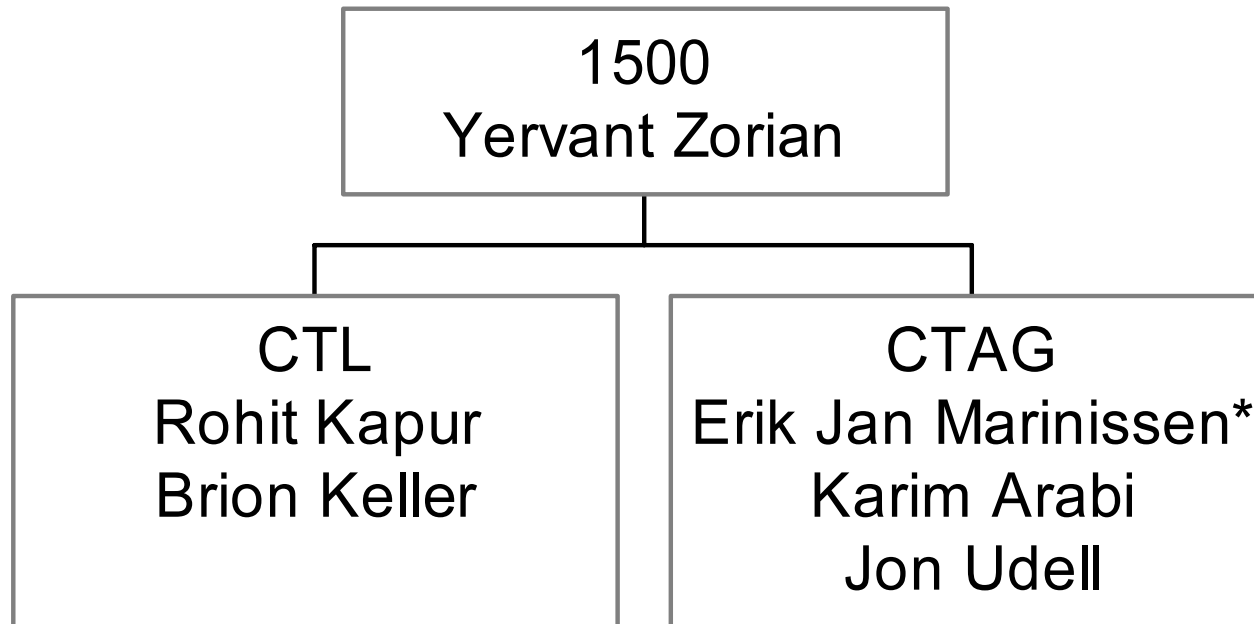


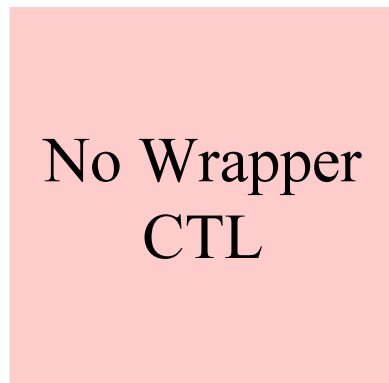
1500 Compliancy Definition Status

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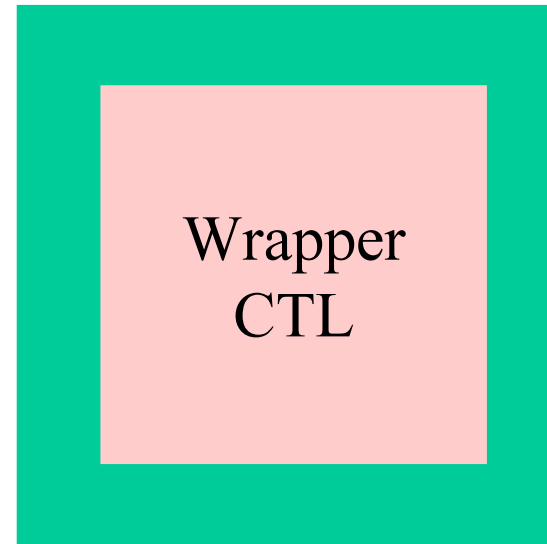


Dual Compliance Concept

IEEE 1500 Unwrapped



IEEE 1500 Wrapped



Our Job:

- **Compliancy definition for Unwrapped Cores.**
- **Compliancy definition for the Wrapped Cores.**

Beginings of Compliancy

SIGNALS:

- All signals of the core should be identified using the Signals block of statements in CTL.
- All non-digital signals identified for the core should be classified according to their electrical characteristics using the following statement.

signame { **ElectricalProperty** *property_type*; }

Beginning of Compliancy Cont.

DETAILS OF SIGNALS

- All digital signals of the core should be categorized according to their test function for all modes using the following CTL statement.

```
signame { DataType (data_type)+; }
```

- Active states of the clocks, test mode signals and scan enable signals as needed for the validity of test information of the core should be identified using the ActiveState statement associated with the DataType.

```
signame { DataType data_type { ActiveState active_state; }}
```

Beginings of Compliancy Cont.

- If the state of the core relies on stability of certain core-input-signals during the scan operation of the embedded environment then it should be specified as follows

signame { InputProperty ScanStable; }

MODES

- Every core should come with at least the definition of an Internal Test Mode in CTL. If the scan based netlist is not provided to the system integrator then the test patterns should be provided using CTL.

Beginings of Compliancy Cont.

Wrapper

- State Elements that are part of the function of the core can be made to operate as part of the wrapper. The state of these elements should be controllable from core inputs.
- All state elements of a core that are part of the final wrapper implementation of the core should be described in CTL as part of a scan chain.

Beginings of Compliancy Cont.

- All IEEE 1500 cells or special signals should be identified using the Wrapper statement in CTL.

signame { Wrapper IEEE1500 CellID cell_name; }

signame { Wrapper IEEE1500 PinID pin_name; }

Lots to do...

Bandwidth

- Number of WPI-WPO pairs
- Width of WPI-WPO pairs

Instructions

- Required/Optional
- Opcodes

WBR Functionality

- Shared or dedicated wrapper cells
- Capabilities (Shift, Update, Capture, SafeValue)

Determine which requirements apply to the two compliancy levels.