

# CADENCE HOSTED DESIGN SOLUTIONS

Introducing Software-as a-Service solutions for the semiconductor industry

## INTRODUCTION

The increasing consumerization of the electronics market and the corresponding need to reduce both cost and turn-around time is driving electronics makers to integrate more functionality onto a single piece of silicon. This trend is also forcing a change in semiconductor design environments. Additionally, the need for collaboration across multiple geographies, design groups, and design disciplines continues to grow rapidly. The net result is increasing complexity and cost.

Outsourcing the elements of a production-grade design environment that are critical—yet non-differentiating—can help electronics companies to address both cost and risks. Cadence has leveraged seven years of success with a production-proven

collaboration infrastructure and services offering to create new Hosted Design Solutions. These Software-as-a-Service (SaaS) offerings deliver proven design capabilities and assets, enabling electronics companies to achieve faster, more efficient time-to-productivity and lower total cost of ownership (TCO).

## INDUSTRY LANDSCAPE AND CHALLENGES

The relentless drive for more functions—integrated at less cost—in each new IC is leading to changes in the dynamics of the semiconductor industry dynamics. One notable shift is the fact that greater collaboration between designers and design teams is becoming a requirement. Adding to the trend of global outsourcing for cost and talent leverage, increasing complexities in designs require leveraging the most efficient collaboration techniques available as part of any design environment.

Today, for every dollar spent on commercial EDA technology, an even greater amount is required to integrate and apply that technology to customer designs and design environments. The reason for this cost, beyond the required up-front investment in IT infrastructure, includes the use-models, best-practices and integration methods of using increasingly complex design software. Customers must spend time and money to understand, integrate, and apply this knowledge to their specific designs.

These challenges are driving changes in how engineering development is approached—changes that are needed to improve time-to-productivity and scalability, while reducing associated project risk and TCO of tools and technologies to perform the engineering functions.

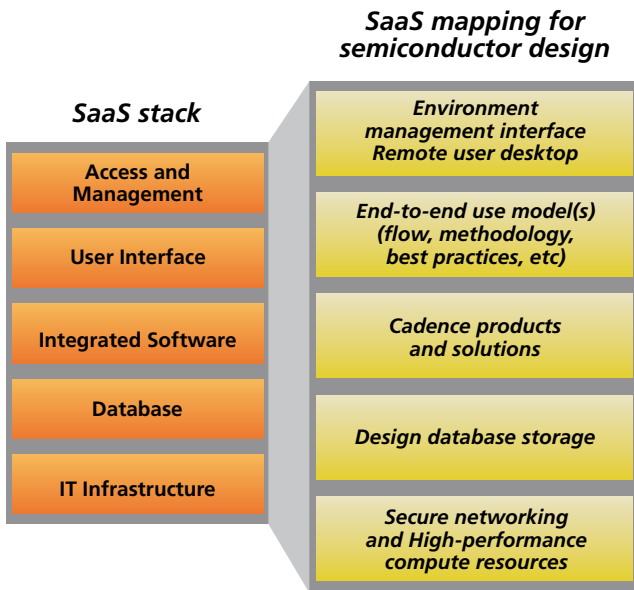


Figure 1. Mapping Cadence capabilities and assets onto the classic SaaS stack

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With the evolution of Internet technology and the advent of Service-Oriented Architecture (SOA) approaches, the Software-as-a-Service model has proven successful throughout the IT industry—particularly for business applications such as ERP and CRM.

For over seven years, Cadence has provided a production-proven, reliable infrastructure for secure design collaboration through its VCAD offering. Leveraging this experience, Cadence® Hosted Design Solutions implement the SaaS model for semiconductor design environments (see Figure 1) by providing the IT infrastructure, design compute resources, storage and secure networking, and access to the design capability, including the software in pre-configured packages (see Figure 2).

These solutions provide business and engineering efficiencies by:

- Delivering production-proven design environments
- Delivering a reliable, secure and scalable infrastructure
- Reducing TCO for EDA products
- Shortening time-to-productivity
- Enabling worldwide design collaboration

Cadence delivers a family of Hosted Design Solutions ranging from packaged and pre-configured hosted design packages to customizable hosted managed solutions. Cadence Hosted Design Solutions are available today for custom IC design, logic design, physical implementation, advanced low power design, block-level and chip-level functional verification.

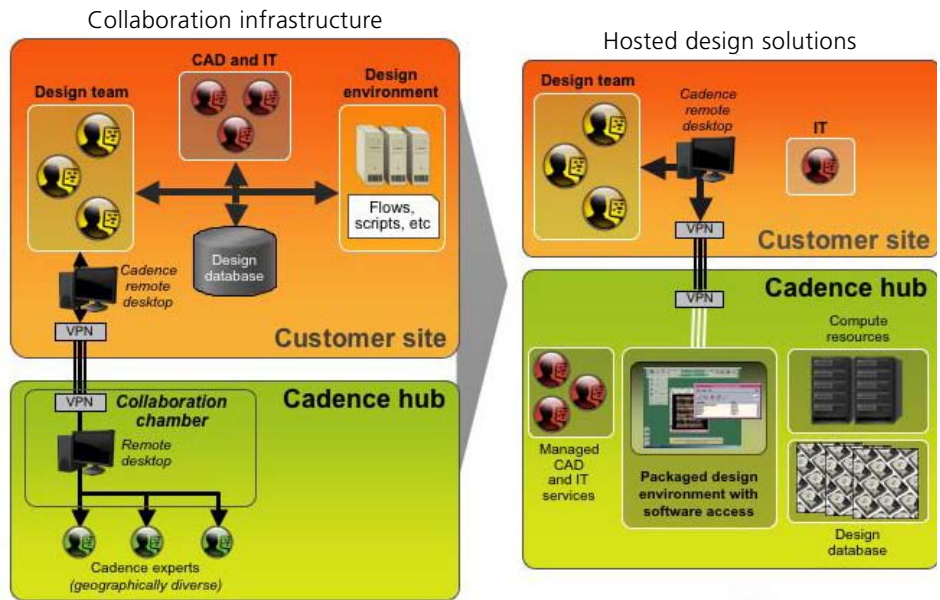


Figure 2. Natural evolution from collaboration infrastructure to hosted design solutions

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