

# VersIC™ 2.0 Platform



## Next Generation Data Management and Global Design Collaboration



### Switch to VersIC and enjoy:

#### A Modular "DM-Driven" Architecture

The VersIC platform integrates "DM-Driven" modules that extend the DM platform to provide a higher, more efficient global design experience.

#### High Performance Cadence Design Data Management

VersIC operations are often up to 100x faster than other tools in the DM space that depend on old RCS-style technologies with NFS mounts and "link caches." VersIC communicates with the central repository via streaming TCP/IP, and transactions occur at near wire-speed.

#### A Scalable, Multi-Site DM Solution

VersIC uses "slave" repositories at the remote site to minimize WAN latency. These remote repositories automatically stay in sync with the master server and serve data locally to remote users.

#### Robust Data Management

Millions of users can't be wrong! The established software user base for SCM tools dwarfs the custom-IC user community and ensures that the data-management databases see more bug fixes, performance improvements and generally a greater pace of development.

#### The Tightest Integration to the Cadence Virtuoso/Composer Toolset

VersIC is completely encapsulated in the Cadence design environment. Edit operations are seamlessly captured, and the DM operations are invoked with no added overhead on the user.

#### Open Data Storage Using Industry-Standard CM Tools

Using industry-standard CM tools as the backend database means that your design data is never locked in to a proprietary system. It also means that the CM companion tools ecosystem is available to facilitate your IP and release methodologies.

#### Integrated Defect Tracking

Manage your defects directly from the VersIC environment as part of your commits, and track the state of your design when the bug was found and fixed.

The VersIC 2.0 Platform is a new approach to the management of IC design data. It provides a comprehensive, unified and reliable design data management (DM) experience in the Cadence design environment. With VersIC a truly **collaborative design environment** across multiple design locations is possible. Cadence libraries, Verilog, Ocean scripts, software, docs and other design assets can be versioned, configured and released on one platform with a single point of release.

The VersIC 2.0 Platform has a flexible architecture that allows you to use your CM (configuration management) tool of choice. **Subversion and Perforce** are supported today (with ClearCase under development), but it's possible to integrate any backend CM tool with minimal effort.

You can also plugin "**DM-Driven**" modules into the VersIC platform, which extends the DM integration to other important parts of your methodology. Available modules include ReviewIC for design reviews in a multisite environment and MergelC to enable visual Diff/Merge on a schematic or layout. Other modules are under development, including a continuous integration implementation for IC design.

## What our customers are saying about VersIC and Methodics

**"VersIC gives us the high performance configuration management tools we need to facilitate PDK development, project design data management, and IP variant sharing across design teams. We now have the high performance backbone we need to enable true collaboration in our hardware design environment."**

Dustin DeVries, Cirrus Logic

**"We use VersIC in our world-wide, multi-site design environment and are very pleased with its stability and performance."**

Joe Dao, Netlogic Microsystems

**"The VersIC/Perforce combination allows us to manage our IP re-use and tape-outs. In addition, it allows a high level of collaboration with our groups internationally for a number of designs at Bosch. We are very happy with its performance, level of functionality and ease-of-use. VersIC/Perforce will continue to be a very important part of our tool suite at Bosch."**

Clemenz Portmann, Bosch

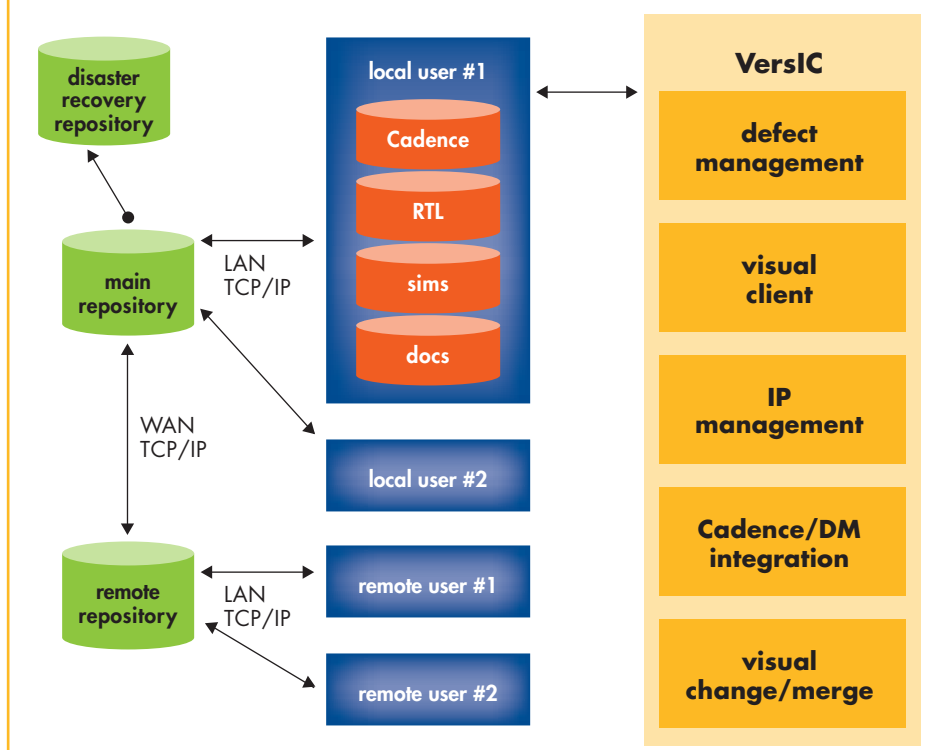
**"The VersIC DM tool, in conjunction with Subversion, has become an integral part of our Cadence IC design flow. The ability to log and track our design progress in conjunction with the seamless integration of Cadence and Subversion has been invaluable to our release process."**

Ali Hadiashar, Bitwave Semiconductors

**"We use VersIC/Perforce in Cadence 6.1 and have benefited from the tight integration and performance. VersIC is non-intrusive and gives us access to Perforce release methodologies for tapeout. We are very pleased with the attention to detail Methodics has applied to this mission-critical aspect of our design process."**

Weikai Sun, Tabula

## VersIC Network Architecture



### Global Availability

VersIC enables a globally scalable architecture through the use of remote "slave" repositories that are automatically synchronized with the master repository. Read operations (version history, locks, etc.) on the repository are always local operations for remote users, and write operations are sent automatically over TCP/IP to the master.

### Disaster Recovery

VersIC allows the creation of mirrored repositories across multiple regions that can act as a second source of metadata and other read-operation activity in high-load environments, and can be used as roll-over commit repositories in case of failure.

### Best-in-Class Performance

VersIC's inherent scalability takes advantage of: a well-tuned relational database to ensure rapid response times; an efficient streaming network protocol to minimize the effects of latency; an intelligent, server-centric data model that is network-friendly and keeps the database performing at top speed.

### Access to 3rd-Party Project Management Tools

VersIC works with completely standard repositories and meta-data. This means that native tools and the many 3rd party applications are available to your project planning and IP management methodologies. Track changes and manage IP variants across different projects using branches. Take advantage of the tools millions of software developers use for release and IP management in your IC design methodologies.

### Configuration Management

VersIC includes powerful configuration management tools, enabling users to mix different branches, tags, shared workspaces and custom IP in the same local workspace. Libraries can contain a mixture of managed and un-managed cells, and unused libraries can be "hidden" and depopulated from the workspace.

methodics™

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Visit us online at [www.methodics-da.com](http://www.methodics-da.com).

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