



Nakra Labs Inc. is **THE** premier provider of Standards Compliant Carrier Grade software for Networking/Communications Applications. Nakra Labs *Accelerator* Suite of “off the shelf,” powerful software products enables users to rapidly design and deploy their Networking/Communications systems, saving significant amount of time, effort, and money.

The **NUAccelerator** Suite helps overcome major issues that users commonly face by:

- Lowering Cost
- Providing ROBUST software with significantly lower field failure rates
- Shrinking Design Times and Time-to-Market
- Overcoming the Increasing Complexity of Standards based Protocols and newer ASSP Devices
- Helping users cope with shrinking Design Team sizes

The Simulation Accelerator or **SimAccel** line of products forms the simulation layer of the **NUAccelerator** Suite of software products. **SimAccel** substitutes the device (or hardware) with a control plane behavioral model of the device and performs True Register Space behavior for Software validation. The **SimAccel** suite support spans Framers, Switch Fabrics and Network Processors and alleviates the dependence on Hardware or Test equipment for validation of the user’s software stack. This makes **SimAccel** a very powerful tool that can help shield users from timeline hits due to Silicon Delivery slippage.

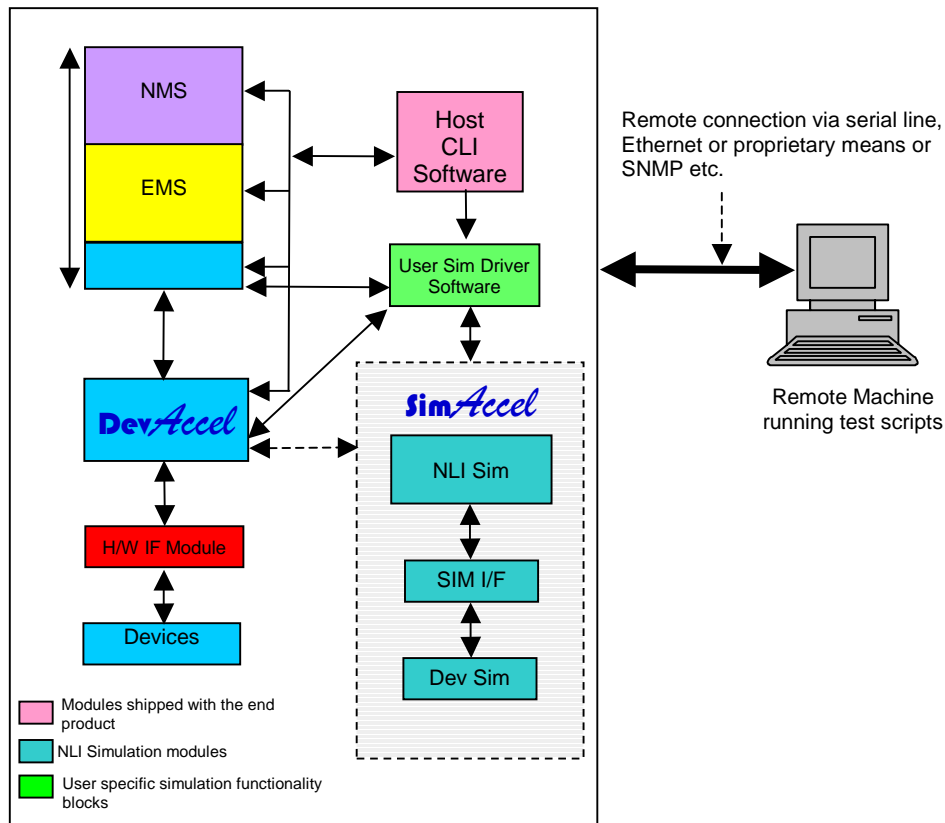
**SimAccel** plays a complementary role to **DevAccel** and supports all the features that **DevAccel** needs and supports. The two packages working in conjunction with one another provide transparent and seamless interaction with the User Software stack and can significantly reduce system design and development time (**by 8 to 10 months**). The simulator can be compiled in or out with just a single Compiler Pre-processor flag without disrupting the software stack.

Due to its small code footprint, **SimAccel** can be embedded in a line card that has some memory and a CPU and can make that line card behave like it has the device on the board. This facilitates testing of the user’s software stack on the actual chassis. **SimAccel** can also be used on a workstation or a PC during the development or post-development phase of the user’s software stack.

**SimAccel** has strong scripting support, enabling users to create complex test sequences. These tests can then be run as part of a regression suite and can be used for test automation, thereby significantly reducing Lab validation time and hardware resource contention. **SimAccel** is also very easy to use and integrate – based on the power and elegance of simplicity, **SimAccel** has a small set of commands and easy command syntax (only 3 API calls) with which the behavior of the device can be mimicked.

**SimAccel** simulates all aspects of the behavior of the device including:

- Reset
- Hierarchical generation and clearing of Interrupts specific to the device
- APS type events
- Generation of all Performance Monitoring conditions
- Generation of all Failure Monitoring conditions
- Provides for sleep and event notification to the user’s Application layer.



**SimAccel** Salient Features:

- Available 2 to 3 months prior to first silicon availability, facilitating software development in tandem with hardware design
- Shields Customer from timeline hits due to Silicon Delivery slippage
- Provides users the Ability to test User software stack in the absence of hardware
- Simulates **ALL** the conditions (such as Interrupts – Failures and Alarms, Performance Monitoring Counts and Conditions etc.) that the device reports
- Built in Scripting mechanism enables user to create complex test conditions
- Common API across all devices. (Only 3 API calls)
- Shallow learning curve
- Available for **ALL** the devices (with the associated Protocols) that Nakra Labs supports
- Easy adaptation into host environment (OS independent)
- Conversion of **SimAccel** scripts to GPIB commands can significantly accelerate hardware testing
- Offers exhaustive documentation with example code and **SimAccel** scripts.

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