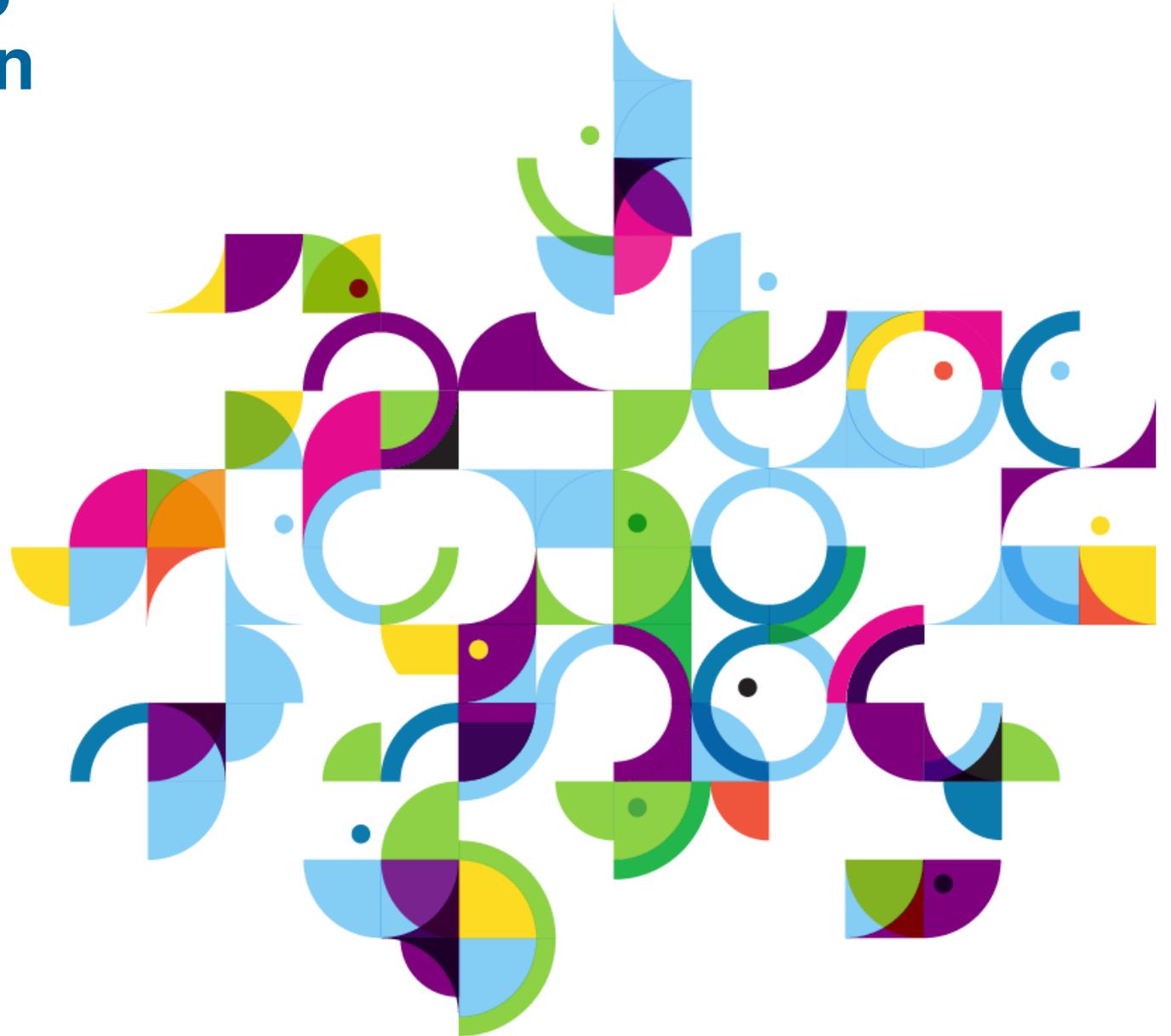# EntwicklerCamp
Opening Session

IBM

SocialBusiness

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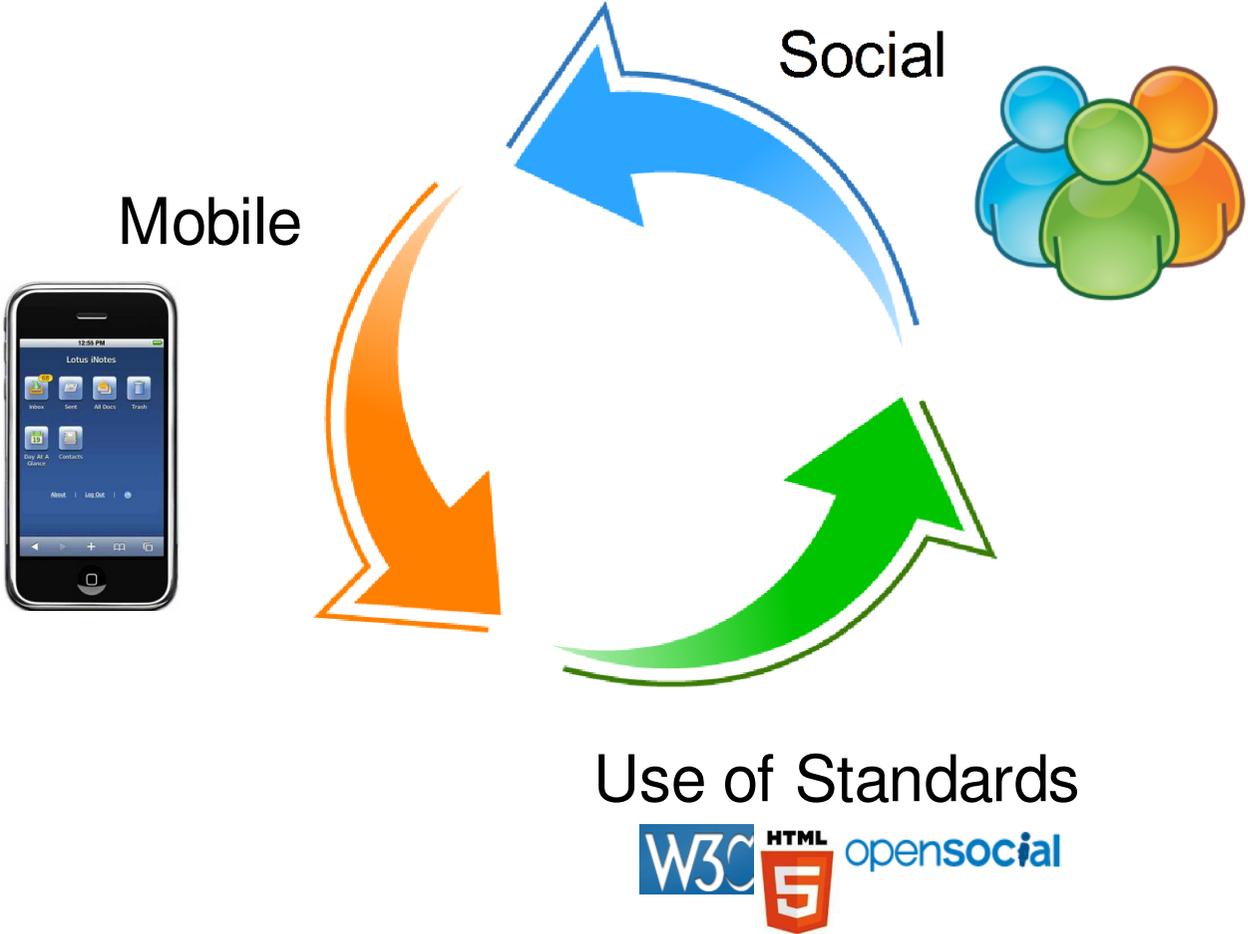
About the Presenter

- **Architect at IBM**®

  - ICS Application Development Architect

  - Lead architect for XPages and IBM Lotus Domino® Application Development

- **CTO of TrilogGroup**

  - I've been a Business Partner, in a previous life

Direction For Application Development

Social

Mobile

Use of Standards

W3C HTML5 opensocial

Social Business solutions are built on a core set of capabilities that transform how businesses engage with people and harness social intelligence

Reach people where they live and work

Connect through identities on consumer, b2b, and corporate social networks

Communicate on the associated channels

Access people social graph

Enable people to engage productively in a business context

Develop personal insights and social intelligence

Facilitate emergent processes

Monitor and analyze social data to discover new business insights

Analyze identities, social graphs, communication channels, and social content

Identify opportunities, problems, solutions, valuations, etc.
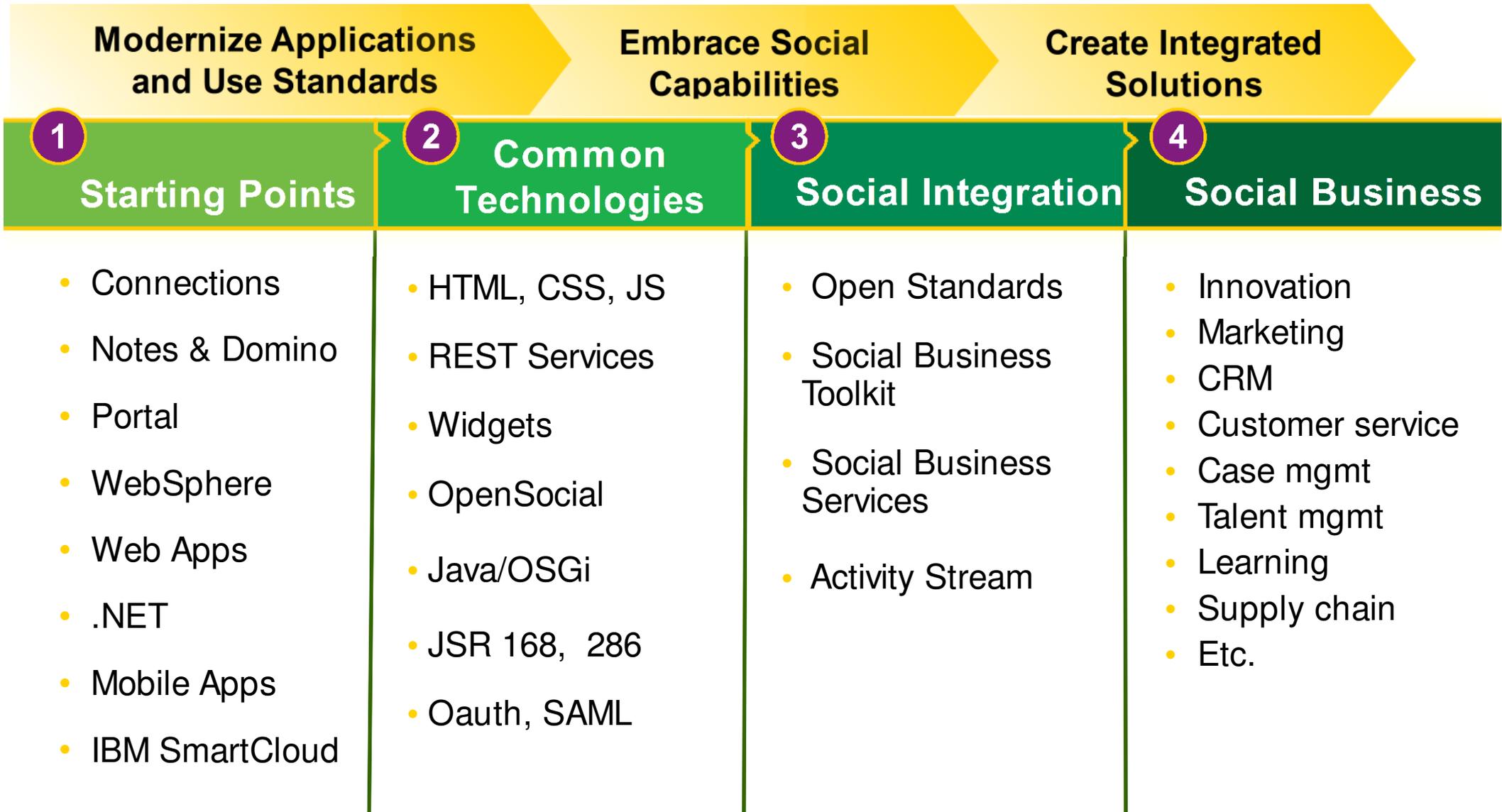
Act on insights for business advantage

Integrate social capabilities into the enterprise in order to act on new opportunities, make better decisions, optimize processes in real time, and govern and manage risk

Reach · **Engage** · **Act** · **Discover**

Developer Roadmap to Social Business

Modernize Applications and Use Standards	Embrace Social Capabilities	Create Integrated Solutions	
1 Starting Points	**2** Common Technologies	**3** Social Integration	**4** Social Business
• Connections	• HTML, CSS, JS	• Open Standards	• Innovation
• Notes & Domino	• REST Services	• Social Business Toolkit	• Marketing
• Portal	• Widgets	• Social Business Services	• CRM
• WebSphere	• OpenSocial	• Activity Stream	• Customer service
• Web Apps	• Java/OSGi		• Case mgmt
• .NET	• JSR 168, 286		• Talent mgmt
• Mobile Apps	• Oauth, SAML		• Learning
• IBM SmartCloud			• Supply chain
			• Etc.

Path for Integrating Social in our Platform

- Level 1: **Integrate** social services into existing web applications
  - Call REST services from your existing applications to add social capabilities within your business processes

- Level 2: **Embed** social capabilities in existing applications
  - Gadgets bring social capabilities to existing dashboards, without wholesale replace of the application
  - Embedded experience rendered inside containers

- Level 3: **Extract** Socially Relevant Information, analyzing.
  - Gathering application data (Likes button, ActivityStreams, StatusUpdate...) on any existing platform creates "Social data"enabling analytics.

- Level 4: **Deploy** Social application components across platforms
  - The container is the new center of gravity for the user
  - Host for third party applications – new outlet for promoting application content, access to the container social data (social graph...)
  - The applications become visible and consumable via an application market

Mobile Application Development Strategy
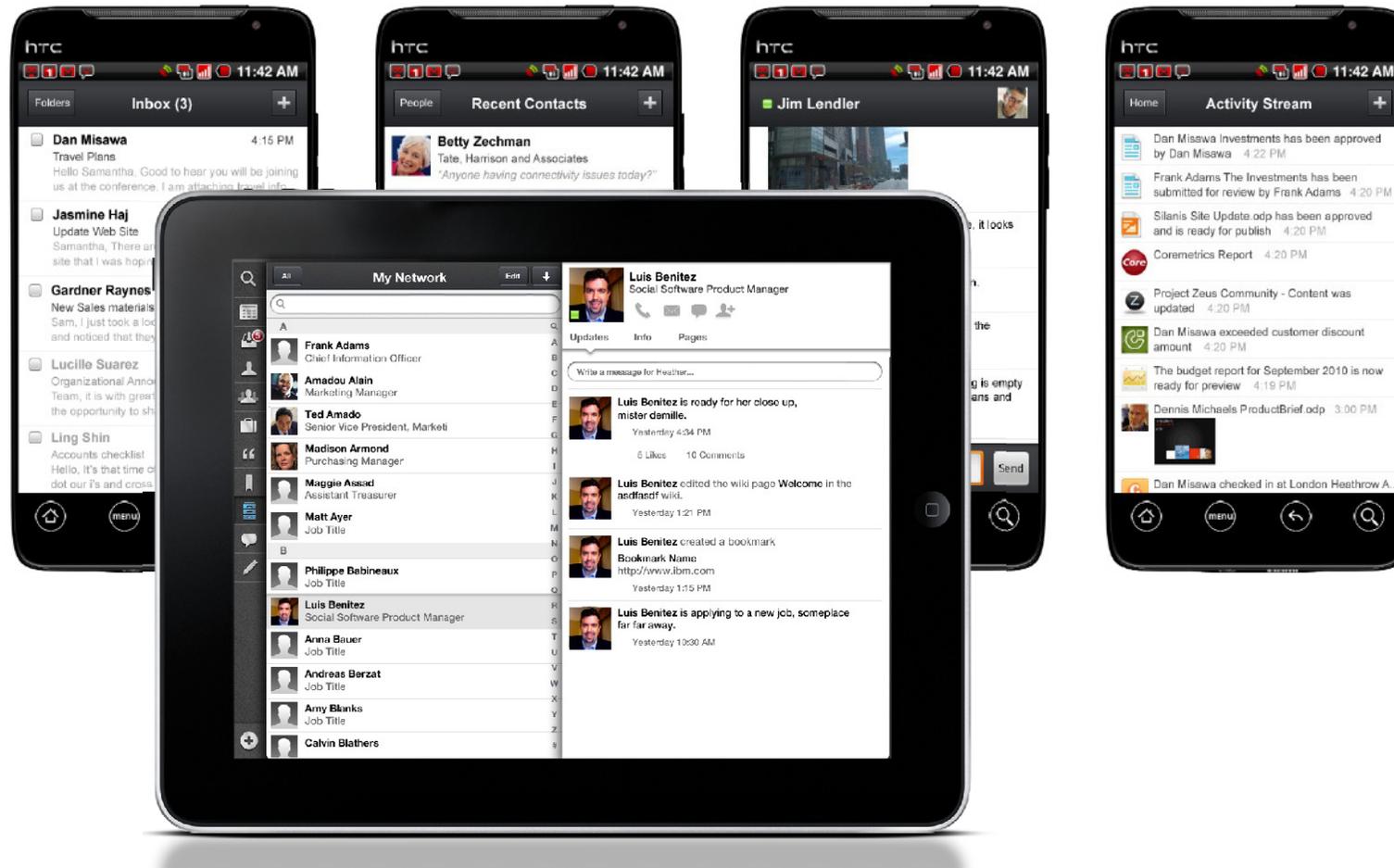
Mobile applications are changing how people work and interact with the business: Reaching users where they are, driving a higher frequency of shorter interactions
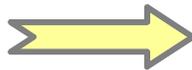
Mobile Landscape and Trends

In the past		**Today and tomorrow**
Only a few devices supported	→	Many device platforms & form factors (Smartphones, tablets, etc)
Communication focused devices	→	Social and collaboration focused devices
Phone, mail, calendar contacts, chat, SMS	→	Social collaboration, meetings, VoIP, video
Enterprise owned & controlled devices	→	"Bring your own device" – but enterprise controls management & security policies

IBM strategy: Support the needs of developers to target multiple platforms, making it easy to quickly mobilize a wide range of existing and new applications, with consistent extensibility across platforms

Choose the Adapted Mobile Experience

- Mobile web applications
  - Accessible over the internet without installing software
  - Use device browsers to provide native-looking applications
  - Built using standard web technologies (HTML5, CSS, JS)

  XPages, Web Experience Factory, RAD, Dojo...

- Hybrid applications: leverage web technology with native device features
  - Leverage standard web technologies (HTML5, CSS, JS)
  - Installed applications that use the device browser to display web-based UI
  - Provide the ability to use native device features
  - Can be distributed through an application store

  Technologies above, IBM Worklight Studio, PhoneGap

- Native applications
  - Installed applications that use all device features such as camera, accelerometer, calendar, contacts, etc.
  - Support the richest user experience (e.g., gaming applications)
  - Built using each phone's native SDK
  - Can be distributed through an application store

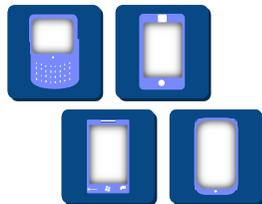 *REST Services, SDK Helpers*

IBM Worklight Overview
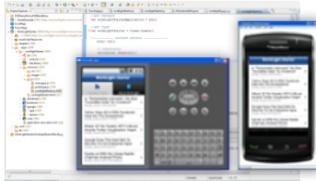
Worklight Studio
A complete, extensible environment with maximum code reuse and per-device optimization
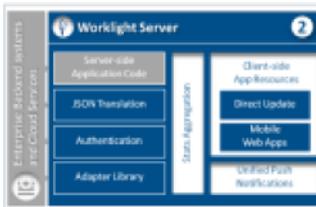
Worklight Server
Unified notifications, runtime skinning, version management, security features, integration and delivery

Worklight Runtime Components
Extensive libraries and client APIs that expose and interface with native device functionality and the Worklight server
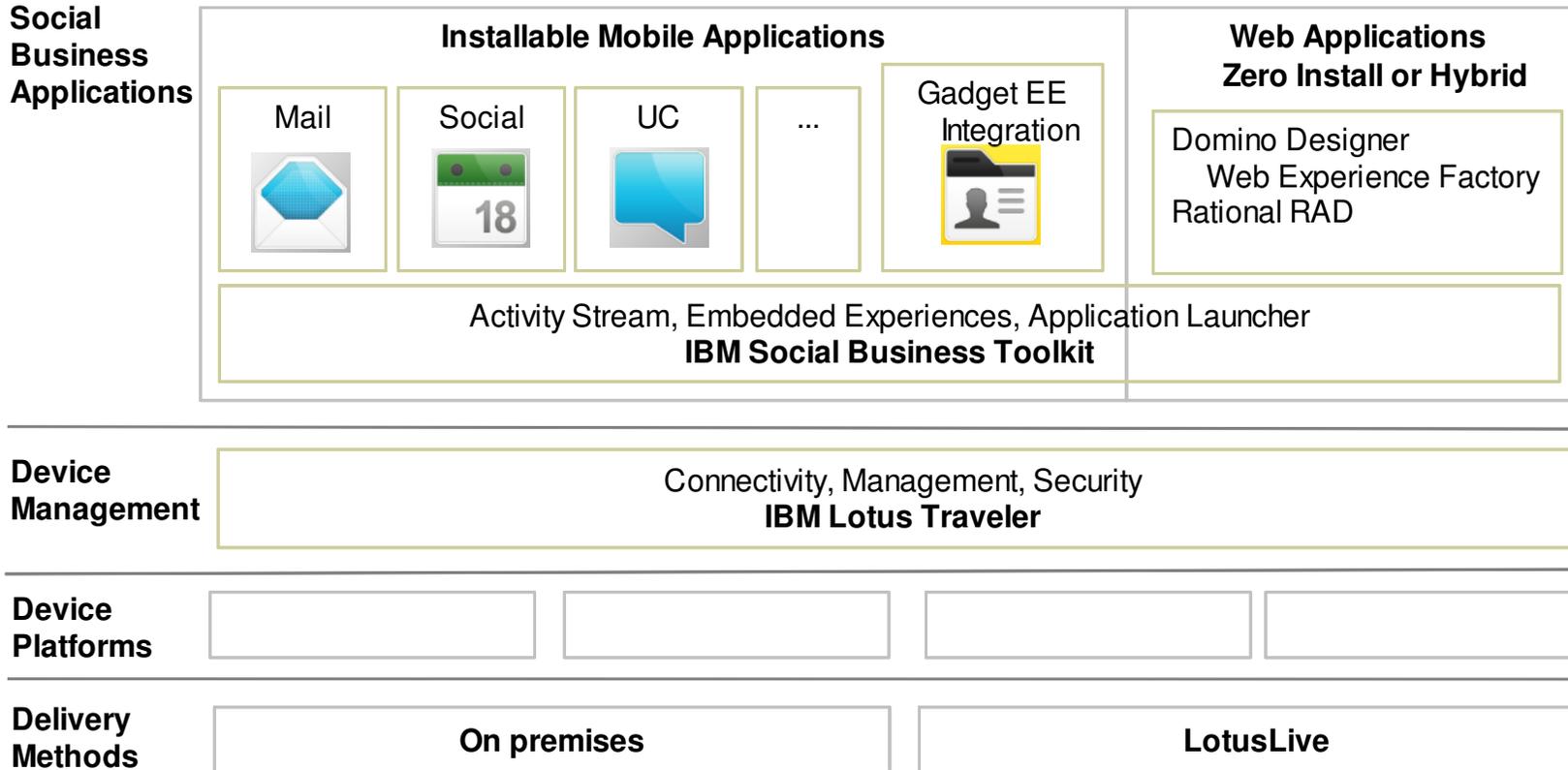
Worklight Console
A web-based console for real-time analytics and control of your mobile apps and infrastructure

Integrating Within the IBM Mobile Clients

Social Business Applications	**Installable Mobile Applications**					**Web Applications Zero Install or Hybrid**
	Mail	Social	UC	...	Gadget EE Integration	Domino Designer Web Experience Factory Rational RAD
	Activity Stream, Embedded Experiences, Application Launcher **IBM Social Business Toolkit**					

Device Management	Connectivity, Management, Security **IBM Lotus Traveler**

Device Platforms				

Delivery Methods	**On premises**	**LotusLive**

Embracing Open Standards

- A commitment to drive and leverage open web standards
  - Maximize choice, agility, and ease of integration
  - Drive enterprise innovation and leverage rapid innovation on the web
  - Minimize incremental cost of targeting additional desktop and mobile platforms
  - Leverage dominant skillsets based around web technologies

- Enabling the next generation of socially-enabled solutions on customers' existing investments and heterogeneous infrastructures

- A runtime-agnostic approach allows you to use established runtime technologies: Java, Domino, etc.

HTML5   W3C   ARIA   Atom   OAUTH   OpenAjax alliance

CMIS Content Management Interoperability Services   Activity Streams   SAML   opensocial

Enforce Reusability Across Products/Containers

Cater to Reusable Web PUBLIC Component Developers

Write Once, Run in Multiple Containers

Portal   ND XPages   UCC   C3/4   CRE/G/iW   ECM   Other IBM   SharePoint   3rd party

Containers for Development, Assembly and Deployment
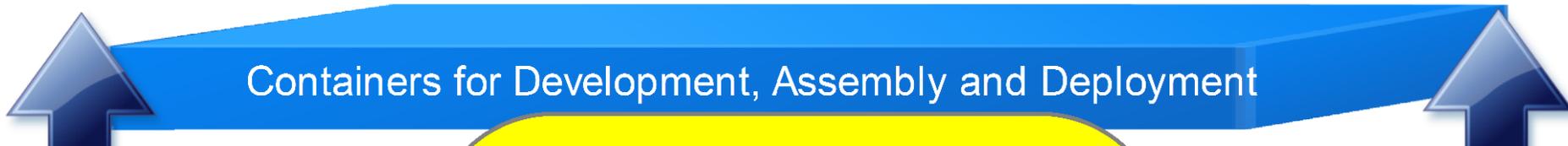
Common Spoken Web
Developer language is
HTML / **JavaScript**

True Developers
Start with Code.

PUBLICIZED - REUSABLE
Social Business Toolkit **SDK**
JavaScript/HTML Focused
Reusable dijits & plug-ins

Web Developer

REST API's (ATOM+JSON)

Social Business Services

UCC   BPM   ECM   Portal   Cognos   Connections   ....

Social Business SDK - Proposal

Server Assets
(REST services, Proxy, ...)

Code Snippets

Language bindings

Sample Applications

Documentation

Web plug-ins

Developer Patterns

Components

Features Explorer

Reusable JS dijits

dōjō

Social Business SDK
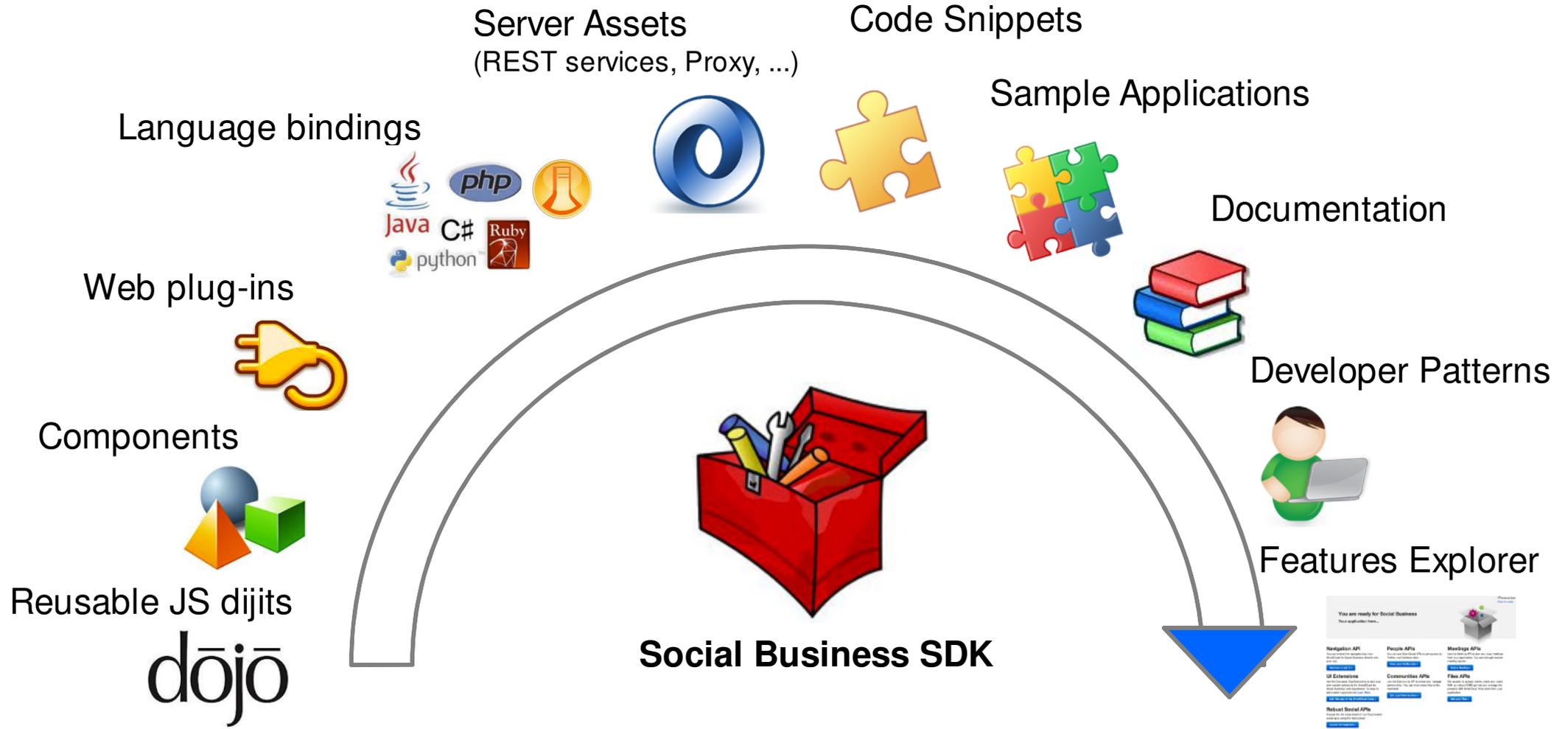
IBM Collaboration QuickStart Image for Social Business

Pre-integrated software appliance

IBM Social Business Toolkit APIs

IBM Social Business Core Modules

| Workflow and forms **Lotus Domino** | **Social collaboration IBM Connections** | Unified communications **IBM Sametime** |

Includes a directory of sample users

IBM Smartcloud
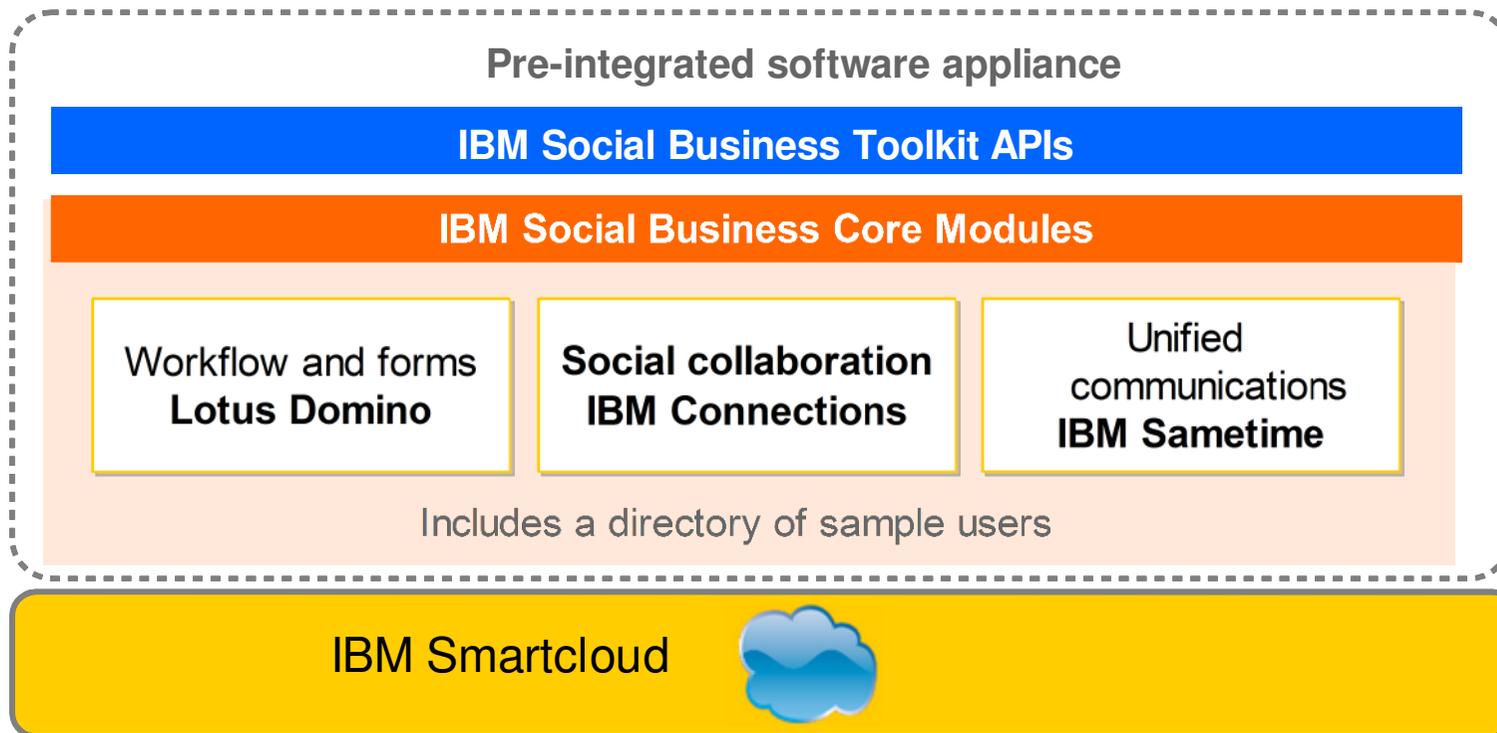
Try it now, it is available!

http://tinyurl.com/quickstartimage

Exhaustive Developer Documentation

- Consolidated App Dev Wikis for centralized, cross products, documentation
  - Connections services, Sametime, Portal & Web Experience Factory, Domino Designer...
  - Get access to the latest documentation
    - Integrates documentation into working code samples
  - 3,000 different contributors, 4,000 edit and new creation a month for about 500,000 unique visitors a month

  http://www.ibm.com/developerworks/lotus/community/wikis.html

- GreenHouse
  - Online access to the latest versions of the products
  - Experiment with the Social Business Toolkit

- xpages.info, for the Domino/XPages developers
  http://xpages.info/XPagesHome.nsf/Home.xsp
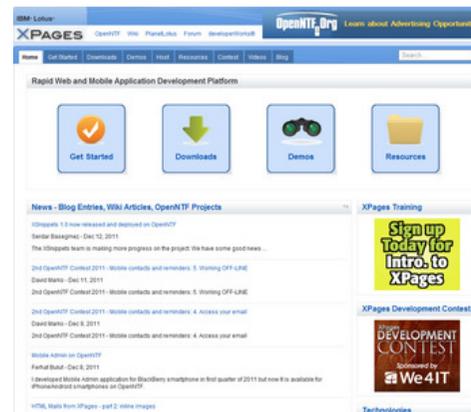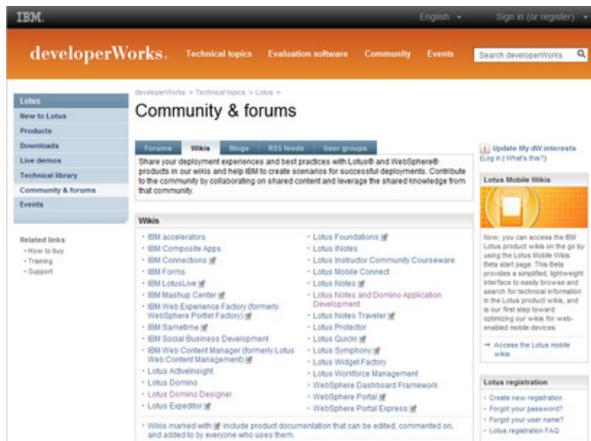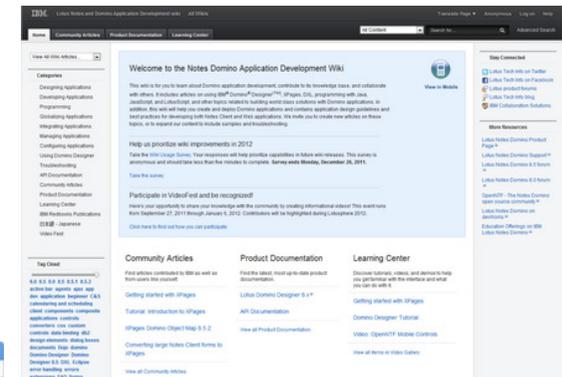
Explore the Solutions Repositories

OpenNTF is an open source community currently dedicated to the development of IBM Lotus and other IBM Collaboration Solutions offerings.

- Catalog of applications & other code assets
  - Includes live demos of applications
- Strong development community
  - 70,000 registered users
  - 18,000 downloads/month
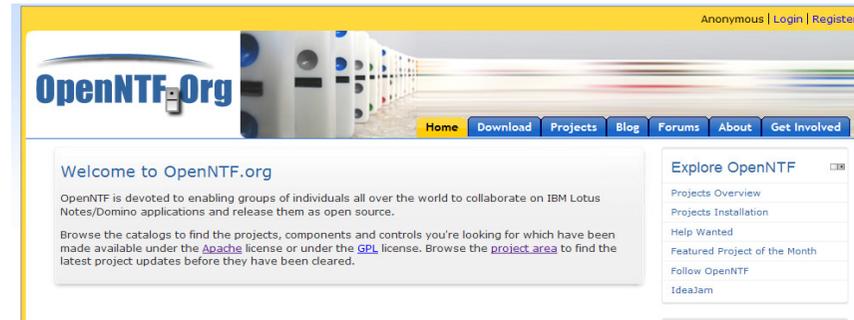
Business Solutions Catalog

- Commercial "out of the box" capabilities
- From widgets/plugins to full applications
  - **catalog.lotus.com**
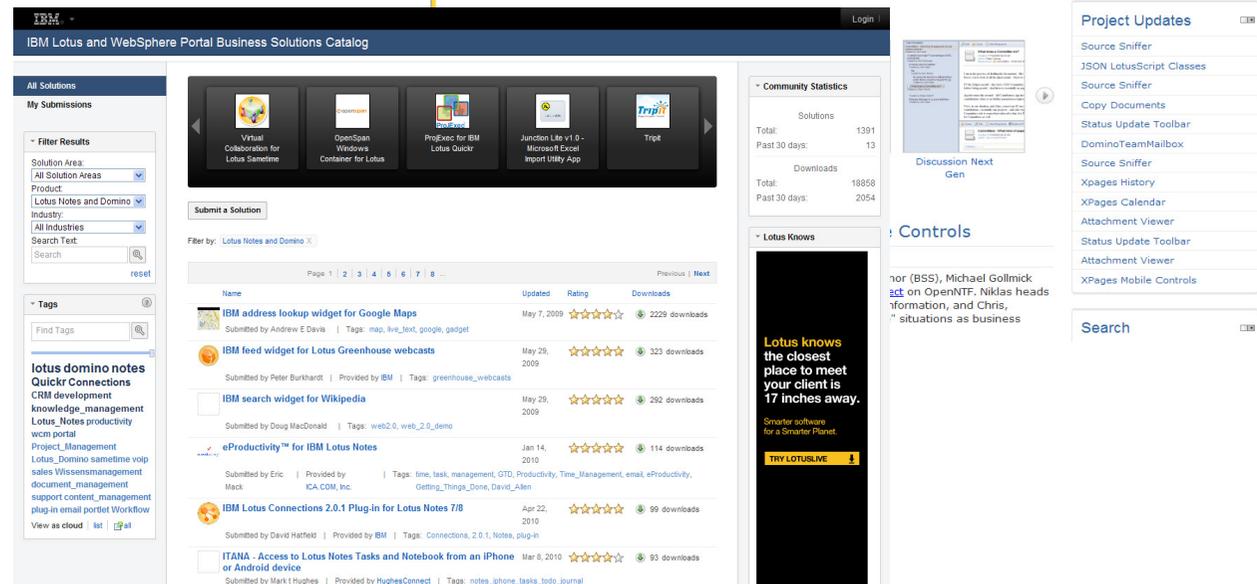
Notes/Domino Application Development

Application Development - 2011

- Themes
  - Improve ability to extend the reach of your Notes applications to the web & mobile devices
  - Modernize your existing applications to improve usability, performance and scalability
  - Improve developer productivity and facilitate team development
  - Set the stage for delivery of new capabilities
  - Re-energize our IBM Business Partner ecosystem by providing a competitive application development platform
- Releases
  - Product releases: Domino Designer, Domino, XWork Server & Notes
    - Oct 2011: 8.5.3
    - Dec 2011: 8.5.3 Upgrade Pack 1
  - OpenNTF releases
    - 91 IBM releases

2011 - The XPages Year

Niklas Heidloff | 07:17:47 AM December 21 2011

What a year for XPages, XPages developers and the community. Here is a quick

New XPages feature: Access to relational databases

New XPages feature: Social enabler

New XPages feature: Mobile controls

New XPages feature: REST services

IBM Lotus Domino 8.5.3 was released.

IBM XWork Server was released.

IBM Lotus Domino 8.5.3 Upgrade Pack 1 was released.

The first OpenNTF XPages development contest was a huge success.

The second OpenNTF XPages development contest was a huge success.

After two years of more than 20 percent growth the OpenNTF download numbers digits. There have been more than 350 new releases in 2011 which is basically

XSnippets has been built by the community for the community.

OpenNTF Inc. has been founded and has 28 company members.

IBM XWork Server

IBM XWork Server
IBM XWork Server is an application server that uses XPages technology to quickly and more cost effectively design and deploy web, mobile collaboration, and workflow applications.
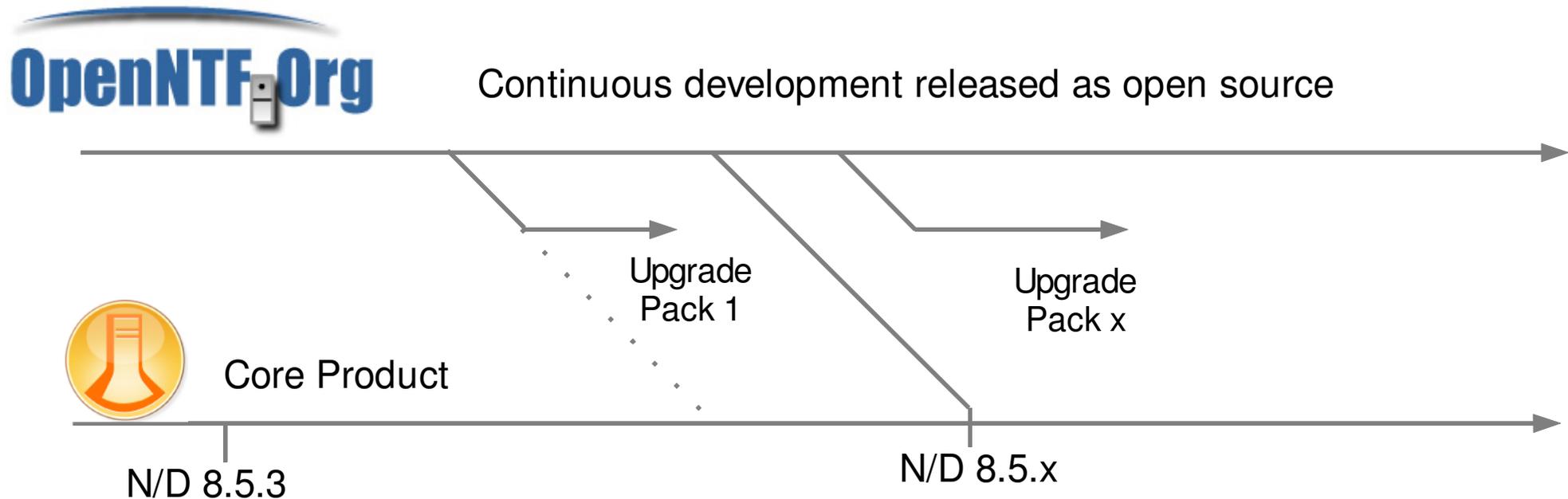
Introducing the IBM XWork Server
The IBM XWork Server provides an XPages Application Server for your social applications that will help you to extend applications to web and mobile devices, and connect applications to social communities for broader knowledge sharing. XWork Server leverages XPages technology from Lotus Domino and Domino Designer 8.5.3. More >

- New offering designed for ISVs and IBM Business Partners who need a well-priced and easy to sell XPages based offering that allows them to quickly develop and deliver collaborative social business applications for web and mobile devices.

- Provides an attractive and VERY simplified pricing and packaging approach for XPages technology via a lower, fixed term license cost. It lowers the cost of the technology to the customer.

- Allows partners and ISVs to deliver their existing IBM Lotus Domino applications to new customers

- Delivers eXceptional Work experiences

- Offering is based on Lotus Domino Utility Server but with license restrictions
    - 4 applications only
    - 4 .NSFs per application
    - Additional applications supported via additional license (up to 8 apps)
    - Replication is restricted to other IBM XWork Servers

Product, Upgrade Packs and Open Source

- Deliver new functionality through off cycle Upgrade Packs
- The code is first released on openNTF
  - Available early and gives full transparency on what is being done
- Pieces from openNTF are extracted and delivered as Upgrade Packs, supported by IBM
  - Upgrade packs are delivered on a shorter release cycle than products
- Upgrade Packs are integrated into the next revision of the product

OpenNTF.Org

Continuous development released as open source

Upgrade
Pack 1

Upgrade
Pack x

Core Product

N/D 8.5.3

N/D 8.5.x

- There is a re-prioritization of the XPages Social Enabler to align it with the Notes Social Edition, thus the planned Upgrade Pack 2 will be make available after Notes Social Edition

XPages Key Themes For 2012

- Keeping up with the latest standards/libraries
  - OneUI v3.x
  - Dojo 1.7 or later
  - Integrate Upgrade Pack 1++ into Notes/Domino core
- Mobile
  - New themes, like BlackBerry and iPad
  - Leveraging more Dojo 1.7 mobile controls
  - Integration with the Worklight product line
  - Templates (discussion DB, teamroom, document library...) with a new mobile UI
- Social
  - Connecting to the broader IBM social platform
    - Connections 4, including the activity streams
  - Support for gadgets and embedded experience
  - OAuth consumer, and attempt for a Domino OAuth provider
- Performance
  - Optimization of the back-end classes
    - Reducing the # of calls to the NIF layer
    - Reducing the number of spin locks in the NSF/NIF layers when heavy loads are requested
  - Integration of the Apache HTTP server

XPages Extension Library
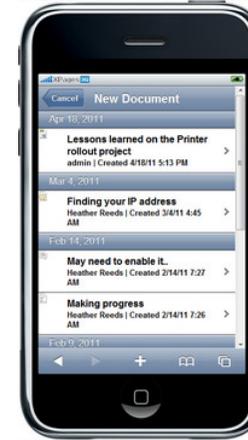
- Get a rich Web UI faster than ever
- Greatly improves developer productivity
  - 100+ native XPage controls (drag → drop → configure)
  - Integrated within Domino Designer
  - Extensions delivered as plugins that run on Client and Server
- Web 2.0 controls/behaviors
  - Brings those long sought after client behaviors to the web
    - Dialog boxes, pick lists
- Targets mobile devices
- Source code, so you can see examples and try for yourself
- Includes a comprehensive demo application
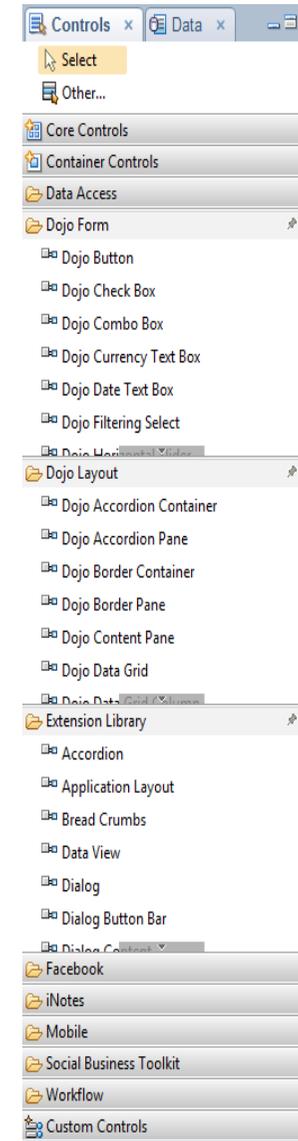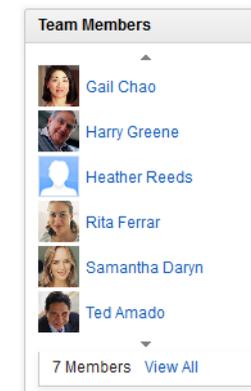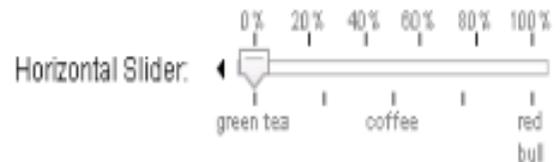
IBM Lotus Domino and Worklight together

IBM Lotus Domino and IBM Worklight used together can extend the capabilities and reach of a Domino XPages app
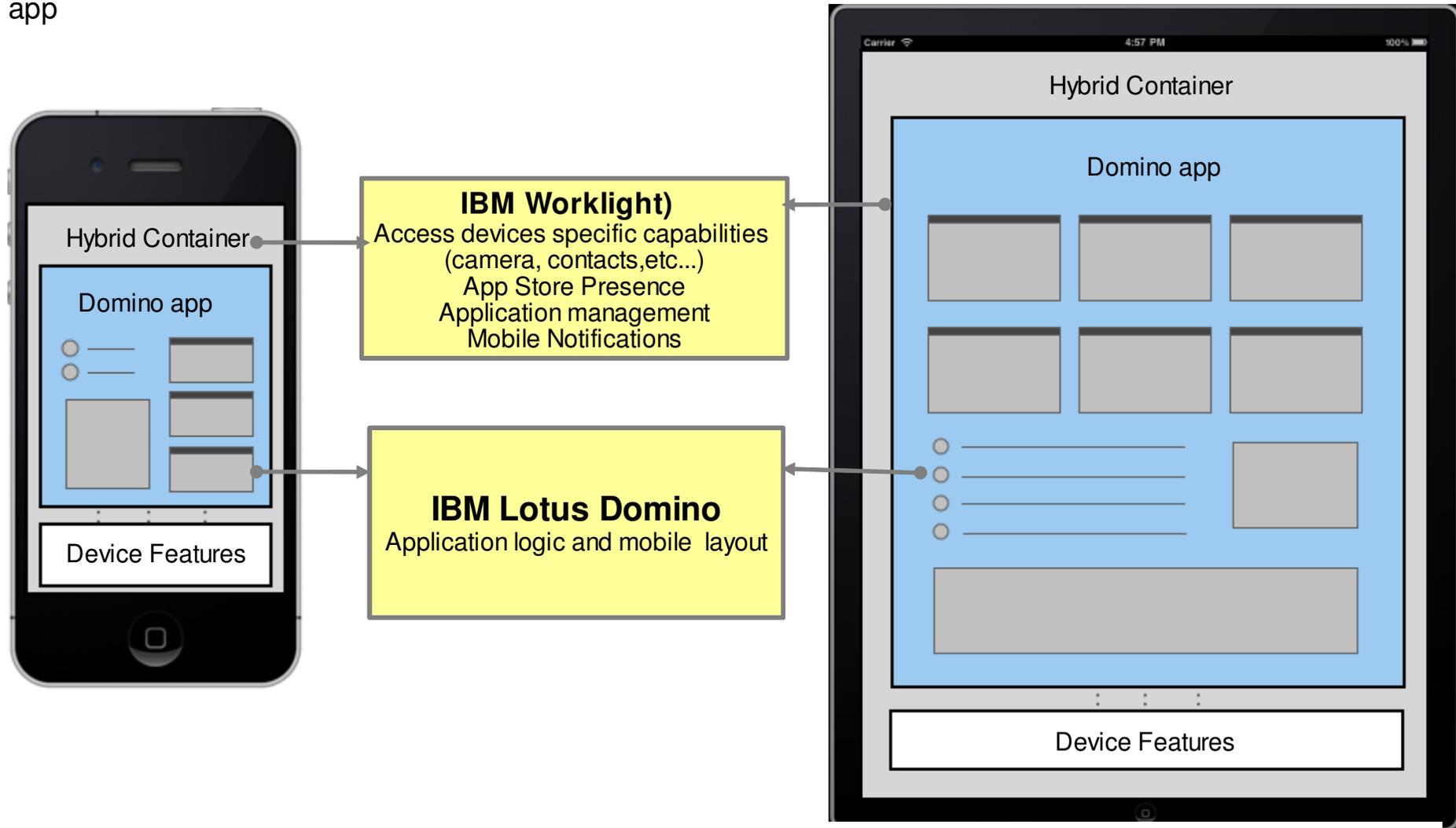
Hybrid Container

Domino app

Device Features

IBM Worklight)
Access devices specific capabilities (camera, contacts,etc...)
App Store Presence
Application management
Mobile Notifications

IBM Lotus Domino
Application logic and mobile layout

Carrier 4:57 PM 100%

Hybrid Container

Domino app

Device Features

Programmability Themes For 2012

- Extending our APIs to "Social Mail"
  - Calendar API
    - "C", Java and LotusScript APIs should be available in N/D next
    - REST will be provided first on openNTF...
  - Mail API
    - Started to be delivered on openNTF

- Tasklet
  - Integration of the popular "OSGi tasklet" for Domino available on openNTF

- LotusScript serviceability
  - Extending the LotusScript stack information in NSD
  - Enhance diagnostic for error messages, such as a variable not properly set

- XPages XFlow contributed to openNTF
  - Workflow framework that provides a set of XPages controls and a common interface to engines
  - Comes with a basic engine

Designer Key Themes For 2012

- Improving the developer productivity and overall experience

- Enhancing the XPages experience

- Improving the source control experience and continuous integration

- Extend the support of the extension library

Designer: JavaScript Debugger!

Designer: XPages Code Completion!
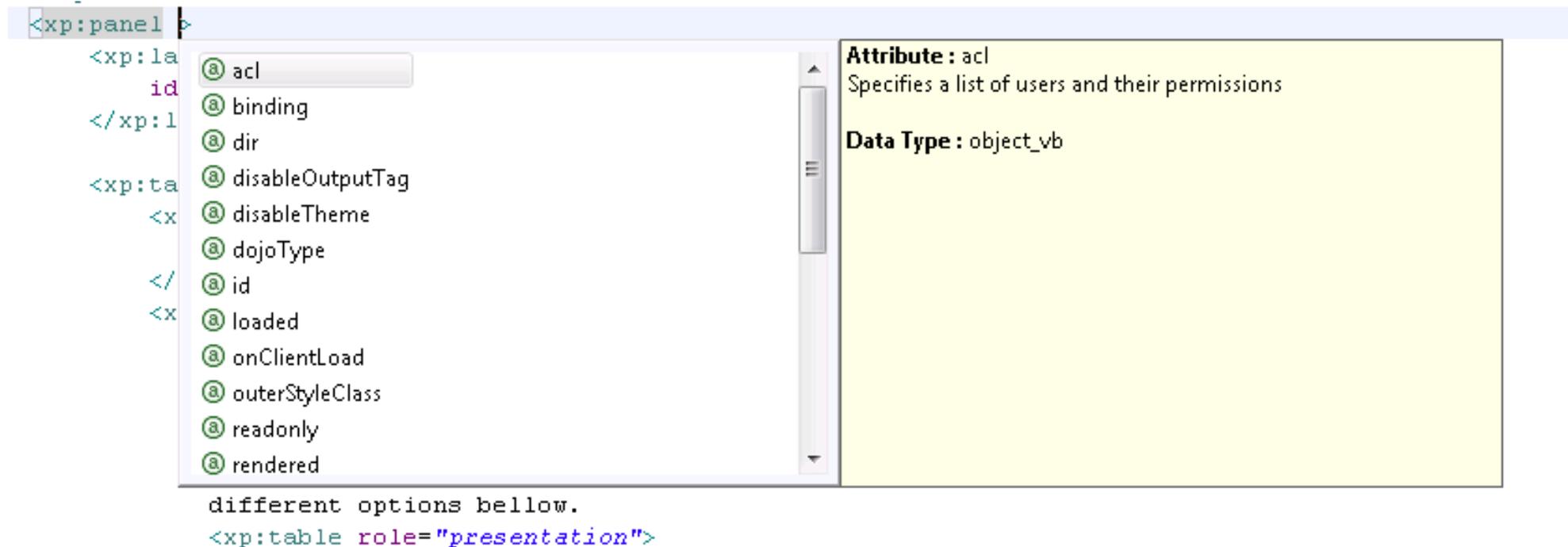
```
<xp:panel >
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    </xp:l

    <xp:ta
        <x

    </
    <x
```

ⓐ acl		**Attribute :** acl
ⓐ binding		Specifies a list of users and their permissions
ⓐ dir		
ⓐ disableOutputTag		**Data Type :** object_vb
ⓐ disableTheme		
ⓐ dojoType		
ⓐ id		
ⓐ loaded		
ⓐ onClientLoad		
ⓐ outerStyleClass		
ⓐ readonly		
ⓐ rendered		

```
different options bellow.
<xp:table role="presentation">
```

Designer: Command Line Build for NSF/NTF

Thank you!

Q&A