

eDirectory 8.8 / Identity Manager 3.0

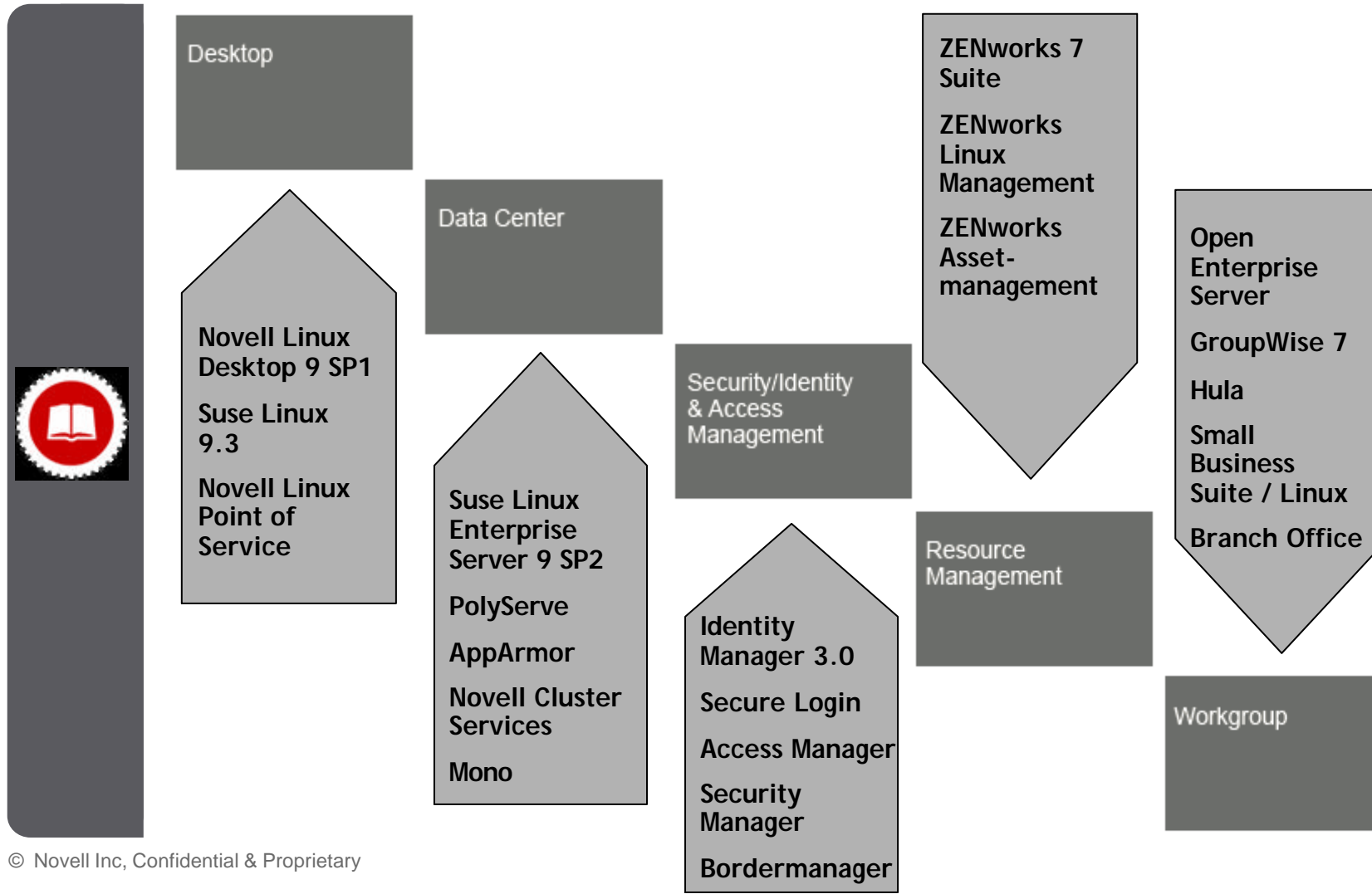
Wolfgang Rölz

October 5, 2005



Novell.

Novell Strategie 2005



eDirectory 8.8

Was ist neu ?

- Installation
 - Mehrere eDirectory Instanzen
 - Bessere Ausnutzung vorhandener Hardware Ressourcen
 - Filesystem Hierarchy Standard (FHS) Compliance (Linux, Unix)
 - non-root user Installation und Konfiguration (Linux, Unix)
 - Linux Standards Base (LSB) compliance
 - DIB Pfad Angabe während der Installation (Windows)
 - Pre-upgrade healthcheck
 - Yast und Red-Carpet Integration
- Geschwindigkeit
- Sicherheit
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
 - Mehrere Instanzen
 - Filesystem Hierarchy Standard (FHS) Compliance (Linux, Unix)
 - non-root user Installation und Konfiguration (Linux, Unix)
 - Linux Standards Base (LSB) compliance
 - DIB Pfad Angabe während der Installation (Windows)
 - Pre-upgrade healthcheck
 - Yast und Red-Carpet Integration
- Geschwindigkeit
- Sicherheits
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
 - Bulkload Geschwindigkeit
 - Multi-threading
 - Deaktivierung der “inline change cache generation” (Kein “ChangeCache” wird in einer “single server tree” Umgebung benutzt)
 - Subtree Suche Geschwindigkeit
 - Priority Sync
- Sicherheit
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
 - Bulkload Geschwindigkeit
 - Subtree Search Geschwindigkeit Verbesserung
 - ancestor ids um die Geschwindigkeit von subtree searches zu verbessern
 - “This attribute” ist indexfähig
 - Priority Sync
- Sicherheit
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
 - Bulkload Geschwindigkeit
 - Subtree Search Geschwindigkeit
 - Priority Sync
 - Jede Änderung an kritischen Daten wird von einem extra optionalen Prozess mitverfolgt, dem “priority Sync process”. Der sendet die Änderungen sofort an alle anderen Replikaserver. Der normale Replikationsprozess existiert immer noch für die Prüfung.
 - **Schreibt die Änderungen sofort in alle Replikas**
- Sicherheit
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
- Sicherheit
 - Verschlüsselte Replikation
 - Alle Daten können während der Synchronisation zwischen den Replikaservern verschlüsselt werden.
 - Verschlüsselte Attribute
 - Case Sensitive Password
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
- Sicherheit
 - Verschlüsselte Replikation
 - Verschlüsselte Attribute
 - Ermöglicht es kritische Daten zu schützen
 - Verschlüsselte Attribute sind eine Per Server Option
 - Unterstützt werden AES, DES und 3DES
 - Case Sensitive Password
- Sonstige

AES – Advanced Encryption Standard

DES – Data Encryption Standard

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
- Sicherheit
 - Verschlüsselte Replikation
 - Verschlüsselte Attribute
 - Case Sensitive Password
 - eDirectory Passwörter können jetzt “benutzerfreundlich” sein
 - Die Konfiguration gilt entweder für den User, Container oder den ganzen Directorybaum
- Sonstige

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
- Sicherheit
- Sonstige
 - Fehler Logging
 - Bessere Einstellmöglichkeiten welche Nachrichten z.B. über DSTrace ausgegeben werden
 - 5 Level an Nachrichten: Fatal, Error, Warning, Informational und Debug
 - Zusätzliche Filtering Unterstützung in iMonitor
 - LDAP-Based Backup
 - SASL-GSSAPI

eDirectory 8.8

Was ist neu ?

- Installation
- Geschwindigkeit
- Sicherheit
- Sonstige
 - Fehler Logging
 - LDAP Backup/Restore
 - Liefert ein Interface, erweitert via LDAP C SDK (LDAP Erweiterung) für Applikationsentwickler für das Sichern und Wiederherstellen von eDirectory Objekten
 - “time-stamp backup”, das Objekt wird nur gesichert wenn es Änderungen gibt
 - Sichern und Wiederherstellen aller Attribute die mit dem Objekt assoziiert sind
 - SASL-GSSAPI

eDirectory 8.8

Was ist neu ?

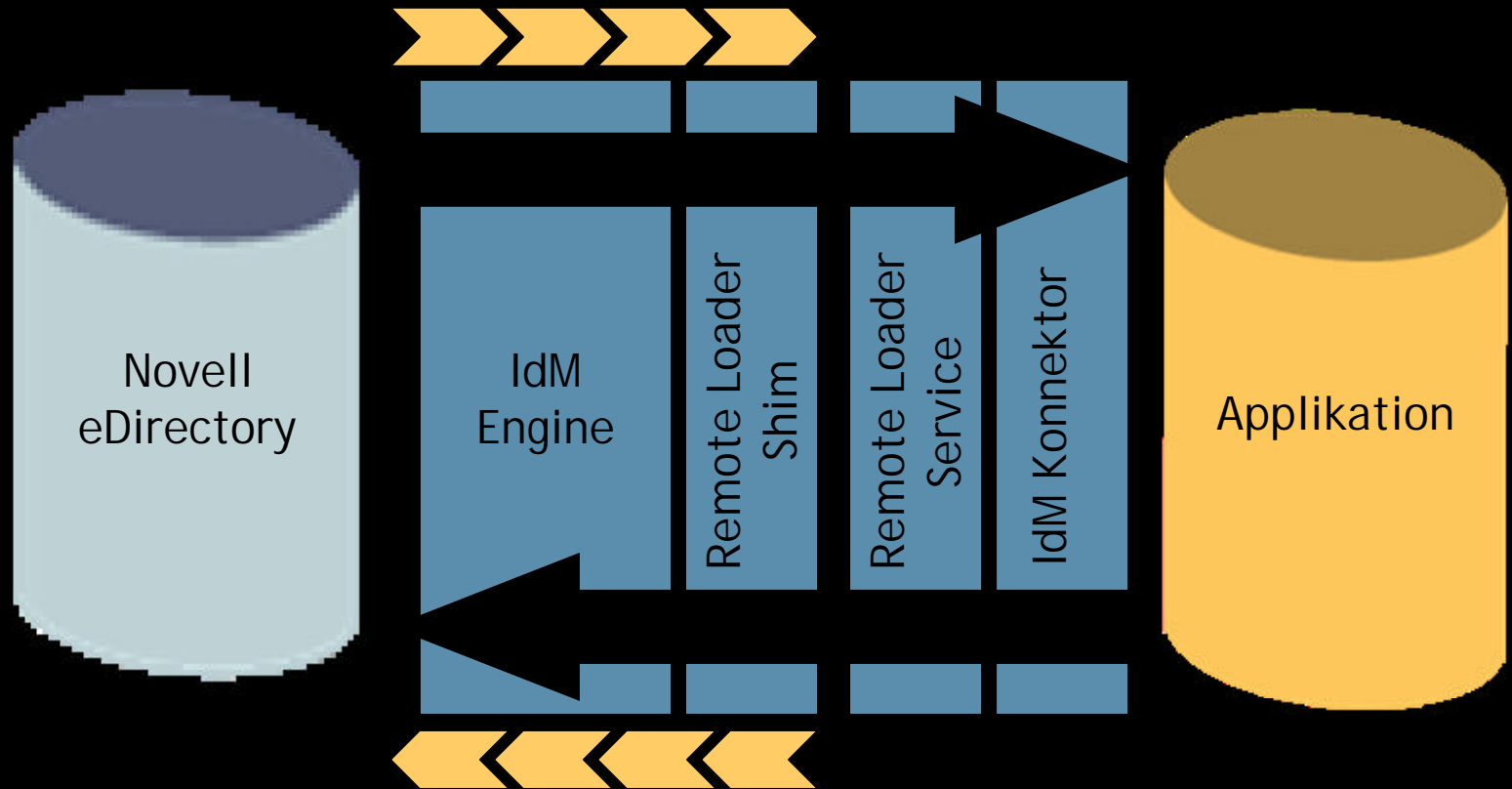
- Installation
- Geschwindigkeit
- Sicherheit
- Sonstige
 - Fehler Logging
 - LDAP Backup
 - SASL-GSSAPI
 - Der LDAP SASL-GSSAPI Mechanismus ist ein Authentifizierungs Modul, das es ermöglicht eine Authentifizierung “gegen” LDAP Server auf Basis eines Kerberos Tickets durchzuführen
 - Mögliches Einsatzgebiet: LDAP Applikations Benutzer in Umgebungen die schon heute eine Kerberos Infrastruktur haben
 - » Diese “Kerberos” Benutzer können sich ohne weitere Passwort Eingabe an einem LDAP Server anmelden

eDirectory 8.8

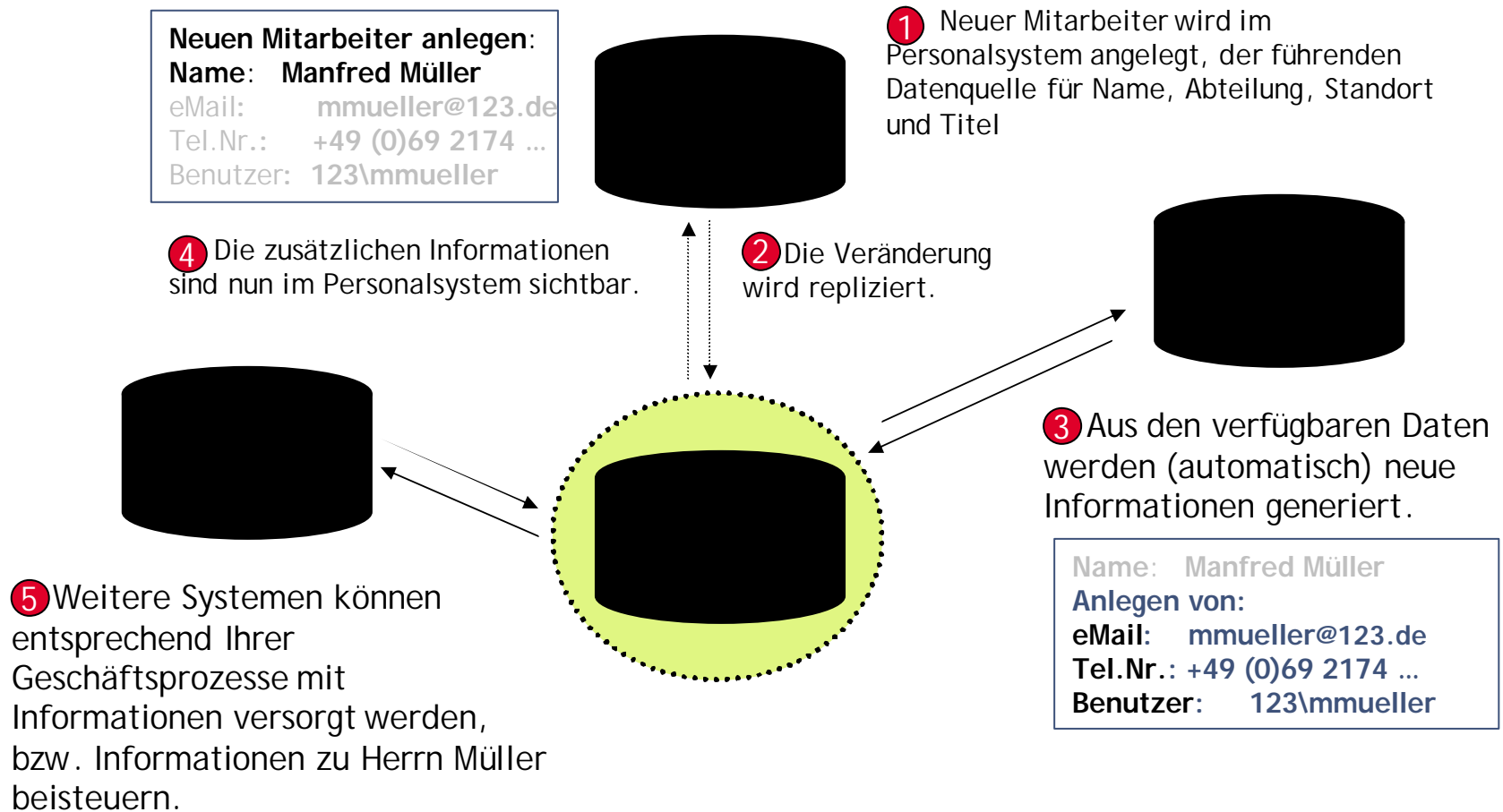
Was ist neu: Zusammenfassung ?

- Installation
- Geschwindigkeit
- Sicherheit
- LDAP Backup / Logging / SASL-GSSAPI

Identity 2.x Manager Technologie



Beispiel: Neuer Mitarbeiter



Hauptbestandteile IDM 3.0

- **IDM 3.0**

- Identity Manager (DirXML) Engine, mit einem Portal für die Anwender
- Komponenten:
 - Identity Manager Engine
 - Anwender Portal mit vorgefertigten Portlets für Identity Funktionen

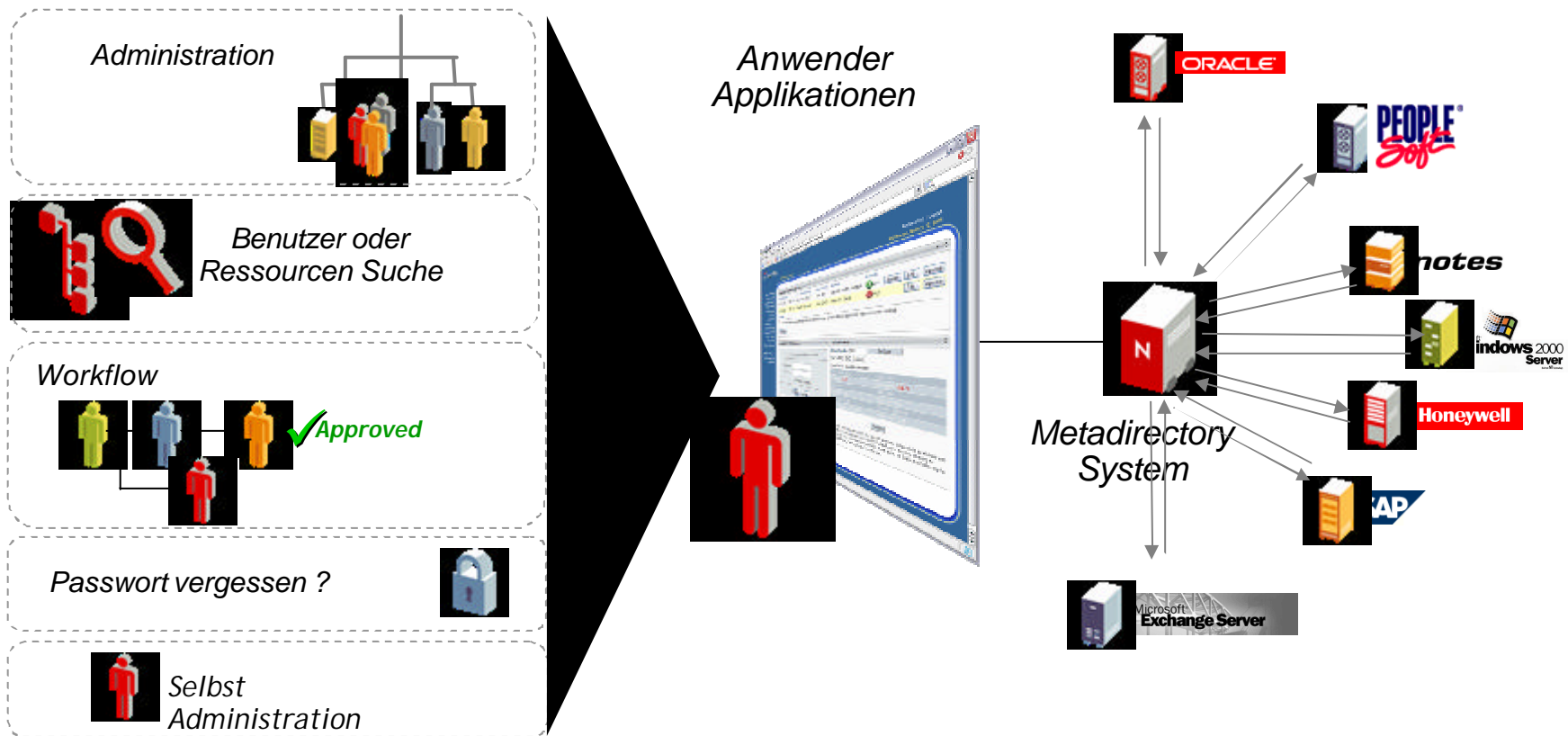
- **Provisioning Module**

- Eine Erweiterung die Workflow Funktionen im User Portal von IDM 3.0 zur Verfügung stellt

- **Integrations Module / Treiber / Konnektoren**

- Fast unverändert im Vergleich zur Vorgängerversion
- Ermöglichen die Anbindung von unterschiedlichen Applikationen, Betriebssystemen, Datenbanken, Directories, Dateien usw.

Identity Manager 3.0

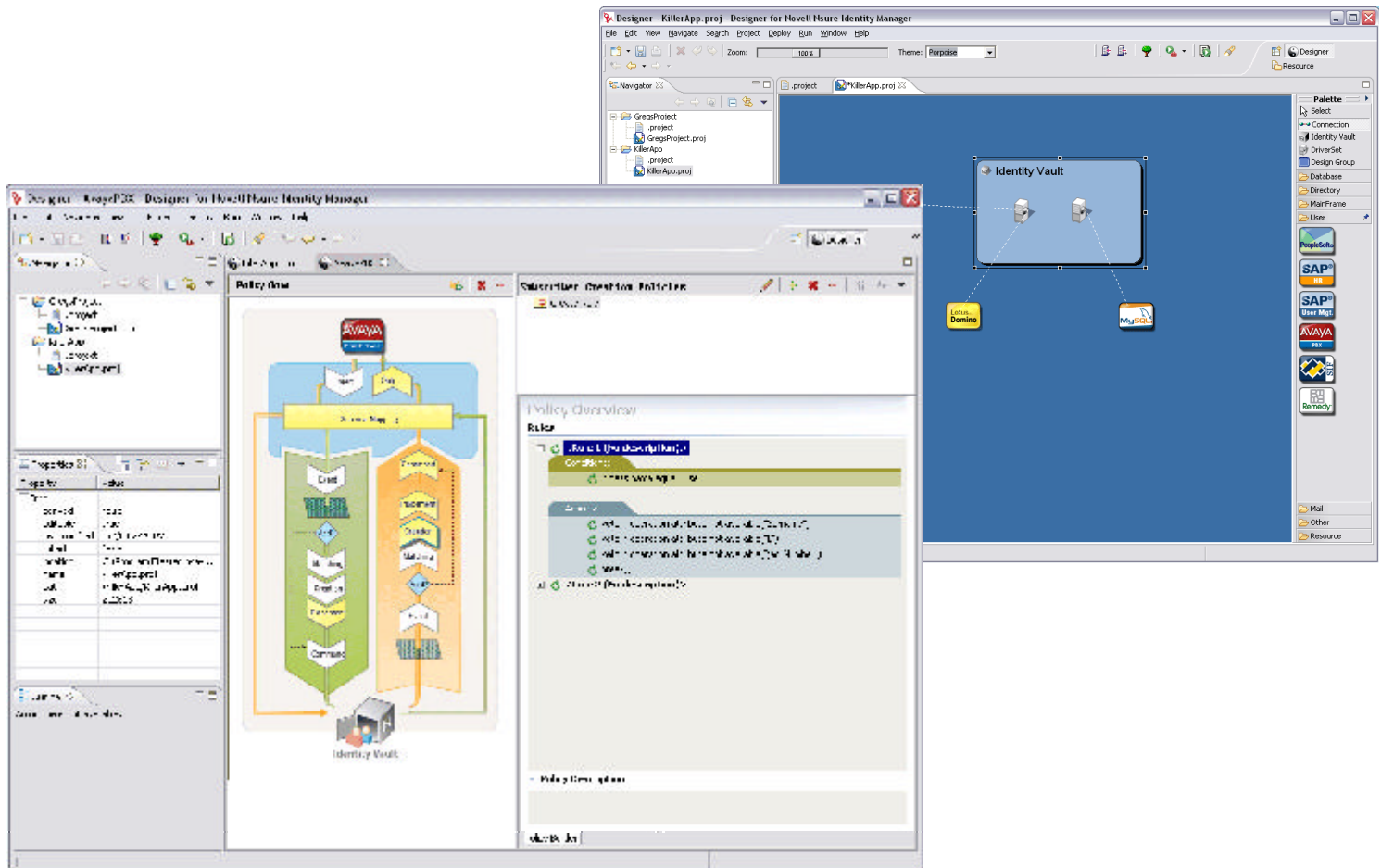


IDM 3.0 für den Administrator

- Eclipse basierte Konfiguration (Designer)
- iManager basierte Administration
- Workflow Vorlagen
- Erweiterte Integration in Novell Audit



Designer für Identity Manager

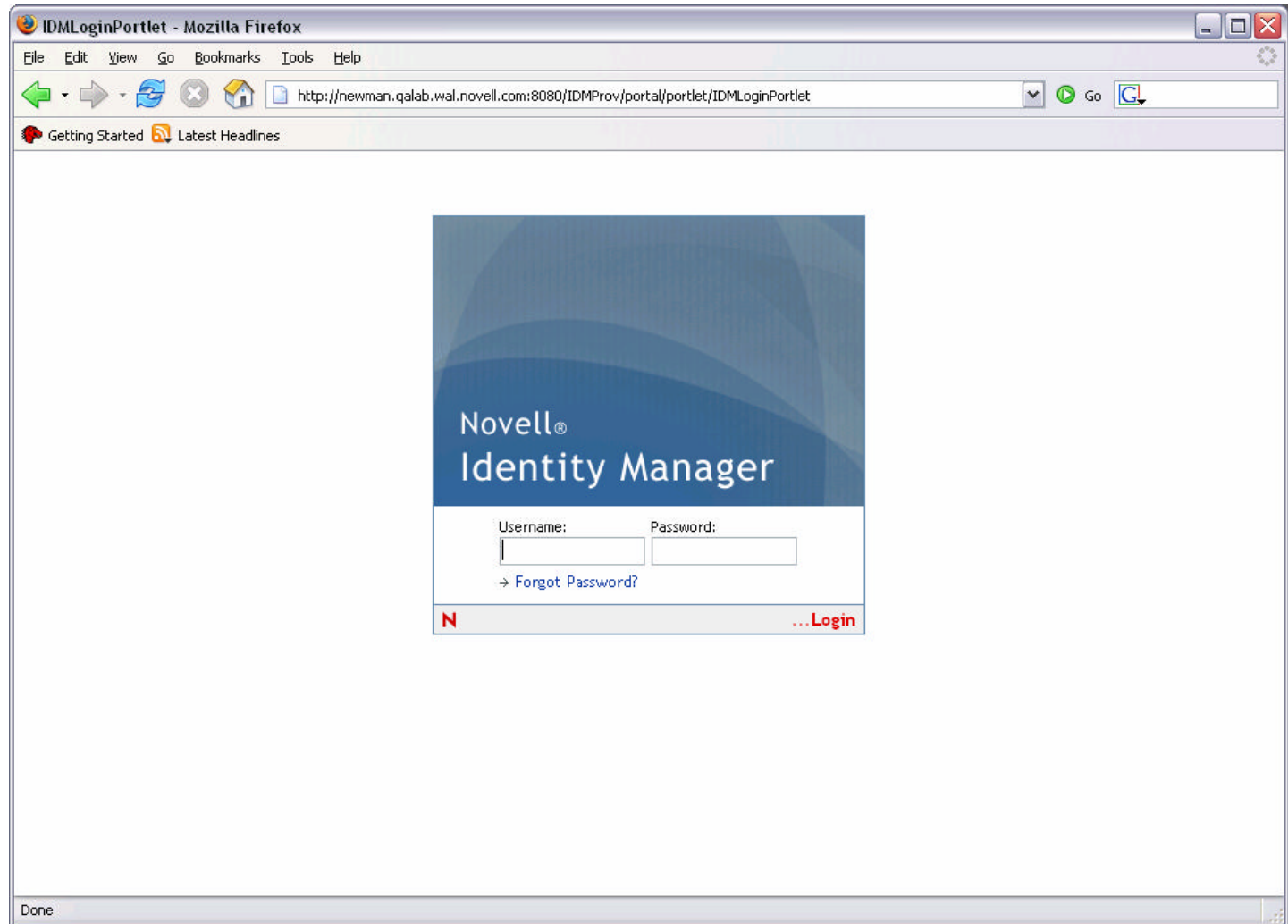


IDM 3.0 für den Endanwender

- Workflow basierte Provisionierung
- Self-service Ressourcen Anforderung
- Delegation von Berechtigungsszenarien
- Email Benachrichtigung
- Workflow im Portal
- Stellvertreter Möglichkeit
- Delegierte Administration an andere



Beispiel IDM 3.0 Anmeldung



Beispiel IDM 3.0 Org Chart

The screenshot shows the Novell Identity Manager 3.0 web interface. The browser window is titled "Organization Chart - Mozilla Firefox" and the address bar shows the URL: [http://newman.qelb.wal.novell.com:9080/IDMProv/portal/cn\(DefaultContainerPage\)/MyOrgChart](http://newman.qelb.wal.novell.com:9080/IDMProv/portal/cn(DefaultContainerPage)/MyOrgChart). The page features a navigation menu on the left with options like "Information Management", "Organization Chart", "My Profile", "Directory Search", "Password Management", "Password Challenge Response", "Password Hint Definition", "Change Password", "Directory Management", and "Create User". The main content area displays the "Org Chart" with a "Lookup" search bar. The chart shows three user profiles: "Admin idmsample" (with a red prohibition sign over the photo), "Chip Nano" (Chief Information Officer), and "Terry Mellon" (VP, Information Systems). Each profile includes a photo, name, title, and a set of icons for various functions. The status bar at the bottom of the browser window shows "Done".




Beispiel IDM 3.0 User Suche

http://newman.qalab.wal.novell.com:8080 - DetailPortlet - Mozilla Firefox

Detail




Chip Nano



[Edit User](#)

[Send Identity Info](#)

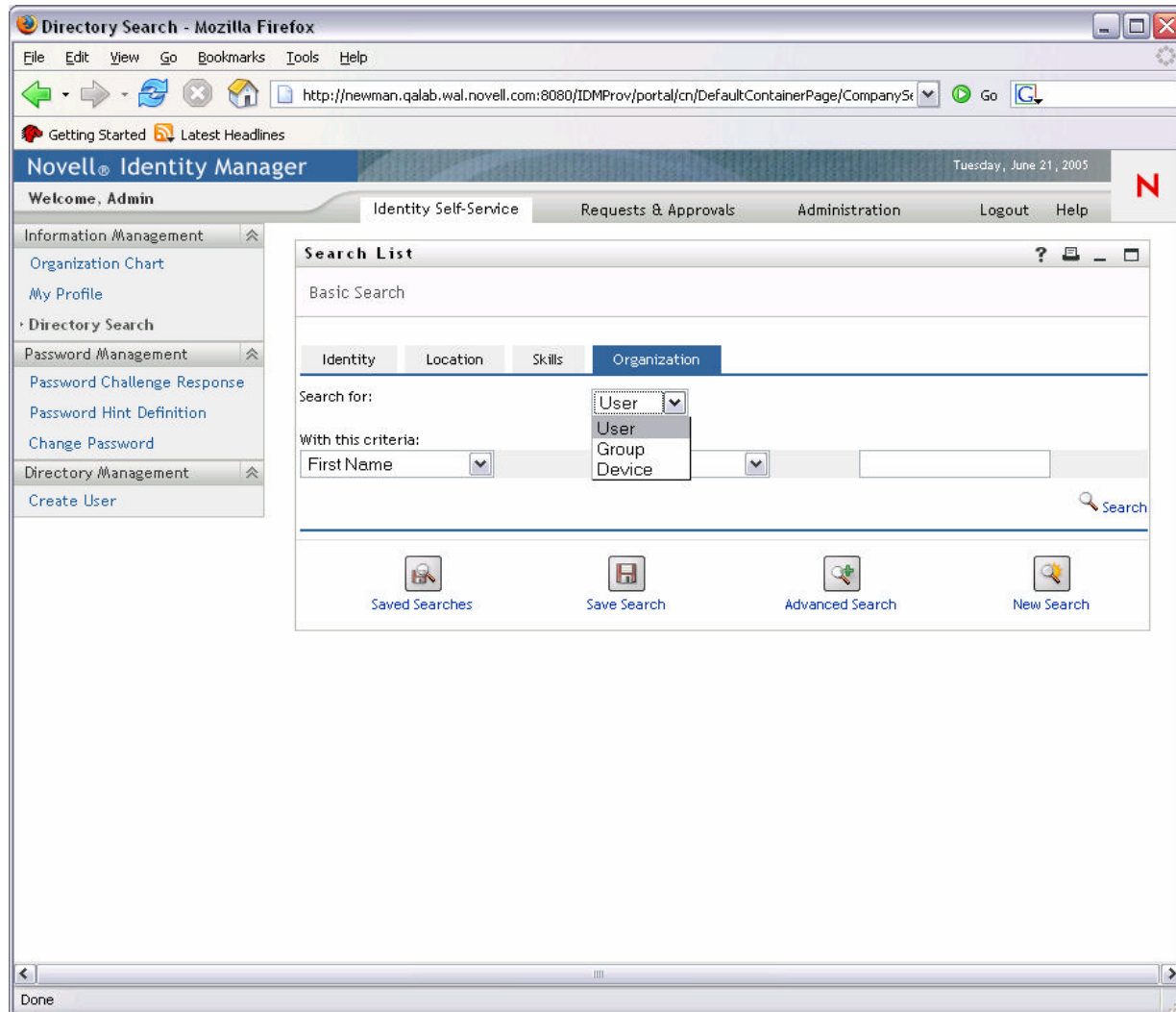
[Display Organization Chart](#)

| | |
|--------------------------|--|
| First Name: | Chip |
| Last Name: | Nano |
| Email: | test@novell.com |
| Region: | Northeast, U.S. |
| Telephone Number: | (555) 555-1222 |
| Department: | Management |
| Manager: | Jack Miller |
| Cost Center: | US1122 |
| Groupwise IM: |  |
| Yahoo IM: |  |
| AOL IM: |  |
| Certification/Education: | MS - Massachusetts Institute of Technology, CNA - Certified Novell Administrator, CNE - Certified Novell Engineer, CLE - Certified Linux Engineer, PMP - Project Management Professional, HPCP - HP Certified Professional |
| Product Skills: | Novell exteNd, Novell IDM, Novell Groupwise, Novell SUSE, Novell eDirectory, Novell Ximian, Novell iChain, Novell BorderManager, Novell Netware |
| Assigned Devices: | Latitude D800 , HP Color LaserJet 3700 , Samsung i700 Pocket PC , Motorola V710 , IBM ThinkCentre S9028 |

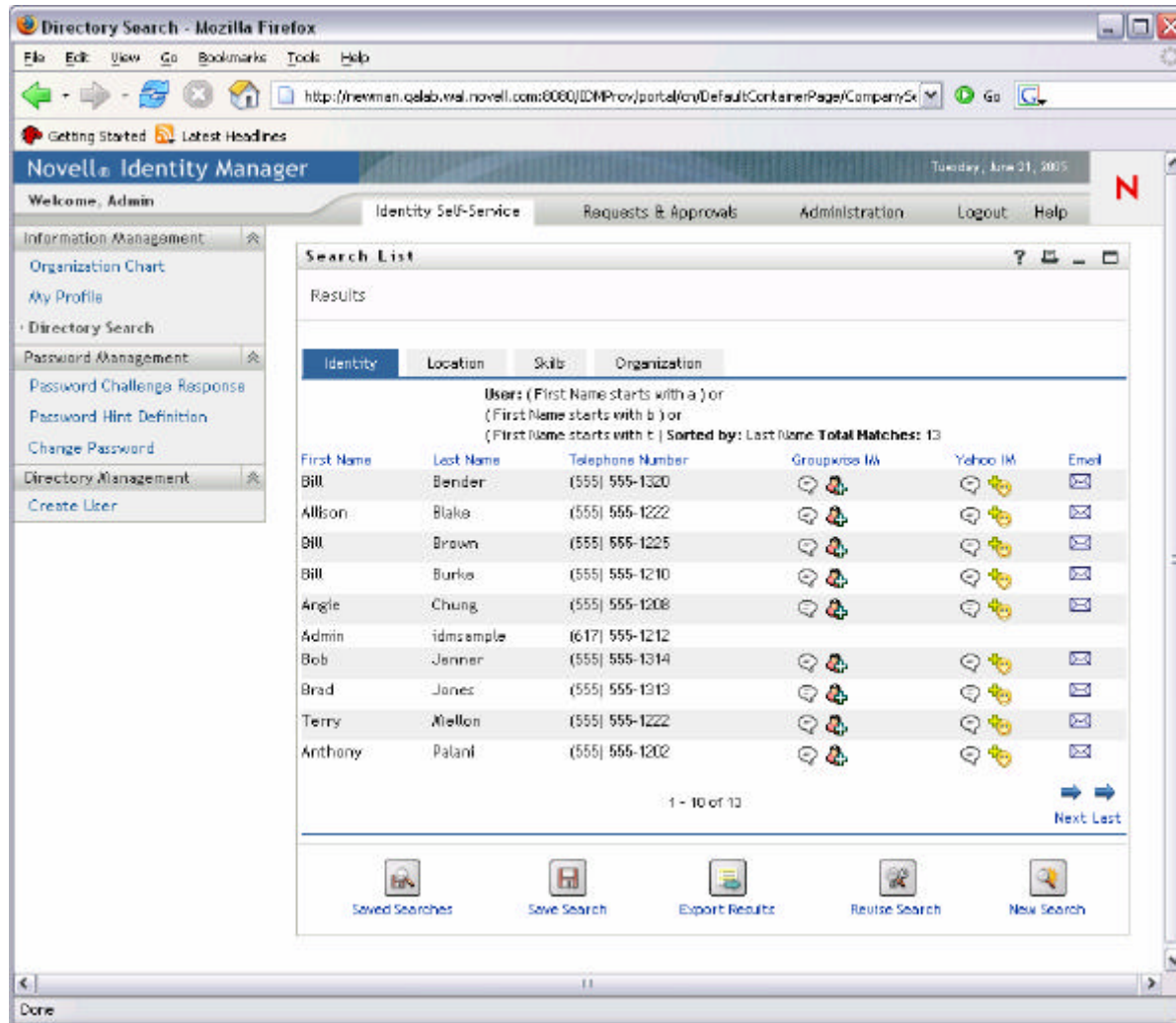
Done



Beispiel IDM 3.0 User Suche



Beispiel IDM 3.0 User Suche



Directory Search - Mozilla Firefox

http://newman.qelab.novell.com:8080/IDMProv/portal/ctx/DefaultContainerPage/CompanySe

Novell Identity Manager

Welcome, Admin

Identity Self-Service | Requests & Approvals | Administration | Logout | Help

Information Management

- Organization Chart
- My Profile
- Directory Search
- Password Management
- Password Challenge Response
- Password Hint Definition
- Change Password
- Directory Management
- Create User

Search List

Results

Identity | Location | Skills | Organization

Users (First Name starts with a) or
(First Name starts with b) or
(First Name starts with t | Sorted by: Last Name. Total Matches: 13

| First Name | Last Name | Telephone Number | Groupwise IM | Yahoo IM | Email |
|------------|------------|------------------|--------------|----------|-------|
| Bill | Bender | (555) 555-1320 | | | |
| Allison | Blake | (555) 555-1222 | | | |
| Bill | Brown | (555) 555-1225 | | | |
| Bill | Burke | (555) 555-1210 | | | |
| Angie | Chung | (555) 555-1208 | | | |
| Admin | idmexample | (617) 555-1212 | | | |
| Bob | Jenner | (555) 555-1314 | | | |
| Brad | Jones | (555) 555-1313 | | | |
| Terry | Kiellon | (555) 555-1222 | | | |
| Anthony | Palani | (555) 555-1202 | | | |

1 - 10 of 13

Next Last

Save Search | Save Search | Export Results | Reuse Search | New Search

Beispiel IDM 3.0 Admin “light”

Create User - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://newman.qalab.wel.novell.com:8080/IDMProv/portal/on/DefaultContainerPage/CreateUser

Getting Started Latest Headlines

Novell Identity Manager Tuesday, June 21, 2005

Welcome, Admin Identity Self-Service Requests & Approvals Administration Logout Help

Information Management

- Organization Chart
- My Profile
- Directory Search

Password Management

- Password Challenge Response
- Password Hint Definition
- Change Password

Directory Management

- Create User

Create

Set attributes for this User
* - indicates required.

Base Parameters

Entity ID: *

Container: *

Entity Attributes

Hidden?

First Name: *

Last Name: *

Email:

Manager:

Employee Status: *

(none selected)

Inactive

Active

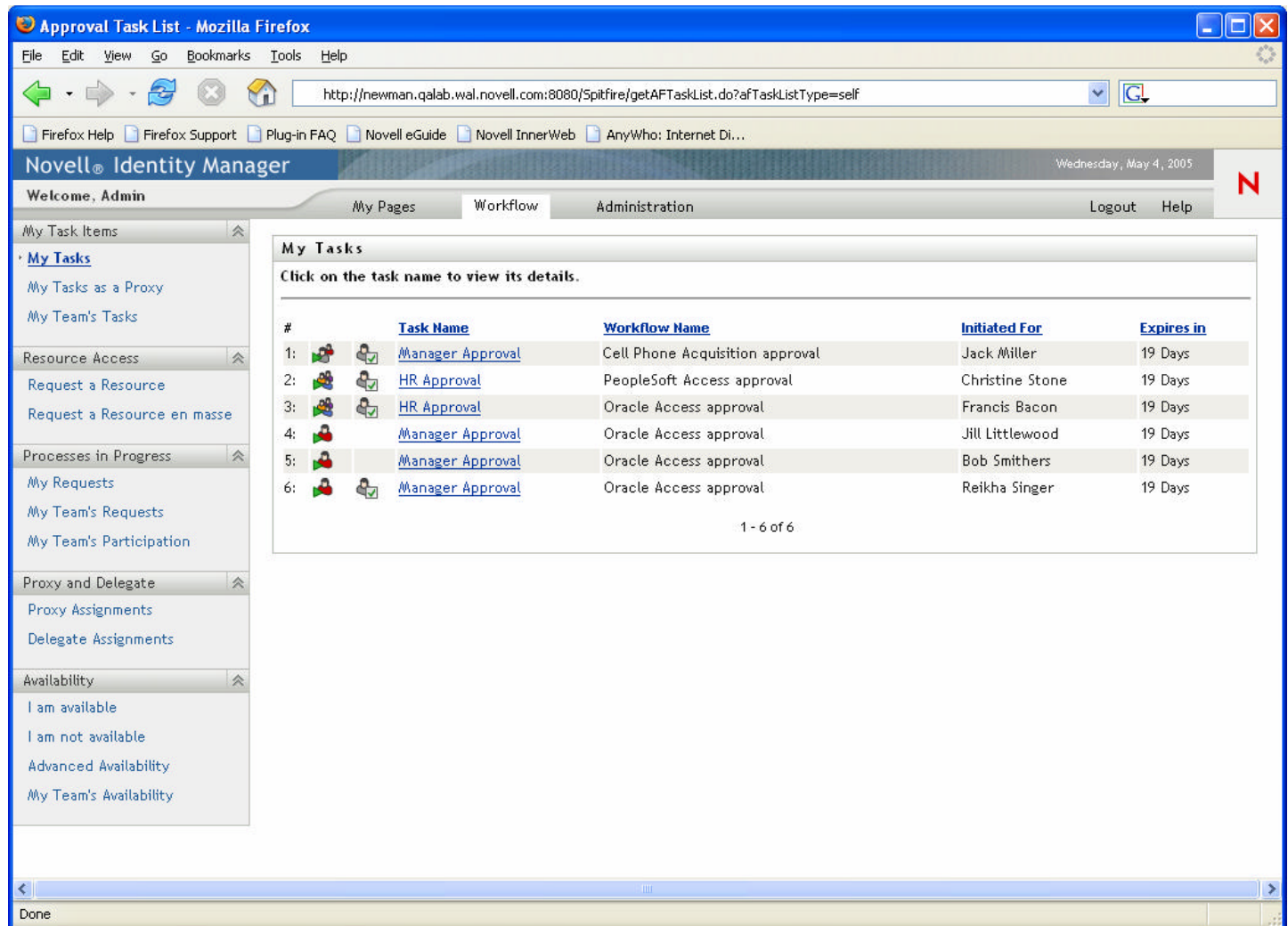
Retired

(none selected)

Back

Continue

Beispiel IDM 3.0 User Workflow Aufgaben



Approval Task List - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://newman.qalab.wal.novell.com:8080/Spitfire/getAFTaskList.do?afTaskListType=self

Firefox Help Firefox Support Plug-in FAQ Novell eGuide Novell InnerWeb AnyWho: Internet Di...

Novell® Identity Manager Wednesday, May 4, 2005

Welcome, Admin My Pages Workflow Administration Logout Help

My Task Items

- My Tasks
 - My Tasks as a Proxy
 - My Team's Tasks
- Resource Access
 - Request a Resource
 - Request a Resource en masse
- Processes in Progress
 - My Requests
 - My Team's Requests
 - My Team's Participation
- Proxy and Delegate
 - Proxy Assignments
 - Delegate Assignments
- Availability
 - I am available
 - I am not available
 - Advanced Availability
 - My Team's Availability

My Tasks

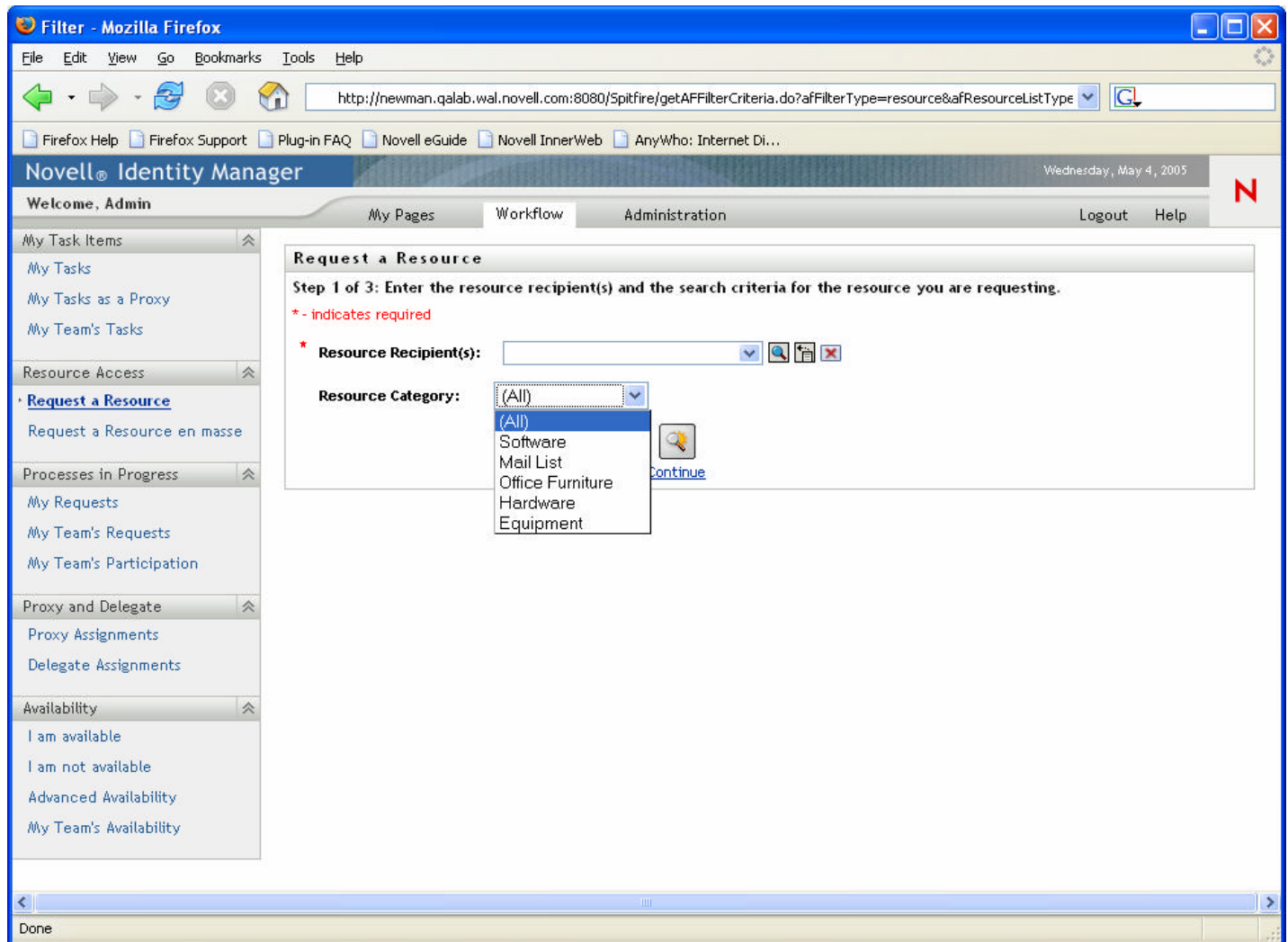
Click on the task name to view its details.

| # | Task Name | Workflow Name | Initiated For | Expires in |
|----|----------------------------------|---------------------------------|-----------------|------------|
| 1: | Manager Approval | Cell Phone Acquisition approval | Jack Miller | 19 Days |
| 2: | HR Approval | PeopleSoft Access approval | Christine Stone | 19 Days |
| 3: | HR Approval | Oracle Access approval | Francis Bacon | 19 Days |
| 4: | Manager Approval | Oracle Access approval | Jill Littlewood | 19 Days |
| 5: | Manager Approval | Oracle Access approval | Bob Smithers | 19 Days |
| 6: | Manager Approval | Oracle Access approval | Reikha Singer | 19 Days |

1 - 6 of 6

Done

Beispiel IDM 3.0 User Anfrage



The screenshot shows the Novell Identity Manager 3.0 User Request interface in a Mozilla Firefox browser window. The browser title is "Filter - Mozilla Firefox". The address bar shows the URL: `http://newman.qalab.wal.novell.com:8080/Spitfire/getAffilterCriteria.do?afFilterType=resource&afResourceListType`. The browser's toolbar includes buttons for back, forward, home, and search, along with a search bar. The browser's status bar at the bottom shows "Done".

The Novell Identity Manager interface is displayed. The top navigation bar includes "Welcome, Admin", "My Pages", "Workflow", "Administration", "Logout", and "Help". The left sidebar contains a tree view with the following categories and items:

- My Task Items
 - My Tasks
 - My Tasks as a Proxy
 - My Team's Tasks
- Resource Access
 - Request a Resource**
 - Request a Resource en masse
- Processes in Progress
 - My Requests
 - My Team's Requests
 - My Team's Participation
- Proxy and Delegate
 - Proxy Assignments
 - Delegate Assignments
- Availability
 - I am available
 - I am not available
 - Advanced Availability
 - My Team's Availability

The main content area is titled "Request a Resource" and displays "Step 1 of 3: Enter the resource recipient(s) and the search criteria for the resource you are requesting." Below this, there is a form with the following fields:

- * Resource Recipient(s):** A text input field with a dropdown arrow, a search icon, and a delete icon.
- Resource Category:** A dropdown menu with the following options: (All), (All), Software, Mail List, Office Furniture, Hardware, and Equipment.

A "Continue" link is visible below the Resource Category dropdown.

Beispiel IDM 3.0 User status check

Process Instance List - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://newman.qalab.wal.novell.com:8080/Spitfire/getAFProcessList.do?afProcessListType=initiator

Firefox Help Firefox Support Plug-in FAQ Novell eGuide Novell InnerWeb AnyWho: Internet Di...

Novell® Identity Manager Wednesday, May 4, 2005

Welcome, Admin My Pages Workflow Administration Logout Help

My Task Items

- My Tasks
- My Tasks as a Proxy
- My Team's Tasks

Resource Access

- Request a Resource
- Request a Resource en masse

Processes in Progress

My Requests

- My Team's Requests
- My Team's Participation

Proxy and Delegate

- Proxy Assignments
- Delegate Assignments

Availability


- I am available
- I am not available
- Advanced Availability
- My Team's Availability

My Requests

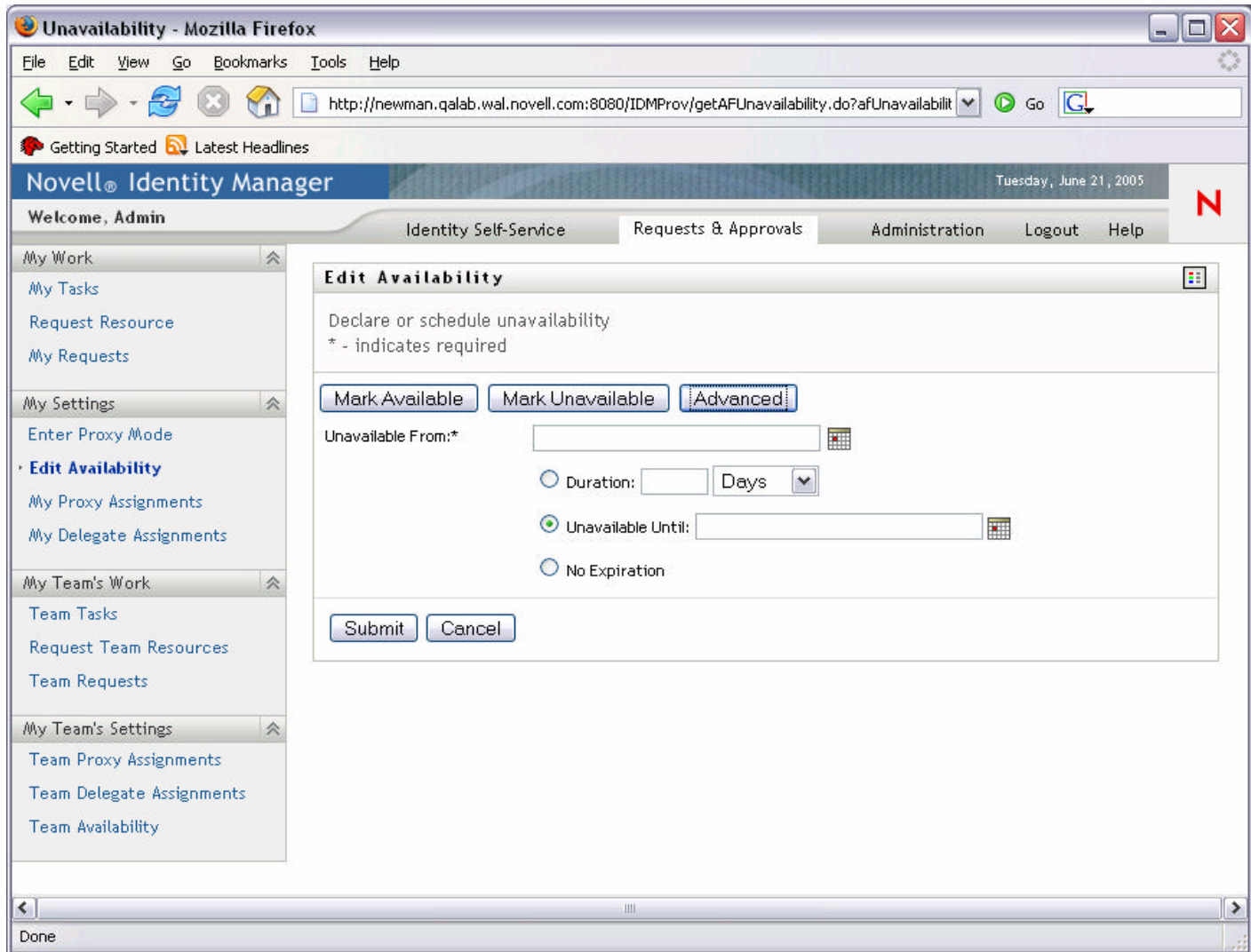
Click on the workflow name to view its details.

| # | Workflow Name | Initiated By | Initiated For | Status |
|-----------------------------|--|--------------|---------------|---------------------|
| <input type="checkbox"/> 1: | Chair Acquisition approval | Bob Smithers | Arnold Scar | Pending Approval |
| 2: | Cell Phone Acquisition approval | Arnold Scar | Bob Smithers | Pending Fulfillment |
| <input type="checkbox"/> 3: | First Aid Kit Acquisition approval | Arnold Scar | System | Pending Approval |

1 - 3 of 3

 [Retract checked items](#)

Beispiel IDM 3.0 User Verfügbarkeit



The screenshot shows a Mozilla Firefox browser window titled "Unavailability - Mozilla Firefox". The address bar displays the URL: `http://newman.qalab.wal.novell.com:8080/IDMProv/getAFUnavailability.do?afUnavailabilit`. The page header includes the Novell logo, the text "Novell Identity Manager", and the date "Tuesday, June 21, 2005". A navigation bar contains links: "Welcome, Admin", "Identity Self-Service", "Requests & Approvals", "Administration", "Logout", and "Help".

The left sidebar contains a tree view with the following categories and links:

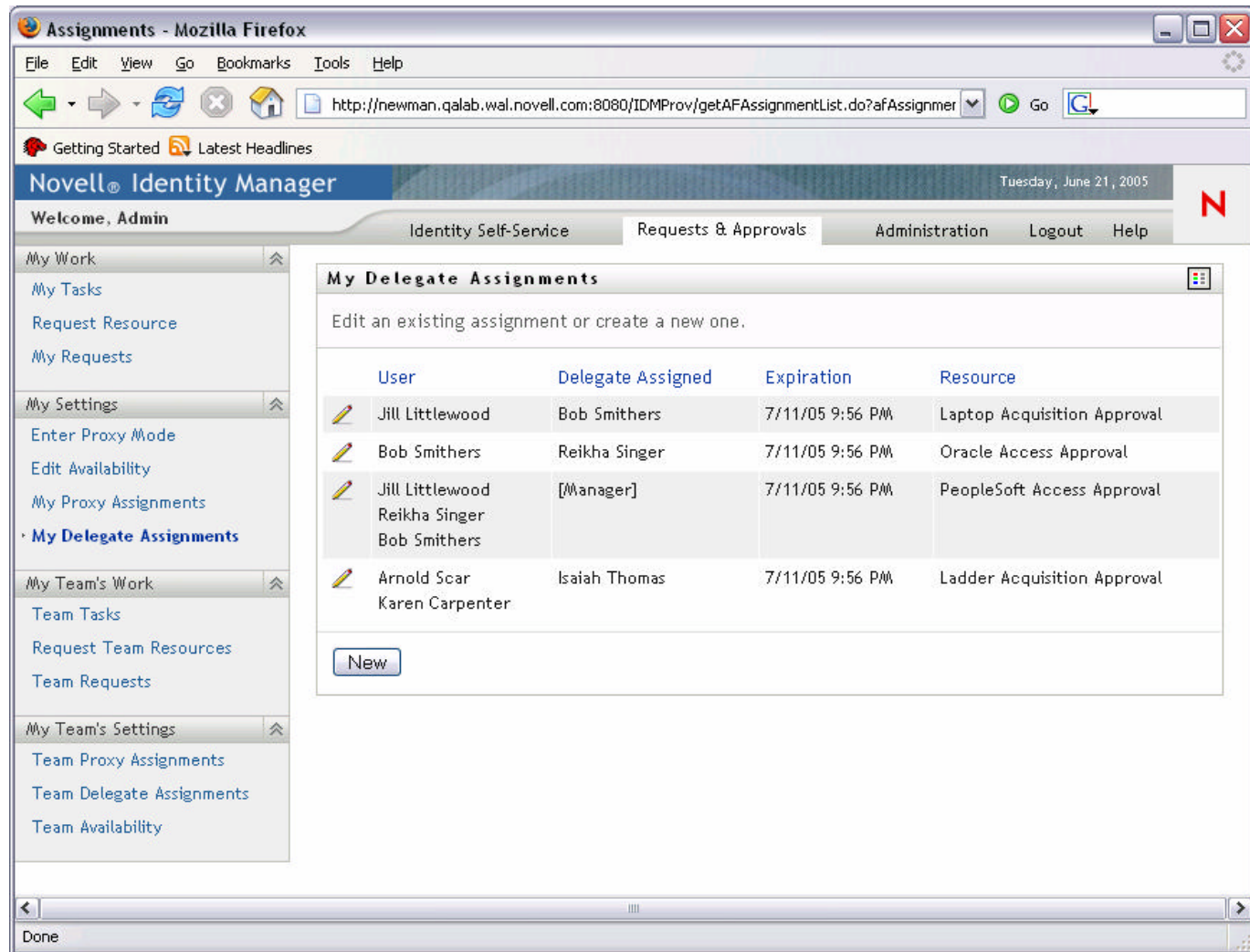
- My Work
 - My Tasks
 - Request Resource
 - My Requests
- My Settings
 - Enter Proxy Mode
 - Edit Availability**
 - My Proxy Assignments
 - My Delegate Assignments
- My Team's Work
 - Team Tasks
 - Request Team Resources
 - Team Requests
- My Team's Settings
 - Team Proxy Assignments
 - Team Delegate Assignments
 - Team Availability

The main content area is titled "Edit Availability" and contains the following text: "Declare or schedule unavailability" and "* - indicates required". Below this are three buttons: "Mark Available", "Mark Unavailable", and "Advanced" (which is selected). The "Advanced" section includes the following options:

- Unavailable From: * [text input] [calendar icon]
- ☐ Duration: [text input] Days [dropdown menu]
- ☒ Unavailable Until: [text input] [calendar icon]
- ☐ No Expiration

At the bottom of the form are "Submit" and "Cancel" buttons. The status bar at the bottom of the browser window shows "Done".

Beispiel IDM 3.0 User Delegation



Assignments - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://newman.qalab.wal.novell.com:8080/IDMProv/getAFAssignmentList.do?afAssignmer

Getting Started Latest Headlines

Novell® Identity Manager Tuesday, June 21, 2005

Welcome, Admin Identity Self-Service Requests & Approvals Administration Logout Help

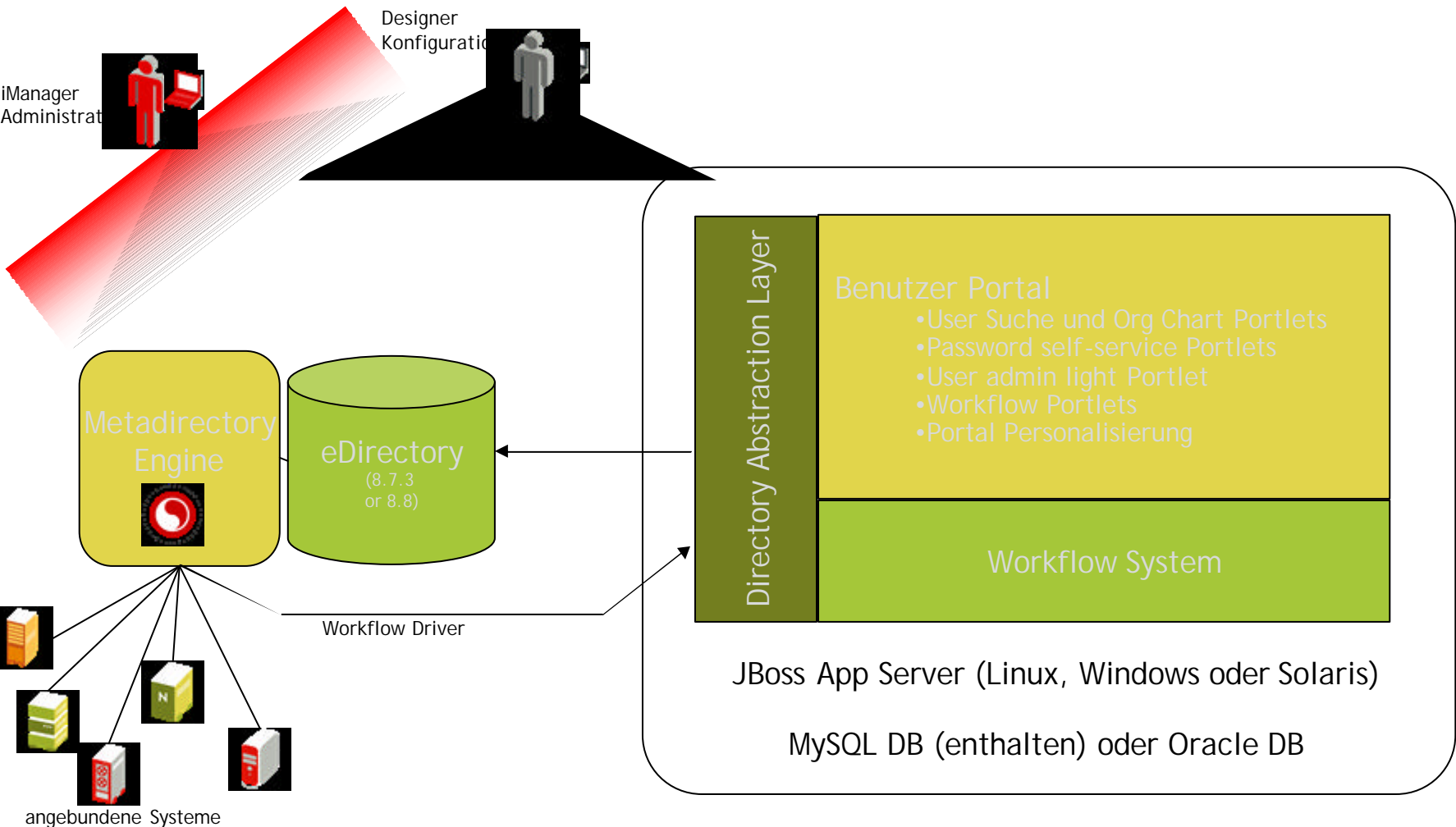
My Delegate Assignments

Edit an existing assignment or create a new one.

| User | Delegate Assigned | Expiration | Resource |
|--|-------------------|-----------------|-----------------------------|
| Jill Littlewood | Bob Smithers | 7/11/05 9:56 PM | Laptop Acquisition Approval |
| Bob Smithers | Reikha Singer | 7/11/05 9:56 PM | Oracle Access Approval |
| Jill Littlewood Reikha Singer Bob Smithers | [Manager] | 7/11/05 9:56 PM | PeopleSoft Access Approval |
| Arnold Scar Karen Carpenter | Isaiah Thomas | 7/11/05 9:56 PM | Ladder Acquisition Approval |

Done

IDM 3.0 System Komponenten



IDM 3.0 Vorteile

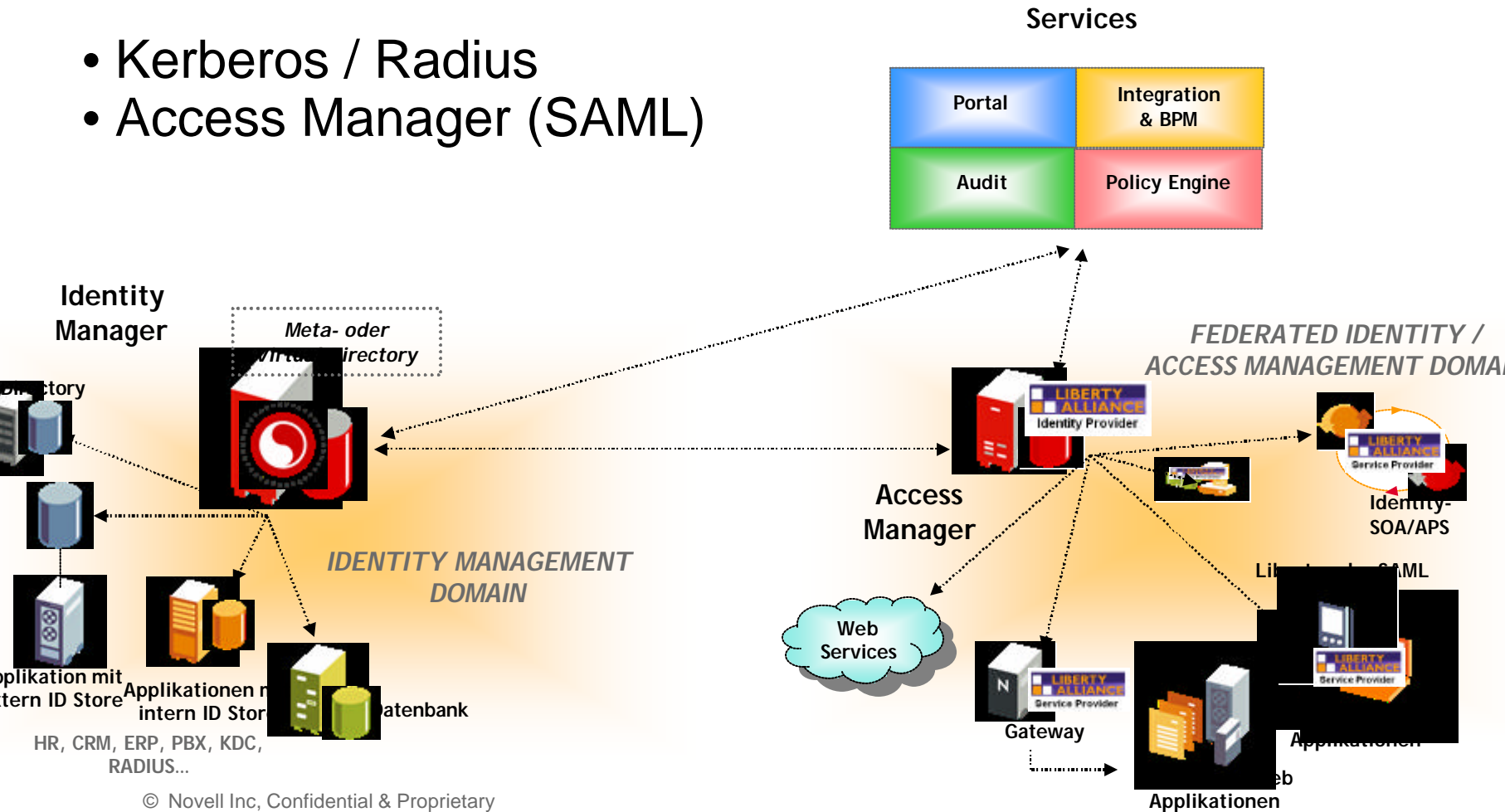
- Workflow
- Entwicklungszeiten sind geringer und die Komplexität ist überschaubar
- Dokumentation auf Knopfdruck
- Integration der Anwender durch das Portal
- Erweiterte self-service Möglichkeiten
- Erweiterte Suchfunktionen



Identity & Access Management Vision:

Sonstige Themen:

- Kerberos / Radius
- Access Manager (SAML)



Fragen ?

Novell®

Unpublished Work of Novell, Inc. All Rights Reserved.

This work is an unpublished work and contains confidential, proprietary, and trade secret information of Novell, Inc. Access to this work is restricted to Novell employees who have a need to know to perform tasks within the scope of their assignments. No part of this work may be practiced, performed, copied, distributed, revised, modified, translated, abridged, condensed, expanded, collected, or adapted without the prior written consent of Novell, Inc. Any use or exploitation of this work without authorization could subject the perpetrator to criminal and civil liability.

General Disclaimer

This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. Novell, Inc., makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc., reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All Novell marks referenced in this presentation are trademarks or registered trademarks of Novell, Inc. in the United States and other countries. All third-party trademarks are the property of their respective owners.

