

## What is ECIX

- Open standards to enable unambiguous exchange of electrical component information
  - Complete Component Information Model
  - Comprehensive dictionary of component properties
  - Computer sensible timing diagrams
- Between component information suppliers and their end-users
- XML based for computer sensibility
- Supporting SOC through PCB level packages



## What is QuickData

- XML-based eBusiness exchange protocol
- Supporting "Give me what I want, When I want it" paradigm
- Supporting Query filtering
- Supporting multicast queries
- Dictionary driven messages for fullest extensibility
- Using standard internet protocols



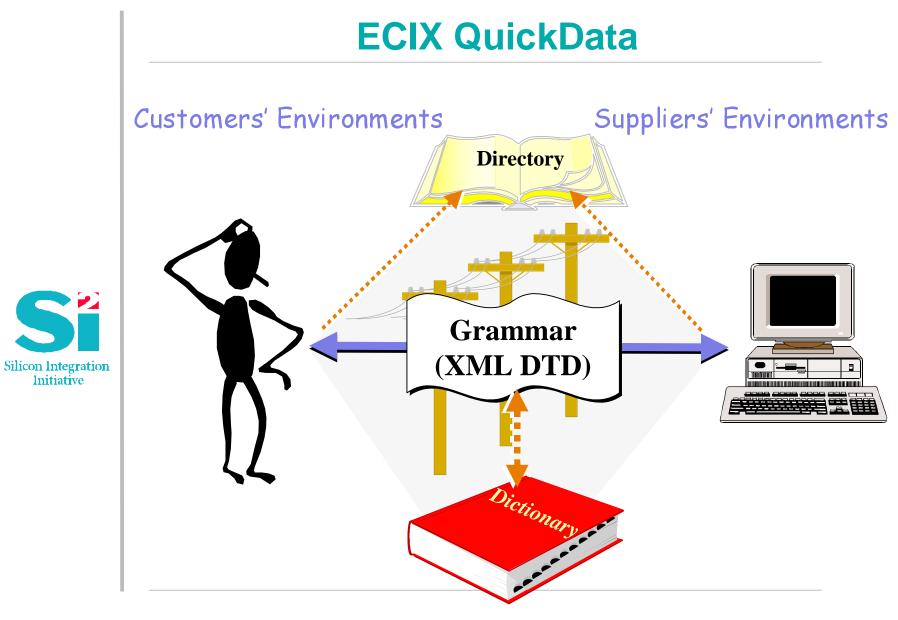
# **Typical ECIX/QuickData Use Cases**

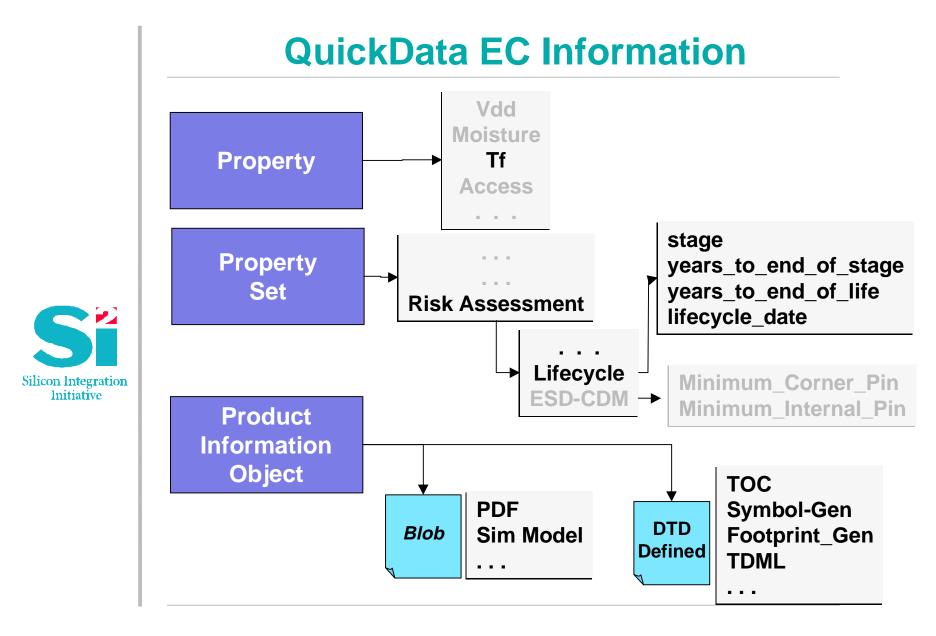
- Consumer
  - Single interface to parts information internal to company and to suppliers worldwide
  - Locate parts to use meeting specified criteria
  - Get requested information specific parts on demand
  - Automate transfer of part information into local systems

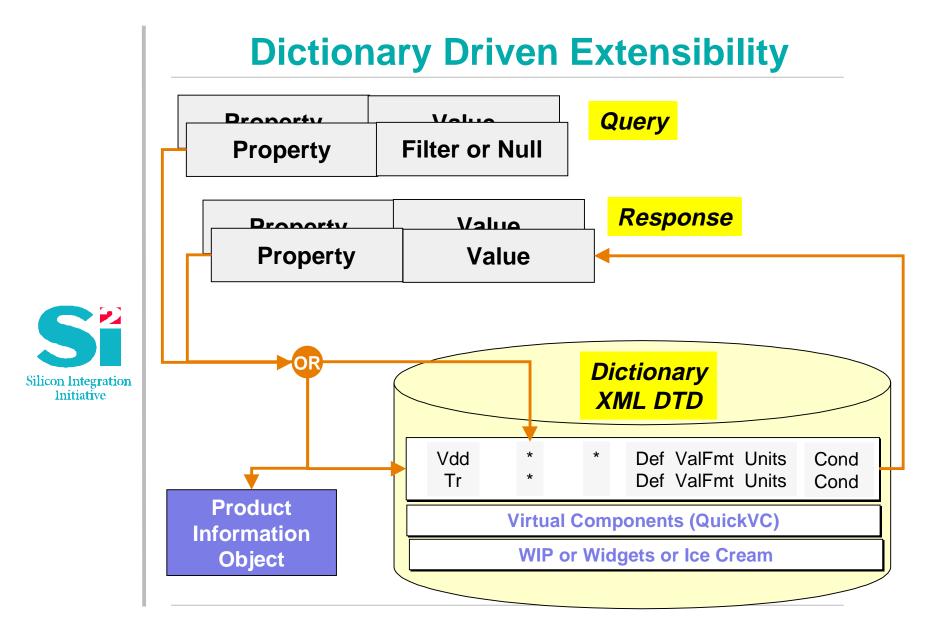


### Supplier

- Automate responses to part data requests
- Base responses on requestor relationship
- Single format for all customers
- Target change information accurately







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# Registry

- Identifies Participants (players)
  - e.g., company name, URL, contact
- Identifies Roles
- Identifies Domains of Use
- Binds participant(s) to use models, dictionaries



#### • Example Registry data:

DUNS #	Contact	Role	QD version	App Domain	URL
867385940	(512) 342-2244 x 34	supplier	QD 1.0	QED 1.0	http://herbie2.si2.org/egi-bin/qdQueryHandl
123456789	(512) 342-2244 x 34	supplier	QD 1.0	QED 1.0	http://herbie2.si2.org/egi-bin/qdQueryHandl
123456788	(512) 342-2244 x 34	supplier	QD 1.0	QED 1.0	http://herbie2.si2.org/cgi-bin/qdQueryHandl
867385941	(512) 342-2244 x 34	supplier	QD 1.0	QED 1.0	http://herbie2.si2.org/cgi-bin/qdQueryHandl
621911718	d@si2.org	supplier	QD 1.0	QED 1.0	http://herbie2.si2.org/cgi-bin/si2supplier.pl
	Get Current Registry	Select A	II Deselect #	All Apply & C	lose Window
	867385940 123456789 123456788 867385941 621911718	867385940    (512) 342-2244 x 34      123456789    (512) 342-2244 x 34      123456788    (512) 342-2244 x 34      867385941    (512) 342-2244 x 34      867385941    (512) 342-2244 x 34      621911718    d@si2.org	867385940      (512) 342-2244 x 34      supplier        123456789      (512) 342-2244 x 34      supplier        123456788      (512) 342-2244 x 34      supplier        867385941      (512) 342-2244 x 34      supplier        867385941      (512) 342-2244 x 34      supplier        621911718      d@si2.org      supplier	867385940      (512) 342-2244 x 34      supplier      QD 1.0        123456789      (512) 342-2244 x 34      supplier      QD 1.0        123456788      (512) 342-2244 x 34      supplier      QD 1.0        123456788      (512) 342-2244 x 34      supplier      QD 1.0        867385941      (512) 342-2244 x 34      supplier      QD 1.0        867385941      (512) 342-2244 x 34      supplier      QD 1.0        621911718      d@si2.org      supplier      QD 1.0	867385940      (512) 342-2244 x 34      supplier      QD 1.0      QED 1.0        123456789      (512) 342-2244 x 34      supplier      QD 1.0      QED 1.0        123456788      (512) 342-2244 x 34      supplier      QD 1.0      QED 1.0        123456788      (512) 342-2244 x 34      supplier      QD 1.0      QED 1.0        867385941      (512) 342-2244 x 34      supplier      QD 1.0      QED 1.0

# **ECIX Architecture Summary**

- Only interchange protocols are specified
  - Customer/supplier formats remain proprietary

#### • Customer selected requests

- TOC, Object, Property Set, Properties
- Query by name or logical and relational expressions
- Bi-directional Pull and Push
- Dictionary Ensures Sensibility, Provides Extensibility
- Registry identifies compliant participants
  - Machine sensible status codes, property/class semantics



## RosettaNet

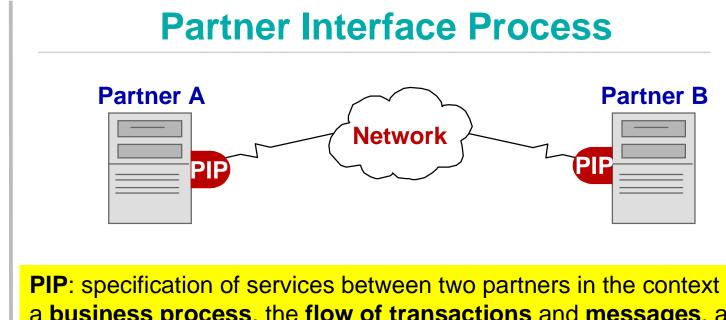
#### RosettaNet

- Business Consortia for the IT and EC supply chains
- Define and implement open and common Partner
  Interface Processes (PIPs) for business transactions
- Designed to align the electronic business interfaces between supply chain partners for IT and EC



### • ECIX

- Technical Consortia for EC supply chain
- Define open standards for electronic exchange and use of component information, across the entire *find-trydesign-buy-build* lifecycle, between EC supply chain companies



Silicon Integration Initiative

**PIP:** specification of services between two partners in the context of a business process, the flow of transactions and messages, and the data properties within these messages

### **PIP Clusters**

- Partner/Product Review
- **Product Introduction**
- Marketing Information Mg't.
- Order Management
- **Inventory Management** •
- Service & Support

