**Customer**

**Nujira, Ltd.** is the world leader in Envelope Tracking (ET) technology and solutions for powering energy efficient 4G cellular terminals, base stations and digital broadcast transmitters.

Nujira's Coolteq® solutions power the world's most energy efficient 4G cellular base stations and Digital TV transmitters. Building on this success, Nujira is now applying the same energy efficient technology to smartphones and other portable wireless devices.

**Challenge**

*Paper-based Engineering Processes*

As CAD Engineering Manager, Richard Sharples is responsible for Nujira’s CAD database, component and parts library, and all EDA (Electronic Design Automation) tools. His goal was to find a solution to help Nujira gain better control over their engineering data and processes. The company was using a component management database that was initially sufficient for their needs, but as Nujira grew, it became inadequate to control information such as Engineering Change Orders (ECOs) and product documentation. For example, when checking an ECO, engineers would have to compare the previous Parts List with the new Parts List line by line in a spreadsheet or on paper. This process was open to error and often took up to a day complete, as they would always double check it for accuracy. In addition, Nujira had to address concerns associated with silos of information that were a consequence of their manual processes.

"Once a product is in production and a company commits to volume and money, any mistake in a Bill of Material propagates throughout," stated Mr. Sharples."We had silos of information that

**Quick Facts:**

**Company**
- Nujira, Ltd.

**Industry**
- Envelope Tracking Technology

**Key Benefits**
- Eliminate silos of product information
- Efficient BOM, change and document management
- Direct integration with Mentor Graphics Expedition® PCB
- Closed-loop and error-free automated processes
- ECO checking reduced from one day to seconds
- Parts List import reduced from hours to minutes
- Reduce time spent searching for information
- Cost savings with accurate and up to date data

**For More Information:**
- t: 978-988-3800
- e: info@omnifysoft.com
- w: http://www.omnifysoft.com

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were the result of people creating and saving documents locally and we continuously ran the risk of someone using outdated information. An error from sending the wrong data to a Contract Manufacturer could potentially cost tens of thousands of pounds."

Nujira needed a central location to manage and access engineering information in order to eliminate tedious searches for information on the network or losing information all together. Ensuring accuracy of the data was also a critical requirement.

Solution

PLM with Direct Integration to Mentor Graphics Expedition® PCB

Nujira wanted a solution that would easily integrate with their existing Engineering Design Automation (EDA) tools from Mentor Graphics. Their EDA product sales and support partner, Saros, introduced Omnify Software as a solution that would perfectly meet their needs. Omnify Empower PLM could provide Nujira with a central location to manage and access product information, automate their ECO, BOM (Bill of Material) and document management processes, as well as integrate with their PCB design environment, Mentor Graphics Expedition PCB.

Nujira implemented the Empower PLM solution within their Engineering department (initially Design Engineering and Production Engineering). Working very closely with Saros and the direct Omnify Software Application Engineer, Nujira converted their existing component database and all testing was complete, including the integration to Mentor Graphics Expedition PCB, within a month. The product was then rolled out to the Test Engineers. “We have had excellent support from both Omnify and Saros since day one,” noted Mr. Sharples.

Customer Success

Accurate Data, Huge Time Savings and Peace of Mind

Implementing more efficient engineering processes supports Nujira’s mission to “push the envelope of Power Amplifier efficiency.” By eliminating manual editing of information Nujira has been able to narrow the window of opportunity to make mistakes, which saves the company a great deal of time and ultimately a great deal of money.

“We selected the Omnify Empower PLM solution mainly because it had proven, out of the box integration to our Mentor Graphics tools,” said Mr. Sharples. “Design engineers are now able to utilize the power of the database by selecting components directly from Empower PLM and placing them onto schematics.” This creates a closed-loop, error-free process that eliminates the need for any manual editing where a BOM is then generated from the final schematic and loaded directly into Empower PLM. “Our previous process to import a Parts List from a schematic took well over an hour to complete (for every Parts List) and now it takes only a few minutes,” noted Mr. Sharples. “In addition, checking an ECO has been reduced from a full day to only a matter of seconds with the redlining capability of Empower PLM.”

The Empower PLM system provides Nujira with better change control, revision control, and documentation control. The company has smoother development through automated processes and centralized information. “We now have very, very good control over our engineering data,” stated Mr. Sharples. “With Empower PLM, engineers can go to a central location to access accurate and up to date information and it gives us the confidence that latest documents, BOMs and changes are in fact the most current versions.”