



Enabling Innovation in Electronic Chip Design

AT A GLANCE

Industry

Technology Services

Products

Application Platform On Demand
SDK

Challenge

Chip designers need to transfer large volumes of data to and from Nefelus' cloud platform.

Solution

Nefelus selected Aspera Application Platform On Demand and used the SDK to integrate FASP™ directly with their web portal for end users.

Results

- Aspera reduces transfer times by up to 99 percent.
- Aspera protects Nefelus users' sensitive IP throughout the transfer process.

Nefelus offers a cloud-based software service that provides integrated circuit (IC) design tools and hardware infrastructure running in the cloud to expedite design tasks in the area of Electronic Chip Design.

IC design companies play a critical role developing the computer chips that power everything from enterprise servers to mobile devices. However, upfront technology and infrastructure investments in the latest design tools, as well as access to scalable computing power to support intensive design work, present a difficult challenge for these companies to stay competitive in the market. Nefelus' innovative platform helps solve these challenges with scalable computing resources and by providing access to powerful third-party Electronic Design Automation (EDA) tools to accelerate semiconductor and chip design projects.

Nefelus has selected Aspera to speed the transfer of large design files to, from and through the cloud, allowing users to take full advantage of the platform and reducing project turn-around times.

CHALLENGE:

Nefelus built its platform to enable efficient and affordable IC design; but for designers to get the most out of the platform, Nefelus needed to provide a robust transfer mechanism to move customers' data in and out of the cloud. IC designers required a fast and reliable transfer solution with maximum security to protect valuable data throughout the transfer process.

“Aspera enables our business. Together, we are helping remove the traditional barriers to entry in the semiconductor industry, empowering the next generation of IC designers to drive innovation.”

 Dimitris Fotakis
CEO & Founder, Nefelus

Plus, the transfer solution needed to be able to handle large volumes of files while maintaining fast speeds. Files range in size from megabytes to gigabytes, and grow considerably during the design process.

BENEFITS

High-speed transfers: With Aspera, Nefelus users can transfer large design files to and from the cloud at maximum speed, regardless of file size, transfer distance or network conditions.

Cloud-ready solution: Aspera On Demand moves data to the cloud without requiring costly infrastructure implementations, allowing users to take full advantage of all the benefits of cloud computing.

Enterprise-grade security: Aspera's enterprise-grade security features built-in, SSH authentication, encryption in transit and at rest, and data integrity verification for each transmitted block, protecting sensitive IP throughout the transfer process.



ABOUT NEFELUS

Nefelus provides a cloud-based software service to end users to expedite design tasks in the area of Electronic Chip Design. The service provides all the mechanisms necessary for the end-user to perform isolated design tasks and/or task flows consisting of many steps. Plus, Nefelus service provides the hardware infrastructure required to execute complex tasks as well as the tools and tool setups required for their execution. The service is available to end users 24/7 as a turn-key service with no setup requirements except a brief user authentication (login) procedure.

SOLUTION:

After reviewing their options, Nefelus selected Aspera Application Platform on Demand for high-speed transfers to the cloud platform and the SDK to seamlessly integrate Aspera's patented FASP™ technology directly with their web portal.

With Aspera Application Platform On Demand, designers' files are delivered directly into the cloud, where design teams can take advantage of high-performance computing capacity for intensive design tasks and advanced collaboration capabilities that makes it easier for global teams to connect and share knowledge to fuel innovation.

End users can access the Nefelus web portal and upload their design files to the cloud using Aspera's Connect Web Browser Plug-in. Once the transfer is complete, designers can select from a full library of design tools provided by third-party vendors in the Nefelus marketplace

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 **Dimitris Fotakis**
CEO & Founder, Nefelus

and work on the project with team members around the world. Once the work is complete, the designer initiates a fast and secure download via Aspera to transfer output files back to a local system.

RESULTS:

With Aspera Application Platform On Demand, designers now have a simple and secure way to deliver large files to the Nefelus platform from anywhere in the world while reducing transfer times by up to 99 percent.

“The combination of Nefelus’ innovative cloud platform and Aspera’s high-speed transfer technology is changing how IC designers and organizations can collaborate across long distances,” said Dimitris Fotakis, Founder and CEO, Nefelus. “Aspera is the trusted provider of file transfer technologies, ensuring the fast and secure delivery of intellectual property to and through the cloud.”

The combination of Nefelus and Aspera helps solve the major challenges facing IC design companies today with cloud-based tools and scalable computing resources supported by Aspera's high speed transfer of large files between design teams.

“Aspera enables our business,” said Fotakis. “Together, we are helping remove the traditional barriers to entry in the semiconductor industry, empowering the next generation of IC designers to drive innovation.”

About Aspera

Aspera is the creator of next-generation transport technologies that move the world's data at maximum speed regardless of file size, transfer distance and network conditions. Based on its patented FASP™ protocol, Aspera software fully utilizes existing infrastructures to deliver the fastest, most predictable file-transfer experience. Aspera's core technology delivers unprecedented control over bandwidth, complete security and uncompromising reliability. Organizations across a variety of industries on six continents rely on Aspera software for the business-critical transport of their digital assets.

Learn more at www.asperasoft.com