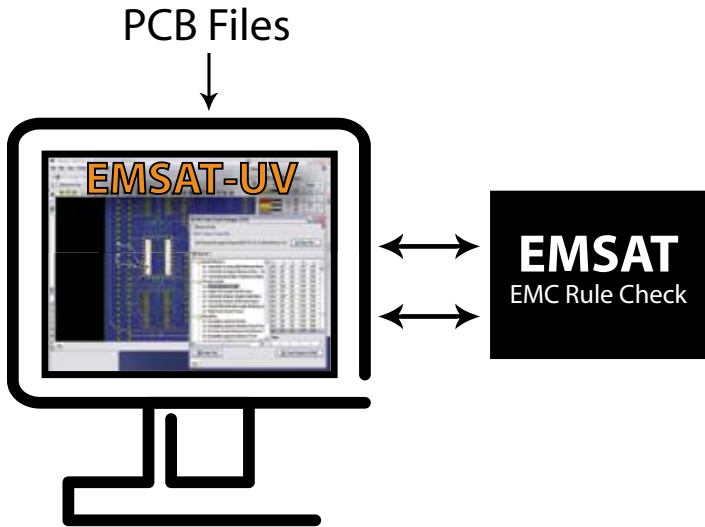


## Universal Viewer for EMSAT



### Major Product Benefits:

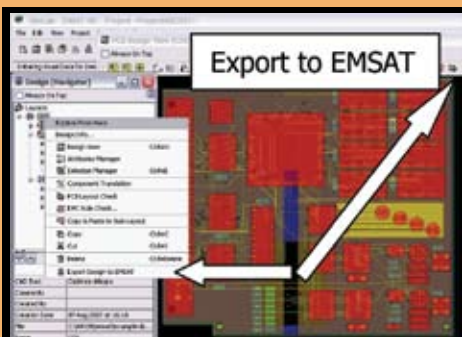
- EMSAT companion for viewing and board file translation
- Full-featured PCB Viewer
- Imports all popular board files:
  - Altium Protel 99SE, Protel
  - Cadence Specctra DSN
  - Mentor BoardStation, Expedition, & PADS
  - Zuken CR 5000, Visula
- Impedance calculator
- Graphical stack-up editor
- Electrical continuity check
- Graphical violation viewer

EMSAT-UV (Universal Viewer) is the perfect companion to EMSAT, the EMC rule checking software tool from IBM. EMSAT-UV reads in most popular board layout files and has a full-featured viewer ideally suited to casual users of PCB design layout tools. The graphical stackup editor gives the engineer the opportunity to enter the stackup information that is often missing from the board file, e.g. layer thickness, material properties, etc. The handy ImpedanceCalculator is a bonus feature that provides the user important trace impedance information. One final preparation step is the electrical continuity check, something that is often overlooked during layout review.

Having completed the board import, edit, and review process, the board file is now ready to export to EMSAT for EMC rule evaluation. The translated board file is saved and EMSAT is launched from the EMSAT-UV menu or toolbar, ready to import the board file and begin EMC rule checking. Any rule

violations will be saved to an output file that is read by EMSAT-UV.

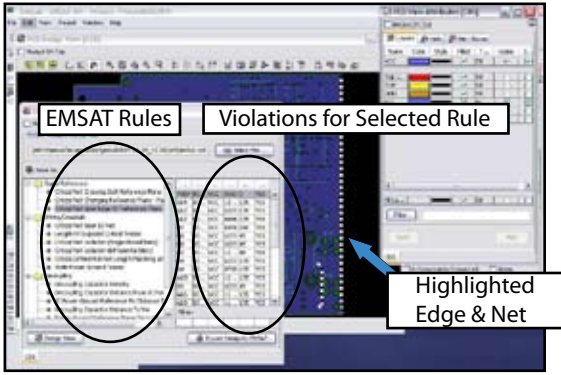
Viewing violations in EMSAT-UV is very similar to board viewing during the initial stages, except the user is now taken to the location on the board where the violation occurred. The coordinates from the selected violation navigate the viewer to the highlighted area for easy recognition. Images of the board and the highlighted area of the violation can be saved as JPEG files for archive and information exchange.



EMSAT and EMSAT-UV combine to give the power and flexibility of full feature PCB viewing and a list of EMC rules that IBM feel are the most critical or important. Automate your EMC design review process with the help of these IBM software tools that were created by experienced EMC engineers for EMC engineers.

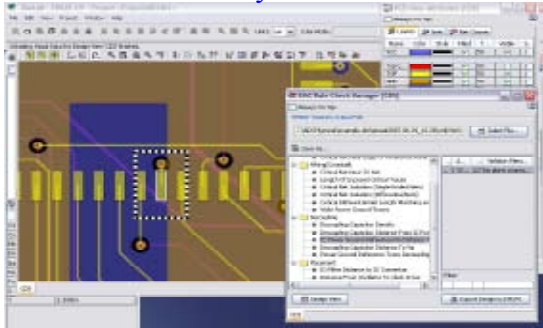
**“IBM Knows EMC”**

Violation viewing



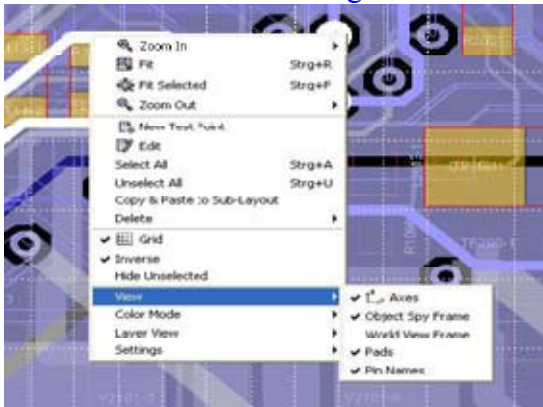
Violation list and highlighted violation appear side-by-side. Select a violation from the list and the viewer jumps to the location of the highlighted violation.

Electrical Continuity Check



Electrical continuity check detected missing connection. Continuity is critical to electrical performance even though it is beyond the scope of an EMC rule check.

Full-featured board viewing



Full featured board viewing includes: zoom, pan, fit, fit selected, axes, object spy frame, world view frame, pads, pin names, and panning magnifier. Copy & Paste to Sub-layout exists to enhance viewability.

Impedance Calculator



Built-in impedance calculator using stackup information provided to the Stackup Manager and user entered line width.