

## 1450.4 meeting minutes – 02/25/14

**Attendees:** Ernie Wahl, Jim O'Reilly, Mitsuo Fujii

**Not present:** Markus Seuring, Julia DiChiaro, Oleg Erlich, Ajay Khoche, Paul Reuter

### Agenda:

- Lines 1657, 1697: with regard to variable visibility, review interaction between TestProgram, and type definition (TestType, FlowType), and instantiation (Test, Flow) blocks. Consider allowing type definitions and/or instantiations within TestProgram block.
- Lines 5196, 5206 – 5212: ref standardized mapping of PatternExec to a test-type.
- Lines 5248, 5270 – 5324, section 6.11.2.2, ref STIL.1/STIL.4 shared memory, special attention to initialization sequence.
- Annex A Name Spaces
- Annex C Event Sequence
- Annex F Block Sequence
- Section 6.8 Binning: review syntax after rescinding hard bin counters. See near line 3591.
- Seeking help with coding examples: writing coding examples is an excellent way to spot documentation short-comings. More participation equals more scrutiny. A complete production test program would be useful.

### Summary:

Line numbers are from STIL.4 syntax document dated Feb. 24, 2014

- Line 1660: ACCEPT test and flow type definitions & instantiations & nameless EntryPoints block inside TestProgram block immediately preceding EntryPoints in addition to top level definitions preceding TestProgram block, the current constraint.
- Line 1660: SUBSTITUTE nameless EntryPoints block inside TestProgram block for reference to named EntryPoints defined at top level.
- RATIONALE FOR THE ABOVE CHANGES:
  - Without these changes a parser could not determine which FlowVariables and BinMap were in scope when parsing TestType, FlowType, Test, and Flow statements. These changes should have been made when we allowed multiple TestProgram blocks. Multiple TestProgram were needed to:
    - Support multi-project wafers.
    - Support testers capable of simultaneously executing multiple flows, i.e., we don't want to have to redesign STIL.4 for phase II when it becomes a language capable of executing on ATE.
- BENEFITS DUE THE ABOVE CHANGES:
  - In addition to global namespace TestTypes and FlowTypes, each TestProgram may have its own local types.
  - Test and Flow statements, i.e., instantiations of TestType and FlowType objects respectively, are shared between TestPrograms when instantiated at the top-level (most likely not the intent). Now we have the option of creating an instance per TestProgram.
  - Instantiations and type definitions can now use BinMap and FlowVariables local to the TestProgram.
  - Forward references to EntryPoints are eliminated
- UPDATES REQUIRED FOR THE ABOVE CHANGES:
  - Negate the ability to define EntryPoints block at top level – EntryPoints is defined ONLY within the context of a TestProgram block.
  - To support the above changes, the following metatypes are defined and used:
    - typedef\_stmnt = < test\_typedef\_stmnt | flow\_typedef\_stmnt >
    - instance\_stmnt = < test\_instance\_stmnt | flow\_instance\_stmnt >
    - entry\_pts\_stmnt
  - Annex F, “Top Level Block Sequence” is re-ordered to reflect these changes
  - In section 6.6, “Test Program”, the text “With the singular exception of EntryPoints, all references shall be to previously defined objects.” is removed.

## Action Items:

**Reference documents** (If logged into your google account, can edit. If not, can only view.)

- <http://spreadsheets.google.com/ccc?key=0AoKiPr1I9LY9dF95dkhSTVVqOU5GbWJyWFnHY0JPX0E&hl=en>
- Namespace resolution examples document:  
<http://docs.google.com/Doc?docid=0AYKiPr1I9LY9ZGY4dmNjNTNfMGZkOGJ2bmZy&hl=en>
- Scratchpad spreadsheet: <https://spreadsheets0.google.com/ccc?key=tQ93VDnAZ-CI9RFKpPrPDzw&authkey=COzyro8K&hl=en&authkey=COzyro8K#gid=0>
- Scratchpad "Word" doc: [https://docs1.google.com/document/d/1zVu2M8nTJsrn0nFbBhiuM8-YRt4ErYqdy\\_uSa3x3\\_T4/edit?authkey=CLrgwrsG#](https://docs1.google.com/document/d/1zVu2M8nTJsrn0nFbBhiuM8-YRt4ErYqdy_uSa3x3_T4/edit?authkey=CLrgwrsG#)

**Next meeting:** 03/04/14.

For reference STIL .4 information can be found at the IEEE STIL website: <http://grouper.ieee.org/groups/1450/> (select the [P1450.4](#) link from the table) or use the direct link <http://grouper.ieee.org/groups/1450/dot4/index.html>