



## Web Part Based Application Development in SharePoint 2007

## European Microsoft SharePoint Conference 2007

Dan Kruger, Eddy Ng, Xiang Chen  
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Convention Center  
Hotel Estrel, Berlin, Germany

 Microsoft®  
**Office SharePoint®  
Server 2007**

# Workplace Architects

- Company History
  - Previously Ability Engineering Consulting
  - First SharePoint application deployed in 2003
  - Began developing webarts in 2004
  - Changed to Workplace Architects in 2004

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# What is SharePoint?

- Common perceptions:
  - SharePoint is a portal for semi-static content
  - SharePoint is a replacement for my departmental file shares
  - SharePoint is a group of team sites for short term projects
- Our perception:
  - SharePoint is an enterprise-class application development platform
- What kind of apps?
  - Sustained collaboration
  - Process applications
  - Composite applications

# Key Capabilities

Capability	Application
Parent-Child Relationship	Inherit information from any list (auto-fill), update information in on or more lists
Centralized Lists	Single lists that can be consumed and updated in multiple applications across sites
Data Aggregation	Tables, Charts, and Calendar views of multiple lists and multiple sites
Persistent Filtering	Stack multiple work pages in the one site
Internal and External Data	Composite Applications

# Demo 1 – SharePoint 2007 Web Parts

The screenshot displays a SharePoint 2007 web application interface. At the top, the site title is "Multi Project Workspace" and the user is identified as "Welcome Administrator". The navigation bar includes "Home", "Tasks", "Schedule", "Issues", "Project Info", "Libraries", "Administration", and "Site Actions". A red arrow points to the "Administration" link, labeled "WA Cascading Menu".

On the left side, there is a "Projects" sidebar with a "Recycle Bin" link. A red arrow points to this sidebar, labeled "WA Panel Menu".

The main content area shows a "Select a Project" dropdown menu with "Multi Project 1" selected. A red arrow points to this dropdown, labeled "WA Persistent Selector".

Below the dropdown is a section titled "Active Tasks - sorted by Due Date, Priority". It contains a table with columns: Title, Assigned To, Status, Priority, Due Date, and Hrs Rem. A red arrow points to the table, labeled "WA List View".

Title	Assigned To	Status	Priority	Due Date	Hrs Rem
Phase Name: Phase 1.1					
Follow up with John Smith about purchase order	Eddy Ng	(2) In Progress	(1) High		
Perform code review on the latest build	Eddy Ng	(1) Not Started	(2) Normal		
Call Maggie Cheung for purchase confirmation	Accountant User	(1) Not Started	(2) Normal		
Phase Name: Phase 1.2					
Meeting with HR for new recruitment	Eddy Ng	(1) Not Started	(1) High		
Call Dan Kruger for payment	Accountant User	(1) Not Started	(2) Normal		

# Composite Applications/SI Web Parts

- What I need is where I am (Universal UI)
- Use data from any web service
  - View
  - Edit
  - Delete
  - Create
- Integrated views of SharePoint and External Data
- Relate SharePoint and external data
- Web service discovery
- SDK-build simple configurators for non-developers

# WA System Integration Web Parts

- WA System Integration Web Parts complements BDC rather than competing
- Generic and powerful solution for composite applications for SharePoint 2003 and MOSS 2007
- Custom Web Parts with added values to support for various business solution needs without writing a single line of code
  - Offer rich set of custom Web Parts: List View, List Form, Chart View, and Persistent Selector
  - Customize Web Parts behavior by defining custom actions to be associated with different user interface and context
- Simplified development and configuration cycle
  - Configure SI Web Parts just like other WA Web Parts or Microsoft Standard Web Parts
  - Do not require to configuring a Shared Service Provider first and have no dependencies on pre-defined BDC Catalog
  - Use standard Web Part Modify Properties tool, FrontPage, or built-in Web Part Configurator
  - Users gain instant access to Business Data through System Integration Web Parts
  - Single approach to back end data without developers needing to program against multiple API's

# Demo 2 – System Integration Web Parts

**This example page demonstrates the advanced feature of System Integration ListView Web Part.** Very often users want to be able to display information as Master-Detail view where they can drill down to one or more level of details without navigating away from the current page. Other examples in this demo show how you can use ListView and ListForm to display or edit details of a ListView item. This example allows you to view item detail without leaving the current page and with AJAX you do not see a page reload.

**CRM Invoices and Details**

 View In Chart

Name	Invoice	Description																		
<input type="checkbox"/> Hitch rack order	INVS01	Bike Universe order for 4-bike hitch racks																		
<input type="checkbox"/> Brakes	INVS014	Solid Bike Parts order for 20 brakes, front and rear																		
<table border="1"><thead><tr><th>Tracking Number</th><th>Shipping To</th><th>Shipping Address</th><th>Shipping City</th><th>Shipping State</th><th>Shipping ZipCode</th></tr></thead><tbody><tr><td>TRKSO14021016</td><td>555-0171</td><td>Northwest Colorado Blvd.</td><td>Denver</td><td>CO</td><td>10046</td></tr><tr><td>TRKSO14021016</td><td>555-0165</td><td>Northwest Colorado Blvd.</td><td>Denver</td><td>CO</td><td>10046</td></tr></tbody></table>			Tracking Number	Shipping To	Shipping Address	Shipping City	Shipping State	Shipping ZipCode	TRKSO14021016	555-0171	Northwest Colorado Blvd.	Denver	CO	10046	TRKSO14021016	555-0165	Northwest Colorado Blvd.	Denver	CO	10046
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TRKSO14021016	555-0165	Northwest Colorado Blvd.	Denver	CO	10046															
<input type="checkbox"/> Women's mountain bike order	INVS04	Vast Bike Sales and Rental order for Mountain-400-W																		
<input type="checkbox"/> Mountain bike order	INVS03	Specialty Sports Store order for Mountain-200 Black, 38																		
<input type="checkbox"/> Sport-100 Helmet order	INV170	Recreation Supplies blue Sport-100 helmet order																		

Change page: < 1 2 3 > | Displaying page 1 of 3, items 1 to 5 of 15.

# Q&A

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\* English US version