints

bias

bin count

purge

chuck

cover

DI water temp

emission

pressure

flow rate

hourly count

laser

load position

wafer count

noise

pump

reflected power

shift count

targets

sputter voltage

sputter current

average

sum

tank temp

resist time

cup exhaust

current

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