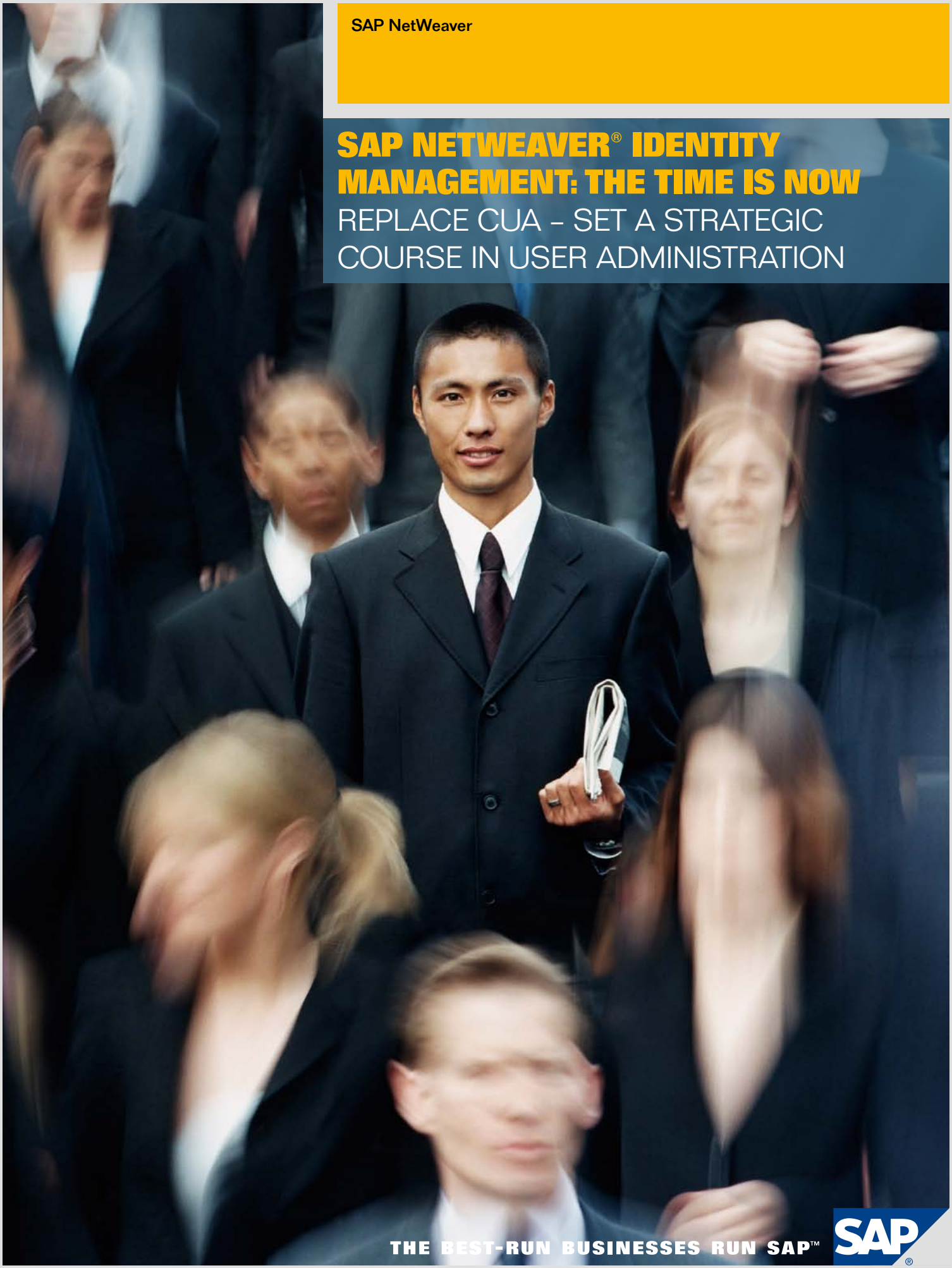
SAP NetWeaver

SAP NETWEAVER® IDENTITY MANAGEMENT: THE TIME IS NOW

REPLACE CUA – SET A STRATEGIC COURSE IN USER ADMINISTRATION



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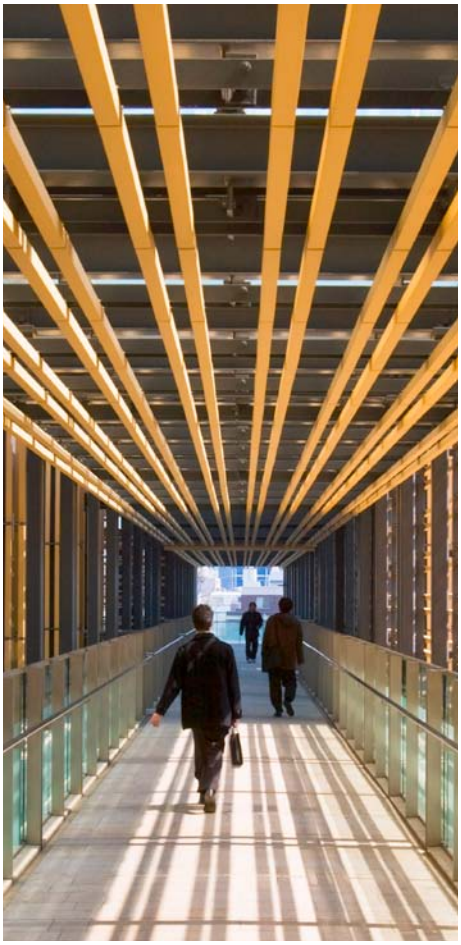
BRING NEW EFFICIENCY TO YOUR USER ADMINISTRATION

WITH SAP NETWEAVER® IDENTITY MANAGEMENT

For many years, the central user administration (CUA) component has served SAP customers well with reliable authorization and role management functions for SAP® software landscapes based on the ABAP™ programming language. Now, however, the time for a paradigm shift in SAP's user management strategy has arrived. With the SAP NetWeaver® Identity Management (SAP NetWeaver ID Management) component, you can implement centralized administration of your employees' user accounts and system authorizations across multiple SAP software environments. The component also offers a functional scope that goes far beyond that of CUA, enabling new users to get started more quickly throughout your heterogeneous system landscape.

Powerful and innovative – and yet scalable and flexible – SAP NetWeaver ID Management aids you in establishing a framework for comprehensive and compliant identity management. The component is finely tuned for integration with the SAP BusinessObjects™ Access Control application, a market leader for governance, risk, and compliance (GRC) in SAP software systems. By combining SAP NetWeaver ID Management with this application, you can be even more efficient in helping ensure universal security.

The time is right to secure your user administration for years to come. Join the many SAP customers already taking full advantage of the new developments and enhanced functions in SAP NetWeaver ID Management.



"Now it's easy for us to quickly connect new systems to SAP NetWeaver Identity Management."

Tobias Marquart,
Project Lead in Identity Management,
University of Basel Data Center

AT HOME IN EVERY SYSTEM
FULLY INTEGRATED, TOTALLY SECURE

CUA and SAP NetWeaver ID Management both provide a number of functions for managing users, roles, and authorizations, including:

- Centralized creation, maintenance, and deletion of user accounts
- Centralized administration of global attributes, such as first and last names
- Role assignment and removal
- Data synchronization across multiple systems

So, why upgrade? CUA only offers these functions within ABAP-based SAP software environments; SAP solutions based on Java and technology other than the SAP NetWeaver technology platform (such as SAP BusinessObjects and Sybase® solutions) and systems from other providers are not supported.

This is precisely where the advantages of SAP NetWeaver ID Management come into play. Among additional comprehensive identity management functionality (see Figure 1), the solution contains numerous connectors (see Figure 2) through which you can integrate other IT systems across multiple platforms. Interlinking your applications based on a service-oriented architecture will enable you to implement consistent, centralized user administration throughout your company's system landscape.

Dependable Compliance with Any Requirement

With SAP NetWeaver ID Management, you benefit from:

- **Segregation of duties:** You can automatically help ensure legal compliance by delegating decisions concerning authorization assignments to the responsible business process owners. Workflows help you adhere to the correct approval sequences, while SAP NetWeaver ID Management logs every process in the background.
- **A hierarchical role model:** The component enables you to organize authorizations based on a hierarchy of business roles. Through the "employee" role, for example, you can create a new e-mail account, Microsoft Active Directory entry, or telephone extension in a single step. You can then grant the "department manager" role further authorizations, such as cost center access.
- **Consistent identity monitoring and transparent audit trails:** SAP NetWeaver ID Management facilitates tracking of changes in data and authorizations throughout an employee's entire identity lifecycle. This helps ensure a higher level of security and makes reporting easier.
- **User self-administration:** Employees can manage much of their personal data on their own and even reset their own passwords, which means

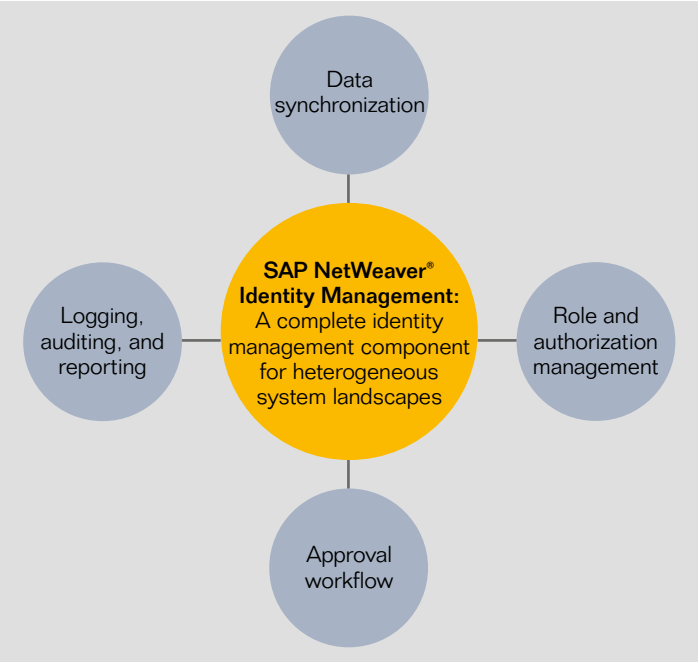


Figure 1: A Complete Identity Management Component for Heterogeneous System Landscapes

less work for those at your help desk. Users can also request system access and role assignment themselves.

- **Transparency in authorization administration:** What authorizations does a certain employee have? How many employees are using a particular system license? SAP NetWeaver ID Management provides immediate insight into all of the permissions granted at your company.
- **Reduced costs and time requirements:** Just minutes after their accounts are created, employees can log into their workstations, send and receive e-mail, access the business applications assigned to their positions, and use your employee portal. This spares you the usual routing slips and manual data entry.

All in all, you can transfer more responsibility for managing personal data and authorizations to those to whom they belong: your employees.

By enabling you to implement reliable, comprehensive, and compliant identity management in short order, SAP NetWeaver ID Management also significantly improves your preparation for future quality inspections and internal audits. Simply connect the component to SAP BusinessObjects Access Control to integrate potent functions for governance, risk management, and compliance directly into your user administration.

A Flexible Component for Heterogeneous Systems

Written purely in ABAP, CUA is deeply integrated into SAP ERP and other SAP Business Suite applications. As part of the SAP NetWeaver technology platform, SAP NetWeaver ID Management makes much more flexible implementations possible: instead of targeting individual systems, you can use it to consolidate and manage identities and authorizations throughout your landscape according to your company's role model, which leads to significant gains in efficiency.

In addition, CUA sits directly atop an SAP R/3® or SAP ERP software system, while SAP NetWeaver ID Management is based on Java. The new component runs on the SAP NetWeaver Application Server component and connects to a separate database server. By easily integrating separate directories, databases, groupware applications, and operating systems into your user administration, you can implement a comprehensive identity management beyond the borders of SAP software systems. The connectors in Figure 2 make this possible.

Target system class	Connectors
Directories	Microsoft Active Directory, IBM Tivoli Directory, Novell eDirectory, SunONE Java Directory, Oracle Internet Directory, Microsoft Active Directory Application Mode (ADAM), Siemens DirX, OpenLDAP
Databases	Microsoft SQL Server, Microsoft Access, Oracle Database, IBM UDB (DB2), MySQL, Sybase
Applications	SAP® Business Suite, SAP BusinessObjects™ Access Control (GRC), Lotus Domino/Notes, Microsoft Exchange, RSA ClearTrust, RSA SecurID
OS or other systems	SAP NetWeaver® Application Server component, Microsoft Windows NT, MS-ILM (previously MIIS), Unix/Linux, ShellExecute, custom Java connector API, script-based connector API
Generic interfaces	SPML (Services Provisioning Markup Language), LDAP, ODBC/JDBC/OLE-DB, RFC, LDIF files, XML files, CSV files
Partner connectors (not included in standard component)	ENDRA (Kogit), BlackBerry Enterprise Server (Kogit), IBM–Cognos (Kogit), IBM–i5 (Identity Forge), CA-ACF2 (Identity Forge), CA-Top Secret (Identity Forge), Cisco Call Manager (Conet), FlexiTrust CA (FlexSecure), IBM–RACF (Kogit), IBM–RACF (Identity Forge), SharePoint (Asconsit), SharePoint (Kogit), Secure TrustManager (Secude), PeopleSoft (Asconsit)

Figure 2: Connectors for SAP NetWeaver Identity Management

ACHIEVING GREATER SECURITY WITH LESS

OPTIMIZE AUTHORIZATION ASSIGNMENT

Rapid, Low-Risk Approvals

Are you still investing a lot of time and dealing with the errors often involved in managing your user accounts based on routing slips, manual signatures, and e-mail archives? SAP NetWeaver ID Management now gives IT directors like you the opportunity to significantly optimize your user administration while helping ensure the highest possible level of security.

The component supports your efforts to assign and manage user accounts and authorizations with an integrated approval workflow that helps ensure smooth, secure processing all the way from requests to approvals. All of your employees will have the exact permissions they need for their daily work – and not one authorization more.

Here are some example scenarios:

- **A new employee joins your company.** The human resources department enters the corresponding master data into your HR system. SAP NetWeaver ID Management creates an e-mail account, an Active Directory entry, and a home folder while granting the employee access to your employee portal. The new hire also automatically receives further authorizations based on a clearly defined role model. Through single sign-on, she can then access all of the functions she needs from a central location.
- **An intern completes consecutive stints in various departments.** On the first day of each, SAP NetWeaver ID Management quickly and reliably grants him his new authorizations following manager approval and removes those he no longer needs.
- **An employee leaves your company.** With SAP NetWeaver ID Management, it takes just seconds to remove access rights for everything from workstations to the company parking garage.

> "After many years with CUA, we successfully upgraded to SAP NetWeaver Identity Management to realign our strategy and gain the ability to merge our user management for SAP and non-SAP applications whenever necessary."
>
> **Dr. Christoph Wall,** Freie Universität Berlin

Other useful workflows that help ensure equally high measures of employee productivity and security – and are not available in CUA – offer further arguments for an upgrade to SAP NetWeaver ID Management.

Rights by Role

Through roles, you can determine which authorizations your employees receive while precisely defining each individual access right. With CUA, this can quickly lead to uncontrolled growth, which is why the roles that companies use in practice often outnumber their employees. SAP NetWeaver ID Management enables you to maintain clear, straightforward structures and handle identities based primarily on business roles. Containing authorization information from adjacent systems, these roles are inheritable and easy to organize in hierarchies. You can also generate templates to speed up the creation of new roles in the future.

A real-world situation might include the following roles:

- **Employee:** Every employee receives an e-mail account, a user ID, an Active Directory, and single sign-on portal access. You can assign a business role to automatically grant the corresponding authorizations.
- **Sales manager:** You can assign multiple roles – such as "manager" and "sales" – to the same employee to grant extended access to cost centers and customer relationship management functions.

When needed, you can also still grant specific rights without assigning a business role.

Less IT Effort Required

Upgrading to SAP NetWeaver ID Management is also a worthwhile investment with respect to your ongoing outlay in IT: the component will reduce your administrative costs and effort and relieve your IT help desk for the long term. By accessing self-services through a familiar interface, users can quickly manage their attributes – cell phone numbers and office addresses, for example – and reset their passwords without time-consuming support tickets. The sooner you switch to SAP NetWeaver ID Management, the sooner you can start achieving the additional return on investment these functions provide.

A THREE-STEP APPROACH

UPGRADE NOW AND REAP THE BENEFITS

Switching from CUA to SAP NetWeaver ID Management is an important strategic endeavor, and doing so is simpler and faster than you might think. You can achieve this goal in three phases.

Phase 1: Project Preparation

First, you analyze your existing processes in the central user administration (CUA) component and take stock of your current data in order to identify and leverage synergies. You determine which personal data and processes you want to transfer to your new system and which roles you will need to carry over. Meanwhile, data cleansing and migration effects will improve your data quality and prepare you for the transition.

During this phase, CUA still handles user administration in your SAP® software systems. You continue to maintain your non-SAP solutions separately and approve authorizations as before – using routing slips or e-mail, for example.

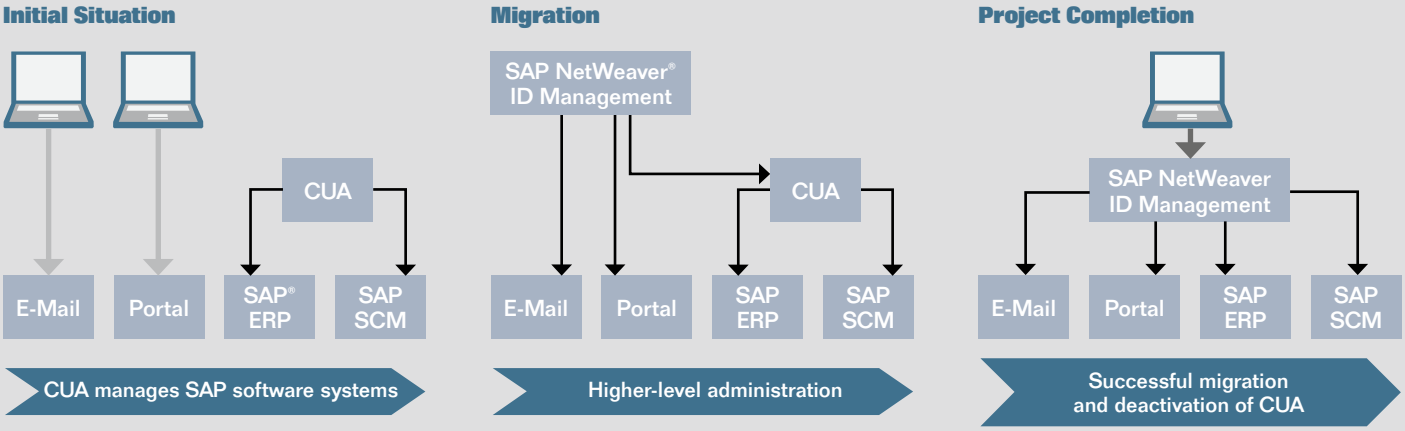
Phase 2: Parallel Operations

In the next step, you import all of your user data into the SAP NetWeaver® ID Management component. You map all of your role models and then integrate your non-SAP solutions while continuing to use CUA to manage your users and access rights for SAP applications. In other words, you run both components in parallel to minimize downtime.

Depending on your IT structure and requirements, you can also integrate your third-party systems at a later point in time – it's up to you.

Phase 3: Migration and Project Completion

You now successively migrate all of your SAP software systems from CUA to your new SAP NetWeaver ID Management component. This enables you to maintain an overview while carrying out your project carefully and avoiding the risks involved in a "big bang" implementation. After transferring all of your systems, you can deactivate CUA.



CUA = Central User Administration; **ERP** = Enterprise Resource Planning; **SCM** = Supply Chain Management

DIRECT COMPARISON
YOUR BENEFITS AT A GLANCE

While CUA and SAP NetWeaver ID Management do have some things in common, it's easy to see the advantages of the new SAP component in the following overview table.

"Our user administration is now more streamlined and cost-effective, and it's also easier to meet the associated compliance requirements."

Margit Stefaniack, Department Head of Processes and Applications, Berliner Stadtreinigungsbetriebe

Function	Central user administration (CUA)	SAP NetWeaver® Identity Management
Target systems	ABAP™ programming language–based systems	Applications and solutions from both SAP and other providers
Workflow support	No	Yes
Rule-based access to user administration	No	Yes, through access controls
Hierarchical role modeling	▪ Only single and composite roles ▪ No inheritance or hierarchy support	Company-wide role models based on business roles
Cross-system role assignment	Manual only	Automatic
Lightweight Directory Access Protocol (LDAP) directory integration	LDAP synchronization only	Yes
Password management	Central management and allocation of initial passwords	User interface enables decentralized password resets
Graphical user interface	Yes, through transaction SU10	▪ Mass changes through comma-separated values (CSV)–based initial data ▪ Import and upload preparation as part of the CUA replacement package from SAP® Consulting
Reporting	Yes, through transaction SUIM	▪ Standard reports in the SAP NetWeaver Business Warehouse component and SAP Crystal Reports® software ▪ Migration package includes customizable report templates
E-mail notification	No	Supports integration of an existing e-mail system
Integration of back-end systems, monitoring, and troubleshooting	▪ Application link enabling (ALE) distribution model and iDoc processing ▪ Synchronization through standardized jobs	▪ Includes interfaces and job templates ▪ The actual specifications require conception and configuration

SECURE ACCESS TO ALL SYSTEMS
IDEALLY POSITIONED FOR THE FUTURE

> "We have successfully replaced CUA and added high value with the introduction SAP NetWeaver Identity Management ."
>
> **Dr. Christoph Wall,** Freie Universität Berlin

The Time Is Now

With SAP NetWeaver ID Management – SAP's new strategic component for identity management – you can move on from CUA with confidence. Doing so will prepare your company's user administration for the future and consolidate the corresponding elements throughout your system landscape. You can also add new functions to the component with subsequent updates.

SAP NetWeaver ID Management enables you to implement centralized user administration for your entire IT landscape while transcending system boundaries. By combining it with SAP BusinessObjects Access Control, you can also minimize risk by helping to ensure your compliance with current and future governance guidelines. The component largely automates your fulfillment of legal and auditing requirements.

Meanwhile, you'll find the process of granting and removing access rights much easier and more efficient. Many procedures will no longer require manual execution by your employees, and managing all of the identities at your company centrally will constantly increase the quality of your user data and your company's security in equal measure. Year after year, your support effort will decline as you watch the return on your investment grow.

Reach Your Goals More Quickly with Quality Consulting

If you're looking to take advantage of this new component sooner rather than later, SAP Consulting offers a service package that can help you prepare and complete your upgrade to SAP NetWeaver ID Management – all for one fixed price.

More information is also available at these links:

- www.sap.com/platform/netweaver/components/idm/index.epx
- www.sdn.sap.com/irj/sdn/nw-identitymanagement

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