

## SOS viaDFII - DM for the Cadence® Virtuoso® Platform

SOS viaDFII provides unparalleled design data management and multi-site team collaboration support for the Cadence Virtuoso custom design IC platform. Cadence IC design tools are seamlessly integrated with the SOS Design Collaboration platform, streamlining the development of complex ICs with large teams across geographically dispersed sites.

SOS viaDFII empowers project teams with new levels of data collaboration by providing access to SOS data management and collaboration features directly from the Cadence Virtuoso custom IC design platform. SOS DM features can be readily invoked from the Virtuoso Library Manager and design editors. Designers can work with logical design units such as libraries, cells, and views without thinking about the co-managed set of physical files that make up these logical design units.

SOS viaDFII is 'design-aware' and supports DM operations for an entire design hierarchy or for a category of cells. For instance, all the cell views in a design hierarchy or category can be selected and checked-in or tagged in a single operation. Support for the Generic Data Management API (GDM) ensures seamless integration with the entire Virtuoso design flow. SOS DM commands are available directly in the Virtuoso user interface. Cell views are also checked-out and checked-in automatically to simplify the data management experience.

SOS viaDFII supports both IC 6.x (Open Access) and IC 5.x (CDB).



ClioSoft DM in Cadence Virtuoso



Features	Benefits
Built on SOS Design Collaboration Platform	Efficient multi-site collaboration. Manage all project data from concept through tapeout in one integrated system.
Manage Libraries, Cells, Views	Work at the abstraction levels of libraries, cells, and views and let SOS viaDFII deal with the co-managed set of physical files that make up these design objects.
Cell View as Composite Object	Multiple physical files that make up a logical cell view are maintained as a single composite object in SOS, ensuring that DM operations on the design unit are atomic and efficient.
DM from the Virtuoso Library Manager	Work within the familiar Cadence IC design environment and access DM commands conveniently from the Library Manager.
DM from any Virtuoso Editor	Access DM commands from the Design Manager menu conveniently embedded into the schematic, symbol, and layout editors.
Auto Check-out/Check-in	Integration with Cadence GDM (Generic Data Management API) facilitates 'just-in-time' check-out and check-in. Cell-views are auto-matically checked out when opened for edit making DM operations a seamless part of the workflow.
DM for Design Hierarchy	Easily perform DM operations on a design hierarchy. For example, hierarchically check-out or tag all the layout views of a higher level cell.
DM by Category	Easily perform DM operations for a category of cell views. Makes large libraries more manageable.
Links to Smart Cache	Workareas with symbolic links to smart cache minimize disk space without compromising workarea stability. Ideal for projects with large teams and big libraries.

*"SOS viaDFII is very well-integrated with the Cadence tool set. It is simple, yet complete. We adopted several new tools for this project and SOS viaDFII has been an unqualified success!"*

**Brenda vanVeldhuisen, Tektronix**

*"ClioSoft's SOS combined with Cadence's Virtuoso IC 6.x platform provides an integrated design data management solution that is very important to our customers."*

**Steven Lewis, Marketing Director, Cadence Design Systems, Inc.**