

A Secure Gateway for Enabling Application Specific Integrated Circuit Design Collaborations

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ABSTRACT

Leading CAD companies are currently developing virtual secure environments to help lower the barriers for adopting new ASIC design flows. However, such services are proprietary, lack key features, and present barriers for collaboration and sharing. This paper covers the transition of the CRAFT repository, originally designed as a repository for discovery and documentation of ASIC design flows, to a fully secure environment called the CRAFT Vault hosted in Amazon Gov Cloud that allows designers to collaborate and actually implement these flows. The Vault is a fully configured environment that is deployed with all the necessary electronic design automation tools and IP making it easier for end users to implement a CRAFT Design Flow, augmented with Blockchain functionalities to provide a non-repudiable audit trail of what happened and when.

Keywords—*Collaborative Environments, Design Flows, Chip Design*

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