

## Silicon Integration Initiative

# OpenAccess Overview



# What is “OA”?

- ❑ OpenAccess is a C++ Application Program Interface (API) to an industry standard, enterprise, database for the EDA Industry.
  - “**OA**” = OpenAccess, as defined by the **OpenAccess** Coalition
  - **API** = The Interface between the **A**pplication **P**rogram an EDA developer creates and the design database
  - **Enterprise database** = A database intended for multiple simultaneous users and very large amounts of design data
  - **EDA** = Electronic **D**esign **A**utomation

# How do Members use “OA”?

Can be used as a common database for multiple EDA supplier tools within a single design flow

- Cadence, Mentor, Synopsys, Keysight, and others
- This idea is called “Interoperability”

OpenAccess is used by EDA developers

- Several design tools are “native” on OpenAccess
- Several design tools incorporate OpenAccess for data translation
- Proprietary R & D tools that don’t yet exist

Used by designers

- C++ for faster tools dealing with huge data (wafer level)
- Scripting form for point tools, quick applications, etc.

Used as a stand-alone database

- Designs can be done end-to-end with only OpenAccess data



# Where did OA Come from?

1988: CFI (CAD Framework Initiative)

- Drive Interoperability within the EDA industry

1997: CFI became Silicon Integration Initiative in

2002: OpenAccess was contributed by Cadence

OpenAccess Coalition formed

OAC Board (Director-Level Members)

OA Change Team

Two Architects, Cadence and one other

Director level Member companies vote

OA Extensions Steering Group

Defines Formal Extensions to OpenAccess

oaScript, oaxPop, oatDebug,...

Today we have ~~42~~ 44 member companies



# How do I get OpenAccess?

## Join the OpenAccess Coalition!

- Cost varies by company size
- Dues Calculator
  - [www.si2.org](http://www.si2.org)->Join->Membership Quote
- Members have source code access
- Members have redistribution rights
  - In support of your EDA application
  - Not reselling rights, you must join the Coalition to get OA
- Any member can participate in Extension Working Groups
- Director Level Members (>1Billion Revenue) can Participate in the OAC Governing Bodies

There are many other advantages to membership!

- Go to: [www.si2.org](http://www.si2.org)->Join

