



**StacksWare**  
REAL-TIME SOFTWARE INVENTORY & USAGE

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## StacksWare For Manufacturing



## General Summary

StacksWare is application discovery reinvented.

Our platform continuously inventories and meters software applications across your manufacturing environment, allowing you to make critical decisions in response to end user activities and software usage trends.

Manufacturing companies often have unique software requirements to engineer new products. CAD and GIS software often play a critical role in the creation of these products. For the last two years, StacksWare has been a trusted partner in providing manufacturing companies total application visibility across their software portfolio.

In fact, Fortune 500 company DENSO International America, Inc. (\$43.1 billion revenue) trusts StacksWare to understand their engineers' CAD usage & help them save money on licensing.

## Security In Your Manufacturing Infrastructure

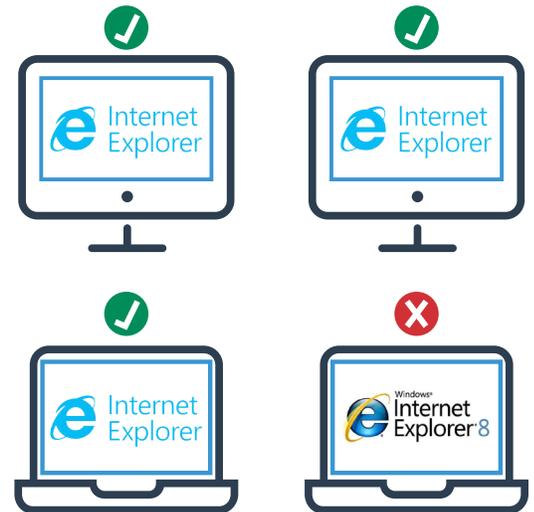
Identify insecure software versions and disallowed software such as Dropbox that might result in the loss of sensitive CAD product designs. We provide a comprehensive audit log to immediately identify when offending applications are launched in the environment. We send proactive real-time notifications to IT stakeholders whenever disallowed software is started or stopped.

### Without StacksWare



If you have VDI in your infrastructure, identify all devices and device types that are used to access these virtual desktops. You can track BYOD devices that are used to access virtual desktops such as personal Mac, PCs, iPhones, and iPads. These devices may not have been issued by your organization but may still pose risk for IP loss of valuable product designs.

### With StacksWare



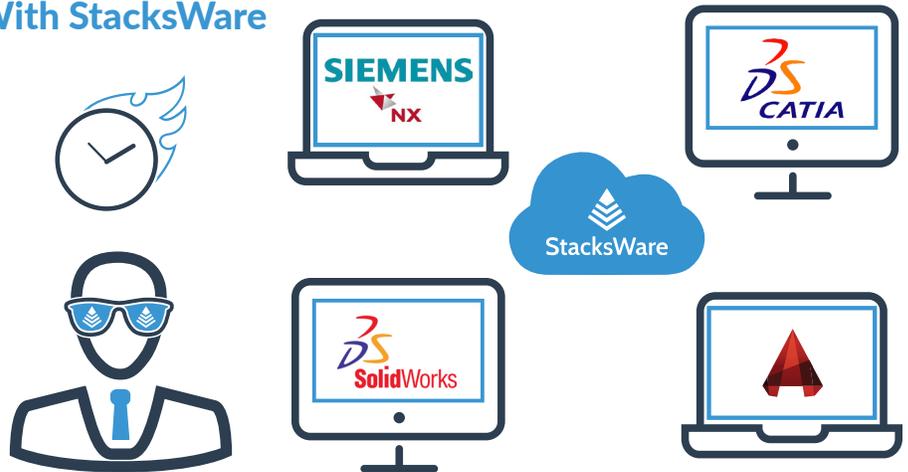
## Ensure That Applications Are Healthy

Identify when business-critical applications such as Siemens NX, Catia, SolidWorks, and AutoCAD crash with our agent health notifications system.

### Without StacksWare



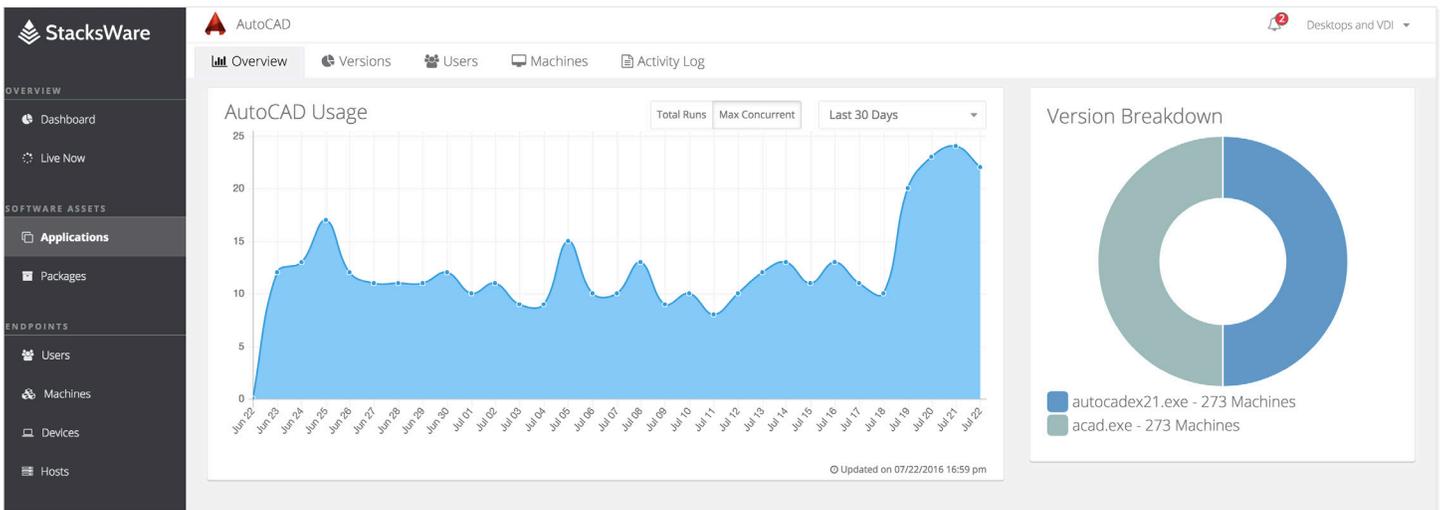
### With StacksWare



Replay the exact user events on a virtual desktop or physical workstation that result in application crashes. You can resolve help desk tickets in minutes rather than hours and prevent end-user frustration.

## Track Usage of Manufacturing Software and Devices

Track software usage of expensive CAD software such as Siemens NX, Catia, AutoCAD, and Solidworks that are traditionally licensed via concurrent or named user licenses. Ensure that no single user unnecessarily claims a concurrent user license for long periods of time, blocking CAD access from other users.



Aggregate statistics across different engineers, physical workstations, and virtual desktop pools with the StacksWare groups feature to identify application savings opportunities and understand peak application usage times throughout the day.

# DENSO International America, Inc. Administers CAD On Their Cutting-Edge VDI With StacksWare



## CHALLENGE

- Real-time CAD usage monitoring in non-persistent VDI
- Controlled access for non-IT users

## SOLUTION

- Agentless hypervisor-based software monitoring
- Aggregation in cloud for scalability and data access
- User-Admin permission hierarchy

## RESULTS

- Painless deployment
- Visibility of the application layer for VDI users
- Health monitoring of critical agents with notifications

DENSO International America, Inc. (DIAM) is a leading supplier of advanced automotive technology, systems, and components for the automotive industry, conducting product design and development for N.A. market at the North American headquarters in Southfield, MI. DIAM's cutting-edge CAD IT group uses NVIDIA GRID to power CAD on VDI, enabling centralized management, enhanced security, and work mobility.

## CAD IS EXPENSIVE, AND IT'S HARD TO TELL WHO IS REALLY USING IT

DIAM lacked visibility into their CAD usage on virtual desktops, especially at a fine-grained user level. "We administrators wanted insights into how our CAD licenses were being consumed," explains Wesley Struble, CAD Administrator. "The engineering managers wanted visibility of resource usage to recognize potential efficiency improvements."

When DIAM made the switch to VDI, they realized that they might finally have an opportunity to give managers the insights they needed - after all, it should be easy to get that information with everything running in one datacenter, right? It turned out it wasn't so easy. "We looked at many solutions, but no one could tell us per-user usage in a non-persistent VDI environment," recalls Varick Teller, Sr. CAD Administrator at DIAM.

## DEPLOYING STACKSWARE FOR REAL-TIME APPLICATION VISIBILITY

"One of the co-founders personally helped us through a very quick installation," says Struble. "Not having to bake an agent into every VM really accelerated the process. In addition, the StacksWare team has been extremely responsive to our feature requests, allowing us to derive significant additional value from the product."

## MONITORING CRITICAL APPLICATION DOWN-TIMES

Prior to using StacksWare, DIAM experienced issues with View agents going down, causing their Virtual Desktops to become unreachable. With StacksWare, DIAM subscribes to real-time application health notifications, allowing them to be instantly aware of critical agent downtimes. "Being able to pinpoint exactly where and when a piece of software has failed has allowed us to drastically reduce our reaction times in order to keep our infrastructure online."



Once StacksWare was in place, DIAM reaped several benefits, including:

- **Real-time and historical CAD usage data** - “A day after the install, we were able to visualize resource usage down to user and application level to more adequately utilize our resources and licensing for the CAD VDI environments.” says Struble.
- **An inventory of installed applications** - “StacksWare showed us that we’d left one administrative tool on each of the VMs that we didn’t want end-users to have.”
- **Notifications when View agents go down** - “StacksWare now emails us whenever a VM goes into agent unreachable status, making it faster and easier for us to fix broken VMs.”
- **Automated email reports** - “Weekly email reports of CAD usage allow me to quickly recognize any specific items that need deeper investigation” says a Sr. Manager of Engineering.
- **Intuitive and easy access to data** - “In StacksWare, I can not only see how individual users are using CAD, but also aggregate information about my different product groups,” says Gerard Welsh, Sr. Engineering Manager.

## ENHANCING DIAM’S OPERATIONAL EFFICIENCY

DENSO International America, Inc. is now using StacksWare to enhance engineering manager efficiency and IT operational efficiency. “The engineering managers now have the data they’ve been wanting for years, and the IT team can be more efficient leveraging the StacksWare product,” says Struble. “This allows DIAM to more easily administer CAD on their VDI.”

“We looked through solution after solution before running into StacksWare at VMworld. Now, our engineering managers can gather usage data to determine which CAD software is most utilized - data no other solution could provide for non-persistent VDI.”

StacksWare gives administrators much needed visibility into the activity on our VMs.”

-VARICK TELLER, SR.  
CAD ADMINISTRATOR AT DIAM

***DENSO***



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