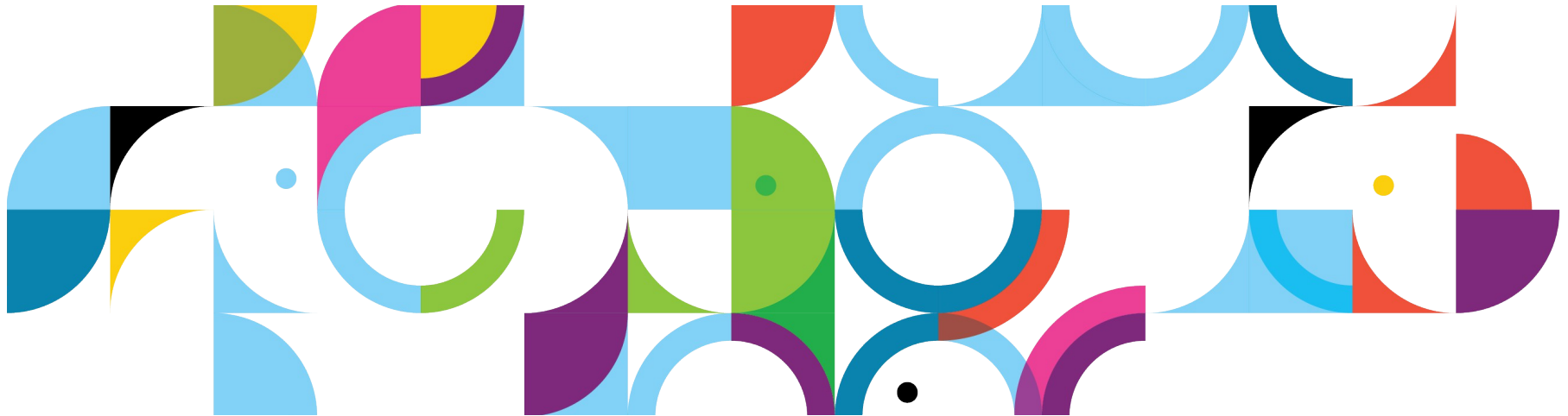


# IBM Forms Experience Builder



Bernd Beilke

Digital Experience Solutions Architect



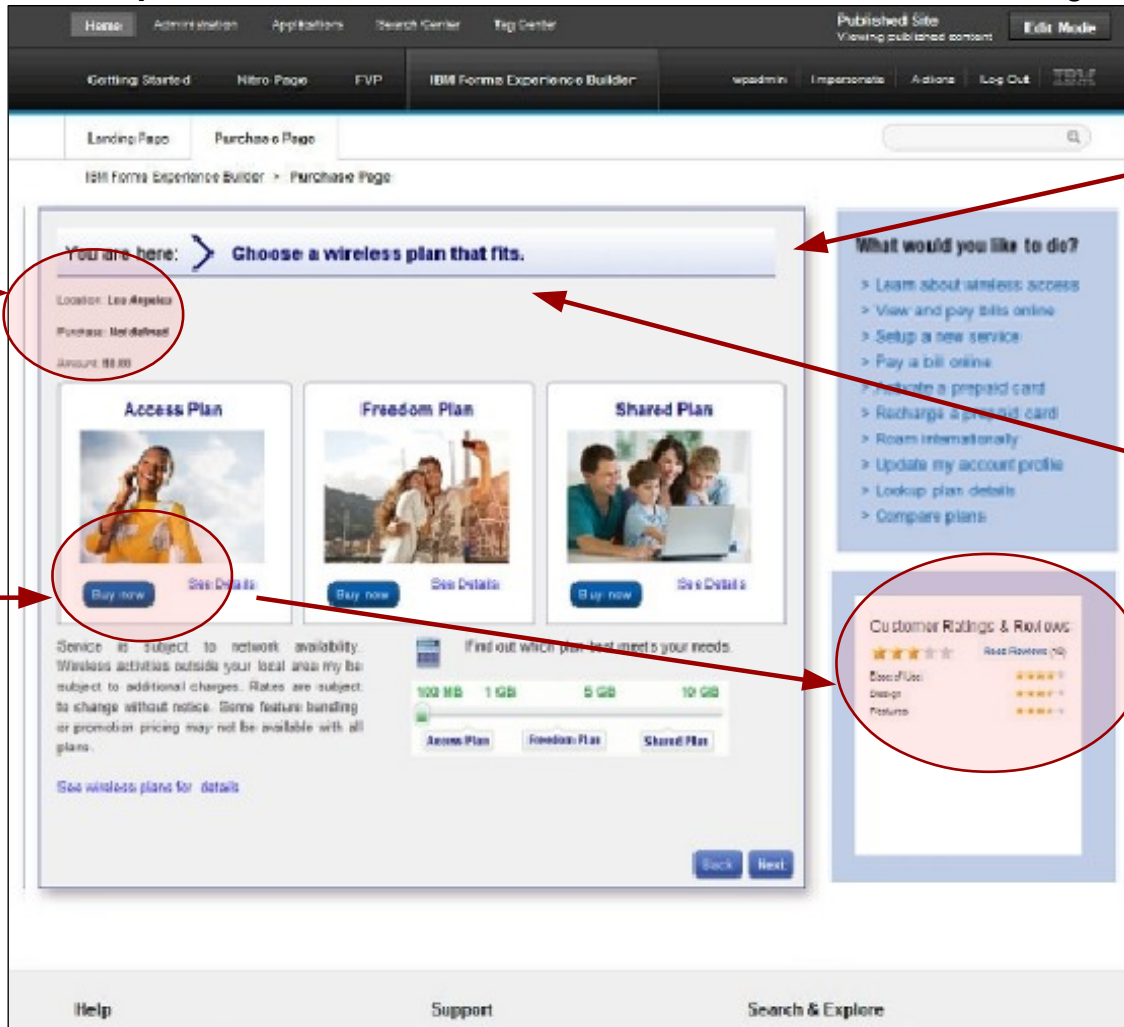
## Agenda

- **Einführung**
- IBM Forms 8.5
- IBM Forms Experience Builder
- Zusammenfassung und Demonstration

# Einführung

# Formulare sind Teile des gesamten Web-Auftritts

Beispiel Website zur Auswahl eines individuellen Mobilfunkvertrages



The screenshot displays the IBM Forms Experience Builder interface for selecting a wireless plan. The main content area features three plan options: Access Plan, Freedom Plan, and Shared Plan. Each plan has a 'Buy now' button and a 'See Details' link. The sidebar on the right contains a list of actions under the heading 'What would you like to do?' and a section for 'Customer Ratings & Reviews'.

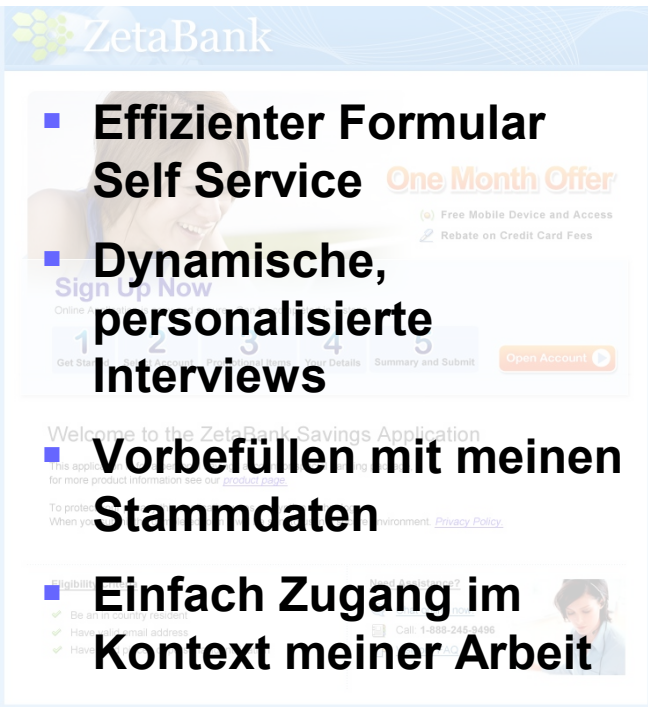
Annotations with red arrows point to specific elements:

- Portal Profile ermöglichen die Personalisierung des Formulars** (Portal Profile enable the personalization of the form) points to the breadcrumb trail: 'You are here: > Choose a wireless plan that fits.'
- Die Auswahl im Formular steuert den Inhalt an anderen Stellen im Portal** (The selection in the form controls the content in other parts of the portal) points to the 'Buy now' button under the Access Plan.
- Das Formulare übernimmt das Look and Feel des Portals** (The form takes over the look and feel of the portal) points to the 'What would you like to do?' sidebar.
- Dynamisches Nutzererlebnis auf Basis der getroffenen Entscheidungen im Formular** (Dynamic user experience based on the decisions made in the form) points to the 'Customer Ratings & Reviews' section.

# Wie einfach ist es für Ihre Kunden?



- Das richtige Formular finden
- Nach dem auslassen eines Feld wird man gezwungen neu zu starten
- Download, Ausfüllen, Drucken und Faxen
- Frankieren von Post
- Mehrfacheingabe von Daten
- Den Status meines Formulars nicht einsehen können



**ZetaBank**

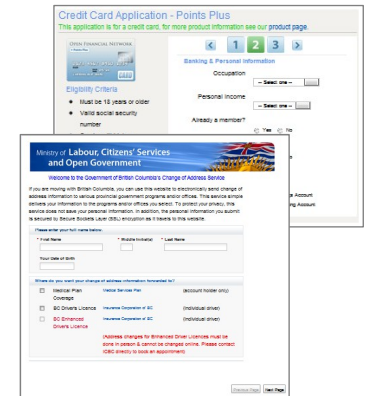
- **Effizienter Formular Self Service** **One Month Offer**  
(a) Free Mobile Device and Access  
Rebate on Credit Card Fees
- **Dynamische, personalisierte Interviews**
- **Vorbefüllen mit meinen Stammdaten**
- **Einfach Zugang im Kontext meiner Arbeit**
- **Ansprechendes Design**
- **Mobile**

# Verschiedene Typen von Formularanwendungen

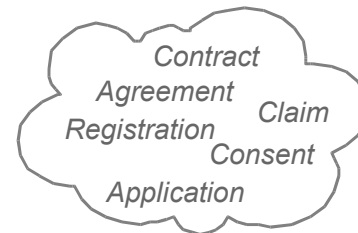
Geht es nur um Daten?



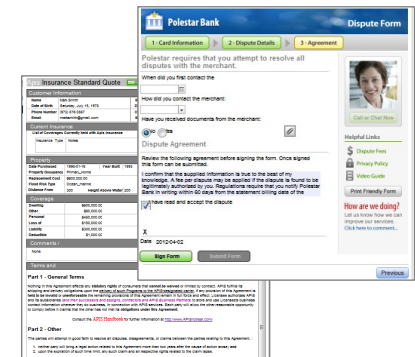
**Agiler Web Auftritt  
für Daten-zentrische  
Anwendungen**



Sind das Dokument  
und Daten wichtig?



**Elektronische Forms  
für Dokumenten-  
zentrische  
Anwendungen**



## Formulare

Eine  
dynamischer  
Webauftritt zur  
Sammlung von  
Daten und  
Interaktion mit  
einem Prozess

# IBM Forms 8.5

## Erweiterte Möglichkeiten mit IBM Forms

IBM Forms besitzt erweiterte Möglichkeiten um alle Formularanwendungen zu adressieren

### Daten-zentrische Lösungen



#### Forms Experience Builder

- ✓ Ansprechendes Nutzererlebnis
- ✓ Web-basiertes Werkzeug
- ✓ Speicherung der Datensätze
- ✓ Hoher Datendurchsatz

### *Vollständige Lösung*



### IBM Forms 8.0

### Dokumenten-zentrische Lösungen



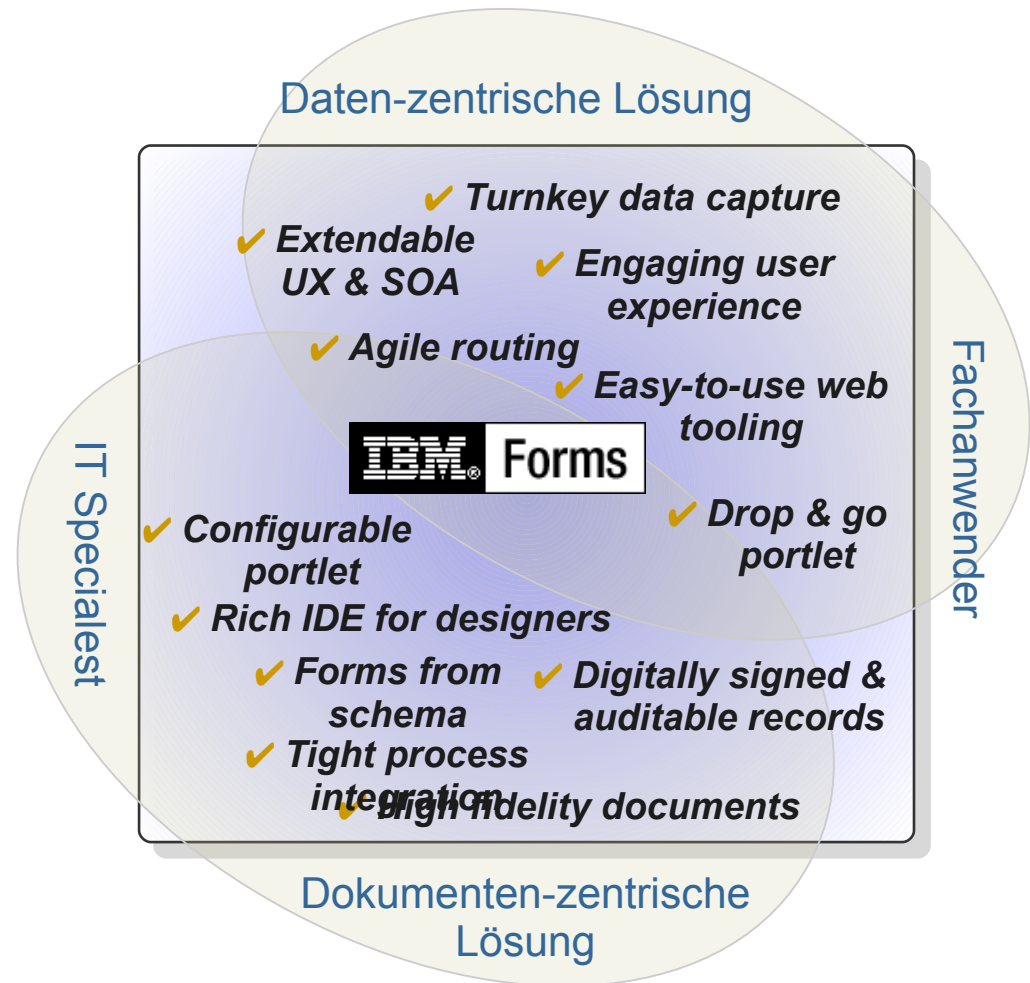
#### Server, Viewer & Designer

- ✓ "Wie Paper" Formulare für das Web
- ✓ Intelligente Documents
- ✓ End-to-end XML Lösung
- ✓ Digital signierte Datensätze

## Komplette Web-basierte Lösung

### IBM Forms 8.5 unterstützt das volle Spektrum an Anforderungen

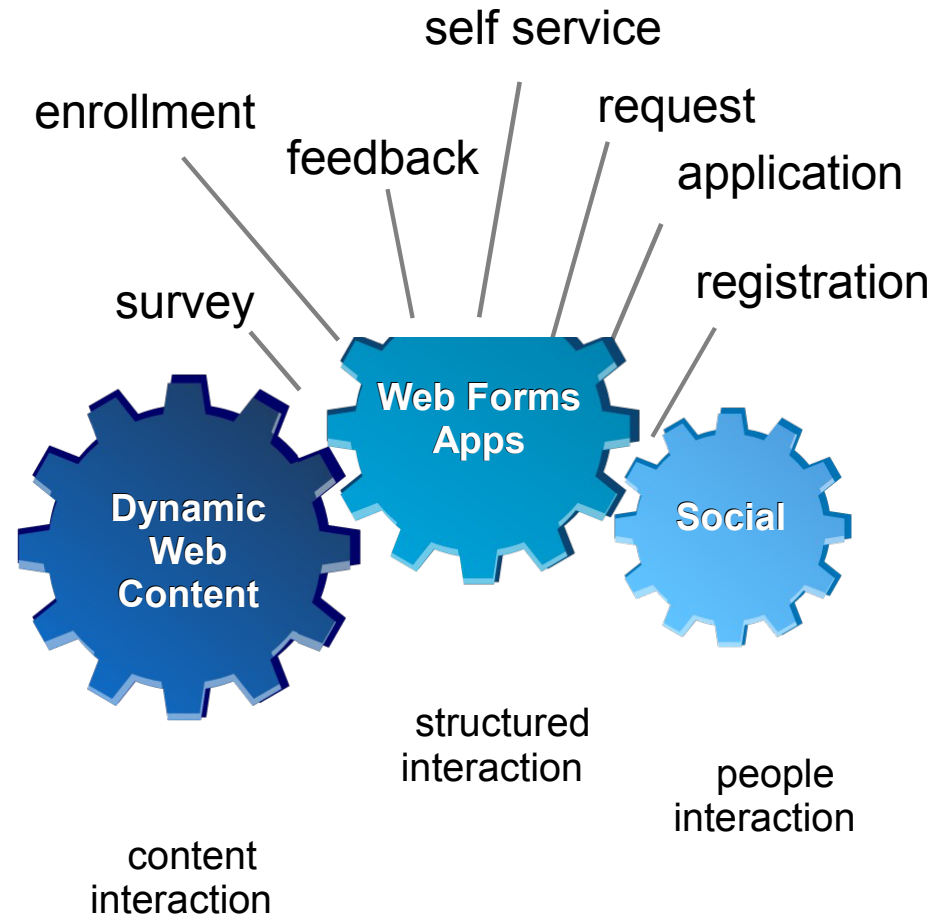
- Umfassende Produktfunktionen für Web-Anwendungen.
- Ermöglicht sowohl neuen als auch erfahrenen Anwendern anspruchsvolle Formulare schnell zu erstellen.
- Komplette Lösung zur Zusammenarbeit mit internen & externen Anwendern, Datensammlungen und End-to-End Prozess-automatisierung.



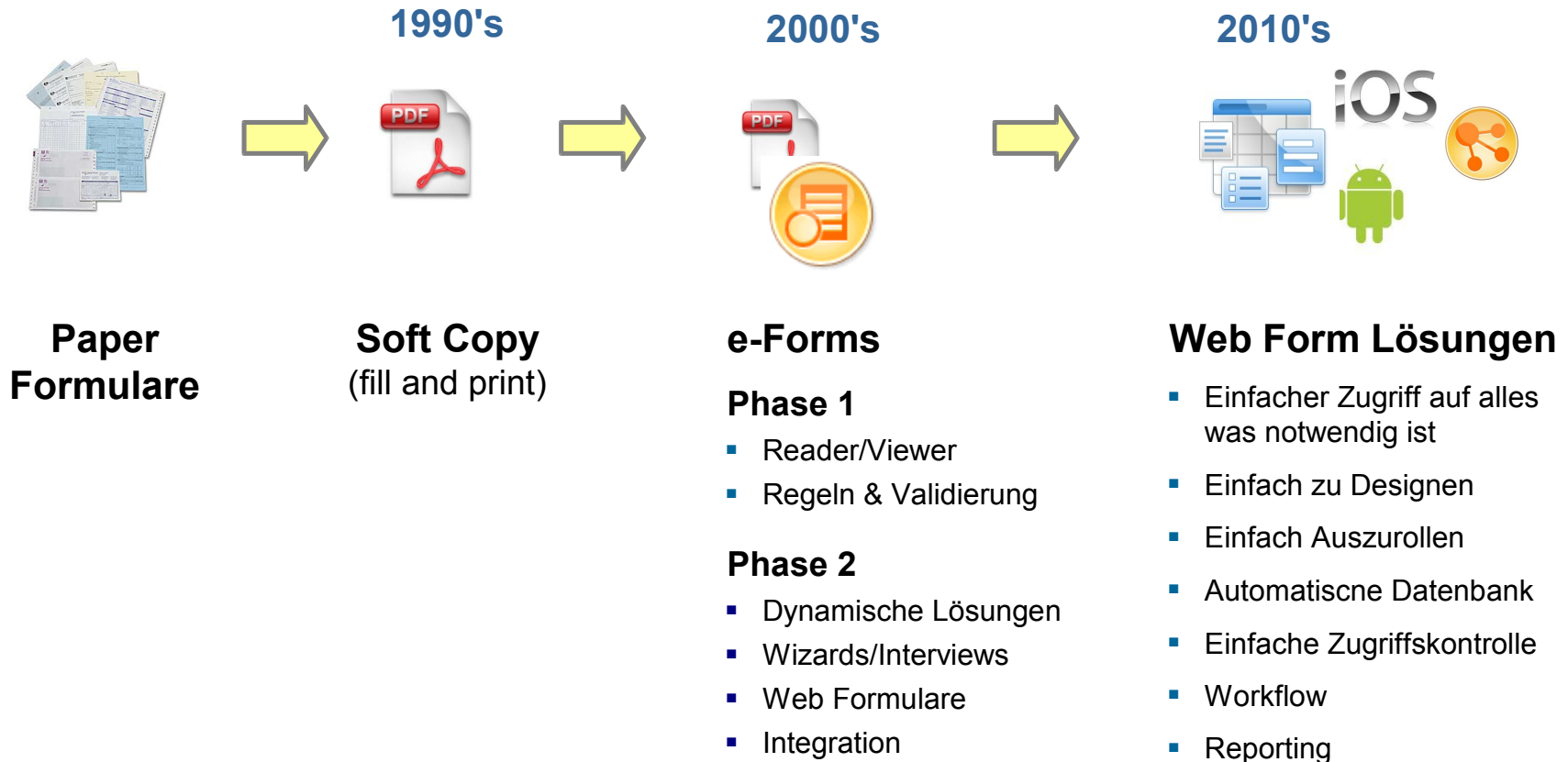
# Web Formulare sind ein wichtiges Interaktionsmuster

**Web Formulare** sind  
eines der definierten  
Interaktionsmuster ...

... neben  
dynamischen **Web**  
**Inhalten** und **Social**



# Forms Technologie hat sich entwickelt...

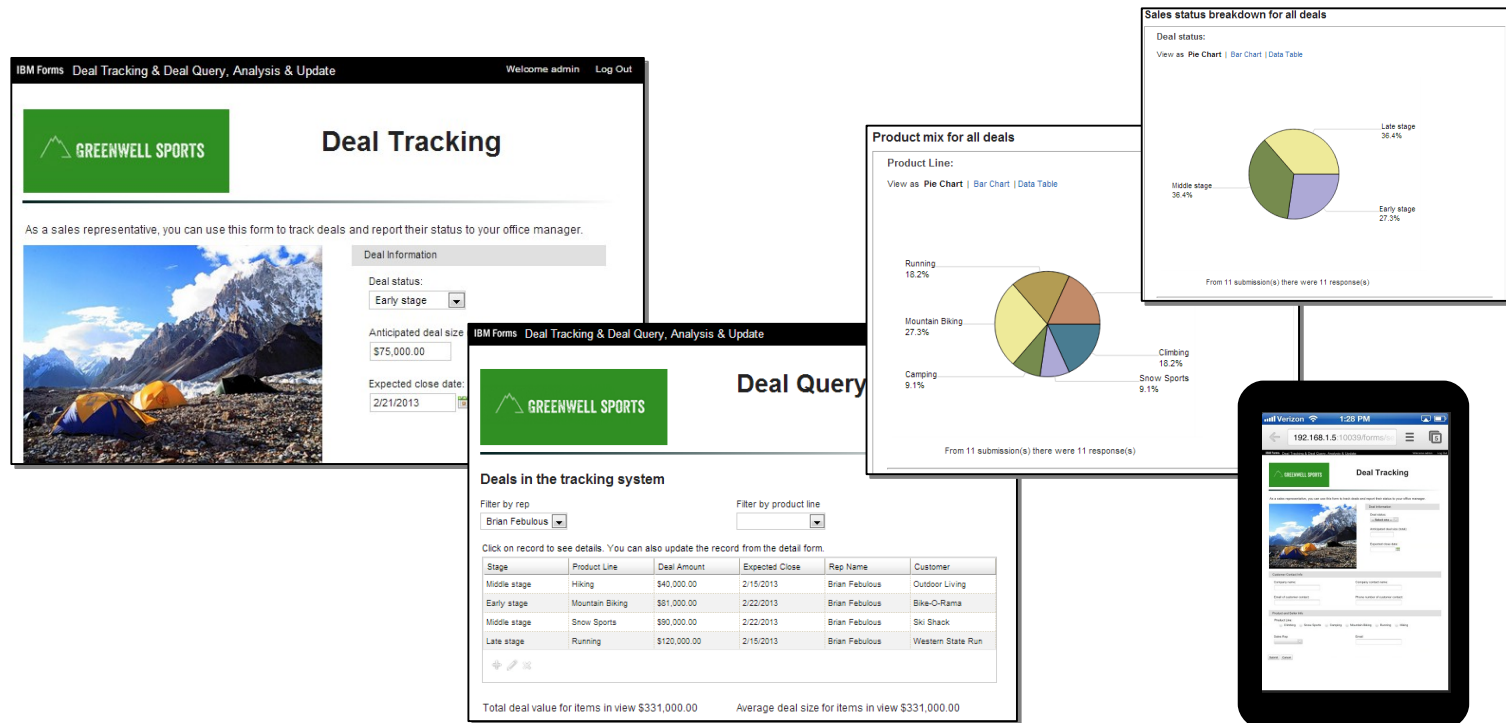


# IBM Forms Experience Builder

# IBM Forms Experience Builder

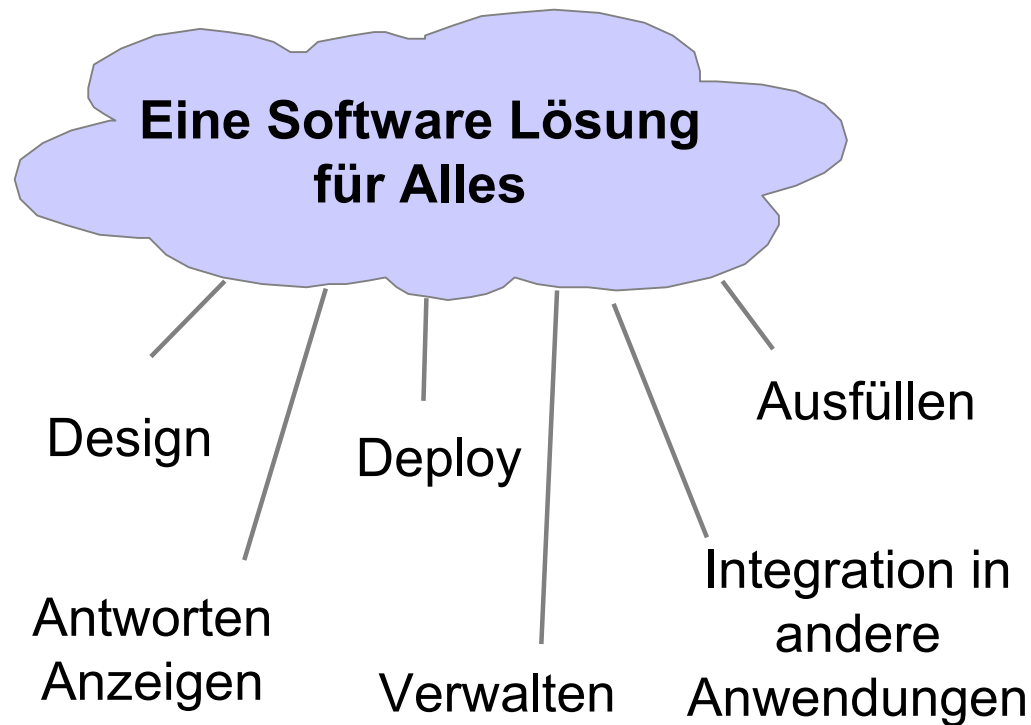
Nicht-technische Benutzern können anspruchsvolle Formularanwendungen erstellen

- Erstellen von kompletten Lösungen inkl. Datenbank, Reports, Diagrammen, Workflow, Benachrichtigungen, Zugriffskontrolle und mehr
- Einfache Integration mit existierenden System und Informationen durch eine hochentwickelte Service Architektur



# IBM Forms Experience Builder

**Basiert auf einer modernen Web Architektur**



# Fach Anwender können Self Service Apps erstellen

## Easy-to-use Web basiertes Design Werkzeug

### Browser basiertes Design

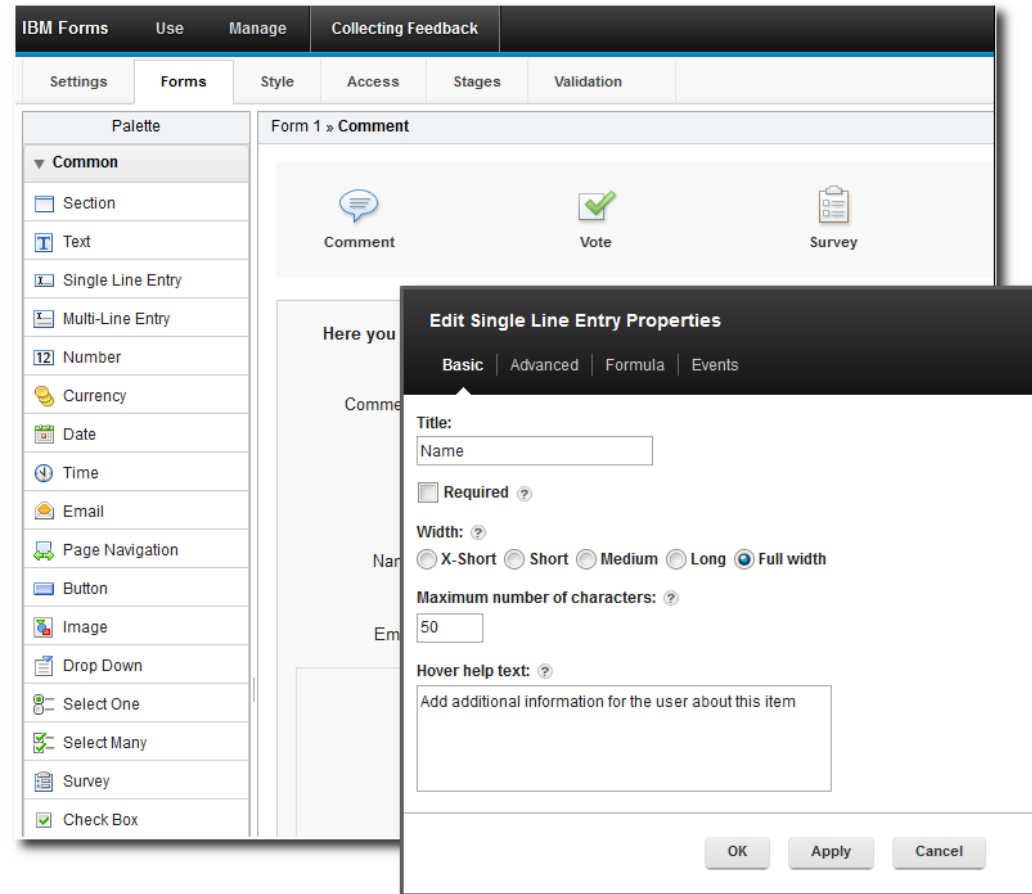
- Vollständige Widget Palette
- Flexibles Layout durch Raster & Sektionen
- Graphischer Regel & Formeditor

### Rapid Development

- Vorkonfigurierte Element mit Standardwerten vorbelegt
- Automatische Bindung von Datenelementen
- Schnelles Anwenden von fortgeschrittenen Funktionen

### Bekannte Techniken

- Drag & drop Design Erlebnis
- Einfaches Auffinden von Eigenschaften



# Dynamisches Erlebnis

Umfassende Auswahl an Dateneingabe Elementen, Formeln und Regeln erhöhen die Produktivität des Anwenders

## Umfassende Benutzerschnittstelle

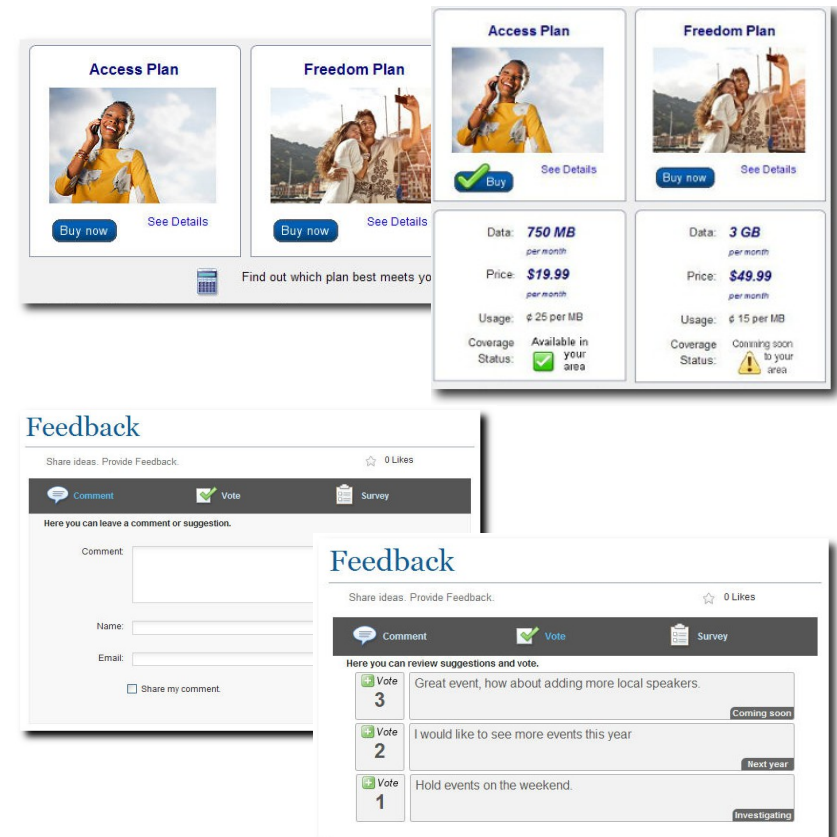
- Erstellen von ansprechenden & personalisierten Layouts
- Integration mit dynamischen Inhalten
- Smarte interaktionen durch Formeln
- Individualisierung mit JavaScript & CSS

## Verbessern von Kundenbeziehungen

- Erhöhen der Formular Ausfüll %
- Verbessern der Click Through %

## Intuitives Self-Service Erlebnis

- Geführte Interaktionen mit Show & Hide Logik
- Rollen-basierte Ansichten und Aktionen
- Bedarfsgesteuerte Inhalte durch Regeln



# Eingebaute Datenhaltung, “Listen” und Visualisierungen

## Eingebaute Datenverwaltung und Zugriffskontrolle

### Schneller und einfacher Zugriff auf Ergebnisse

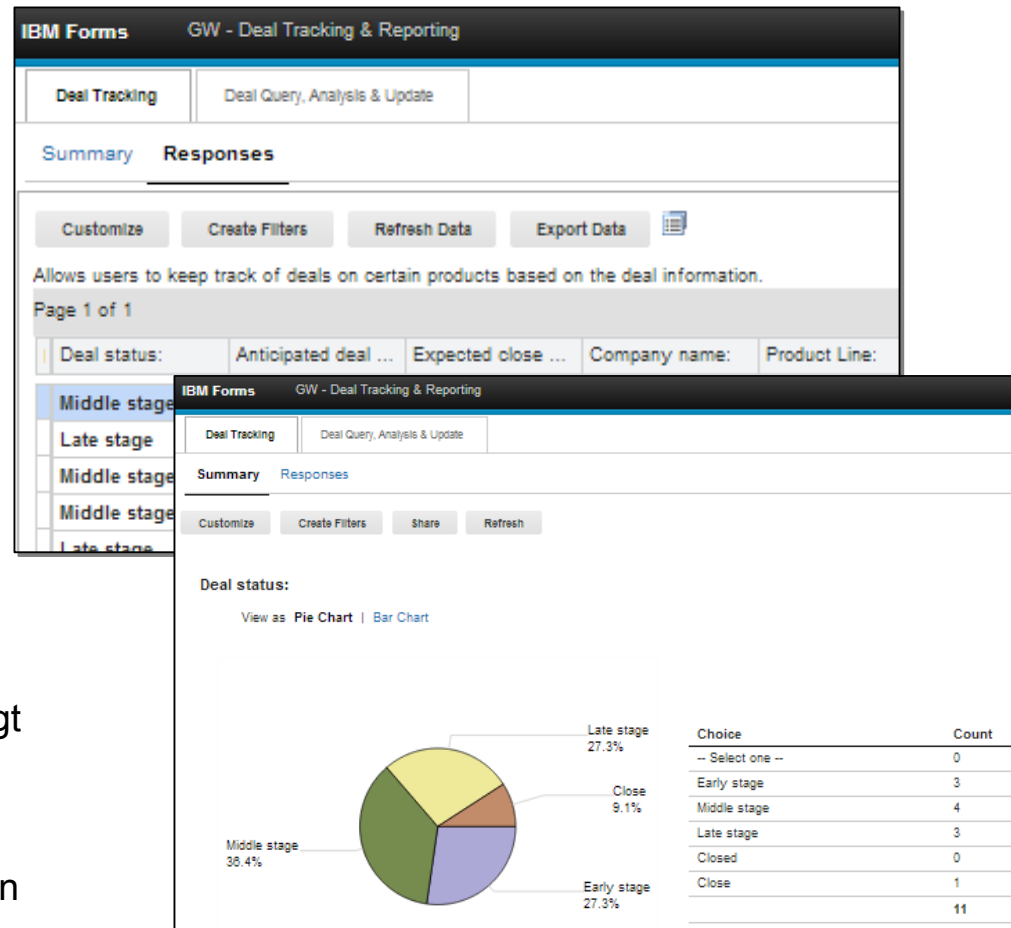
- Listen von gesammelten Daten
- Suchen und Filtern von Datensätzen
- Ansicht von gesammelten Daten nach Formular
- Einsicht in Workflow Aktivität
- Druck von individuellen Datensätzen

### Automatische Zusammenfassung

- Charts
- Übersichtstabellen

### Zugriffs-basiert

- Nur erlaubte Datensätze werden angezeigt
- Rollen und Privilegien
- Generierung von detaillierten Reports
- Komplettieren von zugeordneten Aufgaben



## Workflow und Zugriffskontrolle

Rollen-basierte Zugriffskontrolle und anpassbare Genehmigungsprozesse automatisieren Benachrichtigungen und Freigaben

### Anpassbare Interaktionen

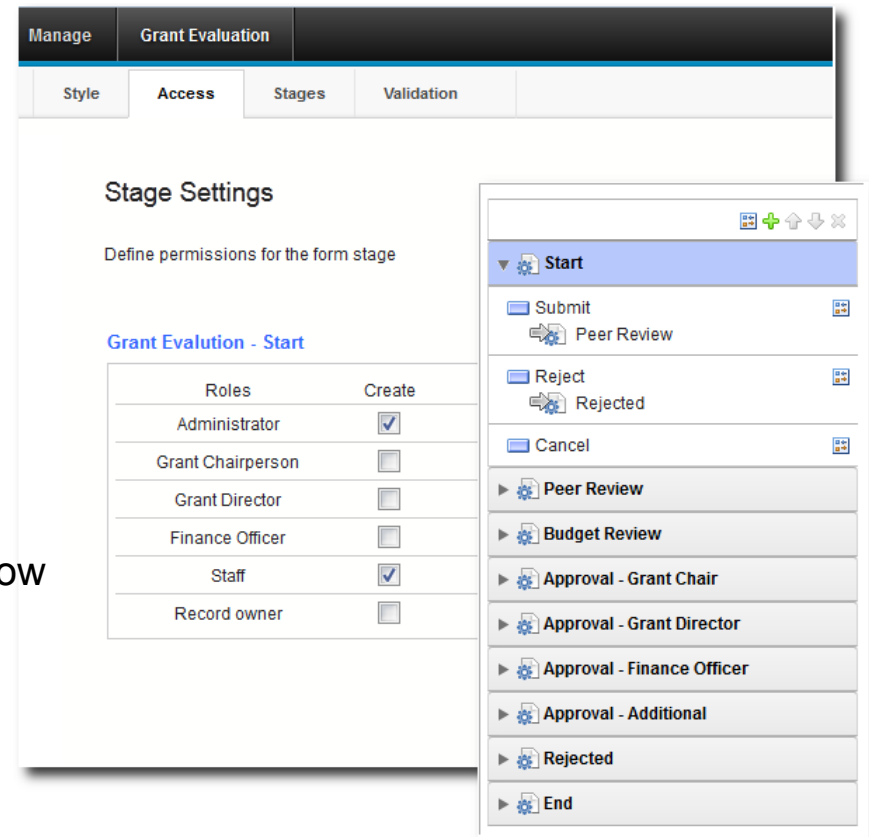
- Geführte Dateneingabe im UI
- Benutzer-spezifischer Zugriff auf Formularelemente
- Personalisierte Aktionen beim Absenden

### Dynamisches Erlebenis

- Rollen-basiertes Show & Hide von Inhalten
- Automatische generierte Email Benachrichtigungen
- Aufruf von Services beim Übergang von Workflow Stationen
- Flexibles Routing durch Regeln

### Quick Setup

- Einfach zu erstellender Workflow Process
- Einfache Zuweisung Rollen & Benutzer Security



**Manage** | **Grant Evaluation**

Style | **Access** | Stages | Validation

### Stage Settings

Define permissions for the form stage

**Grant Evaluation - Start**

Roles	Create
Administrator	<input checked="" type="checkbox"/>
Grant Chairperson	<input type="checkbox"/>
Grant Director	<input type="checkbox"/>
Finance Officer	<input type="checkbox"/>
Staff	<input checked="" type="checkbox"/>
Record owner	<input type="checkbox"/>

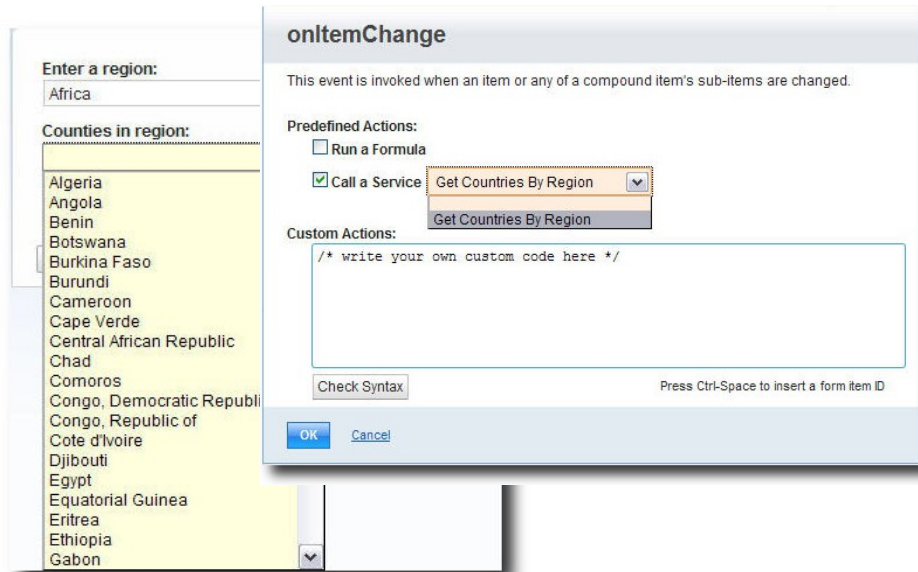
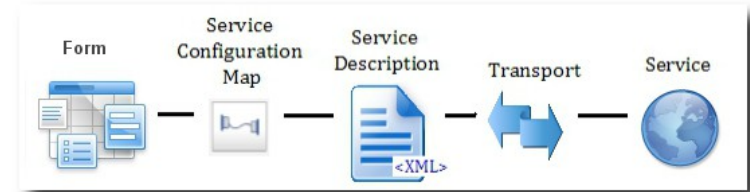
**Flowchart:**

- Start
  - Submit
    - Peer Review
  - Reject
    - Rejected
  - Cancel
- Peer Review
  - Budget Review
  - Approval - Grant Chair
  - Approval - Grant Director
  - Approval - Finance Officer
  - Approval - Additional
  - Rejected
  - End

# Web service-orientierte Werkzeuge für anspruchsvolle Anwendungen

**Mit Service Interaktion zwischen Unternehmens Systemen können Geschäftsprozesse effizient durchgeführt werden durch verbesserten Kundenservice und reduzierte Einführungszeiten**

- Graphisches Zuordnen des Datenflusses in beide Richtungen
- Service Aufrufe können durch Formularereignisse und -aktionen ausgelöst werden
- Aufgerufene Daten werden im Formular angezeigt
- Flexibler Transport und Kommunikationschnittstelle zu externen Systemen
- FEB Daten werden automatisch als Service exponiert
- Selbstregistrierungsprozess für individuell erstellte Service Konfigurationens



Enter a region:  
Africa

Counties in region:

- Algeria
- Angola
- Benin
- Botswana
- Burkina Faso
- Burundi
- Cameroon
- Cape Verde
- Central African Republic
- Chad
- Comoros
- Congo, Democratic Republic of
- Congo, Republic of
- Cote d'Ivoire
- Djibouti
- Egypt
- Equatorial Guinea
- Eritrea
- Ethiopia
- Gabon

onItemChange

This event is invoked when an item or any of a compound item's sub-items are changed.

Predefined Actions:

- ☐ Run a Formula
- ☒ Call a Service: Get Countries By Region

Custom Actions:

/\* write your own custom code here \*/

Check Syntax

OK Cancel

Press Ctrl-Space to insert a form item ID

# Forms Experience Builder Architektur

**Produktpaket reduziert die Lücke zwischen Endbenutzer Entwicklung und IT Administration durch Rapid Deployment von Web Formular Lösungen.**

## Collaboratives Framework

- Fachanwender: WYSIWYG Werkzeug
- IT Mitarbeiter: ACL, SOA Services & Plugins
- Andere: CSS, JavaScript API
- Export/Import von Formularanwendungen

## Bewährte Methoden

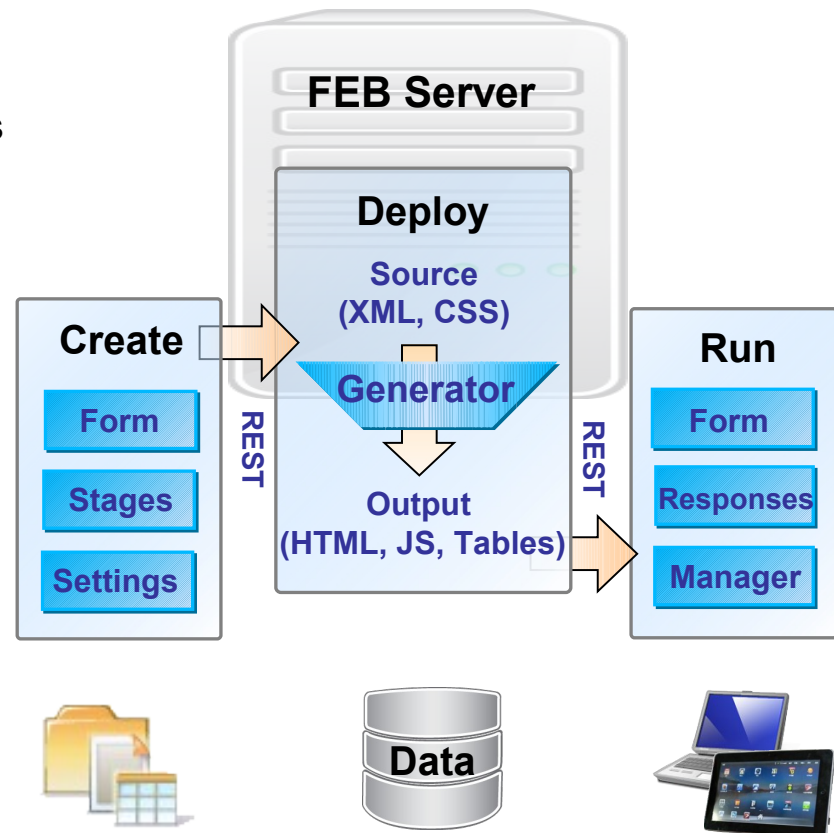
- Packetiert als EAR Datei
- Security durch den J2EE Container
- Datasource Connection zu DB2

## Erweiterbarkeit

- REST Schnittstellen
- Service Schnittstelle
- Daten API für eingegebene Daten

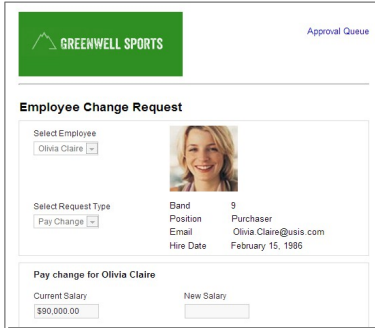
## Scalierbar

- Client-seitige Web Verarbeitung
- 100% Stateless auf der Server-Seite

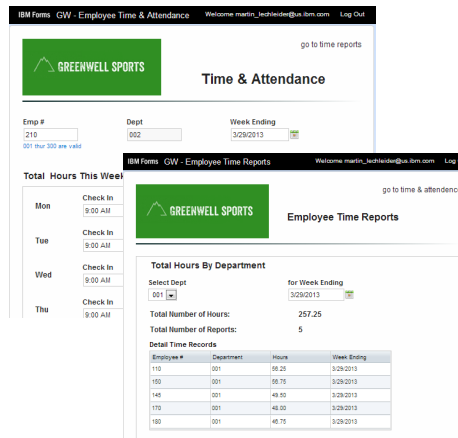


# Beispiel Anwendungen im Starter Pack

## HR Self Service

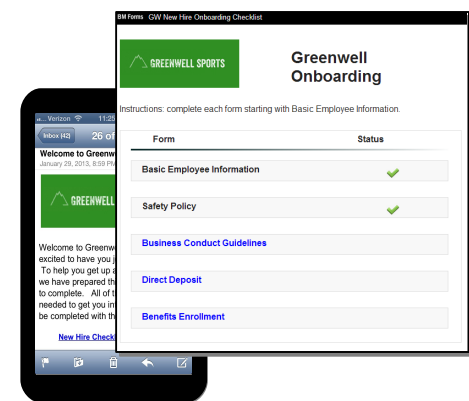


## Time & Attendance

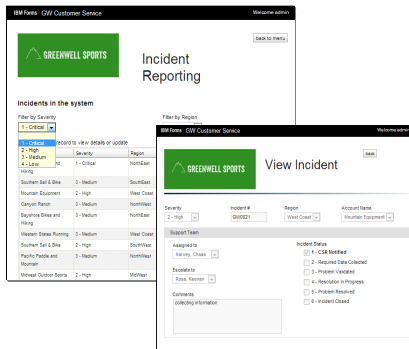


Employee #	Department	Hours	Week Ending
110	001	58.25	3/29/2013
150	001	58.75	3/29/2013
145	001	49.50	3/29/2013
170	001	48.00	3/29/2013
180	001	48.75	3/29/2013

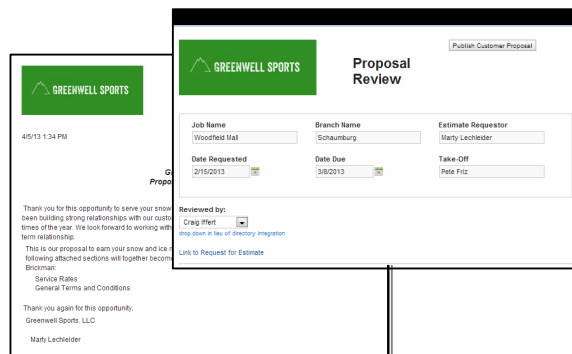
## Employee Onboarding



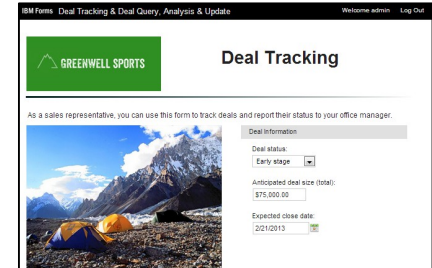
## Customer Service



## Bid Preparation and Proposal Review



## Opportunity Tracking





# Mehrwerte durch Integration von FEB in Ihren Web Auftritt

## Einsammeln von Feedback

- Umfragen und Polls zum sammeln von Kundenmeinungen

## Personalisierte Self Services

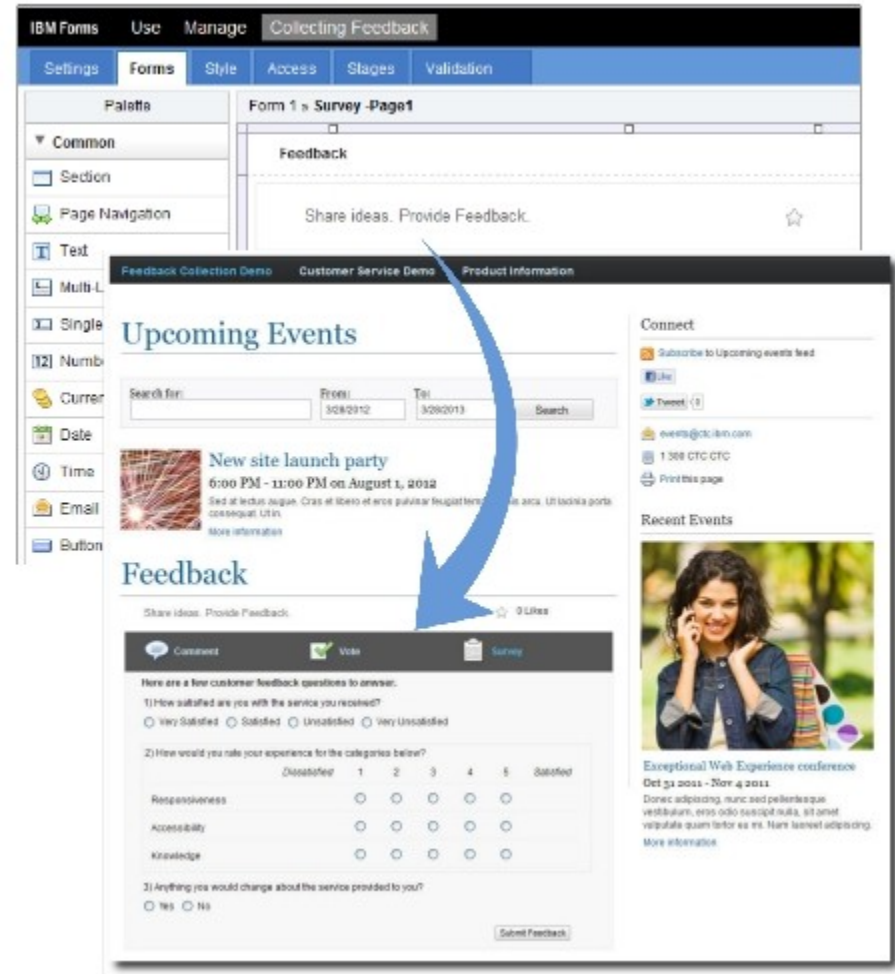
- Integration mit Profilinformationen für ein individuelles Erlebnis
- Integration mit existierenden Systemen für Self-Service Anwendungen

## Angebote und Kampagnien

- Neue Leads einsammeln
- Einbinden von Kunden in Marketing Programme

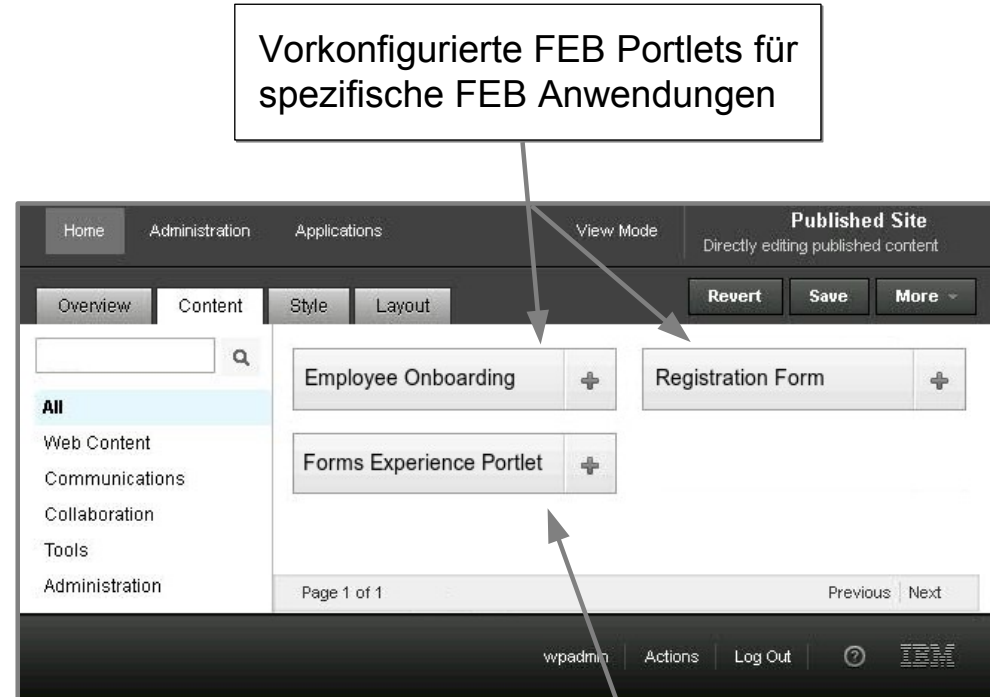
## Überwachen und Auswerten von Ergebnissen

- Einfacher Zugriff auf die Ergebnisse ohne IT Involvement



# Integration mit WebSphere Portal

- Füge eine oder mehrere FEB Formulare zu einer WebSphere Portal Seite hinzu
- Vorkonfigurierte Instanzen von spezifischen FEB Anwendungen für den Portal Page Builder
- FEB Apps und Charts können auch mit dem Web Clipping, Web Application Bridge, Rich Text oder iFrame Portlets dargestellt werden.
- FEB Web Formulare und Charts können in andere Web Anwendungen mit Hilfe von iFrames eingebettet werden
  - In HTML Seiten
  - In Notes Open Social durch ein iFrame Gadget



# Neu - FEB 8.5 bietet Community Umfragen und Abstimmungen in IBM Connections 4.5

## Survey Widgets

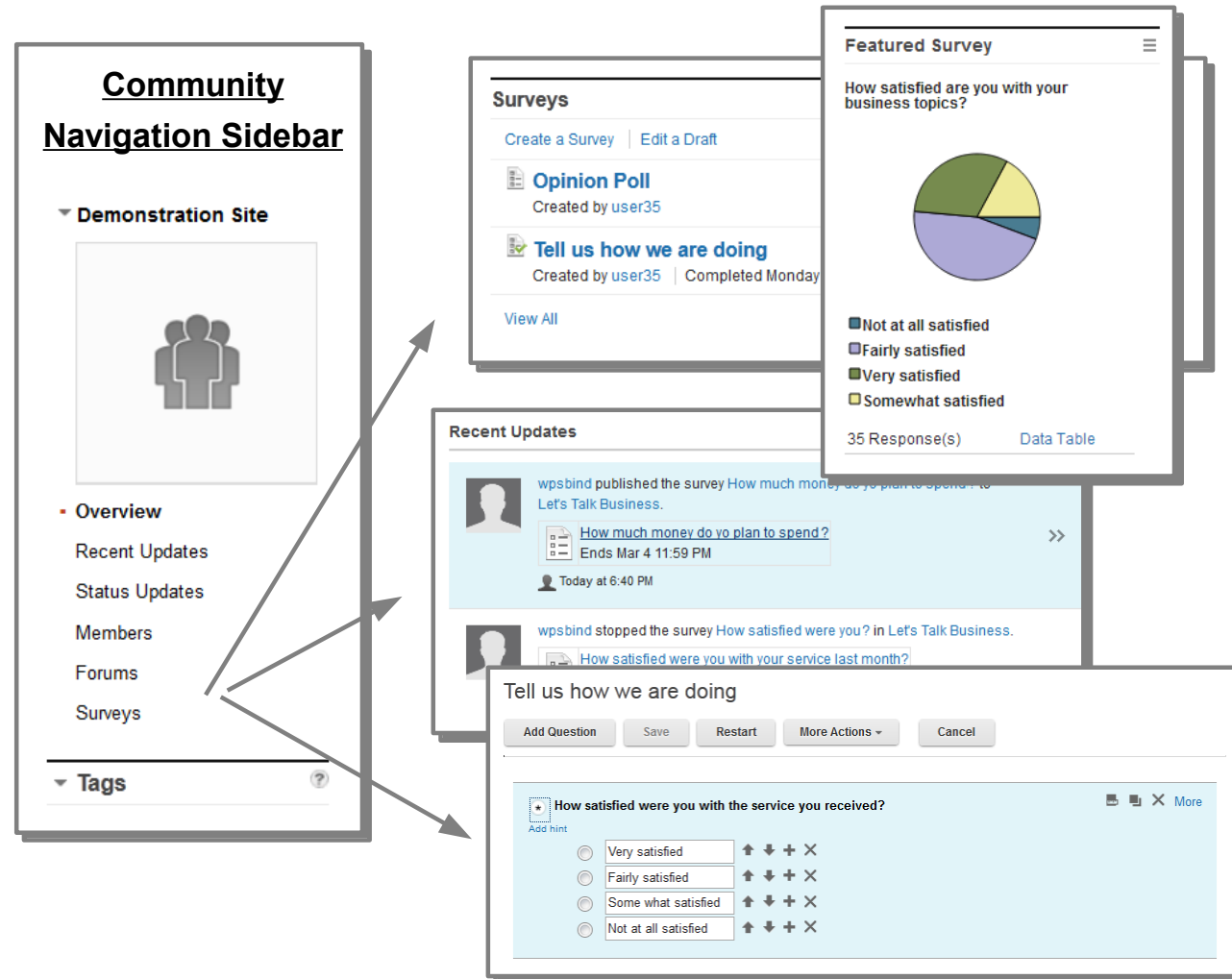
- Anzeige von aktiven Umfragen
- Anzeige von besonderen Umfragen
- Anzeige von Umfrage-Ergebnissen

## Survey Events

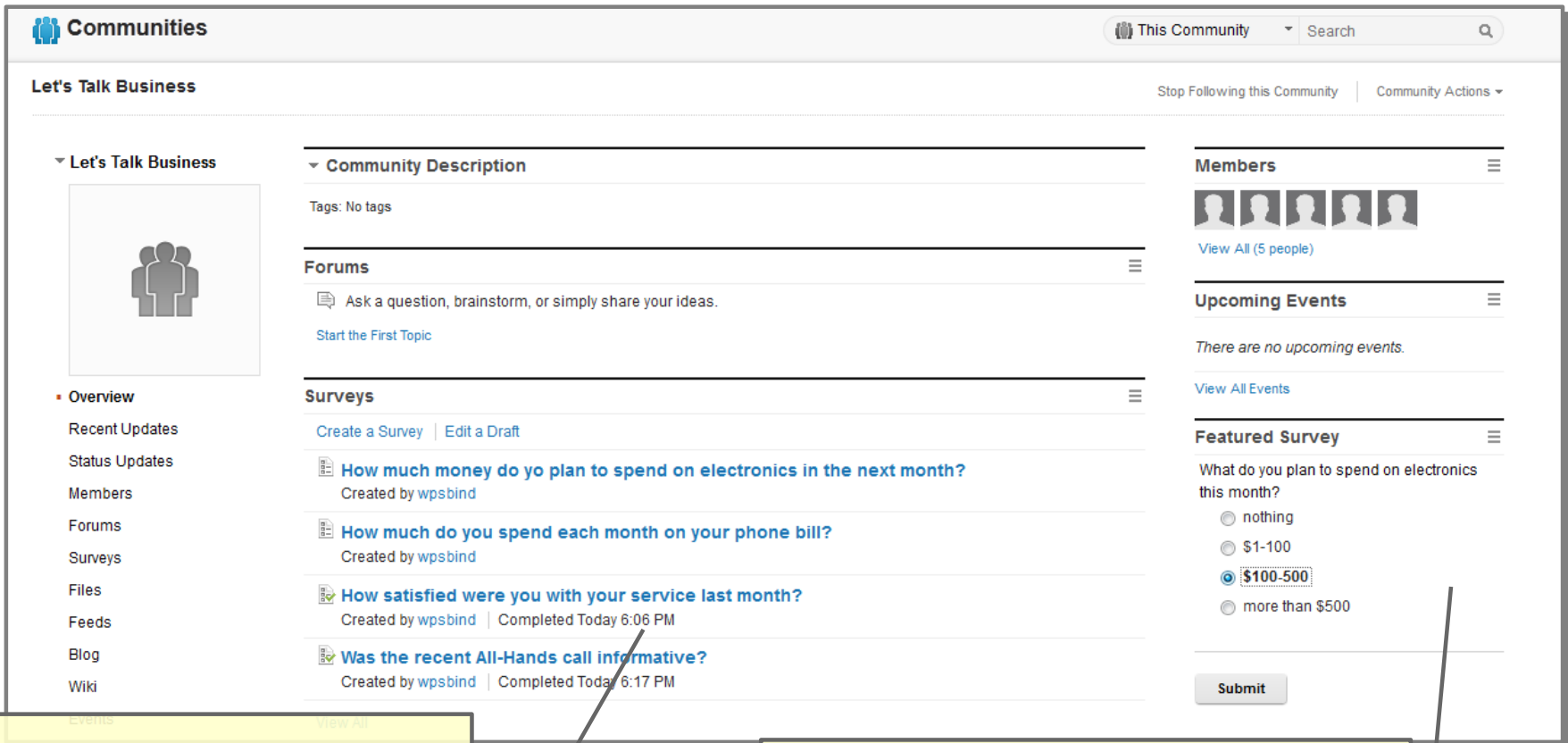
- Empfangen von Updates
- Partizipieren oder Anzeigen von Ergebnissen

## Survey Designer

- Erstellen von Abstimmungen und Umfragen
- Verwalten von Umfragen



# Zwei verschiedene Umfrage Widgets sind für Community Seiten

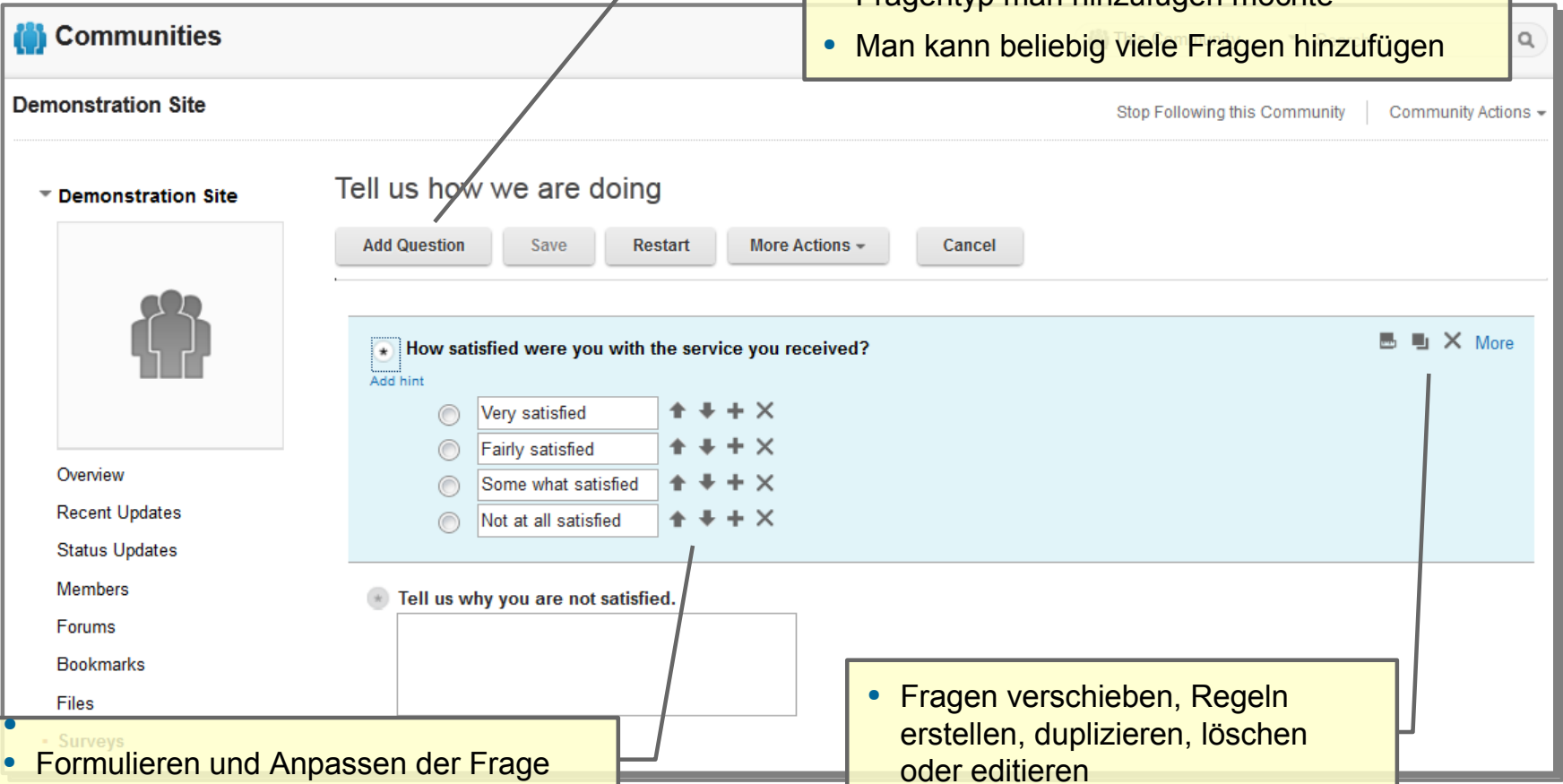


The screenshot shows the IBM Communities interface for a community named 'Let's Talk Business'. The page layout includes a left sidebar with navigation links (Overview, Recent Updates, Status Updates, Members, Forums, Surveys, Files, Feeds, Blog, Wiki), a main content area, and a right sidebar. The main content area features a 'Community Description' section with no tags, a 'Forums' section with a prompt to ask a question, and a 'Surveys' section. The 'Surveys' section lists four active surveys, each created by 'wpsbind'. The first survey is 'How much money do yo plan to spend on electronics in the next month?'. The second is 'How much do you spend each month on your phone bill?'. The third is 'How satisfied were you with your service last month?' with a completion time of 6:06 PM. The fourth is 'Was the recent All-Hands call informative?' with a completion time of 6:17 PM. The right sidebar contains sections for 'Members' (5 people), 'Upcoming Events' (none), and a 'Featured Survey'.

**Surveys Widget** lists active surveys in a community

**Featured Survey Widget** shows a survey or its results

# Erstellen von Umfragen Frage für Frage

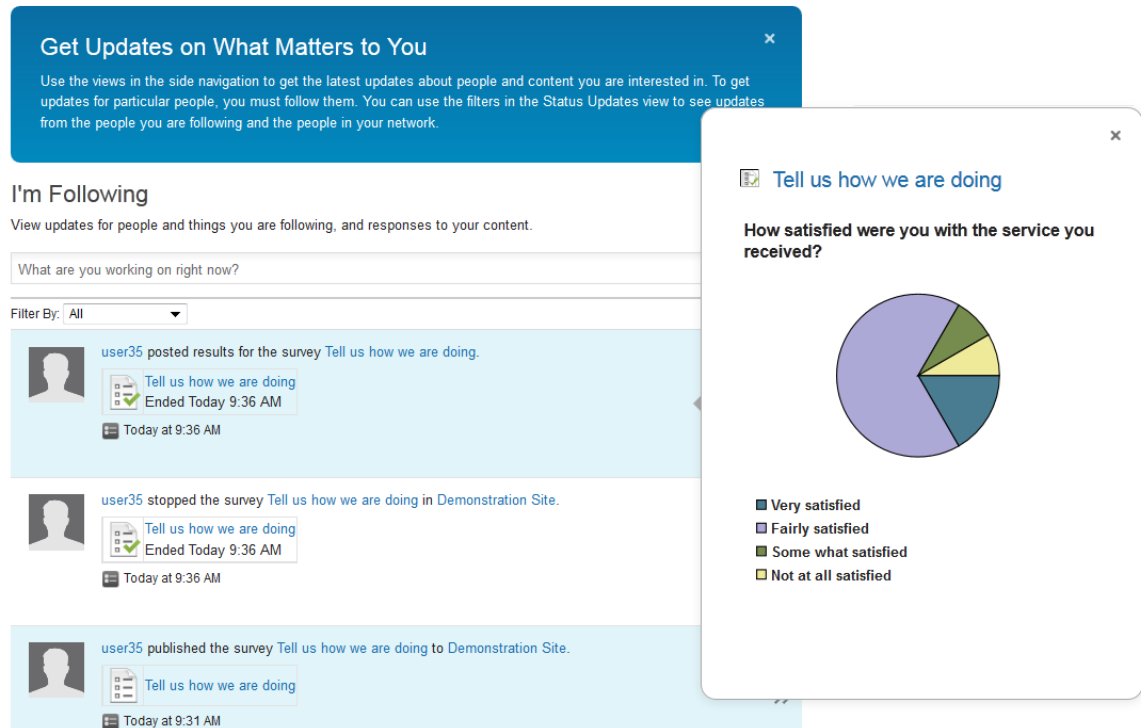


The screenshot shows the 'Add Question' interface in the IBM Communities 'Demonstration Site'. The main heading is 'Tell us how we are doing'. Below it are buttons for 'Add Question', 'Save', 'Restart', 'More Actions', and 'Cancel'. A survey question is being created: 'How satisfied were you with the service you received?'. The question has a hint icon and a 'More' link. The response options are radio buttons with text labels and a set of icons (up, down, plus, minus) for each: 'Very satisfied', 'Fairly satisfied', 'Some what satisfied', and 'Not at all satisfied'. Below the question is a text box for 'Tell us why you are not satisfied.'.

- Add Question gibt eine Auswahl welchen Fragentyp man hinzufügen möchte
- Man kann beliebig viele Fragen hinzufügen
- Fragen verschieben, Regeln erstellen, duplizieren, löschen oder editieren
- Formulieren und Anpassen der Frage

# Verbindung halten mit Umfrage Events im Activity Stream

- 
- Umfrage Events erscheinen in Activity stream Listen
  - Community Updates
  - Homepage Ansicht
- Umfrage Events:
  - Veröffentlichen einer Umfrage
  - Stoppen einer Umfrage
  - Veröffentlichen der Umfrage Ergebnisse
- Embedded Experiences zeigen dem Benutzer Aktivitäten an und lassen ihn Aktionen ausführen
  - Ausfüllen von aktiven Umfragen
  - Anzeige von Ergebnissen
- 



The screenshot displays the IBM Activity Stream interface. At the top, a blue banner reads "Get Updates on What Matters to You" with a close button. Below it, a section titled "I'm Following" shows updates for people and content. A text input field asks "What are you working on right now?". A filter dropdown is set to "All". The activity stream shows three items from "user35":

- user35 posted results for the survey Tell us how we are doing. (Today at 9:36 AM)
- user35 stopped the survey Tell us how we are doing in Demonstration Site. (Today at 9:36 AM)
- user35 published the survey Tell us how we are doing to Demonstration Site. (Today at 9:31 AM)

Overlaid on the right is a survey titled "Tell us how we are doing". It asks "How satisfied were you with the service you received?" and shows a pie chart. The legend indicates four levels of satisfaction:

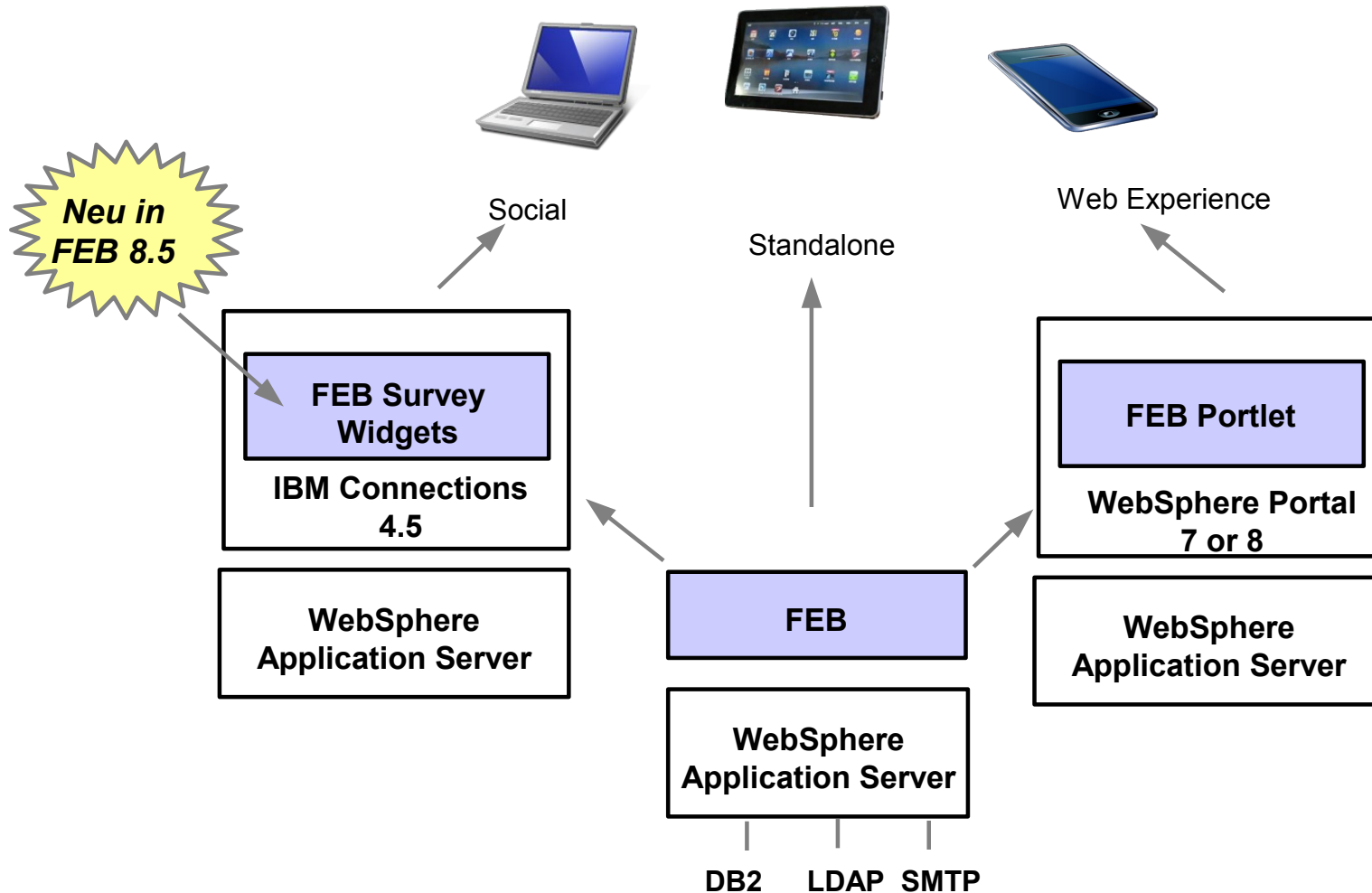
- Very satisfied (dark blue)
- Fairly satisfied (light blue)
- Some what satisfied (green)
- Not at all satisfied (yellow)

The pie chart shows that "Fairly satisfied" is the most common response, followed by "Very satisfied".

**Anwender können direkt auf Umfrageereignisse reagieren durch embedded experiences**

# IBM Forms Experience Builder

## Architektur



*FEB beinhaltet Entitlements für WebSphere Application Server und IBM DB2*

# Was Kunden am Forms Experience Builder schätzen

## Geschwindigkeit

- Nicht-technische Anwender können anspruchsvolle Web Anwendungen erstellen

## Agilität

- Änderungen und Anpassungen von Web Formularen können in nur wenigen Minuten erledigt werden

## Integration

- Excellente Synergien mit IBM Web Experience und Social Software

## Cloud Szenarien

- Singuläres, geteiltes Deployment erfüllt alle Ansprüche

## Einfach Erweiterbar

- IT kann zusammen mit Fachanwendern und mit normalen Web Entwicklungs Skills Anwendungen erweitern

# IBM's CIO Lab Deployment von FEB



## Was

- FEB als a “self-service” Werkzeug für IBM Fachanwender

## Ersparnisse

- 2011/2012 geschätzte Ersparnisse von über \$6.4M
  - Reduzierte Entwicklungs- und Hosting-Kosten
  - Verbesserte Effizienz

## Statistiken

- 189 registrierte Anwendungen
- Über 135,000 abgeschickte Formulare
- Über 51,000 IBMers haben mit FEB auf SSAe interagiert
- Über 400 Community Mitglieder

# Beispiel Anwendungen zur Starthilfe

## Forms Experience Builder Starter Packs

Added by  Eric Dunn | Edited by  Jane Rizhanovsky on May 22, 2012 | Version 36

[Edit](#) | [More Actions](#) ▾  (0 ratings) | [1 comment](#)

### ▼ Abstract

This page contains many Forms Experience Builder starter packs. A starter pack contains a downloadable Forms Experience Builder application containing a single sample form, along with documentation explaining some of the techniques used in the sample.

Tags: [nitro](#), [feb](#), [samples](#), [how-to](#)

### Table of Contents

[Hide](#)

- 1 Starter Packs for Forms Experience Builder v8
  - 1.1 Coverage Matrix
  - 1.2 Feature Matrix
  - 1.3 Getting Started with the Starter Packs
- 2 Downloads
  - 2.1 Entire Starter Pack Set
  - 2.2 Employee Position Change
  - 2.3 First Aid Course Enrollment
  - 2.4 Printing Quotation
  - 2.5 Employment Application
  - 2.6 Employee Information Form
  - 2.7 Business Conduct Guidelines
  - 2.8 Library Registration
  - 2.9 Safety Policy

[http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms\\_Experience\\_Builder\\_Starter\\_Packs#Starter+Packs+for+Forms+Experience+Builder+v8](http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms_Experience_Builder_Starter_Packs#Starter+Packs+for+Forms+Experience+Builder+v8)

# Videos zur Starthilfe

## IBM Forms Experience Builder Video Demonstrations

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This video series demonstrates many of the new features available with IBM Forms 8.0. The videos walk you through various use cases in how applications built with the IBM Forms Experience Builder can enhance your customers web experience.

[Video of IBM Forms Experience Builder - Feedback Collection Application Demonstration](#)

[Video of IBM Forms Experience Builder - Customer Support Application Demonstration](#)

[Video of IBM Forms Experience Builder - Wireless Service Plan Purchase Demonstration](#)

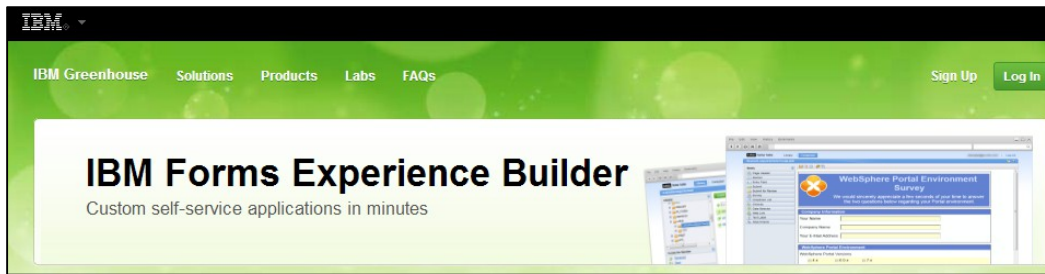
[Video of IBM Forms Experience Builder - Customer Satisfaction Survey Demonstration](#)

[Video of IBM Forms Experience Builder - Grant Evaluation Application Demonstration](#)

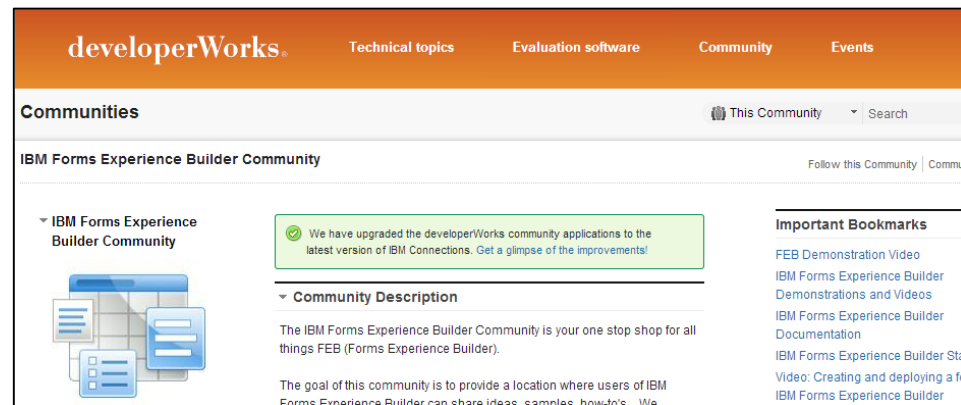
[http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms\\_Experience\\_Builder\\_Demonstrations\\_and\\_Videos](http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms_Experience_Builder_Demonstrations_and_Videos)

[http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms\\_Experience\\_Builder\\_Starter\\_Packs#Starter+Packs+for+Forms+Experience+Builder+v8](http://www-10.lotus.com/ldd/lfwiki.nsf/dx/Forms_Experience_Builder_Starter_Packs#Starter+Packs+for+Forms+Experience+Builder+v8)

# Ressourcen zum Erstellen von FEB Anwendungen



<https://greenhouse.lotus.com/wpsgh/wcm/connect/ghcontent/lotus+greenhouse+next+site/home/products/ibm+forms+turbo>



<https://www.ibm.com/developerworks/community/groups/service/html/communityview?communityUuid=05651788-f17f-4309-a5c6-698e67acd9c1>

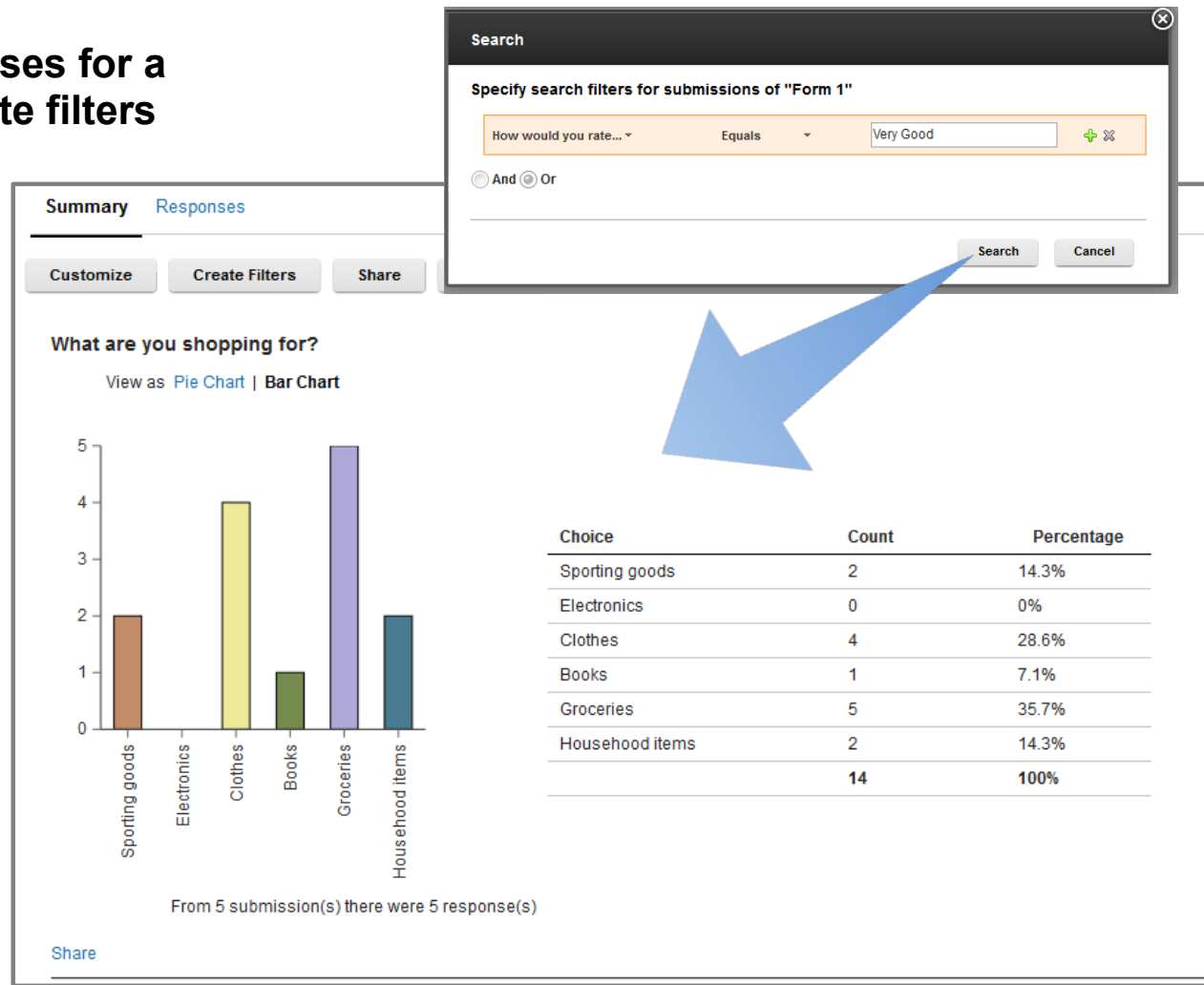
# Demo

# What's else is new with FEB 8.5?

# Discover important comments or trends in collected responses

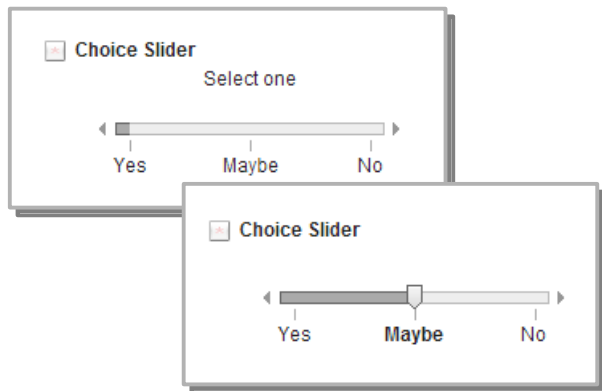
View submitted responses for a single question or create filters for cross tabulation.

- 
- 
- Create customizable filters to discover patterns
- Define simple or multiple condition filters using an easy to use search dialog
- Decide to share specific views with others
- 

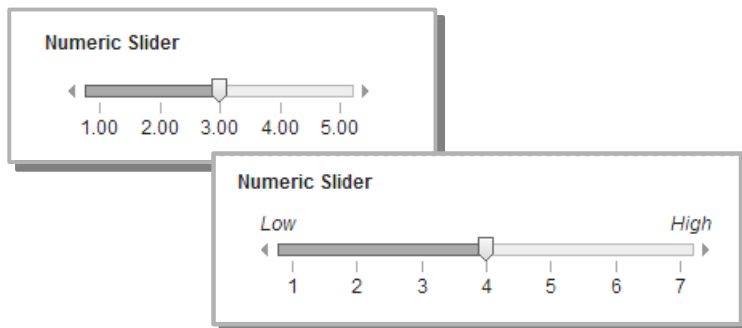


## New form items and item behaviors

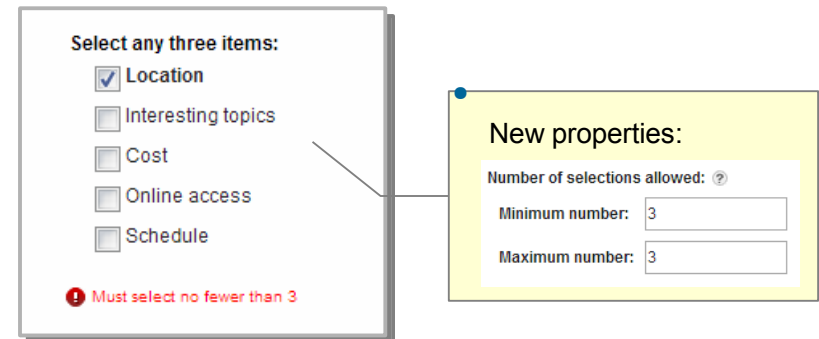
- Choice slider item for making choices, complete with a required option.



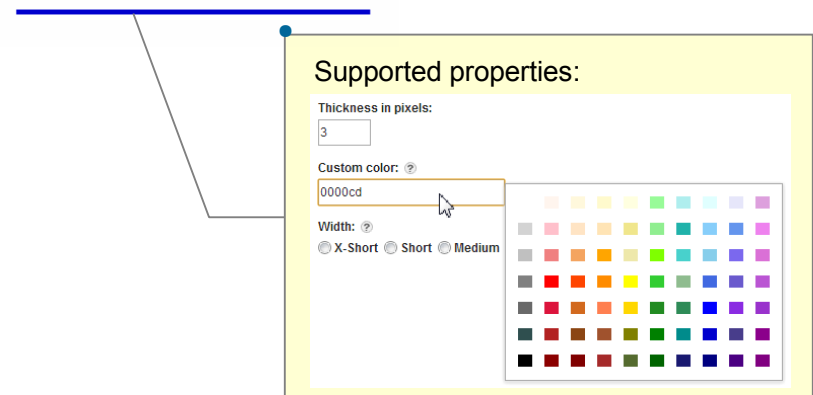
- Numeric slider item for selecting numbers, with automatic scale generation.



- Select many item now has a option for defining minimum-maximum number of choices.



- Line or divider display item.

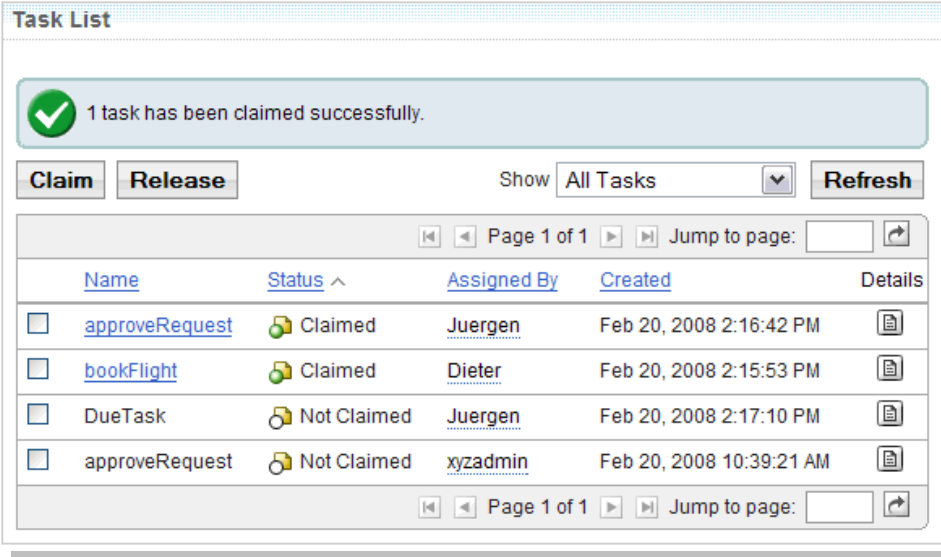


## Specific product enhancements and entitlements

- Layout and usability improvements
  - Layout enhancements now allow form items to self adjust their content in response to size changes on the web page
  - Field widths for numeric widgets have been adjusted to better align with common usage
  - New simplified theme now available for viewing web forms and results
  - Widget property UX improved to make it easier to specify range values
- Adopted IBM Collaboration Solutions (ICS) UI 3.0.3 to achieve stronger visual alignment when delivering social business solutions
- Expanded globalization group 1 & 2 supported to now include Catalan, Kazakh, and Thai languages
- Update entitlements for prerequisite software
  - WebSphere Application Server Network Deployment 8.5
  - DB2 10.1
  - 
  -
-

## New - FEB 8.5 integration with Unified Task List

- FEB forms can appear as part of Portal Unified Task List (UTL) solution for enterprise processes
  - Portal UTL will support a FEB adaptor
  - FEB portlet supports UTL wires to display forms
- This makes it easy to deliver web form applications for human tasks in business workflows
- 











**Task List**

✓ 1 task has been claimed successfully.

**Claim** **Release** Show  **Refresh**

Page 1 of 1 Jump to page:

	<a href="#">Name</a>	<a href="#">Status</a> ^	<a href="#">Assigned By</a>	<a href="#">Created</a>	<a href="#">Details</a>
<input type="checkbox"/>	<a href="#">approveRequest</a>	 Claimed	<a href="#">Juergen</a>	Feb 20, 2008 2:16:42 PM	
<input type="checkbox"/>	<a href="#">bookFlight</a>	 Claimed	<a href="#">Dieter</a>	Feb 20, 2008 2:15:53 PM	
<input type="checkbox"/>	DueTask	 Not Claimed	<a href="#">Juergen</a>	Feb 20, 2008 2:17:10 PM	
<input type="checkbox"/>	<a href="#">approveRequest</a>	 Not Claimed	<a href="#">xyzadmin</a>	Feb 20, 2008 10:39:21 AM	

Page 1 of 1 Jump to page:

**Available with the next Websphere Portal UTL update**

# Improved rules experience and capabilities



**Form 1 » Page 1**

How would you rate your shopping experience?

☐ Very good  
☐ Good  
☐ Fair  
☐ Poor  
☐ Very poor

**Rules**

Add Rule

Rule 1  
Rule 2  
Rule 3  
Rule 4

Show related  
How would you rate you

**Details for: Rule 2**

When this is true: ?

How would you rate your sho... Equals

☐ Very good  
☐ Good  
☒ Fair  
☐ Poor  
☐ Very poor

A fixed value

Clear selection

Perform this action: ?

Please tell us why Show

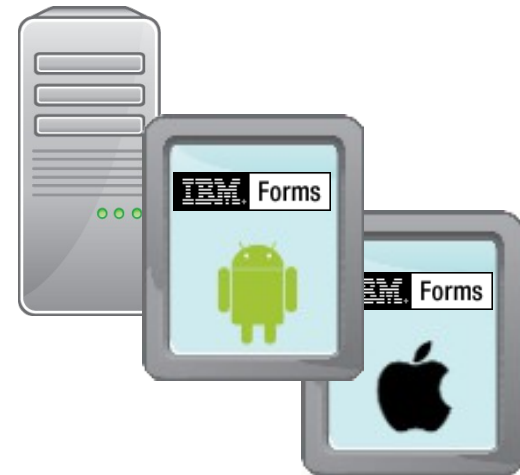
Apply Apply and Close

**Directly access the rules dialog by clicking on any form page, item or stage action.**

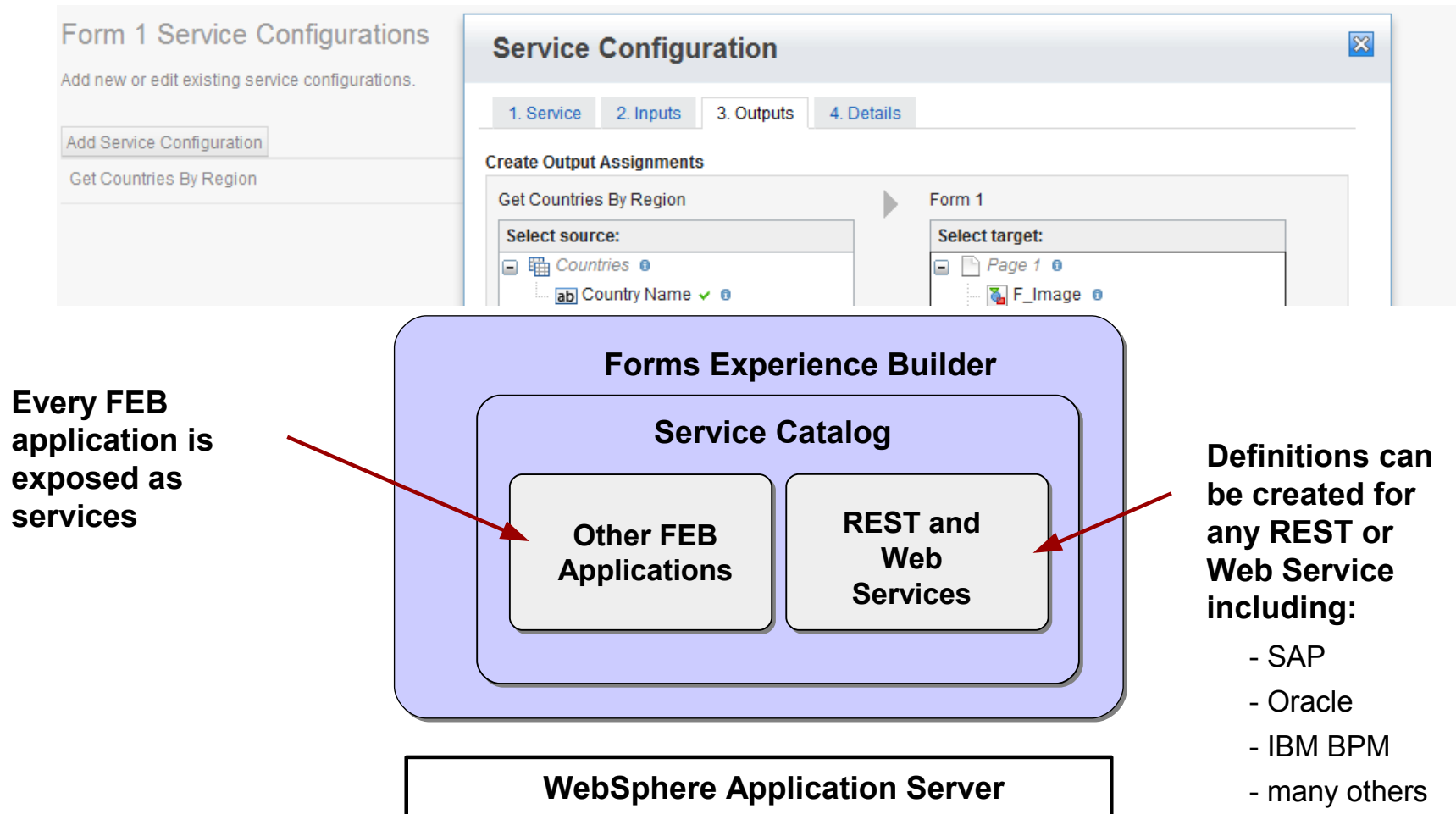
- Rule conditions are express using simple if-then logic
- All form rules are listed in one place
- Rules related to a specific form item are highlighted
- Support one or several actions as the result of a rule

# Continued support for new operating systems and web browsers

- Updated server OSs to include
  - Windows Server 2012
- Updated tablet support to include
  - iPad with iOS 6.1
  - Tablets with Android 4.1
- Updated mobile device support to include
  - iPhone running iOS 6.1
  - Phones running Android v4.0
- Updated browser support to include
  - Chrome v25
  - FireFox v20
  - Internet Explorer v10
  - Safari v6.0



# FEB Service Catalog and Discovery



## Services enhancements included in FEB 8.5

**FEB services can now return detailed information about submission records which enables custom data views to be created or allows records for a particular person to be located.**

- Search and retrieve record metadata
  - Author & last updater (name, login, email)
  - Stage & line id information
  - Creation time & update time
- Filter metadata results

### Other enhancements:

- One can now search results using a page approach by setting a page size (how many entries to return) and a page (which page of entries to return) parameter
- JSON in the service transport layer is now supported in addition to HTML type transport

Record UID	Record Line ID	Stage	CreateTime	Auth Name	Auth ID
472e0bf5-f0b9-49ff-82d0-50553fa434cf	0	ST_End	2/22/2013, 3:55 PM	Demo Demo	demo
e343db61-c5a2-4a6e-8b78-0ec4ba1107	1	ST_End	2/22/2013, 3:55 PM	Demo Demo	demo
95f003b8-757d-4d5b-8a32-3a6dd62e8a	0	ST_End	2/22/2013, 3:55 PM	Demo Demo	demo
28d0723d-41a3-4de1-8ada-ada07f5e6	1	ST_End	2/22/2013, 3:55 PM	Demo Demo	demo
	2	ST_End	2/22/2013, 3:56 PM	Project Nitro	nitro
	3	ST_End	2/22/2013, 3:59 PM	Demo Demo	demo

Custom view of submission records based on line id example

## Connecting to external enterprise systems is now easier

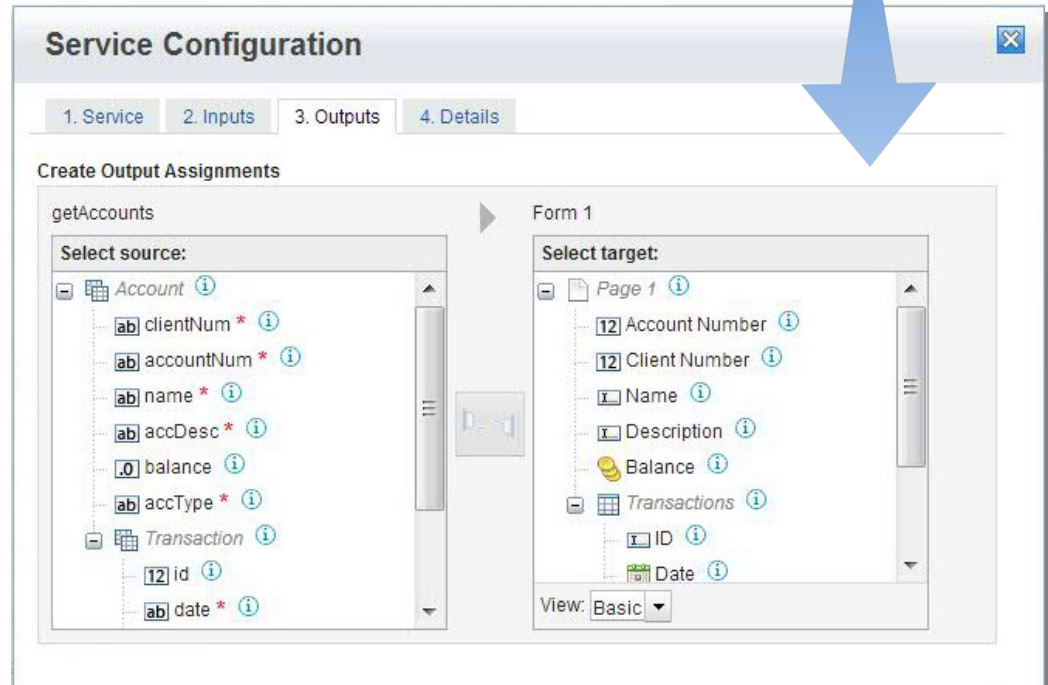
New in v8.5 is a generator tool that can transform the contents of a WSDL to a FEB service description represented as an XML document.

- 
- Generation tool works with WDSL 2.0
- Command line tool automatically generates FEB service description files
- New service descriptions are ready for use in any FEB application
- Generated graphical interface allows knowledge users to manage service call details within a form

```
C:\IBM\forms\wsdl>java -jar wsdl.jar -wsdlFile=AccountServiceService.wsdl
FEB Service Description Generator for Web Services

-----
Service Description Generation Completed
-----

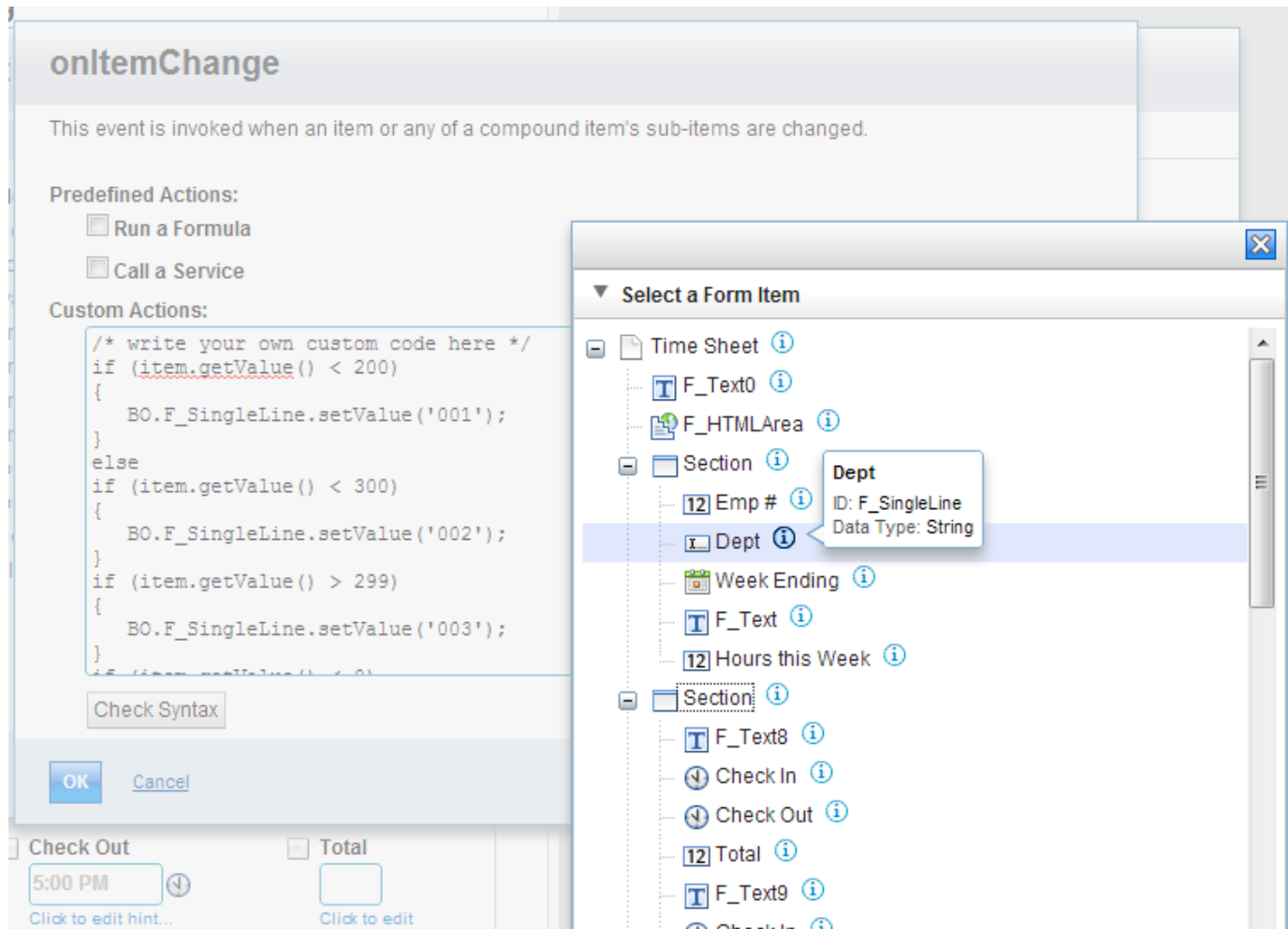
Total Web Services Operation      : 6
Service Description Generated (success) : 6
Service Description Generated (with errors) : 0
-----
```



The **Service Configuration** window displays the **4. Details** tab for the **getAccounts** service. It shows the mapping of WSDL elements to FEB form fields. On the left, under **Select source:**, the **Account** element is expanded, showing fields like **clientNum**, **accountNum**, **name**, **accDesc**, **balance**, and **accType**. On the right, under **Select target:**, the **Page 1** form is shown with corresponding fields like **Account Number**, **Client Number**, **Name**, **Description**, **Balance**, and **Transactions**. A blue arrow points from the command line output to the **Service Configuration** window.

# JavaScript API

Easy sandbox approach to extending functions with JavaScript



The screenshot displays the configuration interface for the **onItemChange** event. The main window is titled **onItemChange** and contains a description: "This event is invoked when an item or any of a compound item's sub-items are changed." Below this, there are sections for **Predefined Actions:** (Run a Formula, Call a Service) and **Custom Actions:** (a text area for custom JavaScript code). A **Check Syntax** button is located below the code area. At the bottom, there are **OK** and **Cancel** buttons, and a form section with **Check Out** (5:00 PM) and **Total** (empty) fields.

The **Custom Actions** section contains the following JavaScript code:

```
/* write your own custom code here */
if (item.getValue() < 200)
{
    BO.F_SingleLine.setValue('001');
}
else
if (item.getValue() < 300)
{
    BO.F_SingleLine.setValue('002');
}
if (item.getValue() > 299)
{
    BO.F_SingleLine.setValue('003');
}
```

A **Select a Form Item** dialog is open, showing a tree view of the form structure. The **Dept** item is selected, and a tooltip displays its details: **Dept**, ID: F\_SingleLine, Data Type: String.

The form structure shown in the dialog is as follows:

- Time Sheet
  - F\_Text0
  - F\_HTMLArea
  - Section
    - Emp #
    - Dept
    - Week Ending
    - F\_Text
    - Hours this Week
  - Section
    - F\_Text8
    - Check In
    - Check Out
    - Total
    - F\_Text9
    - Check In

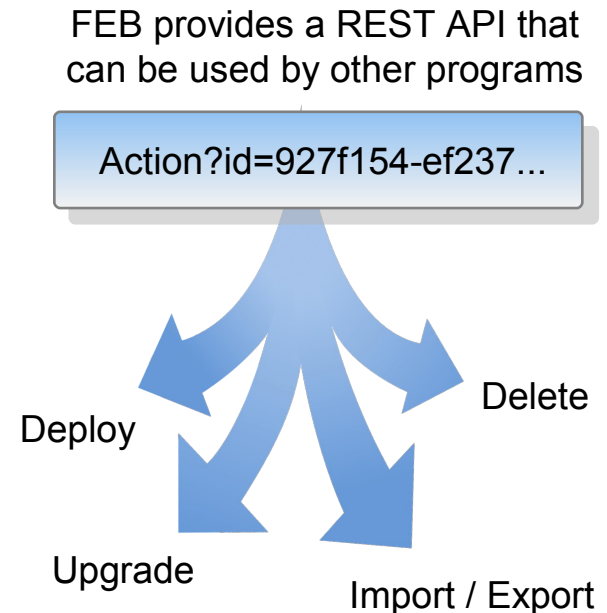
## New JavaScript APIs and libraries supported in v8.5

- Allow content to be displayed as the user types it (before tabbing out)
  - `item.getDisplayValue()`
  - `item.setDisplayValue(pValue)`
- Control whether or not a pop up message is displayed when navigating away
  - `app.setSuppressWarning(pSuppress).`
  - `app.getSuppressWarning();`
- Programmatically get links to all imbedded application files (image, CSS, pdf, etc.)
  - `app.getImageBaseURL();`
  - `app.getStyleBaseURL();`
  - `app.getFileBaseURL();`
- Get unique IDs of the application and the form to build up URLs for rest calls
  - `app.getUID();`
  - `form.getUID();`
- Now available are Dojo 1.8 libraries to extend FEB form capabilities
  -
-

## Rest API enhancements and additions in v8.5

Methods are now available that help automate the deployment of web form solutions from a development system to a staging or production system.

- 
- Deploy activates a draft version of a form and makes it available for use
- Upgrade replaces a deployed form with a new version of the source file
- Import uploads a form source file to the FEB server
- Export downloads a form source file to be saved locally
- Delete removes a form source file and related data records from the FEB server



## What's new with ...

- 
- FEB form upgrade process has been improved
  - Upgrade service runs as a background thread with on demand processing
  - FEB v8.5 is backward compatible with v8.0 forms.
  - 
  -

### IBM Forms Experience Builder Setup

There are two phases that need to be completed in order for IBM Forms Experience Builder to be setup.

#### Phase 1: Basic Environment Setup

**Step 1: Data Source**

✓ The data source has been provided and configured.

**Step 2: Database Tables**

✓ The database tables are up-to-date.

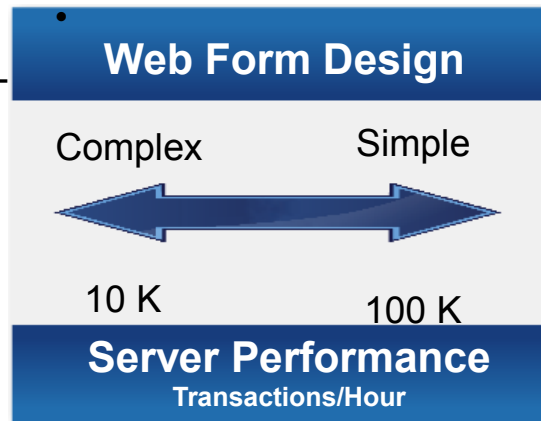
#### Phase 2: Secured Environment Setup

**Step 1: Mail Session**

✓ The mail session has been provided and configured.

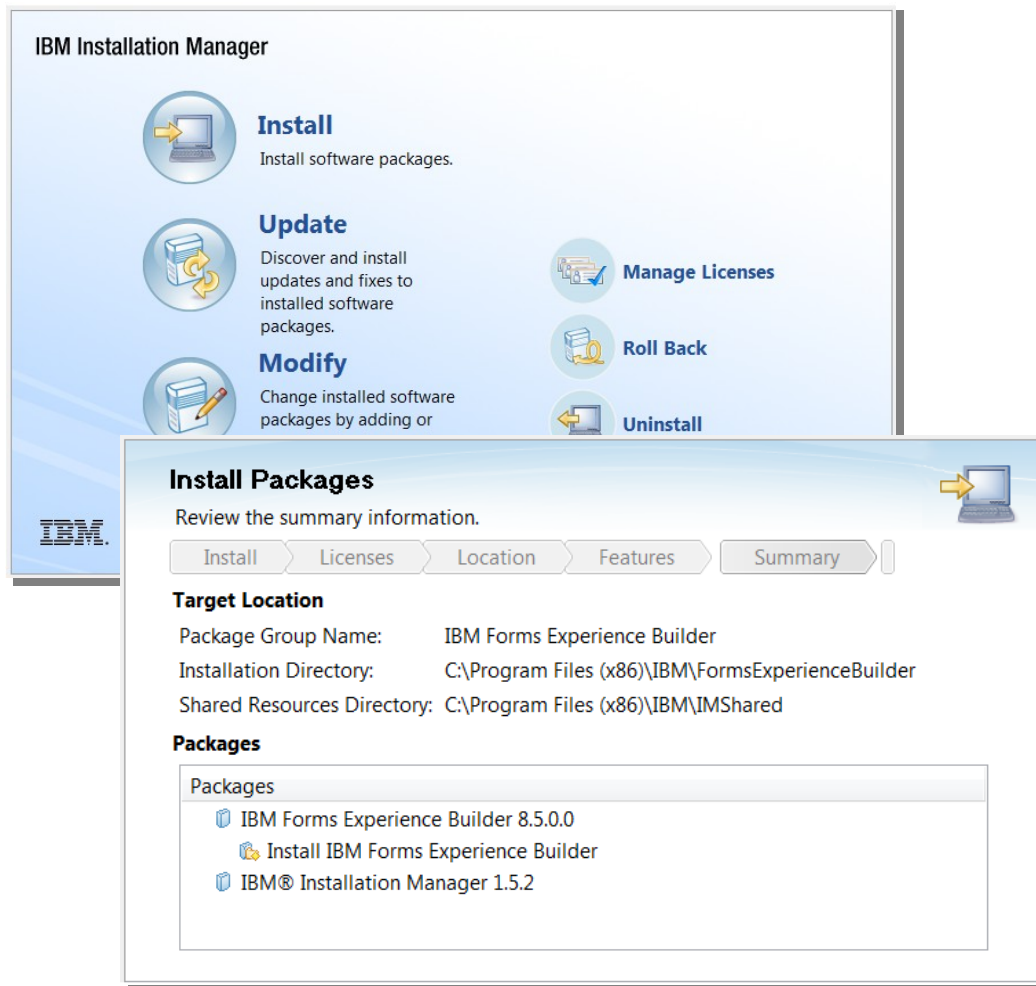
**Step 2: Application Dependencies**

✓ The applications are up-to-date.



- General solution performance has been improved
  - Revised database configuration settings to increase server performance
  - Database tuning to optimize size and I/O activity

## Faster and simpler product installation approach for FEB v8.5



- Easy to use and highly automated installation using IBM Installation Manager and Launchpad
- Installer can install a FEB server:
  - With existing WebSphere Application Server
  - With existing WebSphere Portal Server
- Installer can also:
  - Install FEB Connections Integrator for community survey enablement
  - Install out-of-the-box package of FEB with WeSphere Application Server Community Edition