



SUPPORT

SERVICE

CONSULTING

KNOWLEDGE

EXPERIENCE

SUCCESS

DIGITAL INDUSTRIES SOFTWARE

Siemens EDA Consulting digital implementation services

Enabling SoC design success through powerful tools, best practice flows

Benefits

- Professional project management ensures deterministic flow with predictable results
- Siemens EDA PnR consultants own PnR flow execution and success
- Methodology services to optimize your PnR flow and increase productivity

Summary

The ability to succeed in today's challenging market of digital integrated circuit (IC) and system-on-chips (SoCs) depends greatly on managing two sides of one important coin. The engineering side focuses on incorporating new technologies and design know-how to build complex, differentiated devices that will succeed in the marketplace. Meanwhile, the business side brings its own stark realities, including the increased cost of engineering resources and non-recurring engineering. Additionally, innovation for markets such as the internet of things (IoT), mobility and communication moves fast, dictating tight schedules.

Siemens EDA Consulting and Learning Services provide digital IC design teams' with multiple services offerings to drive project success on the engineering and business side of complex design. We deliver our services deterministically and systematically and we design each interaction to meet the specific needs of our customers. We don't simply get the job done – we provide our clients visibility into the why and how of the effort and transfer the knowledge needed to ensure continued success.

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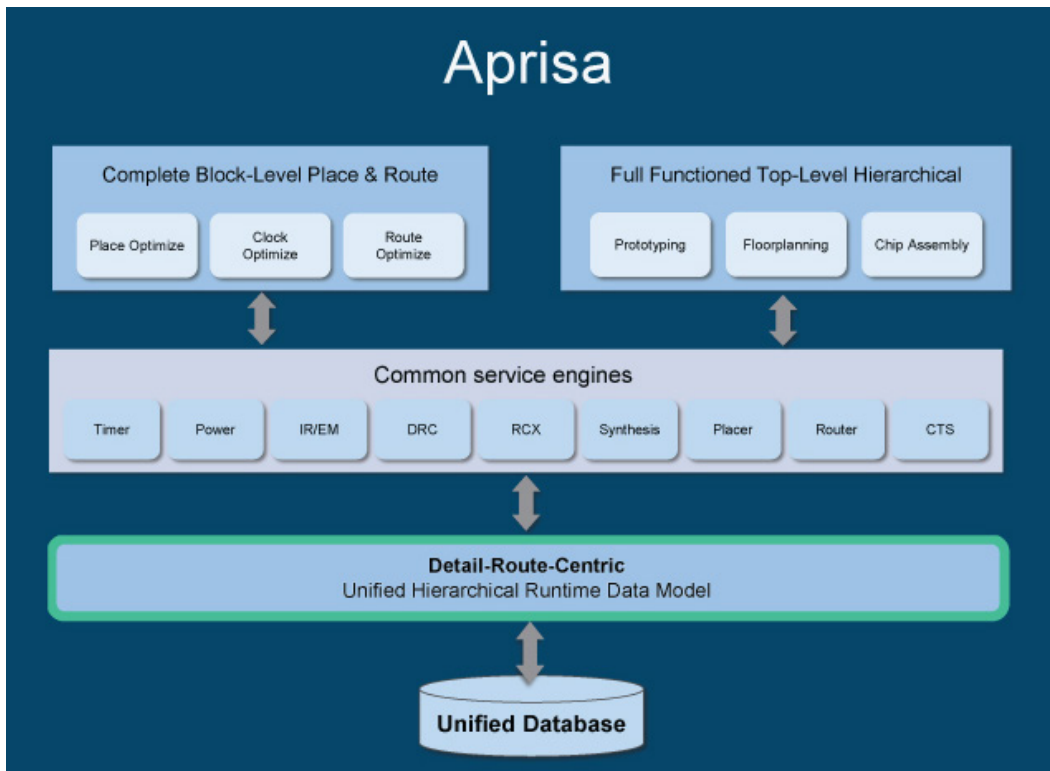


Figure 1: The Aprisa P&R Platform.

Our digital implementation services

We offer three individual services to achieve optimum results for those who require various levels of enablement in the crucial place and route (PnR) flow, from synthesis through signoff.

Our Digital Implementation Design Service is designed to aid customers by using Siemens EDA PnR team to execute designs. We're experienced in delivering at all phases of the design process, including register-transfer level (RTL) development and simulation, design for test (DFT) architecture and implementation, as well as netlist/RTL to GDSII. Design teams use this offering when they need to execute a tapeout but lack expertise or available resources to meet their schedule.

The Digital Implementation Methodology Service manages the transition of your current digital IC flow into higher productivity, production-proven Siemens EDA digital IC environment centered around the Aprisa™ Place and Route Platform place and route tool. Users are typically seeking

improved productivity from their present flow or are constructing a new PnR flow from the ground up. Aprisa and other solutions mentioned in this document are part of the Xcelerator portfolio, the comprehensive and integrated portfolio of software and services from Siemens Digital Industries Software.

Providing various design and EDA tools for any industry

Our team offers a wealth of design and tool experience, working across various application markets, designing in advanced nodes and for multiple foundries. This team, based in our Hyderabad Center of Excellence, has over 100 years of success in addressing diverse design requirements, leveraging their significant design expertise, creating close ties to Siemens EDA research and development (R&D) and providing optimal results to each customer.

Execution

Siemens EDA Consulting Services covers a wide and diverse band of technical domains in both IC and systems development. However, we offer more than just technical excellence. We approach each project with a common mindset – to deliver high-quality results to our customers and achieve them by executing a deterministic, predictable and well-managed project flow.

Our professional project managers execute this process to achieve the following:

- Assess our customers' needs and requirements
- Provide expert development and implementation
- Enable changes to customer methodologies and flows
- Use this knowledge to support customers' success

The details and progress of each technical project always remain transparent to the customer. Our philosophy is that close communication throughout a project's lifetime is key to its success and the customer's satisfaction.

Our team is constantly evolving our methodologies and using feedback to improve productivity and future engagements with customers.

Results

Our team has a track record of success in delivering impactful technical results for customers in demanding vertical markets such as artificial intelligence (AI), automotive, data centers, IoT and networking.

We achieve success by using the powerful capabilities of our Siemens EDA implementation and verification tools including:

- [Aprisa Synthesis Digital Place and Route platform](#), an industry-proven solution that provides you with best-in-class PPA for today's advanced designs, across various advanced technology nodes
- Calibre® platform design solutions, the industry-leading IC verification and DFM optimization PV platform used by teams worldwide to speed up designs from creation to manufacturing, addressing all signoff requirements
- Tessent™ Test software, the market-leading family of silicon test applications and IP that addresses manufacturing tests, debugs and allows you to address challenges for today's most complex SoCs

Siemens EDA Consulting Services brings a wealth of insight and experience to all facets of IC development ranging from P&R to simulation and verification, to manufacturing.

For more information, contact your Siemens EDA representative or email us at EDAServices.sisw@siemens.com.

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