



Sharepoint 2007

White Paper

Abstract

This paper describes some new Sharepoint 2007 features

Sharepoint 2007

Revised by Chris Rindal
QA Technician, Tometa Software, Inc.

Tometa creates custom software for you

Tometa Software designs and develops robust software solutions for virtually all industries including in-house (vertical market) and retail software, some of which is on the shelves at your local software store. We focus our unique combination of creative, technical, and problem-solving skills on meeting our client's objectives. Because of our clarity of purpose, commitment to process, and broad professional skill sets, we are able to provide our clients with world-class solutions that are functionally superior and fully aligned with our client's strategic focus.

Balancing development speed, quality and cost is what we are all about. Tometa combines agile development practices with fixed pricing, so you know what the cost, end product, and delivery time table look like—up front. If we underestimate the effort, we complete the overrun on our dime. Simple as that. That's why large enterprise firms like Alcoa and NASDAQ choose Tometa.

Tometa's agile development expertise and low-overhead US location keep our prices comparable to offshore vendors – without offshore challenges. Using a fixed pricing model, we provide upfront visibility into a project's ultimate costs, end product and delivery schedule. Our clients like knowing that we have “skin in the game” – a fixed price that aligns our goals with yours, incenting us to get the job done right and fast.

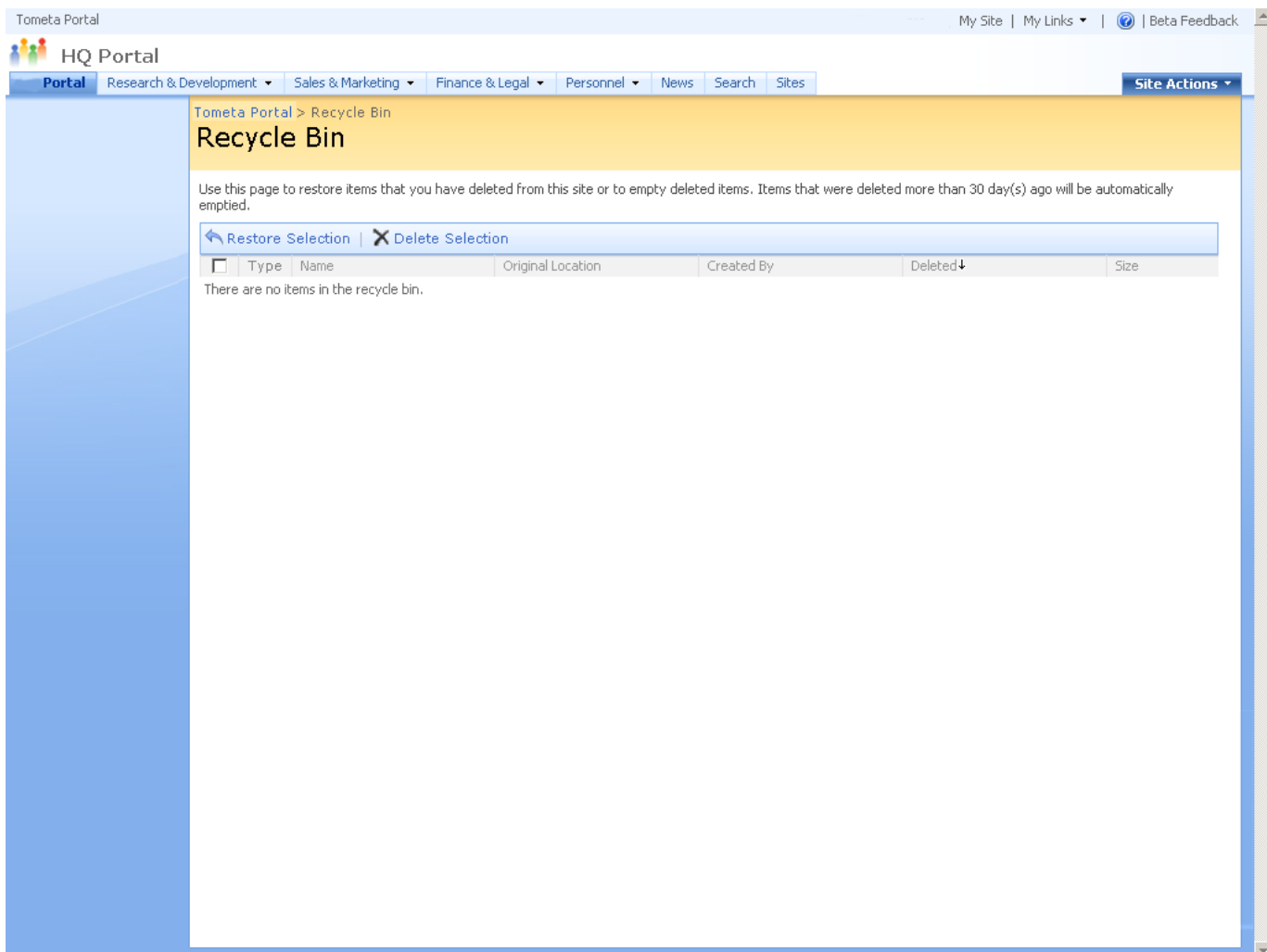
Lastly, as a Microsoft Certified Gold Partner, Tometa Software, can customize its products or create custom web, client/server, and traditional applications. With programming experience in C#, C++, Visual Basic, CGI, HTML, RPG, Delphi, Java and many others; Tometa Software is uniquely positioned to meet your needs as a development firm.

[Check us out today](#)

On Sharepoint 2007 we can find more than 100 new functionalities, where the most important are:

Content and Document Management New Features

- Recycle bin for deleted items
- Automated migration of CMS sites to the new Sharepoint based architecture
- New version of CMS will be built natively on WSS architecture
- Frontpage wizard for workflow development
- Reusable column (field) definitions



Integration With Enterprise Systems New Features

- Ability to create both browser based and client based InfoPath forms

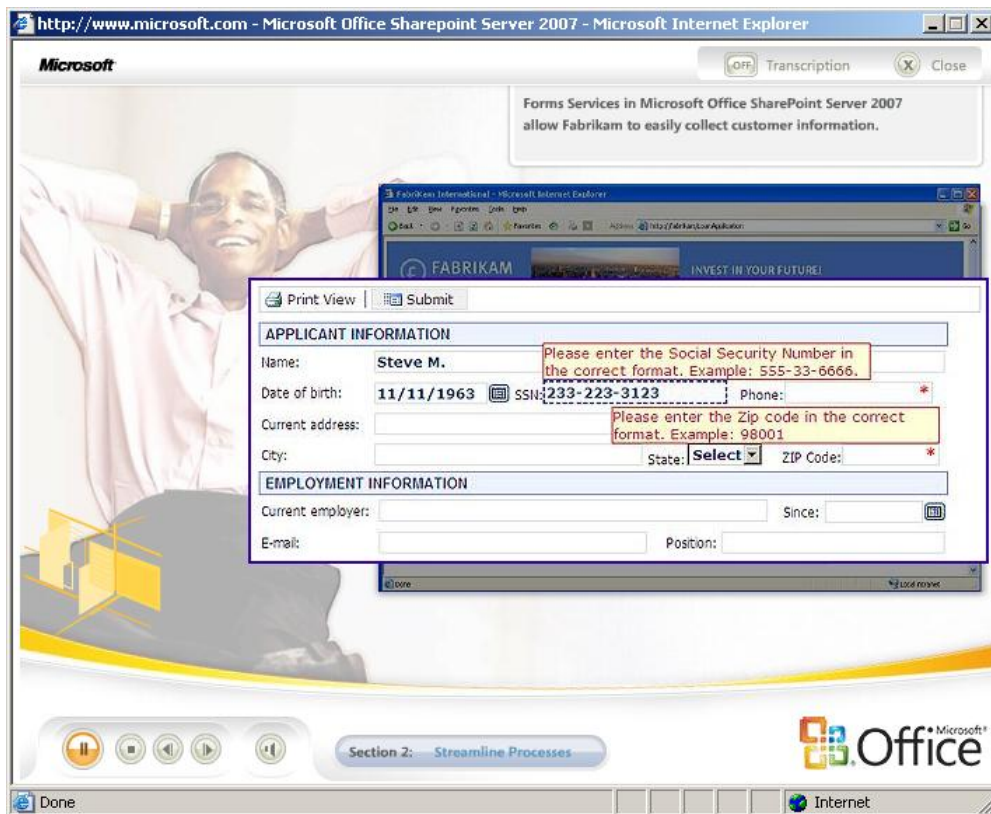


Tometa Portal > Finance & Legal > Expense Forms

Expense Forms

- View All Site Content
- Documents**
- Shared Documents
 - Pictures
 - Contracts
 - Expense Forms
- Lists**
- Calendar
 - Tasks
- Discussions**
- Team Discussion
- Official Records**
- Documents
 - Lists
- [Recycle Bin](#)

Type	Name	Modified	Modified By	Checked Out To	Report Date	Total	Name
	Peter - June	7/5/2006 7:33 PM	Peter Seller		6/29/2006	592.6	Peter Seller
	Alex - June 06	7/5/2006 7:25 PM	Alex Korchemniy		6/30/2006	650	Alex Korchemniy



Integration With Office New Features

- Use of Sharepoint sites for email archiving
- Rendering of spreadsheets as HTML
- Access will treat Sharepoint site data as datasources
- Ability to insert a slide into PowerPoint from a WSS "Slide Library"

Lists And Data Management New Features

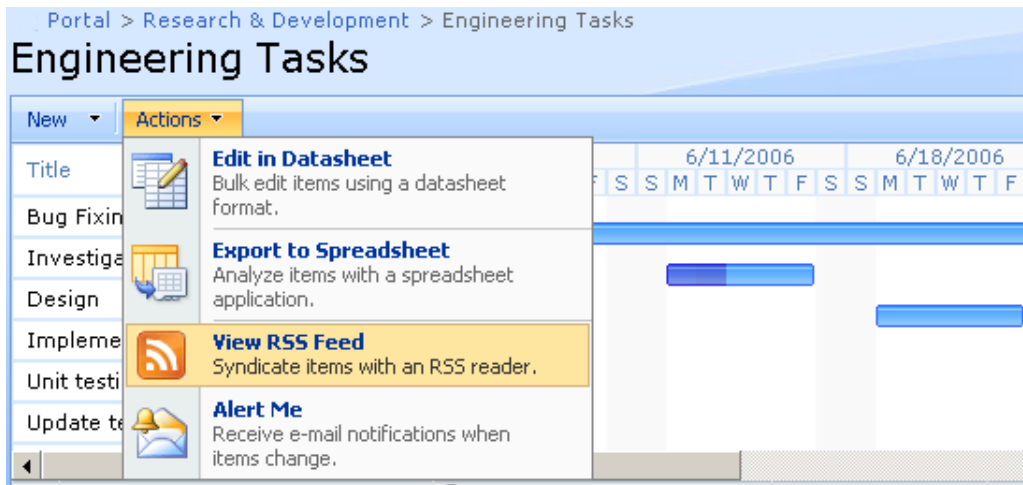
- Ability to create forms with ASP.Net controls
- Ability to create custom data field types with validation
- Version history for all list and library, showing what changes were made
- Lists view available in any list type with date fields
- Lists can receive incoming email and extract data
- Better filtering, sorting, navigating in views
- Folders available with all lists, with custom folder properties
- Lookup fields can reference fields on lists and libraries on other sites

Maintenance And Support New Features

- Multiple options for upgrading to new version

RSS And Data Export New Features

- Content can be syndicated via RSS on a per-site or per-list basis
- Ability to send Sharepoint lists to mobile devices



User Interface And Presentation New Features

- Easy global change of UI via master pages
- More out-of-the-box support for multilingual deployments

Workflow New Features

- Multi-step serial and parallel workflows using WWF workflow templates
- Users can participate in workflow from wherever they are editing – via Sharepoint, Outlook, or the document itself. Workflows can be initiated from Sharepoint or the document
- Workflow can be associated with documents, content types or libraries

So as to detail one of the most important functionalities in Sharepoint 2007, in next section can be seen how to work with Workflows.

Workflows

Information workers who created and worked with documents were part of often loosely defined business processes. Those processes have remained elusive, and until now they have been difficult to define with any degree of precision or reproducibility .

With the 2007 Microsoft Office system, information workers and developers can answer that question by associating a workflow and workflow activities to a document library, list, or content type that is part of a Microsoft Windows Sharepoint Services site. Workflows provide a solution to automating business processes related to document creation and management.

Workflows and Activities

The workflow functionality in Windows Sharepoint Services is based on the Windows Workflow Foundation (WF).

WF also provides tools for the development and execution of workflow based applications.

You can create two kinds of workflows based on WF or you can create a type of Windows Sharepoint Services.

State machine Workflows and Sequential workflows.

State machine Workflows

They must be modeled as templates for human-based workflows and represent states, transitions, and actions. One state can be the start state, based on an event where a transition is made to another state. You can have a final state ending the workflow. This kind of workflow is useful for capturing processes that can be modified as they run.

Sequential Workflows

They must be modeled as flowcharts and are useful for system-oriented workflows. They are a sequence of steps. These workflows can be affected by external events so the way of activities executed can vary.

The concepts in WF are the workflow and the activities. A workflow represents a set of activities coordinated by events which are compiled into a .Net assembly. An activity is a .Net class with methods and properties and events. A workflow runs by executing the methods in the activities.

On a workflow you will be able to associate a business process to items on a site.

Microsoft Office Sharepoint Server 2007 uses of Windows Sharepoint Services for sophisticated workflows.

Some samples are:

- Moderation
- Approval
- Issue tracking
- Collecting feedback
- Collecting signatures

WF is integrated with Microsoft Exchange and Microsoft Office Outlook where you can see on a task list with tasks generated by workflows.

Microsoft Office Access can also take advantage for reporting.

Windows Workflows Foundation Run-Time Engine

This engine manages workflow execution and keeps activity for long periods of time surviving to machine reboots.

Too provides services to workflow applications with support for sequencing, state management, tracking capabilities and transactions.

Windows Sharepoint services has its own implementations of services for transactions, persistence, notifications roles, tracking, and messaging, all exposed through the WSS object model.

Custom Workflows

With the WSS workflow activities you can define sophisticated workflows.

When you need to create your own activities, you can do it with managed code in Microsoft Visual Studio 2007. They can be created with Microsoft Office Sharepoint Designer 2007 and with the Microsoft Visual Studio 2005 Designer for WWF, or can also be customized with the user interface in Windows Sharepoint Services itself.

It is needed to create a form or a series of forms for associating and configuring the workflow.

You can build them using Office Sharepoint Designer that generates .aspx pages.

You can build them using Visual Studio and Microsoft Office Infopath 2007 forms.

You can create a workflow with graphical elements, XML specification, code, or a combination of these.

Workflow authors use and extend the workflow model in the same way they use and extend other elements of the Microsoft .Net Framework

Research & Development

- Portal
- Research & Development**
- Sales & Marketing
- Finance & Legal
- Personnel
- News
- Search
- Sites

Site Actions

Tometa Portal > Research & Development > Designs > Workflow Status

Workflow Status: Collect Feedback

Workflow Information

Initiator: Peter Seller **Document:** New UI
Started: 6/6/2006 **Status:** In Progress

- Update active tasks
- Add or update reviewers
- Cancel this workflow

Tasks

The following tasks have been assigned to the participants in this workflow. Click a task to edit it. You can also view these tasks in the list [Tasks](#).

Assigned To	Title	Due Date	Status	Outcome
David White	Please review New UI	6/27/2006	Not Started	
David Claff	Please review New UI	6/27/2006	In Progress	

Workflow History

View workflow reports

The following events have occurred in this workflow.

Date Occurred	Event Type	User ID	Description	Outcome
6/6/2006 12:30 PM	Workflow Initiated	Peter Seller	Collect Feedback was started. Participants: Peter Seller, David White	
6/6/2006 12:30 PM	Task Created	Peter Seller	Task created for John Rand. Due by: 27/06/2006 00:00:00	
6/6/2006 12:30 PM	Task Created	Petter Seller	Task created for David Claff. Due by: 27/06/2006 00:00:00	

Sharepoint Workflow Designer

Workflow Designer

Step Name:

Specify details for 'Schedule studio'

Choose the conditions and actions that define this step of the workflow:

Conditions ▼ If Task Status equals Approved

Custom Condition (Video Productions) Video Productions:Created By

- Title field contains keywords
- Modified in a specific date span
- Modified by a specific person
- Created in a specific date span
- Created by a specific person
- Advanced Condition

Workflow Designer

Define your new Workflow

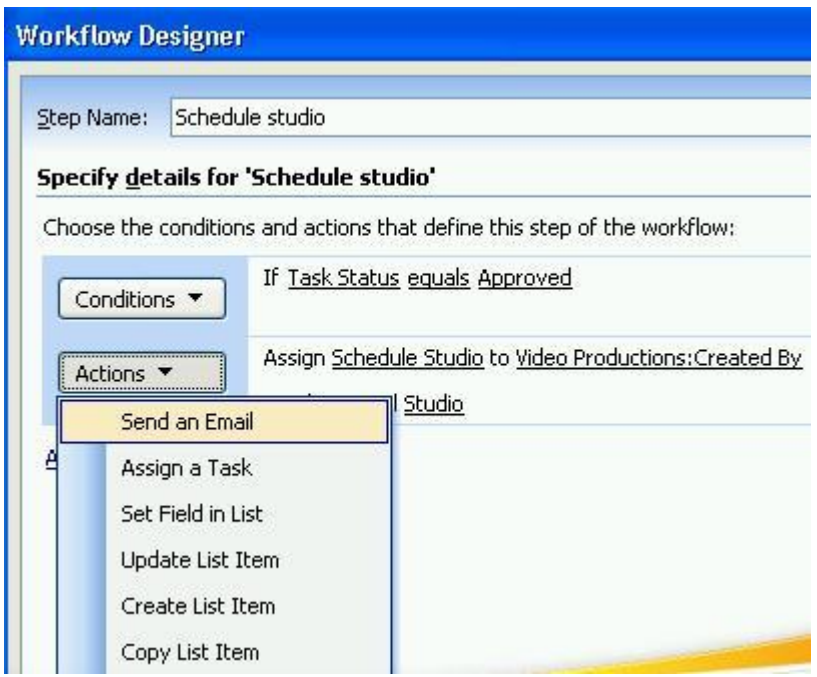
Choose the type of workflow and the conditions under which this new workflow should run.

Give a name to this Workflow:

What SharePoint list should this workflow be attached to?

Select workflow start options for items in Video Productions:

- Allow this workflow to be manually started from an item
- Automatically start this workflow when a new item is created
- Automatically start this workflow whenever an item is changed



This document is for informational purposes only. Tometa Software, Inc. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN THIS DOCUMENT.

© 2006 Tometa Software, Inc. All rights reserved.