



KEY PRODUCT BENEFITS

For foundries

- Addressing foundry challenges in PV
- Increased sales of foundry proprietary IP
- Winning clients from competitive fabs
- Additional revenue from cloud pay-per-use services
- An alternative PV tool with sign-off quality and qualified rule decks
- PV CLOUD is ready to integrate more cloud-ready EDA tools
- Increased productivity of foundry private cloud

For fab clients

- Much cheaper PV services due to cloud-based SaaS instead of costly annual subscription
- Maximum hardware efficiency per one rule check due to unique One-Shot processing with proven multi-CPU scalability (up to 64 CPUs)
- Extremely predictable performance
- Virtual resources in a cloud (CPU, RAM, HDD) cost notably less than those owned by clients
- Saving of additional time and resources for PV
- Always using the latest version of EDA tools, PDKs, DRC/LVS rules, and documentation via foundry account

Innovative Cloud PV Workflow

Consists of PowerDRC/LVS toolset from POLYTEDA and Nefelus cloud management system (CMS) specially tailored for EDA needs.

PowerDRC/LVS provides extremely fast and accurate DRC, LVS, NVN, XOR/ Diff, Fill layer generation with easy run configuring and powerful debugging capabilities.

Nefelus CMS allows for convenient and secure management of design data in a cloud with pay-per-use billing of the verification services.

The flow is open – more EDA tools may be included once cloud-ready.

PV CLOUD has passed through the “proof of concept” stage and is available online. The pilot exploitation at a fab is to start in mid-2017.

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PowerDRC/LVS Capabilities

- DRC, LVS, and NVN functionality
- XOR (full layer-by-layer comparison) and QuickDiffing of layout versions
- Filler layers generation
- Support of antenna rules, density rules, pads, latches, and other special rules
- Run and debug GUI environment that allows violation handling capabilities like assigning different status, grouping, filtering by area and location, sorting by number or status
- LVS cross-probing, highlighting of extraction errors and shorted nets
- Comprehensive reports and summaries
- Clear and powerful rule language allowing easy migration and really flexible due to its pre-processing capabilities like variables and conditionals
- Interoperability with Cadence Virtuoso, Synopsys Laker, AWR Analog Office, KLayout, Symica DE, and more
- User documentation includes user guides, rule language syntax reference, quick start guide, installation

Nefelus CMS

- On demand, dynamic, quota-based allocation of computing resources to users, projects, teams
- Multi-tenant role and privilege-based authorization and access system
- Big data multi-processing and large scale of machines and services

- Management of cloud services (web servers, databases, load balancers, license servers)
- Health monitoring of resources and application services

The Foundry Part

- Check if PVCLOUD complies with the fab security requirements
- List additional functional requirements for PowerDRC/LVS and CMS
- Qualify PowerDRC/LVS rules to be used
- Assign staff to maintain PVCLOUD and provide tier 1 technical support
- Assists in running PVCLOUD pilot exploitation and collecting feedback
- Choose whether to pay for a PowerDRC/LVS license or pay royalties

About the Company

- Founded in 2015 in Kiev, Ukraine
- Is a spin-off SME from POLYTEDA Ukraine LLC (www.polyteda.com) that provides PV tools since 2009
- Has received Seal of Excellence award from the European Commission
- Won Horizon 2020 SME Instrument over 225 innovative companies from the EU

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nefelus 

The nefelus logo consists of the word "nefelus" in a lowercase, grey, sans-serif font, followed by a stylized grey graphic element that resembles a bird or a wing.