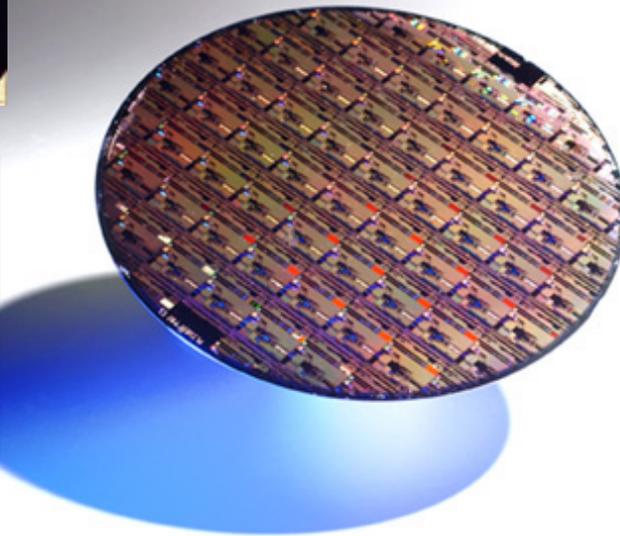
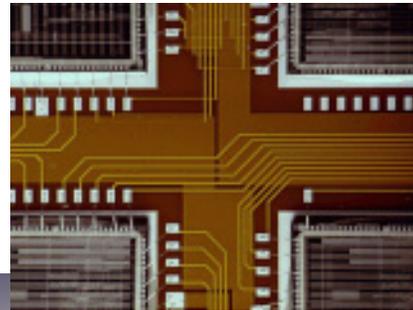
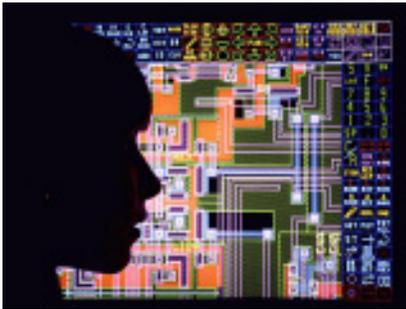




The interoperability solution for EDA software

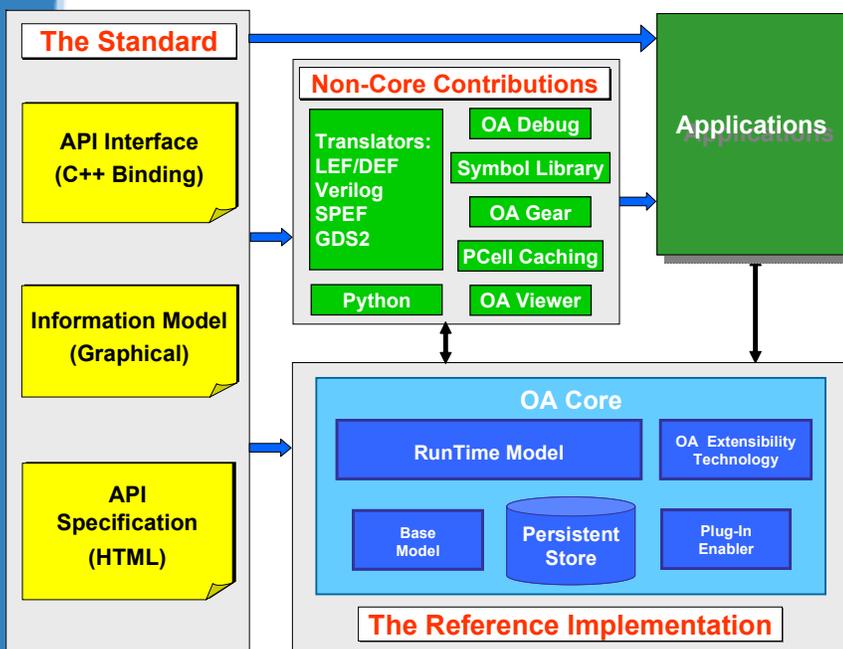


Silicon Integration
Initiative, Inc.

What is OpenAccess?

OpenAccess is a standard API and a reference database implementation developed through the OpenAccess Coalition (OAC). OpenAccess provides an interoperability platform for complex digital, analog, and mixed-signal IC design based on a common, open and extensible architecture that allows use of the most effective design tools available from multiple vendors. The OAC is a group of 16 top electronics and electronic design automation companies focused on creating a standard for true design tool interoperability.

What is OpenAccess?



OpenAccess Goals

Project Goals

- Provide IC design tool infrastructure that yields
 - *Integrated systems* rather than sequential flows
 - *Interoperable flows* with tools from multiple providers
- Promote open standard for IC design data access
- Gain adoption of standard within EDA industry and university research

Evolutionary Growth

- Drive more community engagement and greater non-core contributions:
 - *Core*: Requires tight integration/regression testing
 - *Non-core*: "Above the API", does not require tight integration with Core
- Continue compatible evolution of OpenAccess Core, using Feature-based Compatibility

OpenAccess Coalition Members

Advanced Micro Devices	MatrixOne
AnaGlobe Technology, Inc.	Mentor Graphics
Applied Wave Research	Nangate A/S
Atrenta	NXP Semiconductors
Blaze DFM	PTC
Cadence Design Systems	Pulsic Limited
Ciranova	Pyxis Technology
Dolphin Integration	Renesas Technology Corp.
Entasys Design	Rio Design Automation
Gradient Design Automation	Sagantec
Hewlett-Packard	Silicon Canvas
IBM Corporation	Silicon Navigator
IC Manage	SoftJin Technologies
Intel Corporation	Sun Microsystems
Jedat	Synopsys
LSI	Tektronix
Magma Design Automation	Zuken

The OpenAccess Coalition guides the evolution of the OpenAccess Standard.

All companies are welcome to join in this unique innovation in the EDA industry.



Barry Dennington
Senior VP
CTO/SoC Design Technology
NXP Semiconductors



“NXP Semiconductors has been a dedicated supporter of OpenAccess since its inception. We actively embrace the concept in order to provide rapid and consistent data interoperability between design tools. As members of the Si2 OpenAccess Coalition we aim to accelerate its scope, standardization and acceptance as well as working together with EDA companies to adapt our libraries and flows to support its use.”



Ajoy Bose
Chairman, President & CEO
Atrenta



ATRENTA[®]

“Atrenta is committed to helping RTL designers achieve improved productivity through our innovative solutions. We recognized very early that a common database is imperative to improve productivity within IC design flows. We have adopted OpenAccess because it provides Atrenta with a robust database and the industry-standard translators help us streamline the management of complex physical data within our flow. Furthermore, the direct-access API allows our developers to quickly extend the capabilities within our solutions to address critical customer needs”.



John Chilton
Sr. Vice President,
Marketing & Strategic Development
Synopsys



“Through OpenAccess, Si2 provides us with an opportunity to participate with our industry colleagues in initiatives such as the Interoperable Pcell Libraries (IPL) that drive toward an open custom analog environment.

We anticipate participating in other similar user-driven industry initiatives that are needed to provide an open custom analog environment.

We look forward to the day when analog custom designers are able to operate in a truly open environment, and take advantage of the associated innovations, such as their digital colleagues have enjoyed for many years.”



Dan Rubin
Partner
Alloy Ventures



“As a Venture Investor who still does EDA deals, I need to invest in companies that 1) develop and deploy their technology cost effectively and 2) get to market quickly. Any company that can show me a strong customer value proposition with a short time to market is guaranteed to get my attention.

The move to OpenAccess has created exactly this type of opportunity. That's because the hard work, the database and infrastructure, has already been done by Cadence and the OpenAccess Coalition. Virtually the entire semiconductor industry is compelled to move to OpenAccess. Users are beginning to talk about building flows that are "database-centric" rather than tool-centric. This opens the door for new players to add value in new ways, and do it more quickly than has ever been possible in

EDA.

Think about it: what is going to happen when an IC designer can try a new tool without having to jump through hoops with their data first? This is going to lower the hurdle for evaluations, which is going to change the cost structure for sales and support. The smart EDA startups are going to create new solutions that can be downloaded and evaluated in minutes instead of months. The smarter startups are going to create new business models around that kind of solution. Those are the companies that I want to hear from! “



Hisaharu Miwa
General Manager
Design Technology Division
LSI Product Technology Unit
Renesas Technology Corp.



“Renesas Technology Corp. recognizes the importance of a common database for its unified design system, which will enable new, innovative design flows for SoC designs.

OpenAccess is enabling our tools direct-access to incremental data changes, necessary for 90nm and 65nm flow convergence, to drastically reduce design turnaround time. Renesas is committed to OpenAccess for our advanced design flows.”



David J. Brown
Vice President,
Central Engineering
Instruments Business Group
Tektronix



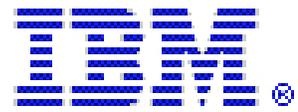
“At Tektronix, our ability to deliver high-performance analog devices efficiently is more than a core competency. It is core to enabling product leadership. The nature of our designs - often very high speed, broadband and nonlinear circuits of significant complexity - requires us to augment commercial offerings with proprietary tool development. OpenAccess is the backbone of our analog flow and the foundation of all our new tool development. It is a key enabler in allowing us to

create flexible, adaptable flows encapsulating the best of commercial and proprietary technology. Our longer term goal is to comprehensively extend this same leverage to our mixed-signal flows.

Tektronix participates broadly in OpenAccess initiatives, including the Change Team, key Working Groups and at the Director Level. We remain committed to supporting the strategic goals of OpenAccess in delivering open standards.”



Leon Stok
Director, EDA
IBM Corporation



"IBM has a long history with Si2. We are particularly pleased with the work done in the OpenAccess Coalition. We have taped out various chips with point tools running on OpenAccess, and are in the process of making OpenAccess a central piece of our design infrastructure. OpenAccess is key to the interoperability of our design environments going forward.

Without Si2 this would not have happened, and interoperability among design environments would have been impossible."



Ishibashi Shinich,
President,
Jedat



"Jedat is a Japanese EDA vendor which has been developing and marketing Custom design environment over 20 years. OpenAccess is a real booster of standardization even in the Analog and Custom area, which needs the breakthrough of design productivity enhancement.

We are confident that OpenAccess is practically excellent in the performance and functionality and we will provide the total environment based on OpenAccess, which will enable the customer to proceed to next generation technology."



Ted Vucurevich
Sr. Vice President,
Chief Technology Officer Advanced
Research & Development

cādence™

“OpenAccess represents the third generation production database infrastructure used in business critical Cadence product offerings. Our IC Implementation products leverage the expanded data model of OpenAccess providing new features and capabilities to our customers .

Cadence, as a founding member of the OpenAccess Coalition and the original developer and contributor of the technology, fully endorses the broad industry adoption and evolution of the OpenAccess technology. Our continued investment in the OpenAccess technology and its subsequent adoption and support within our design platforms and product lines is our way of delivering on our commitment to customers success.”



James (Jim) E. Solomon
Director of AWR, Ciranova, Gemini,
Nascentric, Pyxis, & Silicon Navigator

“OpenAccess has opened the way for EDA start-up companies to provide significant new best-in-class software that is clearly helping us solve some our toughest problems.

One of the more exciting examples of this is occurring in the analog/mixed-signal & digital full-custom design, where physical design has remained stubbornly hand-crafted for years. We are now seeing real automation coming into this area, enabling not only automated physical design, but also process migration and IP retargeting, along with fast parasitic re-simulation - capabilities that were previously thought to be impossible.

Without the very solid infrastructure of OpenAccess, these companies would not have been able to contribute as they have.”



Jim Hogan

Industry Investor

“The world continues to change at a mind boggling rate. Designs are much more complex these days, fortunately computer science has advanced even faster. A state of the art database and environment like OpenAccess is a blessing to both integrators and tool developers.

First order from an Investors’ point of view, to develop such as the OpenAccess capability is incredibly expensive, literally 10’s of millions of dollars. Having OpenAccess to start with shortens the time to product availability significantly and thus makes investments much more capital efficient. From the designers point of view a consistent and predictable environment is perfect no matter what tools they pick for the job. This ensures lower ramp time for new designers and I suspect better quality of results. From the integrator’s point of view the notion of easily integrated tools saves tons of upfront and support time. From a tool developer’s point of view either at a startup or existing company, they can now focus on the value added application and just use a robust infrastructure.

I believe the OpenAccess community and environment have come a long way. My hope is that it continues to gain momentum. ”



Rahul Goyal

Director, EDA Business

Intel Corporation



“Si2 is serving as a vehicle for many types of industry collaborations that benefit its member companies by providing processes that lead to formation and market adoption of inter-related standards.

Intel plays an active, leadership role in both the OpenAccess Coalition and Si2, as part of its commitment to open industry standards.

OpenAccess is starting to play an important role in enabling design interoperability with our EDA partners.”

www.si2.org
www.OpenEda.org



**Silicon Integration
Initiative, Inc.**