A

n enormous shift has taken place in enterprise mobility. At first, the market was focused on devices, moving from a BlackBerry-only landscape to one dominated by Apple and Android. Then came the plethora of mobile applications and content. The ubiquity of smartphones gave rise to a new economy dominated by application creators and their channels to market — i.e., Google Play and iTunes. These developments are the forerunners of a major change in what mobile means to businesses and the emerging mobile economy.

SAP is actively innovating with a mobile portfolio covering more than 300 industry apps, security, and a mobile development platform for building custom apps suitable for any back-end system. In addition to mobile, the portfolio also embraces other major technologies: cloud, social, and big data. The solutions delivered by SAP have helped many customers, including Phillips 66, Verizon, and Hallmark, make the impossible a reality — by making banking accessible to the underserved, bringing sports fan experiences to mobile devices and improving players' performances, providing insights and analysis to doctors to improve patient care, using smart glasses in manufacturing plants, and much more.

To better understand SAP’s ability to deliver these experiences, let’s consider some of the key mobile trends shaping the industry: device fragmentation, open-source development standards with HTML5, and a new mobile app economy.

The Impact of Device Fragmentation
Device fragmentation can be viewed as a matrix of operating systems, screen form-factors, and device capabilities, and as a key driver of the increased focus on apps over devices. Whether or not your company embraces a bring-your-own-device (BYOD) policy, most employees have any number of tablets, phones, and smart devices from a variety of providers and various content. This trend has accelerated the emergence of the Internet of Things, wearable technologies, and connected devices (such as cars, smart watches, and parking meters). The need to support the growing number of device types has major implications for how and what apps are built, and how the resulting data is managed and secured. No longer are enterprises deploying one or two smartphones per staff; tablets and, in some cases, even wearable technologies are used. Scalability and manageability are rapidly becoming even more integral components in the enterprise mobility space than they are today.

The easiest approach to building a single app to run on multiple device types is to use hybrid technologies. With the mobile services now available on SAP HANA Cloud Platform, customers can quickly build cross-platform applications that leverage enterprise class authentication, data security, codeless integration with any back-end system, and deep offline synchronization. Beyond making SAP’s applications more powerful and easier to use, SAP HANA Cloud Platform mobile services allows third-party developers to deliver premium services for their applications. In short, SAP is bringing together SAP HANA and the cloud to help push mobile forward.
Open-Source Development
There has been significant progress in the open-source community around hybrid app development, and SAP has recently adopted the Apache Cordova project (one of the world’s largest open-source projects) in a rather unique way. SAP extends Cordova through its plug-in architecture to give developers easy access to new capabilities without the need to modify the Cordova codebase after release by the community. The SAP plug-ins (referred to as Kapsel) provide key functionality such as authentication, offline and synchronization of data, app update, logging, etc. Additionally, SAP has developed and released its UI5 technology (a responsive HTML5 framework) as open source. OpenUI5 is part of our standard mobile development toolkit, and is the technology behind our popular SAP Fiori applications. For customers that do not want to develop apps, SAP offers more than 300 packaged, industry-specific apps from SAP and SAP partners in the SAP Store. In some cases, an app use case calls for high performance on the device, fast response times, or additional capabilities like augmented reality or 3D visualization. In these cases, SAP also provides extensive tooling to build true native applications on the target hardware.

The New Mobile Economy
To make mobile apps simple for end users to find and IT to manage, SAP created and launched “mobile place” software, part of the SAP Mobile Secure portfolio. Mobile place is a cloud-based mobile application management tool to enroll, provision, and securely onboard and deploy enterprise apps and services for employees, partners, contractors, and customers — on both managed and unmanaged devices — regardless of the mobile device management vendor. As mobile apps increasingly become a fixture in the enterprise and at home, they must be simpler, smarter, more contextual, and more powerful. Context-aware mobility is the information intersection where the physical and digital worlds meet, and mobility lies at the heart of cloud and big data context awareness.

As the cloud company powered by SAP HANA, SAP is in a great position to drive technology and thought leadership in industry processes to unlock the power of contextual awareness. Our SAP Mobile Platform allows designers to incrementally add all the pieces necessary to build context-aware mobile app experiences, while our broad SAP Mobile Secure cloud offering makes your content, apps, and devices safe and ready, and SAP mobile applications already use context awareness to improve business processes and customer experiences. Take customer buying patterns as one example. When a mobile app delivers useful, contextual information to a customer at the point of purchase, the probability of making a sale rises in accordance with the relevance of the personalized information that is delivered. With SAP HANA powering all data relevant to a particular customer in seconds and delivering real-time, predictive analytics, a merchant gains insight into what a customer’s next purchase might be.

This convergence of device fragmentation, open-source development standards with HTML5, and a new mobile app economy driven by cloud-based, API-enabled services is shaping SAP’s strategy to deliver a mobile app experience that provides the right information to the right users when and where they need it.

The Importance of a Mobile Partnership
Partners are integral to SAP’s mobile strategy, but especially to SAP HANA Cloud Platform mobile services. Third-party applications are key to driving the platform, whether in the development of net-new apps, the positioning of our mobile services as part of an overall solution for customers, or the creation of unique solutions that harness the incredible opportunities this platform creates.

Our partnership with Ericsson, a communications technology and services provider, is a perfect example of how we are collaborating to bring innovation to our customers. Recently we jointly announced that Ericsson will bundle and host aspects of the SAP Mobile Secure portfolio in its cloud, targeting more than 400 mobile network operators globally for sale to their enterprise customers the opportunity to purchase mobile device management, mobile app management, and content management on a software-as-a-service on-demand or subscription basis. Considering the breadth of coverage that Ericsson and its mobile operator customers reach, this partnership alone has the potential to affect hundreds of millions of end users.

Leading the Mobile Charge
The bottom line is that SAP’s comprehensive and scalable mobile and cloud platforms, combined with our vast enterprise experience across numerous industry verticals, make us a ready and willing partner for customers who wish to leverage this experience to begin their own mobile journey. Visit www.sap.com/mobile for more information.

Create Easy-to-Use Mobile Apps

Integrate Existing SAP Data and Processes with an ABAP Development Toolkit

 Barely a decade ago, cutting-edge enterprise mobility meant accessing email remotely. Now, organizations are increasingly looking to mobile solutions for everything from HR workflows to sales processes to full warehouse management functionality. Companies are embracing a mobile-first mindset to increase productivity and efficiency while reducing cost. For employees, the use of a preferred device extends beyond convenience; the expectation is that enterprise apps will be as intuitive and easy to use as the apps they download from the Apple App Store or Google Play.

One roadblock in the move toward widespread enterprise mobility, however, is that development toolsets traditionally haven’t embraced simplification in the transition to smaller devices; cluttered UIs, for example, were viewed as necessary to include every needed process or transaction. Skepticism that a mobile app could suffice to meet an organization’s precise needs — and seamlessly tie into back-end systems — created more hesitation.

SAP’s focus on simplicity and ease of use — and in particular its decision last year to open source SAPUI5 — has helped dispel these misconceptions. SAP’s commitment to SAPUI5 as its standard HTML5 development toolkit received a boost with the announcement at SAPPHIRE NOW in 2014 that the SAP Fiori application set, which is powered by SAPUI5, is now free.

Calling All ABAPers

With this commitment to SAPUI5, SAP is providing application developers with a toolkit for developing fast and easy UI applications that have unlimited flexibility. About three years ago, recognizing that HTML5 would likely be the standard framework moving forward for building rich, modern desktop and mobile UIs, we founded Neptune Software to provide an intuitive drag-and-drop HTML5 toolkit for ABAP development skills.

That toolkit became Neptune Application Designer, which can create apps that easily integrate to back-end SAP systems and data, binding directly to ABAP attributes, tables, and structures.

Ease of use is the core of our philosophy, beginning with a drag-and-drop designer that essentially allows ABAP developers to become HTML5 proficient with almost no technical training and even less JavaScript knowledge. In fact, Neptune’s drag-and-drop toolbox reduces the need for JavaScript by roughly 95%, so an ABAP developer can become a proficient mobile developer with only one or two days of training.

Neptune Application Designer is an SAP-certified ABAP add-on, so there is no need for additional hardware when installing the solution. The development platform is automatically integrated with an organization’s SAP systems and solutions and also provides the option to run applications on SAP Mobile Platform. Because the app onboarding process is integrated in the tool, a developer can configure an app to run on the platform without having to understand all of the technical details.

A Mobile Evolution

In the nascent days of enterprise mobility, a common view was that mobile apps would have to sacrifice a rich, modern UI due to the space limitations of the mobile device. This forced designers to strive for simplicity — with real estate at a premium, superfluous functionality was stripped away. Now it is expected that an SAP transaction, for example, can be completed in one or two clicks, swipes, or touches with an automated push message on your device when a task is assigned. Similarly, it used to be commonly accepted that the only reason to pursue mobility was to enable 24/7 connectivity. However, there is a shift in that thinking as
well, with offline access now a valuable component in many mobile solutions.

This is true not just for more remote or rural areas, but also for processes such as plant maintenance, where workers are often outside of a network, or even for apps such as travel expenses, where offline capability can significantly reduce data costs. Within Neptune Application Designer, a designer can select which data will have offline capability with one click, and can update this selection whenever the need arises. The simplicity theme is reinforced with the tool’s app cache, an authentication framework that automatically syncs an app on a mobile device whenever a change is transported into production, saving significant time and effort as well as ensuring uniform versions and back-end coding.

The drag-and-drop designer not only facilitates updates and maintainability, it also meshes well with SAP’s strength in producing highly configurable software to aid process optimization. This demands a nimble and easy-to-use UI tool that likewise can be configured in conjunction with an organization’s specific processes, and one that is intuitive for ABAP developers who may lack specific line-of-business process knowledge.

Installing the tool directly on SAP NetWeaver eliminates the need for an integration layer to export the data out of the SAP back end, so the ABAP developer doesn’t have to hand off to a front-end web developer. This greatly reduces complexity as well as the need for seemingly endless specifications, which allows for far nimbler design-thinking scenarios and a development strategy that can accommodate on-the-fly design changes.

Getting Started with Neptune
With SAP’s announcement last spring that SAP Fiori will be included in the standard SAP licensing agreement, we believe that more and more customers will begin to appreciate the rich UI look that defines SAPUI5. While SAP Fiori offers customers significant benefits, Neptune Application Designer possesses some key differences.

With the Neptune development environment, customers can develop a pleasing look with the aforementioned components and functionality, and can deploy their designs on any device and operating system with end users likely none the wiser about the actual design framework. It also includes additional functionality beyond that which we developed, such as Adobe PhoneGap, which allows developers to create hybrid apps that include functionality such as geolocation, barcode scanning, and taking and uploading photos.

Recently, Neptune also launched its Neptune Application Management (NAM) solution as an integrated part of the Neptune Application Designer. NAM enables management of applications throughout the entire app life cycle from development, assignment, access control, distributing, tracking, and analysis of the installations. The entire NAM application is an SAPUI5-based application, developed in Neptune’s own development platform. With NAM, end users have full access to the apps in the SAP Store and can install them with a single click and then review or give feedback on the apps.

After three years, Neptune is present in 22 countries, has 60 partners, and has more than 160,000 licensed end users. Neptune clients are using the platform most often in the following areas:

- Human resources (HR)
- Customer relationship management (CRM)
- Plant maintenance (PM)
- Warehouse management (WM)

For HR apps, especially, we are seeing a high demand for easy-to-use app development from companies that may not be working with SAP software on a daily basis. This increases the need for simplified solutions and apps to help greatly reduce training costs, for example.

With intuitive, easy-to-use modern UIs now an expectation in the enterprise, the need for training should end with the rollout of any new app. Ease of use, of course, translates into mass adoption, which in turn increases the value of the data flowing through the app to the back end. This explains why enterprise mobility adoption will be even more widespread in the coming years.

Learn More
Visit www.neptune-software.com to learn more about Neptune Software and to demo Neptune Application Designer. To download free templates, visit any app store from your mobile device.
Mobility Is the New Interaction Model
How to Move Beyond “Random Acts of Mobility” to an “Everywhere Access” Strategy

Mobility is no longer an afterthought — it is an integral part of business. This is the result of the rapid change in expectations from both end users and developers regarding enterprise applications, spurred by technological changes and evolving demographics. But mobility is not just about a mobile device, or even about technology. Mobility is about a new interaction model. If you continue to think of mobility as a device, technology, or operating system, you are missing the opportunity at hand.

As more millennials come into the workforce and become your employees and customers, enterprise IT use is shifting from desktops to mobile access. Furthermore, millennials aren’t transitioning from desktop to mobile — they’ve only known life with mobile technology and are very comfortable interacting with their peers through mobile phones and tablets, so they assume they will be able to use capabilities like location awareness, instant access to new apps, and responsive design with enterprise IT as well. Whether you’re talking about engaging your customers or your internal business users, you must develop an application strategy that addresses this new interaction model.

Moving Forward
If you do not have a strategy in place, don’t panic. Most organizations are not all that far along in their mobile journey. Typically there are “random acts of mobility” taking place throughout the organization, but not an all-encompassing strategy. The marketing organization may be developing native mobile applications on one platform, while the HR organization is trying to mobilize an employee portal with a different technology, but there is no overall strategy or mindset. Based on our experience in conducting assessments of organizations’ maturity in these areas, HP can recommend some clear steps that nearly any organization can take to embark on a path to the right strategy and mindset.

An effective first step is to hold a mobile business transformation workshop. This brings together all the right stakeholders from across the enterprise in a forum that facilitates an open dialog around mobility, with no Microsoft PowerPoint slides. Instead, the focus is on interactive panels and discussions around the mobile-specific goals of the entire organization.

The list of stakeholders invited to this workshop depends on who holds the budget for mobility projects, but typically it might involve the CMO, CSO, and CIO. One of the most important issues to discuss early on at these workshops is security, and this is a key reason why chief IT executives need to be in the room. Many internal teams from marketing to HR have concerns about the security of a mobile business initiative (for more information, see the sidebar “Security Is Priority #1” on the next page).

Execution Without CAPEX Pain
If the transformation workshop is effective, the result should be a fairly good idea of the organization’s mobile business strategy roadmap and how it aligns with the overall business strategy. From there, the conversation can turn to the technology that best supports that strategy and meets all the individual constituents’ goals. For some companies, it might be simply deploying some commercial native apps or developing some responsive front ends. But for others, it could mean investing in a complete mobility platform, such as SAP Mobile Platform, to develop custom applications.

For many companies, however, investing in the platform and the talent to quickly develop the mobile apps identified is a real hurdle. Those organizations should consider an “as-a-service” model that allows them to get up and running with their mobile strategy more quickly.
Security Is Priority #1

A key component of any mobile strategy has to be security. A thorough strategy must address security at all layers — the device layer, the application layer, and the infrastructure and network layers — and all the integration points between them.

Typically, when HP is involved in the design and architecture phase of a mobility project, we perform a thorough threat analysis to understand the application's goals and potential risks. Then we can take the appropriate steps to address those threats in the apps we develop. For example, code scans can ensure there are no vulnerabilities within an app's code and penetration tests let us see if we can exploit the application. When we deploy an app, we also apply security policies and perform continuous threat monitoring to identify any risks that arise after deployment.

For example, HP’s service is provisioned using HP Helion cloud technology and structured as an operational expense (OPEX)-based model, so there is no significant capital expenditure (CAPEX) required up front. Organizations can roll out apps to as many users as they want and pay a per-user, per-month price to speed the return on investment (ROI). In fact, HP even offers a “tablet-as-a-service” model that allows customers to roll out the apps on HP mobile devices with minimal up-front cost.

The flexibility of a cloud-based as-a-service model allows organizations to pilot and quickly deploy an entirely new platform that speeds both the market competitiveness and the ROI calculation.

Testing as a Service

Newly developed mobile apps need to be tested for functional quality, usability, performance, and security. In fact, testing for mobile applications can be more time-consuming and costly than testing for on-premise applications because of the number of combinations of devices, operating systems, browsers, and networks. Also, with business users demanding the same level of quality in enterprise apps that they enjoy in their consumer apps, testing must be extensive enough to ensure newly developed apps meet the new level of expectations.

IT organizations typically require more resources during the most critical phases of app development than what they have in house. During these busy periods, IT executives often fear they have two (very costly) choices:

- Ramp up their staff
- Cut corners while testing

But there is a third option. More organizations are relying on third-party sources like HP to provide testing services when they are most needed. HP can automate some of the testing, so test cases can be written and cycled across a range of real devices and real carrier networks. The overall project cost is contained by leveraging this unit-based, consumption-driven testing-as-a-service solution only when it’s most needed.

The overall life cycle of an application changes significantly in a mobile environment. During big ERP implementation projects, development projects can be a year or two, but in today’s mobile-first environment, apps are much smaller and more task-oriented, so they are designed, developed, and deployed more frequently. At the same time they must be tested thoroughly, and require more security to meet the elevated expectations of today’s users.

Applying the same development cycles and methodologies used in the on-premise environment is a recipe for failure. Being smaller and task-oriented, mobile apps lend themselves very naturally to shorter, more agile development life cycles. The organizations that recognize these issues and secure the right resources won’t just catch up to their peers in the market — they will become the mobile leaders of tomorrow.

Creating the Individual Enterprise

The IBM-Apple Partnership Enriches Existing SAP Portfolios to Help SAP Users Transform Their Business

It’s a meeting most salespeople dread: sitting down with a longtime customer who is overdue on payment and not knowing why. The future of the account hangs in the balance and the salesperson is walking into the meeting blind. It could be something minor that is easily rectified—or it could be a major issue that requires a detailed, thoughtful response. Whatever it is, it’s likely going to be a surprise to that salesperson.

But if that salesperson is armed with the right information at the right time, then the meeting takes a completely different tone. Imagine the salesperson pulling into the customer’s parking lot, taking out an iPad, and instantly reviewing a wealth of real-time data for the account. Order histories, delivery data, pricing information, and even social media postings are all on a familiar device that allows the salesperson to interpret the data easily and identify the customer’s pain point. Then, the salesperson can walk into the meeting prepared to address the issue and take the action required to get the account back on track.

How can you make this happen? By embracing the idea that mobility plus systems of record plus analytics can change how businesses work and how individuals perform their jobs. What makes this possible?

- Mobility compresses the time between identifying situations and taking action, and allows for the reconfiguration of workflow around every individual.
- Integrated and harmonized systems of record enable the complex value chains required to operate an organization to be masked from users while enabling rapid deployment of new transformational applications.
- Integration of analytics and big data increases situational understanding and facilitates real-time decision making.

Welcome to the Individual Enterprise, where every employee is empowered with the capabilities needed to make the right decision and take the right action during the most critical times. Empowering employees at the point of engagement—which that engagement is with customers, business partners, or colleagues—dramatically changes decision making and courses of action. In short, you’ve put the power and knowledge of the enterprise into the hands of the individual.

These capabilities are achievable for SAP customers with the proper strategy, roadmap, and partners. And it’s the logical strategic progression for companies that have already done the heavy lifting of business transformation. Building upon the investment in SAP systems of record, business process optimization efforts, and mobile, the Individual Enterprise represents the next iteration of enterprise transformation—designed to leverage the native capabilities of SAP and iOS-based mobile development platforms, while harnessing the power of data and analytics to empower individuals in ways never imagined before.

Off and Running

Organizations that have implemented SAP systems have already made a significant investment and commitment to global integration and transformation built on process standardization and data harmonization. Those SAP deployments serve as the foundation to provide core processes, transactions, and information to drive the enterprise. To maximize this value, the capabilities have to be securely delivered to the right users at the moment they are needed, in an easy-to-understand format, and augmented with additional content to improve decision making. Expanding the reach of the SAP system is how ROI improves and how individual users within the enterprise become truly empowered. By embracing the concept of the Individual Enterprise as the foundation for the next wave of transformation, SAP customers can focus on empowering individuals to do things never before possible to increase differentiation in the marketplace and improve organizational effectiveness, while also improving the overall work experience for the millennial generation of employees and business partners.

Many enterprise mobility-driven transformations face integration, security, and user experience challenges. A growing number of devices and a variety of mobile apps in the enterprise are combining to make provisioning, management, and security an ongoing issue for an internal IT organization. Changing mobile

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platforms can make application development cost prohibitive, and an approach focused on simply translating screens designed for a desktop environment to a mobile device can yield unexpected results.

Thanks to a continuing wave of enterprise technology innovation, individual users have better access to information and the ability to improve their effectiveness for the enterprise. For example, SAP users today have options for a mobile interface robust enough to provide access to the wealth of data and analytics in their ERP system, yet intuitive enough to make access quick and easy, clarifying the way forward to enterprise mobility and transformation. With SAP’s capabilities and the recent release of SAP Fiori and SAP Lumira, that path is clear, and the recent IBM-Apple partnership bolsters those offerings by helping SAP users to:

1. Enable the base. SAP customers gain even more flexibility in putting the power of mobility into the hands of users on an enterprise scale. Embrace the move to mobility with the same rigor, discipline, security, and support that you apply to the rest of your IT environments.

2. Mobilize the base. Leverage the power of SAP’s platform and robust analytics to put SAP into the hands of more users via their existing devices and improve the overall effectiveness of your enterprise.

3. Begin the journey to the Individual Enterprise. Embrace the idea of the Individual Enterprise and identify those process areas that can most benefit from a mobility-led transformation.

Mobility, analytics, the cloud, and big data have all come together to enable SAP customers to create the Individual Enterprise by deploying mobile devices with the right functionality to their extended users.

Competitive Advantage

SAP customers looking to move to the Individual Enterprise want to do so with minimal risk. That means using powerful business applications on a well-known device that is provisioned by a trusted business partner.

The recent partnership between IBM and Apple will provide SAP users with a low-risk, cost-effective option to begin the journey to the Individual Enterprise.1 The partnership involves four key elements that empower individual users at SAP customer organizations:

1. The addition of more than 100 MobileFirst for iOS industry-specific enterprise solutions developed exclusively for the iPhone and iPad that complement accelerated deployment of SAP Fiori. (This addition bolsters the more than 300 industry-specific apps that SAP offers.) This includes a new set of solutions targeted specifically for SAP customers in areas such as Contextualized Workflow for Sourcing and HR, Location Inspection, and Client Engagement.

2. A unique set of mobile integration services, optimized for iOS devices.

3. AppleCare for the Enterprise.

4. A set of new packaged offerings from IBM for global device activation, supply, and management to provide SAP customers more choice in mobilizing the enterprise.

Deploying this next generation of capabilities and transformations that bring together the enterprise platform, analytics, and mobile capabilities in a class of applications will truly change how employees work. For SAP customers, the MobileFirst for iOS solutions complement the growing list of available SAP apps, targeting specific industry issues or opportunities.

The Supply, Activate, and Manage service gives SAP customers another option to deploy mobile initiatives without getting hung up in the execution phase of provisioning and distributing the right devices to the right users. In this model, an iPad is scanned for a specific user and all the apps and functionality that the user needs are put on that device with the proper security levels.

Strong Finish

You have set the foundation with your SAP deployment, and the tools and capabilities are in place to take the next step in extending your SAP user base. Solutions that offer consumer-grade experiences will engage employees at all levels. Secure and efficient provisioning services streamline the process and minimize risk. The expanding list of targeted and powerful apps will unlock the information deep within your systems of record and put it in the right hands.

The result of these trends is transformative: a dramatically empowered end user with instant access to the information and knowledge that used to reside only in various pockets across the enterprise. The knowledge and insight of an entire enterprise available on a single device for a single user: That’s the promise of the Individual Enterprise, and SAP customers are ready to achieve it. Visit www.ibm.com/mobilefirst/us/en for more details.

From Mobile-First to Security-First
How a Mobile Center of Excellence Can Promote Data Governance and Unify Mobile Initiatives

Fueled by the consumerization of IT, mobile apps and devices are rapidly becoming central to how employees use enterprise technology. In turn, businesses are finding they can create new ways to work, transform existing business processes, drive productivity gains, and generate new revenue streams by adopting mobile technologies.

Organizations are now taking a “mobile-first” approach to business strategy and execution — but it’s not enough. This approach exposes core systems and sensitive data to external threats. Companies need to pair their mobile-first agenda with a “security-first” mindset. A multitude of challenges are grouped under the umbrella of mobile security: Bring-your-own-device (BYOD) policies, device management, identity and access management, authentication, encryption, antimalware solutions, and network and cloud security are just some of the concerns facing modern organizations. The best way to tackle these mobile security challenges is to combine people and technology to set up efficient, effective processes.

Setting Up a Mobile Center of Excellence
The first step toward consolidating an organization’s siloed mobile processes is to set up a mobile center of excellence. The team should represent the stakeholders and thought leaders throughout an organization, consisting of subject matter experts from the lines of business and IT leadership. These dedicated team members conduct seven key activities:

1. Develop and prioritize mobile initiatives
2. Establish a mobile device management strategy
3. Define the people, processes, and tools to drive the mobile strategy
4. Design and develop mobile apps
5. Roll out a comprehensive mobile platform
6. Implement mobile solutions
7. Conduct a constant assessment of the return on investment (ROI) of mobile initiatives

This sort of program helps build ongoing governance with uniform security and usage policy enforcement across all devices. It is important to establish that mobile initiatives are not one-off events, but part of a continual, iterative, and dedicated mission to gain a competitive advantage.

Technology to Enable the Initiative
SAP offers a variety of solutions to handle mobile security, including SAP Afaria for mobile device management, the SAP Mobile App Protection solution by Mocana for mobile app-level security and data encryption, and SAP Mobile Documents for enterprise-class cloud storage. Mobile-first businesses are embracing these leading solutions to future-proof their mobile strategy and lay the foundation for impactful mobile initiatives without sacrificing security.

What’s Next?
Mobility offers game-changing value to enterprises that embrace it strategically, holistically, and with an understanding that the security spotlight remains constant, vigilant, and comprehensive. If you’re struggling to know what’s next on the mobile front, contact NTT DATA mobility experts today at www.nttdata.com/america$ for help building a roadmap for a secure, effective mobile enterprise.
One of the greatest challenges when optimizing business processes is eliminating the bottlenecks caused by delayed approvals. For example, operations may be halted due to a missing part that is critical to production — but executive sign-off is holding up the procurement of the component. This approval may be delayed for a variety of reasons, including:

- Being out of the office and not having access to the system
- Challenges and frustrations with using multiple SAP and non-SAP workflow systems
- Not having the right support documentation to make an informed decision about the approval

In many large organizations, such situations are all too common. This pain is amplified by managers receiving countless emails from a multitude of workflow applications. The managers must not only log into each of these systems, but also remember their complex interfaces, or rely on email and paper documents to access supporting information. Because of these issues, more and more executives are delegating task approvals to administrators.

To solve these problems, companies should roll out an application that provides senior executives with the tools they need to keep approvals moving — and make important business decisions — even when they’re on the go.

**A Strong Motivator for Mobilization**

OneList Approvals provides an aggregated, actionable listing of all workflow tasks from multiple workflow systems. Accessible on all mobile and desktop devices, OneList Approvals presents information tailored to the organization and the specific scenario at the time of approval. Related information such as team calendar or project budget status is accessible in real time for more informed decision making. Furthermore, if responsible managers are unavailable, they can easily delegate tasks, whether individually or in bulk. These managers can also submit and receive feedback and commentary.

OneList Approvals is available as a native iOS or Android mobile application, or an HTML5-based web application (see Figure 1). Users can also approve offline on the mobile app. And to accommodate users who are accustomed to an email-based approval workflow, there is also an email add-in to house all approval tasks within the email client, replacing inbox email clutter with an up-to-date task list.

**Learn More**

OneList Approvals simplifies and mobilizes workflow to boost productivity and adoption among senior executives. For more information about the solution, visit www.onelistapprovals.com.