Accellera Systems Initiative Functional Safety Working Group

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Accellera Functional Safety Working Group





Functional Safety: Industry Needs and Requirements

- Several gaps between safety lifecycle/best practices and the system/IC design world
- Need for formalization and categorization to enable automation, interoperability and traceability
- Enablement throughout different dimension of the FS scope





FS WG Scope: Enabling Interoperability and Traceability

Standardized information to capture and propagate the FS intent

- Intra-layer: through different safety analysis/operations of the same hierarchy level, e.g. FMEDA analysis, verification
- Inter-layer: between layers of design hierarchy, e.g. System ↔
 Module ↔ IC ↔ IP

FS-aware flow: bridge between the FS work products and the design and verification flow

Enablement throughout

- Different domains (Digital, Analog, Package, PCB, etc)
- Industries (e.g. automotive, industrial)
- Supply chain layers (IP, IC, system)
- Out of Scope
 - Changes to existing FS standards (e.g. ISO26262, IEC61508)





Industry Collaboration and More Information

- Strong participation and contribution from key industry leaders during and after the formation of the WG
- Urgent need from the community to define a much needed format
 - High energy team
 - Ambitious schedule
 - Welcome more participation
- More information from the <u>Press Release</u> and here:
 - Accellera Functional Safety Working Group
 - Alessandra Nardi, Chair (anardi@cadence.com)
 - Franck Galtié, Vice-Chair (franck.galtie@nxp.com)

