

# Leadership in Infrastructure Transformation Stories

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## INTRODUCTION

Companies are constantly faced with new business challenges and seeking solutions to resolve them. These challenges increasingly involve the data centers powering the company. Often the IT Teams are dealing with new infrastructure performance, capacity, security and availability demands. Additionally, what have been traditionally on-premises workloads are increasingly moving to the cloud

This whitepaper explores how technologies can facilitate these infrastructure transformations. Specifically, we will examine the stories of how ten IT leaders who successfully responded to their changing business needs and transformed their data centers using Oracle Infrastructure technologies. Their success stories span a variety of businesses representing a cross-section of industries worldwide.

All of the individuals featured are winners from the 2018 Oracle Excellence Awards in the “Leadership in Infrastructure Transformation” category. The category honors leaders who delivered value to their company by leveraging multiple Oracle technologies to improve time to deployment, increase performance, enhance productivity, and reduce the cost of IT operations. To learn more about this award category, please visit: <https://www.oracle.com/corporate/awards/leadership-in-infrastructure-transformation>

## THE LASER BEAM STORY

Philip Adams is the Chief Technical Officer of the National Ignition Facility at Lawrence Livermore National Laboratory. He is also a winner of the 2018 Oracle Excellence Awards. Philip is recognized for his innovative use of several products: Oracle Linux, Oracle VM, & Oracle Enterprise Manager. Leveraging these technologies has improved the overall application and database performance as well as improving resource utilization, system availability. With less unplanned downtime, there is more operational time available for laser experiments to enable the scientific team’s breakthrough discoveries. Additionally, Philip Adams has been long standing member of our Customer Advisory Board and an early adopter of Oracle solutions.

**“IT infrastructure plays a leading role as the engine powering engagement and action flows between people, things, and data. They are the heart of any modern business. This is why periodic infrastructure transformation is imperative for companies to stay relevant, grow and compete. Savvy leaders realize this and adapt accordingly.”**

**Richard L. Villars**  
*Research Vice President,  
Datacenter & Cloud  
IDC*

Lawrence Livermore National Laboratory is a premier applied science laboratory that is part of the National Nuclear Security Administration within the Department of Energy. LLNL's mission is strengthening national security by developing and applying cutting-edge science, technology, and engineering that respond with vision, quality, integrity, and technical excellence to scientific issues of national importance. The Laboratory's science and engineering are being applied to achieve breakthroughs for counterterrorism and nonproliferation, defense and intelligence, energy and environmental security.

The National Ignition Facility's (NIF) goals are to help ensure the reliability of the nation's nuclear weapons without underground testing; lay the groundwork for using fusion as a clean, safe energy source; and provide scientists from across the nation and around the world with the opportunity to explore new frontiers in astrophysics, materials science, nuclear science, and many other scientific disciplines. Due to the nature of their work, unplanned downtime must be kept to a minimum and the environment must meet specific security requirements. The Oracle Database was selected to handle the intense workloads, performance and availability requirements. Therefore, many decisions are made around how the NIF control system will communicate with the database to keep business operations running smoothly.

The team evaluated other vendors' operating systems and virtualization layers before migrating to Oracle Linux to ensure the best Linux performance for their database. Besides increasing database performance, the NIF team observed other benefits. Features, such as Ksplice, which allows for live patching without requiring any downtime, have also provided value. Less planned downtime for the systems essentially means that more time is available for the scientists to work. The NIF team has been able to exceed 400 laser shots per year versus 190 and also reclaimed 5+ hours back per month from downtime and maintenance periods. That is 60 hours per year they can give back to science.

The team also experienced support advantages to working with one vendor for both layers. For this reason, they eventually migrated their hypervisor to Oracle VM as well. The NIF environment is now almost 95% virtualized and is managed by Oracle Enterprise Manager. The combination of Oracle Linux and Oracle VM, along with Oracle Enterprise Manager, has improved the overall infrastructure resource utilization, uptime and availability.

## THE TWO MILLISECOND CLOUD STORY

Brian Bream is the Chief Technology Officer at Collier IT. He is also a winner of the 2018 Oracle Excellence Awards. Brian is recognized for his innovative use of Oracle SPARC and Oracle Solaris. Using these technologies, Brian created a solution that allows customers with mission critical applications to more easily cloud-lift their application workloads into the Oracle Cloud. Additionally, Brian is a genuinely passionate advocate while functioning as an Oracle Instructor and a regular conference presenter. He is also an Oracle ACE Director.

Collier IT is a complete Information Technology solutions provider with 28 years of engineering experience. They help clients deliver cost effective business innovation and improvement by better utilizing their Oracle IT assets. In particular, they deliver creative solutions for analytics, big data, cloud and cyber security.

The team has been working with Oracle SPARC and Oracle Solaris technologies for many years to support mission-critical technologies. Originally the team had been working primarily with On Premises

**"We chose Oracle VM and Oracle Linux specifically to improve resource utilization, uptime, and availability for the Oracle Database. Leveraging this infrastructure, we have reclaimed 5+ hours per month from downtime and maintenance periods. That is 60 hours per year we can give back to science."**

**Philip Adams**  
Chief Technology Officer  
Lawrence Livermore National  
Labs

**"Creating solutions based on Oracle SPARC and Oracle Solaris gives customers the benefits of world-class performance, and the agility needed to cloud-lift their workloads."**

**Brian Bream**  
Chief Technology Officer  
Collier IT

datacenters. However, with the growing industry trends towards cloud adoption, the team needed to expand their solutions portfolio.

With this goal in mind, they designed an innovative solution that bridge the gap between the On-Premises and Cloud solutions. The team designed a solution which is cloud based, yet has the actual hardware maintained by IT staff. Basically placing the actual hardware in the cloud data centers. This proximity ensures that cloud providers can access the Oracle SPARC/Solaris infrastructure is less than 2 milliseconds.

This proximity removed performance latencies and essentially ensured the systems performance without any compromise. So retaining or in some cases improving SLA performance. They also were able to maintain the ease of system maintenance, management and administration.

The new cloud offering also includes multi-cloud and multi-vendor access. It includes Oracle Cloud, Amazon Web Services, and Microsoft Azure. It uses SPARC/Solaris infrastructure to power the different cloud vendor options utilizing web-tier solutions. Whereas previously there would not have been such vendor choice and standardization would have be imposed. Additionally, it offers cloud-based technical flexibility and monetary advantages.

This solution provides customers the best of both worlds: the power of Oracle SPARC/Solaris and agility associated with cloud. It aligns a customer's existing SPARC/Solaris standards as they pivot towards future hosted cloud technologies. Allowing them to make that transition smoothly by maximizing any existing investments in previous hardware purchases, training, and manpower.

## THE AIRLINE STORY

Baris Findik is the Chief Information Officer of Pegasus Airlines. He is also a winner of the 2018 Oracle Excellence Awards. Baris is recognized for his innovative use of Oracle SPARC systems to run sales and operations workloads. As the CIO, he is responsible for setting and leading the technology strategy. Under his leadership, Pegasus has achieve outstanding performance improvements in their mobile booking application, database batch processing and backup.

Pegasus Airlines is Turkey's first low cost carrier and the fastest growing airline in Europe. They were the first Turkish airline to launch affordable and accessible means of flying to the Turkish public. Their goal in Turkey was to transform flying from a luxury into something accessible to all social classes. The number of guests they have carried has grown 600% over the past several years.

The company grew so quickly that the previous IT systems could not keep up with the demand at times. At the core of their business is an online booking, flight and crew scheduling application. The systems underlying this application however would often get choked when the volume got too great. Meaning the systems experience unplanned for downtimes or that if too many people were trying to redeem airfare promotions, their bookings would hang without going thru. This of course had two layers of impact. It negatively colored a customer's experience and also resulted in lost sales booking revenues.

**“The business was growing really quickly and our older infrastructure could not keep up with the increased volume demand. We decided to modernize our capabilities with Oracle SPARC systems technology and the Oracle Solaris operating systems. Using this has greatly improved operations by reducing the timeframes needed for batch and backup. The infrastructure is also more robust and can easily handle the larger workloads without choking up or timing out.”**

**Baris Findik**  
Chief Information Officer  
Pegasus Airlines

For these reasons, the IT Team went about looking at revamping their infrastructure systems. They needed a more powerful and robust architecture that could handle high traffic volumes. After examining several vendor proposals, they ultimately chose Oracle SPARC systems as a solution to alleviate the performance issues and easily scale for business growth. This includes fully-integrated features such as Oracle Solaris Cluster, system management and monitoring.

Pegasus chose Oracle's solution because they valued the multi-threading capabilities and high throughput performance. The pre-integrated engineered systems also reduced the IT infrastructure cost and complexity, yet could also increase systems performance. In addition to the production environment, they are also using additional Oracle SPARC systems for Disaster Recovery (DR), development and testing. These additional environments are all compatible with the product environment since they are all based on the same SPARC processor. The new environment is also architected high availability for Oracle Database using Oracle Real Application Clusters (Oracle RAC).

The results have been impressive with several measurable performance gains. Batch job query performance used to take 55 minutes, but now only takes 6 mins. Full backup performance previously took 8 hours; but now only takes 22 minutes. The former system marketing campaign traffic used to max out around 7 millions hits; now it can support 22.5 million. Likewise the previous application sessions opened was previously 3,000; but not 17,500.

Now the airline is able to run many marketing promotions knowing they have a solid infrastructure that can easily handle the high volume workloads. This in turn will help them grow their revenue, maintain their competitive pricing, continue their impeccable on-time arrival rate, and sustain their high levels of customer satisfaction.

## CONTINUOUS IMPROVEMENT ON COSTS AND RELIABILITY

Charles Mongeon is the Vice President, Data Centre Solutions and Services (DCSS) at TELUS. He is also a winner of a 2018 Oracle Excellence Awards. Charles is recognized for his innovative use of Oracle Linux. Under his leadership, TELUS has not only improved systems performance but also significantly reduced infrastructure costs. Specifically, they have reduced support costs for their Linux environments by almost half while delivering improved performance with no disruption to the business as part of the transition.

TELUS is one of Canada's largest telecommunications companies, with \$14.1 billion of annual revenue and 13.3 million subscriber connections. TELUS provides a wide range of communications products and services, including wireless, data, Internet protocol (IP), voice, television, entertainment, video and home and business security, and is also Canada's largest healthcare IT provider.

The DCSS team is continuously looking for ways to improve performance, reliability and efficiency. With a goal to reduce cost without compromising on performance or quality, the team undertook an assessment of its more than 6,000 Linux hosts supporting over 600 applications and their databases across multiple environments. Making any change to these systems, which serve almost every business unit at TELUS, is not trivial as many are vital to the business and considered mission critical.

It was for this reason the team considered replacing their existing Linux distribution and Oracle Linux quickly emerged as the preferred solution. The team realized it would not only be the more cost effective enterprise Linux option, but could streamline the support of Oracle database environments through common tools and a singular vendor support engagement.

**“We are always assessing and investigating ways to lower operational costs while in lock step improving systems quality and reliability. Migrating to Oracle Linux improved our cost structures, patching cycles, manageability and was executed without disruption to the business.”**

**Charles Mongeon**  
Vice President Data Centre  
Solutions and Services  
TELUS

The switch was successful and resulted in multimillion dollar support cost savings for TELUS, which allowed Charles and the DCSS team to avoid alternative cost-cutting measures that may have yielded less benefit and would have been more disruptive to the business.

## THE MODERNIZATION STORY

Michael Myhrén is a Senior DBA Senior Systems Engineer at Saab. He is also a winner of the 2018 Oracle Excellence Awards. Michael is recognized for his innovative use of several products: Oracle Private Cloud Appliance, Oracle Linux, Oracle VM, Oracle Storage, Oracle Database and multiple database options. Under his leadership, the team now has a very modern infrastructure and highly automated environment. The IT team can now more easily manage infrastructure operations. The team was also able to improve the IT experience for their clients too; with IT services now delivered faster, more reliably, and more securely.

Saab serves global market with world-leading products, services and solutions from military defense to civil security. With operations in over 100 countries, they continuously develop, adapt and improve new technology to meet customers' changing needs. They have more than 15,000 employees in over 30 countries. Their operations are divided into five business areas - Aeronautics, Dynamics, Surveillance, Support and Services and Industrial Products and Services. They compete in an international market, which requires a strong international presence.

The team was looking to modernize their IT infrastructure by making it more automated and easier to manage. They were also looking to deliver services faster, more reliably, and securely. For these reasons, they chose a solution that included Oracle Private Cloud Appliance, Oracle Linux, Oracle VM and Oracle Storage.

The resulting new environment has reduced the delivery service for the Database tier down from weeks to minutes. More than 100 databases are able to easily be patched within an hour, where this previously required much longer service windows. It also provides faster provisioning of test and product environments. The flexible architecture allows for easier systems expansion to activate resources as needed.

This highly automated environment is easily maintained by a small and efficient team. Fewer people touching the infrastructure helps to minimize any irregularities or mistakes. Fewer people needing to manage it also means a greater control for the services delivered. The team can now offer more easily repeatable and predictable service deployments. With configuration errors rate now lower than with the previous system.

Delivering DB's service from weeks down to minutes The project have benefited by faster provisioning of test and product environments availability Flexibility: Easier planning of infrastructure expansion providing more lean infrastructure with the easy to activate recourses when needed

There was also a consolidation benefit as well. The team was able to reduce the vendor complexity: going from 5 vendors down to 1 on the infrastructure layers. This not only helped control license costs but also improved the overall support experience as well.

**"We now have a more automated and easier to manage infrastructure based on Oracle Private Cloud Appliance, Oracle Linux, Oracle VM and Oracle Storage. This allows our team to deliver services faster, more reliably, and securely."**

**Michael Myhrén**  
*Senior DBA Senior Systems Engineer*  
*Saab AB*



## THE CLOUD MIGRATION STORY

JK Pareek is Vice President of the Global IT team and Chief Information Officer at Nidec. He is also a winner of the 2018 Oracle Excellence Awards. He is recognized for his ability to align IT strategy with the business strategy and achieve measurable results such as cost savings and performance improvements for his company. In his role, JK is responsible for global IT strategy and operations for 40+ countries and 100+ locations. His focus is on moving IT from being a service provider to a business transformation agent. JK decided to leverage Oracle's Cloud Infrastructure ("OCI") to improve operations using Oracle Linux, Oracle VM, and Oracle Storage. This project was done with the SI partner Infosys.

Nidec is the world's No.1 comprehensive motor manufacturer handling "everything that spins and moves", miniature to gigantic. With pedigrees stretching over 100 years, the brands of Nidec's Appliance, Commercial and Industrial Motors division (ACIM), have been delivering quality and innovative technology for generations.

Nidec ACIM division made a major acquisition, the largest in Nidec's history, in February 2017. The acquired business entities ran Oracle e-Business Suite applications running on-premise. A migration was needed to a new data center within a relatively short time period (16 weeks). Nidec asked partners to provide proposals to migrate to a private or public cloud, to fit into its cloud strategy. Infosys proposed migrating the Oracle e-Business instance, the Oracle Database (several terabytes) and several non-Oracle workloads to the Oracle cloud. This way a world class scalable infrastructure for the core e-Business applications would be insured. The new hosted cloud environment could also support the non-Oracle workloads as well. The overall cloud model would also be easier on the IT team's resources and budget. It also reduced maintenance costs annually for patching and updates. Having the workloads put into the Oracle cloud would also provide a flexible platform to support future business growth, the addition of new business requirements, and IT capabilities.

Oracle Cloud Infrastructure was the only offering to provide RAC options for the Oracle Database to ensure high availability. It also provided Oracle Linux and Oracle VM as the underlying software layers to ensure optimal performance across the entire stack. The environment offered several security options including Connection Manager, Firewall Products and separate network domains. For these reasons, the Oracle Cloud offering was determined as being a better value compared to other vendor offerings. The migration was a smooth transition and went fully live in October 2017.

Several additional benefits have since been realized. Nidec has been reduce Oracle DB license needs and operational costs by reducing from 40 cores on each node down to 12 or 24 cores on Exadata servers. Moving from on-premise to the Oracle Cloud model also reduced storage costs and backup times for the database backups as well. Critical long running batch job performance also improved as well as increased response times for users. The system also has minimized downtime.

## THE PERFORMANCE AND SECURITY STORY

Michael Polepchuk is the Deputy Chief Information Officer at BCS Global Markets. He is also a winner of the 2018 Oracle Excellence Awards. Michael is recognized for his innovative use of the Oracle SPARC and Solaris Products to improve overall infrastructure operations. He has also helped to lead change internally to assist the team with the transition to the new Oracle-based systems. He is both forward thinking and results oriented having improved the systems performance while also reducing overall costs.

BCS Financial Group is an independent financial institution providing a full range of services for institutional and retail customers. Established in 1995, the company provides brokerage, investment

**"With the help of our SI Partner, Infosys, we successfully cloud-lifted our on-premise Oracle E-Business Suite instance and non-Oracle workloads to Oracle Cloud. We are benefiting from the Oracle Cloud Infrastructure solutions based on Oracle Real Application Clusters, Oracle Linux, and Oracle VM, which provide optimal performance across the stack. This migration has not only reduced license fees and operational costs, but also has reduced storage costs and backup times."**

**JK Pareek**

*Vice President of the Global IT Team and Chief Information Officer  
Nidec Americas Holding Corporation*

**"We migrated to Oracle SPARC and Oracle Solaris products to improve our overall**



banking, asset management, custody and advisory services. Thanks to implementation of a reasonable development strategy, use of innovative technologies and involvement of high-class experts, BCS has become a leading Russian investment and brokerage company. The company has more than 4,500 employees working in more than 130 offices and representative offices.

The IT teams had previously had been using a different hardware vendor for their Oracle Database. The team wanted to modernize the platforms that could better support the company's growth. On their shortlist of requirements were solutions that offered security, flexibility, and performance improvements. This is when they first evaluated Oracle SPARC and Oracle Solaris solutions.

After an easy installation, the new hardware platform quickly proved powerful by increasing the database performance by almost 15%. The security benefits were also hugely appealing, given data sensitivity and regulatory financial compliance mandates. The encryption features allowed them to protect the data without any performance impact, while Silicon Secured Memory provides always-on intrusion protection that stops unwanted access.

This new infrastructure provides faster transaction database processing with measurable results. It also has improved security for the solutions in a demanding environment without compromising performance.

## THE HOSTED CLOUD STORY

Heidi Ratini is a Senior Director of Engineering at IT Convergence. She is a winner of the 2018 Oracle Excellence Awards. Heidi is recognized for her innovative use of Oracle Linux and Oracle VM to modernize the cloud experience for IT Convergence's customers. Using these technologies, she improved processes and operations. As a result, their hosted cloud offering has seen improved uptimes, excellent customer retention rates and an increase in quality across the board.

Founded in 1998, IT Convergence is a global Oracle Platinum Partner with a comprehensive service offering across all three pillars of the Cloud (IaaS, PaaS, SaaS), including Consulting/Advisory, Private Cloud (Hosting), Managed Services, Integration, Business Intelligence, Development, Testing, and Training services. IT Convergence has provided solutions to more than 900 top companies, in over 50 countries around the world, delivering senior-level expertise in Oracle enterprise application, database and Fusion Middleware technology stack. IT Convergence sought to provide a more powerful infrastructure that ensures Oracle applications can run and perform at speed for the customers, while also maintaining support quality and excellence. They could also effectively utilize their infrastructure for their multi-tenant environments.

IT Convergence runs their business on Oracle's E-Business Suite and utilizes tool such as Oracle Apex and Oracle Enterprise Manager as supporting systems within their Cloud and Managed Services Practice. They chose Oracle Linux and Oracle VM for price value and performance quality. Specifically using UEK and options such as Ksplice for live patching. The unified support model was also hugely appealing to minimize operational costs while ensuring maximum systems performance across the entire stack. They could get both Oracle VM and Oracle Linux from one vendor, and with the same support quality for both products.

**infrastructure operations. The new environment is running a 3rd Party financial application and has increased performance in several measurable aspects."**

**Michael Polepchuk, Deputy  
Deputy Chief Information Officer  
BCS Global Markets**

**"Oracle Linux and Oracle VM are being used to support our Oracle E-Business Suite instance which is the backbone for our private cloud offering. The unified support model from one vendor has minimized operational costs and overhead by 86% while providing maximum system performance across the stack.**

**Heidi Ratini  
Senior Director of Engineering  
IT Convergence**

By utilizing Oracle VM's integrated tool sets such as the Oracle VM CLI, they were able to fully automate their building and provisioning efforts, effectively reducing what previously took teams hours down to minutes. This in turn saves not only on time but on the resources spent. They also built their own proprietary automation tool they call Hydra, around the framework of Oracle VM and Oracle Linux Templates together. This has allowed them to deliver new builds to their customers extremely quickly, with automation and orchestration for the other supporting areas of their infrastructure covered end to end.

With this new infrastructure, IT Convergence will continue to be a premier supplier of Private Cloud services powered by Oracle VM and Oracle Linux technology. Additionally, they are expanding their offerings to include Oracle Cloud (OCI) IaaS to their customers as well via APIs. In these ways, this company is able to maintain their commitment to offer customers the best cloud solution (Private Cloud, Oracle Cloud Infrastructure, SaaS) for their needs.

## THE MODERNIZED BANKING PLATFORM STORY

Rudolf Rotheneder is the Chief Executive Officer at cons4you. He is a winner of the 2018 Oracle Excellence Awards. Rudolf is recognized for his innovative use of Oracle SPARC and Oracle Solaris. Rudolf has used these solutions to provide a new set of IT standards and services for the banking industry in Austria. In this capacity, he has designed new architectures on the Oracle SPARC engineered systems. In this way, he has ensured that banking platforms across the country are more secure and performant. Additionally, Rudolf is an Oracle Gold Partner.

Cons4you was founded in 2005 and continued where its predecessor Rotheneder GmbH had begun nearly 20 years earlier. Their clients span many industries including entertainment, technology, manufacturing, transportation and banking. They are an Oracle Gold partner, providing distribution and implementation services with a special focus on enterprise high availability cluster solutions. They also offer data center concept creation, planning and implementation training services.

The team needed to migrate Third Party On-Premise Banking Platforms supporting the Oracle Database and various applications. At risk was highly sensitive financial data in a highly regulated industry. Like most countries operating with the Euro-zone, the banking industry would need to adhere to both local country regulations as well as European-wide financial record regulations.

The infrastructure was migrated to Oracle SPARC and Solaris for many reasons. First and foremost, the new system given it was already engineered to work better together, improved the database performance. As a result, batch processing could be done much faster. System security was augmented by leveraging several features specific to the SPARC/Solaris platform, such as encryption. Data storage capacity is now highly available. It is archived in ZFS and then also on protected Disk and Tape. These storage options are also important given the regulatory requirements to keep records for a certain length of time.

Overall the new banking infrastructure is more performant and more functional. There is now also a completely bi-directional workflow chain between the clients and regulatory boards. Reports are now based on automation and workflows, whereas beforehand it was a very manual and labor-intensive effort. The newly automated reports also minimize any potential human errors. Now reports can easily be created monthly based on predefined rule-sets that adhere to regulatory compliance needs. First at a country level, then at the European Union regulatory level. For all of these reasons, this platform migration is considered a huge success.

**“Using Oracle SPARC systems technology and the Oracle Solaris operating system allows me to ensure that the banking platforms are more secure and performant.”**

**Rudolf Rotheneder**  
Chief Executive Officer  
cons4u GmbH

## THE OPERATING SYSTEMS MIGRATION STORY

Brian Young is Vice President of CernerWorks Technology Improvement at Cerner. He is a winner of the 2018 Oracle Excellence Awards. Brian is recognized for his innovative use of Oracle Linux. He led the migration to this solution for its overall technical, economic, and support improvements. Under Brian's leadership, to date Cerner has successfully migrated tens of thousands of systems. In doing this, he has not only transformed his company's infrastructure but also demonstrated his ability to be a great business partner to our team.

Cerner's health information technologies connect people and systems at more than 27,500 contracted provider facilities worldwide. Recognized for innovation, Cerner offers solutions and services for health care organizations of every size and works to create a future where the health care system works to improve the well-being of individuals and communities.

One of their flagship offerings is a hosted platform for electronic health records (EHR). Cerner's hosting practice is focused on delivering reliable, high performing, secure and cost-effective systems. The team had operational goals of improving efficiency and scalability.

Previously, applications were using various Oracle Linux distributions. Cerner decided to make Oracle Linux the primary distribution and migrate to it broadly across their fleet of systems. The EHR application uses the Oracle Database extensively, so shifting to Oracle Linux leveraged an already strong Oracle technology collaboration between the two companies.

Oracle Linux supported improved system scalability and met the high reliability and security standards. It also simplified certain support scenarios where both operating system and database technology are involved. Additionally, there were significant savings while simultaneously improving technical outcomes.

**“Our team manages a mission-critical application that cannot have any downtime. It needs to be available 24 hours a day, 365 days per year. Oracle Linux not only increased our application performance but it help us achieve our availability goals. Specifically the live patching with Ksplice is a real value differentiator for us as we can easily apply security updates without the need to reboot or bring our systems down.”**

**Brian Young**  
Vice President  
CernerWorks Technology  
Improvement  
Cerner

## CONCLUSION

As demonstrated in these stories, there are several ways companies solve business problems with Oracle Infrastructure technologies. This entails both a mix of software and hardware products engineered to enhance existing investments such as the database. The new infrastructure these customers implemented have delivered a range of benefits including increased systems performance, increased availability, simplified support, cloud-enabled on-premises solutions while reducing operational and licensing costs,. While each story is different, all of the IT leaders featured shared the common strategic goal: to optimize their operations. In doing so, they not only transformed their data center infrastructure but also transformed their businesses. For these reasons, we recognize and honor our 2018 Oracle Excellence Awards “Leadership in Infrastructure Transformation” winners for their achievements.

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## Integrated Cloud Applications & Platform Services

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