SIEMENS **Mentor®**
A Siemens Business

Key Objectives

- Increase security for sensitive intellectual property
- Securely connect globally distributed customers, suppliers and development teams
- Scalable, on-demand compute resources for design services and other purposes
- Increase flexibility and agility with minimal effort and time

The Solution

- Virtual cross-domain network and security to AWS
- Secure environment with micro-segmentation for enhanced DLP
- Elastic agile virtual infrastructure
- No changes to existing IT infrastructure

Business Benefits

- Enhanced network agility
- Increased productivity
- Allow vendors & partners quick access to in-house collaboration platforms
- Remote accesses for developers and vendors without risks of IP leakage
- No changes to existing IT infrastructure like firewalls
- Deployable on any IT infrastructure

Siemens Deploys CoIP Cloud-Ready Enclave™ Solution Worldwide for Secure Collaboration

Mentor Graphics, a Siemens Business, is a world leader in electronic hardware and software design solutions, providing products, consulting services and award-winning support for the world's most successful electronic, semiconductor and systems companies.

The Challenge

Mentor Graphics provides Electronic Design Automation (EDA) software tools to dozens of design partners and customers, many of whom have globally distributed design teams that collaborate on a single design. These collaborations need worldwide, on-demand secure compute environments for design services, customer trials, product training, benchmarking and demos, among other uses. Creating and maintaining such a secure shared environment proves to be a challenge.

Moreover, due to the global distribution of software development and customer support centers, IT operations are complex. Mentor's IT department is roughly 3% of the total company headcount and must efficiently and economically manage their huge, complex IT infrastructure.

Another critical consideration is protecting Mentor's Intellectual Property (IP) for itself as well as its customers. IP can be worth billions of dollars, so IP protection, or Data Loss Prevention (DLP), is essential. Mentor takes Intellectual Property (IP) very seriously. Changes to IT infrastructure, however, carry the risk of accidental exposure which may lead to inadvertent disclosure of IP assets.

Furthermore, development and design efforts often require flexibility, agility and rapid responsiveness. The IT organization needs to be able to design, set up, run, evaluate and tear down a secure environment in hours. What Mentor needed was a solution that allows the secure deployment of shared environments quickly and easily with minimal involvement of the IT team. The company must be able to establish connectivity between the design platform and its partners, with the ability to restrict access credentials as well as the flow of data.

CoIP Products

- CoIP Cloud-Ready Enclave
- CoIP Enterprise Enclave™
- CoIP Platform APIs

About Zentera

Zentera, named a Cool Vendor in Cloud Security 2017 by Gartner, Inc., secures application workloads in the multicloud ecosystem by connecting them through an isolated, unified, virtual overlay network. The CoIP® (Cloud over IP®) suite of infrastructure security and networking solutions works with any underlay network in any environment, does not interfere with existing infrastructure, and can be up and running in less than a day. It provides defense-in-depth for enterprise applications in the cloud, moving to the cloud or on-premise. CoIP is deployed for worldwide operations by global corporations. The company has received multiple honors, including the 2017 Info Security Startup of the Year Silver Award, and is based in Silicon Valley. For more information, see www.zentera.net.

zentera™
Connect • Protect • Shield

The Solution

Mentor has deployed the CoIP Cloud-Ready Enclave solution, leveraging the AWS public cloud to address the challenges mentioned earlier. This is effectively datacenter expansion, without requiring real estate, server hardware or other physical infrastructure. Mentor has deployed CoIP in its key datacenters around the world, utilizing AWS for internal and customer collaborations. With CoIP, projects can be implemented in one location and migrated almost instantly to the appropriate internal or AWS environments.

Using CoIP, the company has created a secure virtual cross-domain overlay network, or *enclave*, that includes internal company datacenters and AWS. CoIP enables Mentor to build on-demand virtualized collaboration workspaces in its own private datacenters, and in some of their largest customers' private datacenters as well as in the cloud.

As an overlay network solution, CoIP does not require changes to Mentor's network and security infrastructures. CoIP is also secured via SSL encryption, eliminating the need for VPNs. Existing IT infrastructures remain untouched and the security policies unaltered, leading to limited or no need for Information Security (InfoSec) reviews. As a result, the time to set up a secure on-demand environment is reduced from months to days or hours.

Mentor is using CoIP to meet its need for highly secure environments in the cloud, with its multiple security mechanisms, or defense-in-depth. CoIP provides micro-segmentation, also known as east-west traffic filtering, to protect IP assets. CoIP also provides protocol authorization and zAccess™, CoIP's version of a Virtual Desktop Infrastructure (VDI) tool.

CoIP enables a high degree of flexibility and agility with minimal effort and total time. For example, Mentor recently moved a large secure hybrid cloud environment from AWS West to AWS East to take advantage of specialized VMs, while remaining connected to the networks at company headquarters. Total time from the start of the migration to its completion was two days.

Business Benefits

Mentor was able to rapidly deploy secure virtual collaboration workspaces. The result is twofold. This not only eliminates the dependency on physical datacenters, but also adds flexibility and agility that Mentor did not have before without touching existing corporate network and security policies. CoIP also empowers Mentor to create virtual workspaces to facilitate secure collaboration with customers and partners. CoIP helps Mentor to increase productivity and save time yet with the full protection of valuable IP assets.