

SDL Tridion 2013
What's new for techies
& Tridion geeks

Nuno Linhares – Product Manager

Agenda

- The basics
- Architecture Update
- Content Manager & Interface changes
- External Content Libraries
- Content Delivery Changes
- Demos here & there
- Q&A

Target Audience

- This presentation is NOT about
 - What's new since 5.x
 - Experience Manager
 - Marketing & Campaign Management & other buzzwords-du-jour
 - Roadmap
- This presentation is about:
 - Technical features in Tridion 2013
 - Grouping of items and new workflow engine
 - Undo publishing
 - External Content Libraries API
 - Claim forwarding in the Ambient Framework

The 2009, 2011, 2013 Difference - Functional

	2009	2011	2013
Experience Manager UI			
Built-in Device Preview Capability			
Cross browser, cross platform support			
UI extensibility – adding functionality			
External Content Libraries support			
Mobile Website support			
Multi-item Workflow, Task Workflow			
Translation & localization (with TMS and WS)			
Content Provider Services			
Ambient Visitor Intelligence, Footprint Preview			
Online Marketing Explorer			
Translation for Metadata of Multimedia item			

The 2009, 2011, 2013 Difference - Technical

	2009	2011	2013
Consolidated Architecture + Legacy Pack			
PowerShell scripts for db			
Core Services			
Session Preview			
Cloud Readiness			
Read & Write public.NET API			
External Content Library API			
XSLT Mediator			
Extensible Storage Model			
Ambient Data Framework			
Scalable, Multi-threaded Content Deployer			
Future Ease of Upgrade			



SDL Tridion 2013 System pre-requisites

The basics

SDL Tridion 2013 – Architecture Requirements (CM)

- Operating Systems
 - Windows Server 2012
 - Windows Server 2008 R2 SP1
 - Deprecated:
 - Windows Server 2003
 - Windows Server 2008 (R1)
- .NET Framework versions:
 - 4.0 & 4.5
- Java:
 - 7.0 (6.x deprecated)
- Database servers
 - SQL Server
 - 2012 SP1
 - 2008 R2 SP2
 - Oracle
 - 11.2.0.3
 - 10.2.0.5



SDL Tridion 2013 – Architecture Requirements (CD)

- Windows Servers
 - 2012, 2008 R2 SP1
- Unix
 - Solaris 9, 10
 - AIX 6.1, 7.1
 - RHEL 5.9, 6.4
 - HP-UX 11i V2, 11i V3
- Java version
 - 7 (recommended), 6 (deprecated)
- .NET version
 - 4.0, 4.5 (2.0 deprecated)
- Application servers
 - Tomcat 6, 7
 - WebSphere 7.0, 8.5
 - IIS 7.5, 8
 - WebLogic 11gR1, 12c
 - Glassfish Server v3
 - JBoss 5.1, 6.0
- Database Servers
 - Oracle 11.2.0.3, 10.2.0.5
 - SQL 2012 SP1, 2008 R2 SP2
 - DB2 9.7 (Deprecated)

SDL Tridion 2013 – Architecture Requirements (CME/XPM)

- Client Operating Systems
 - Windows 8, Windows 7
 - Windows Server 2012, 2008 R2 SP1
 - Mac OS X 10.8 (Mountain Lion)
- Web Browsers
 - Internet Explorer 10
 - Internet Explorer 9
 - Safari 6.0
 - Chrome
 - Firefox



Lean & modern platform – SDL Tridion 2013

Hot

- 64-bit
- Java SE 7, .NET Framework 4.0/4.5
- Content Services & MVC architectures

In

- Windows Server 2012, Windows 8, Internet Explorer 10
- TOM.NET
- Core Services
- XSLT Mediator
- PowerShell cmdlets & scripts

Revisited & updated

- Oracle Database 10.2.0.5, 11.2.0.3
- Microsoft SQL Server 2008 R2 SP2, 2012 SP1
- Redhat Enterprise Linux 5.9, 6.4
- Oracle Solaris 10, 11

Not

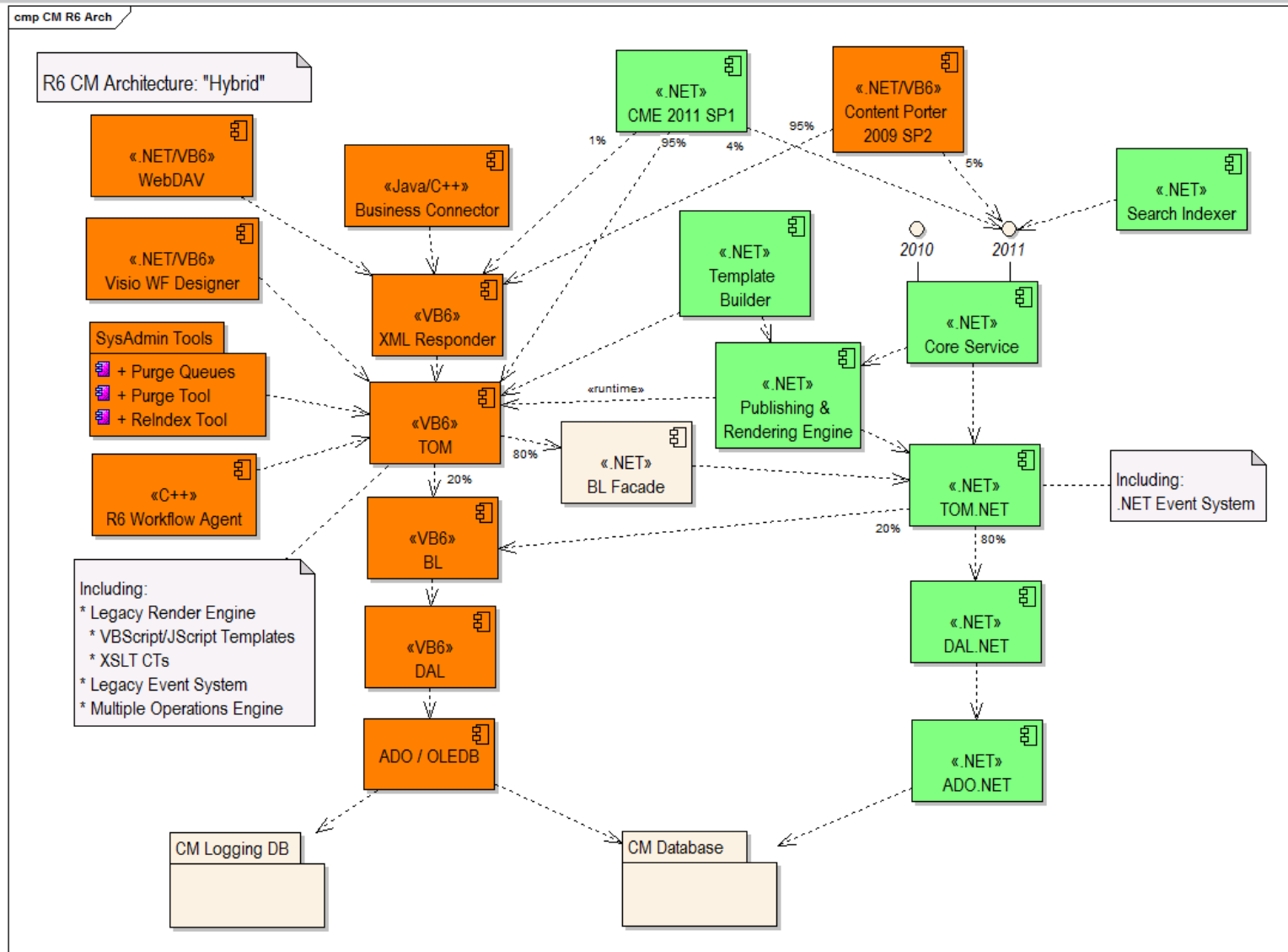
- 32-bit*
- J2SE 1.5, VB6, .NET Framework 1.1/2.0
- Pre-2009 Content Delivery stack
(Classic ASP, 5.3 .NET API, Filter API, Home Classes)

Out

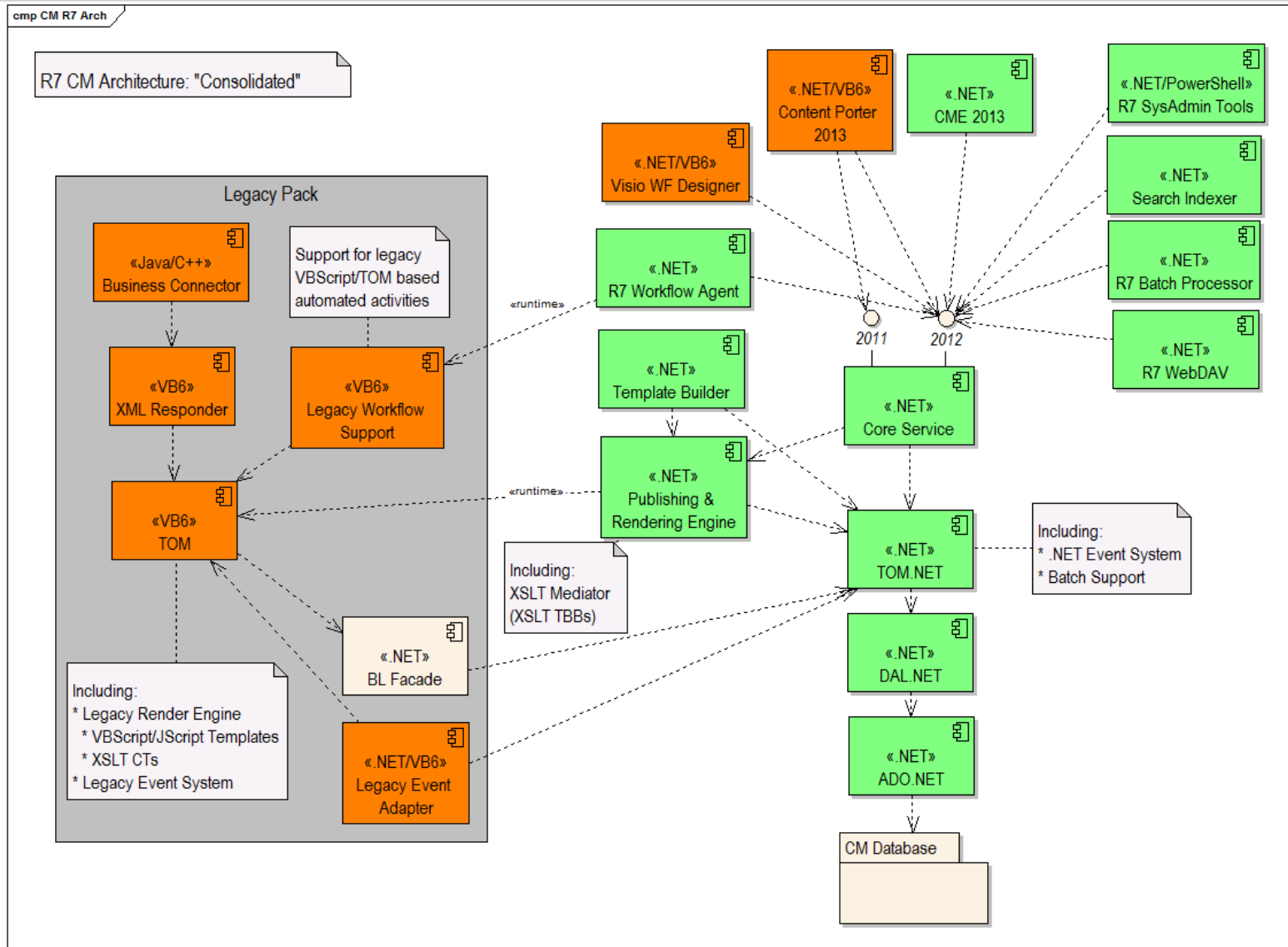
- Windows Server 2003 (R2), Windows XP, Internet Explorer 8
- TOM & COM-based Event System
- XML Responder, Business Connector 1.0
- Legacy Templating (VBScript/Jscript, XSLT CTs)
- TDM & proprietary tools

Content Manager

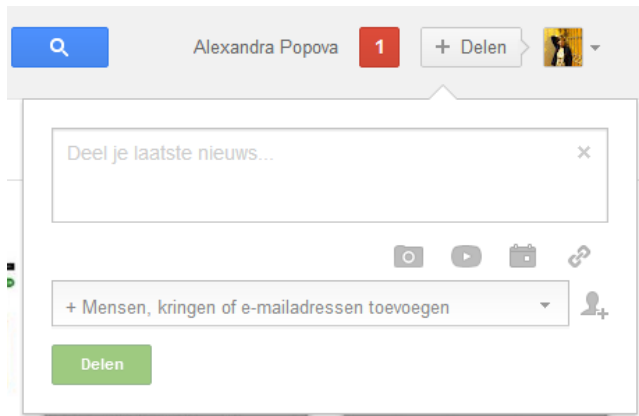
CM R6 Architecture



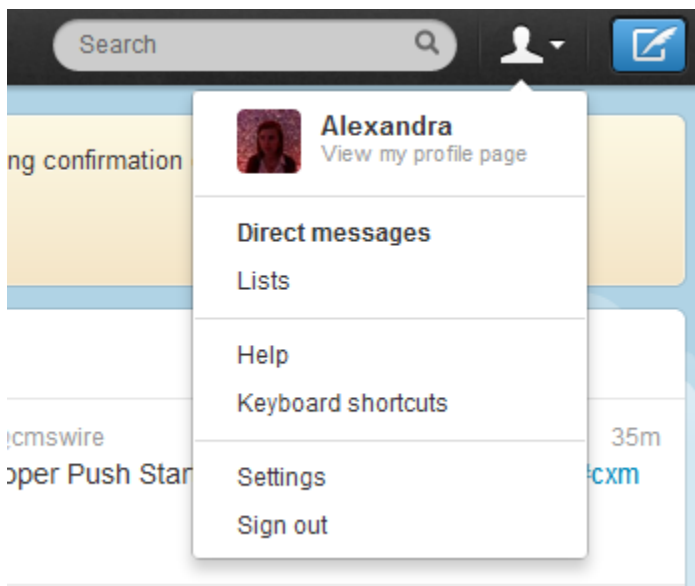
CM R7 Architecture



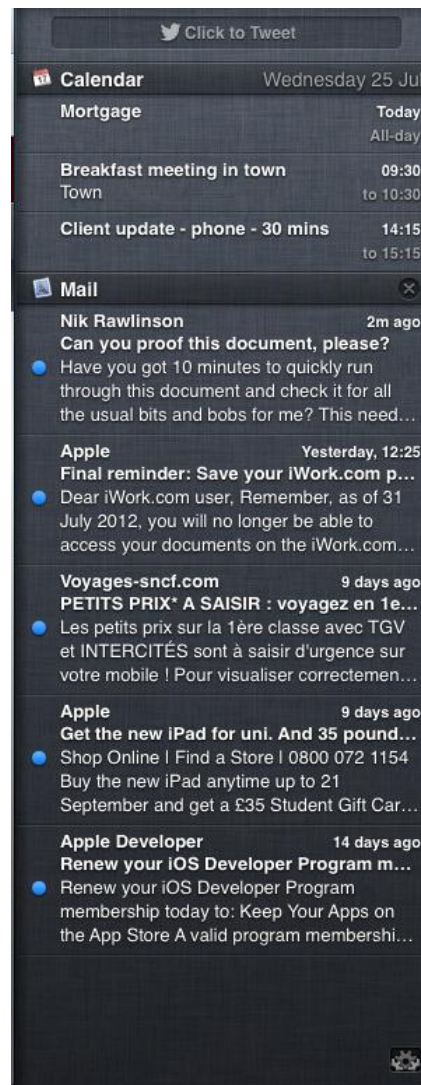
Notifications



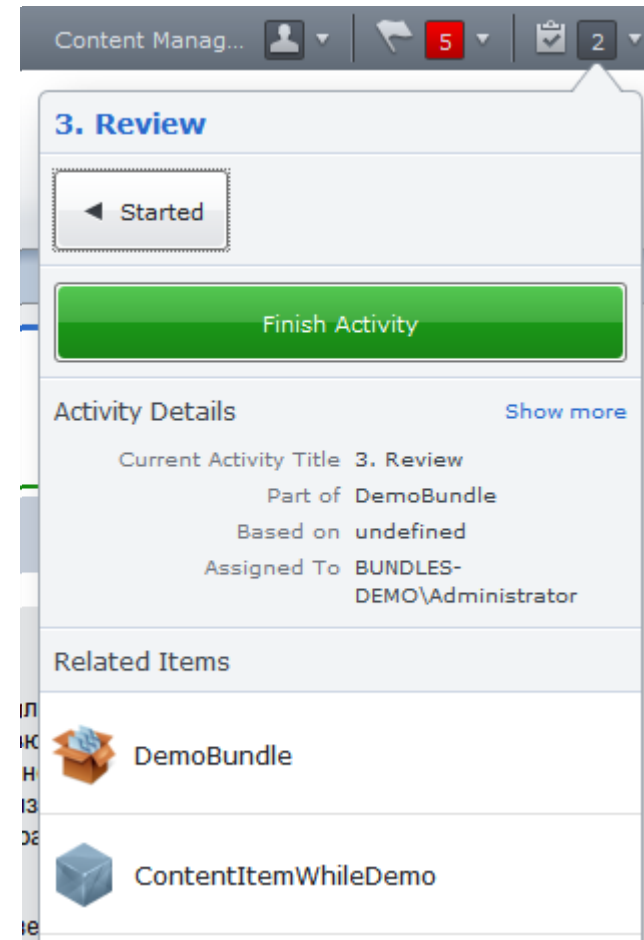
Google



Twitter



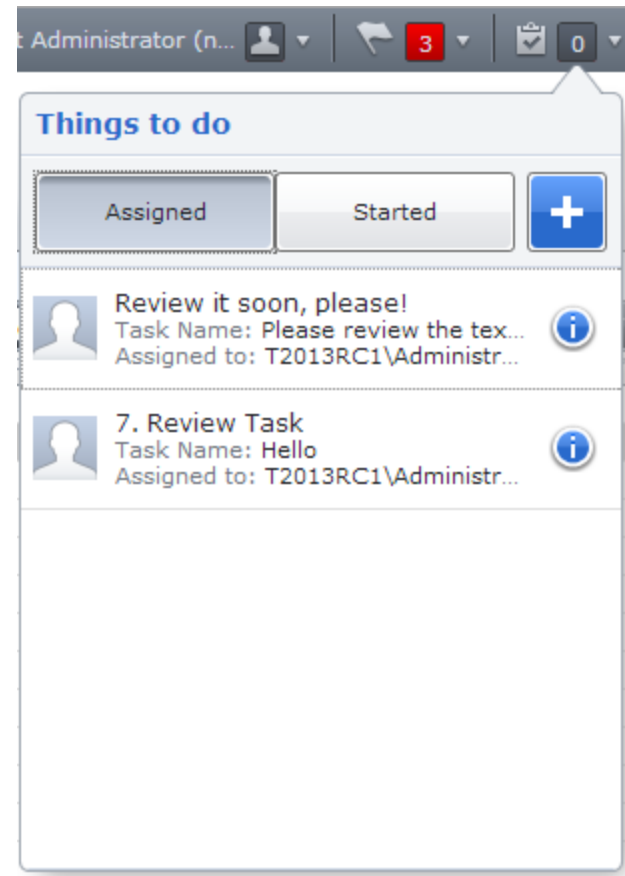
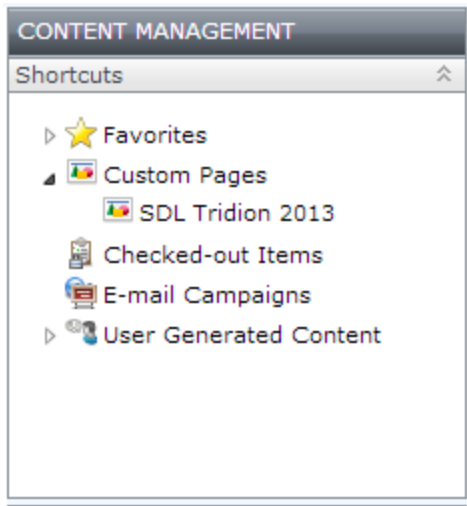
iOS Notification Center



SDL Tridion

New message center and task list

- “My tasks” disappeared
- Replaced by “Things to do”



New virtual folder type – Bundle



- Manually maintained group of “RepositoryLocalObjects”
- Allows for “campaigns”, “projects”, “releases” and a few other group-of-items use cases
- “Weak reference” for items: shows in where used, does not stop you from deleting it – or items in it
- Items can be added to bundles from virtually anywhere in CME and Experience Manager
- Support for local, localized & shared items

Bundle capabilities

- You can...
 - Publish a bundle

State: and

Priority:

Publishing Tasks

Name	Target	Publication	Path	Action	State	Priority	Time	User
 Content changed ncTomcat Staging De	050 Website EN		\050 Website EN\BPublish	Success	Normal		3/11/2013 9:11 PM	T2013RC1\Adminis

- Assign schemas to bundles (bundle type)

050 Website EN > Building Blocks > Content

* Name:

Description:

Bundle Type:

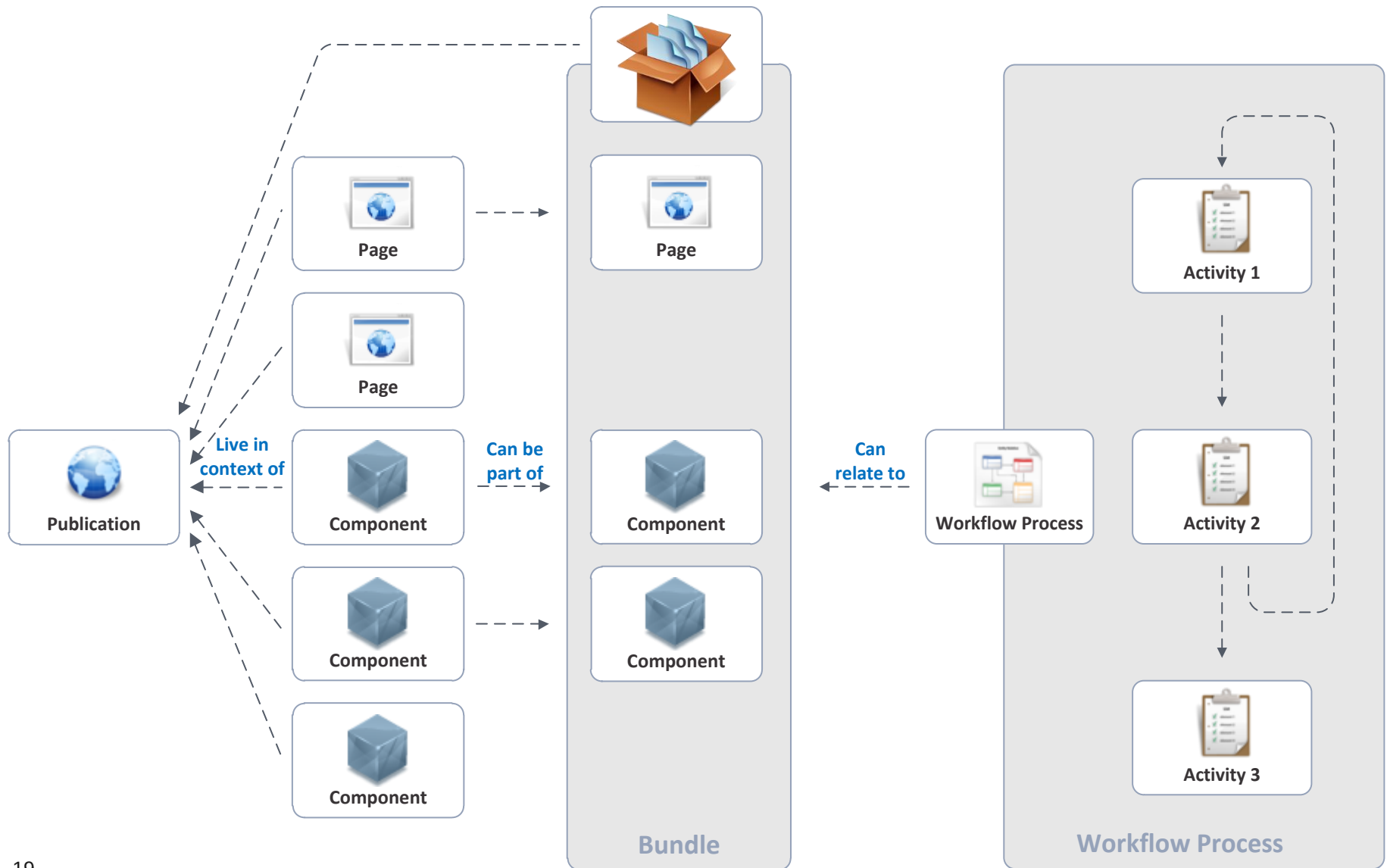
Bundles and workflow

- And you can apply workflow to bundles

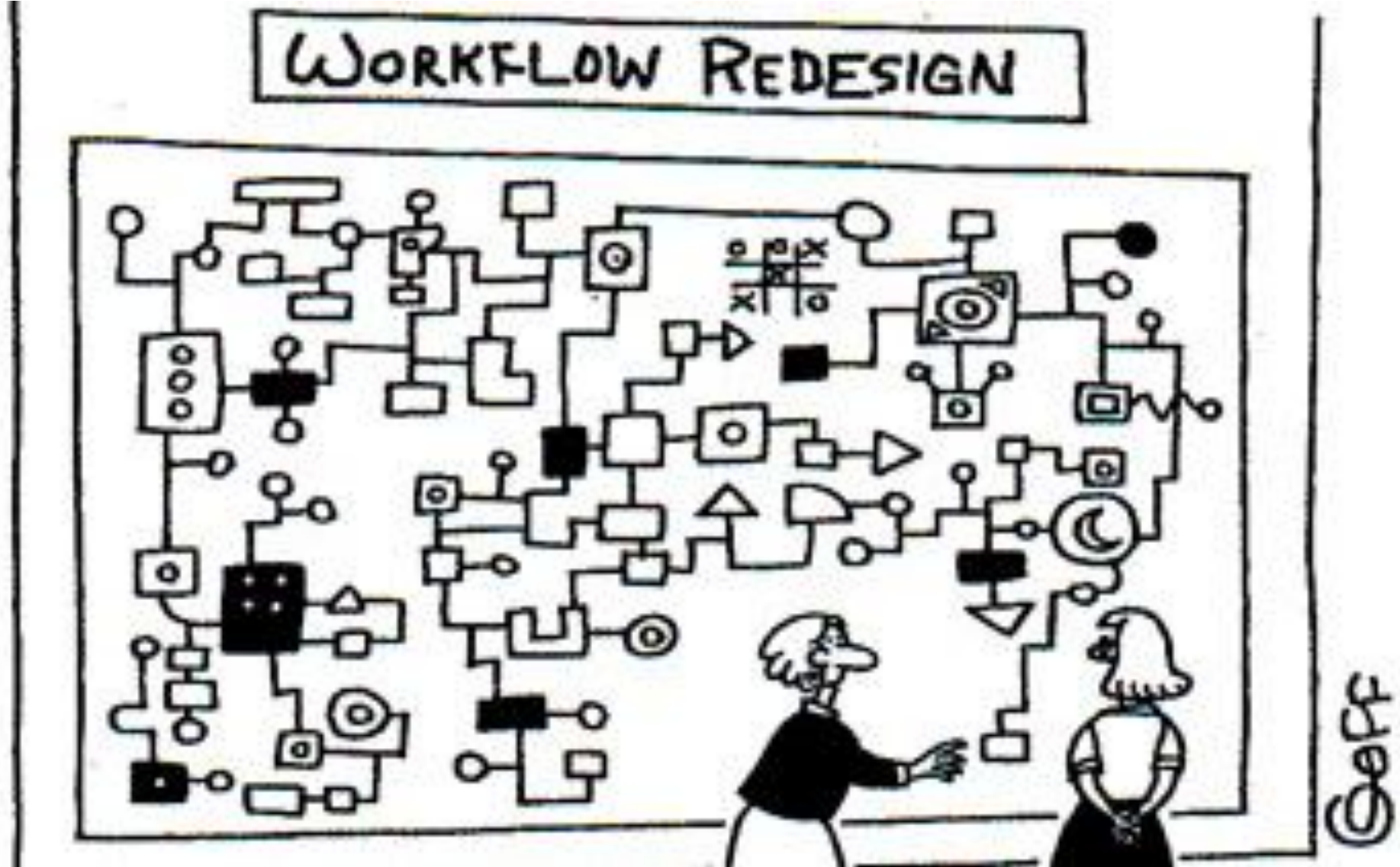
The screenshot displays the SDL Tridion user interface. At the top, a navigation bar includes tabs for Dashboard, Home, Organize, Workflow, E-mail Management, Audience Management, Administration, Bundle (selected), and Tools. Below the navigation bar, three icons are visible: 'Add Items to this Bundle', 'Remove from Bundle', and 'Start Workflow Process'. A 'Bundle Content' section shows a 'Start Workflow Process' button. The main content area displays a breadcrumb trail: 'Content Management > 050 Website EN > Building Blocks > Content > Content changed now'. On the left, a 'CONTENT MANAGEMENT' sidebar lists shortcuts: Favorites, Custom Pages (containing 'SDL Tridion 2013'), Checked-out Items, E-mail Campaigns, and Publications. The main panel, titled 'Content changed now', contains a table with the following data:

Name	Location	From Publication
I Have Gone Dark	\050 Website EN\Building Blocks\Content\Articles\B020 Content	
It's the little things: Creating a page breadcrumb in	\050 Website EN\Home\01 Nuno Linhares	
Nuno Linhares (Index page)	\050 Website EN\Home\01 Nuno Linhares	
SDL Tridion 2011 GA - Chat Extension	\050 Website EN\Home\04 Jaime Santos	

Principles: Bundles and Workflow



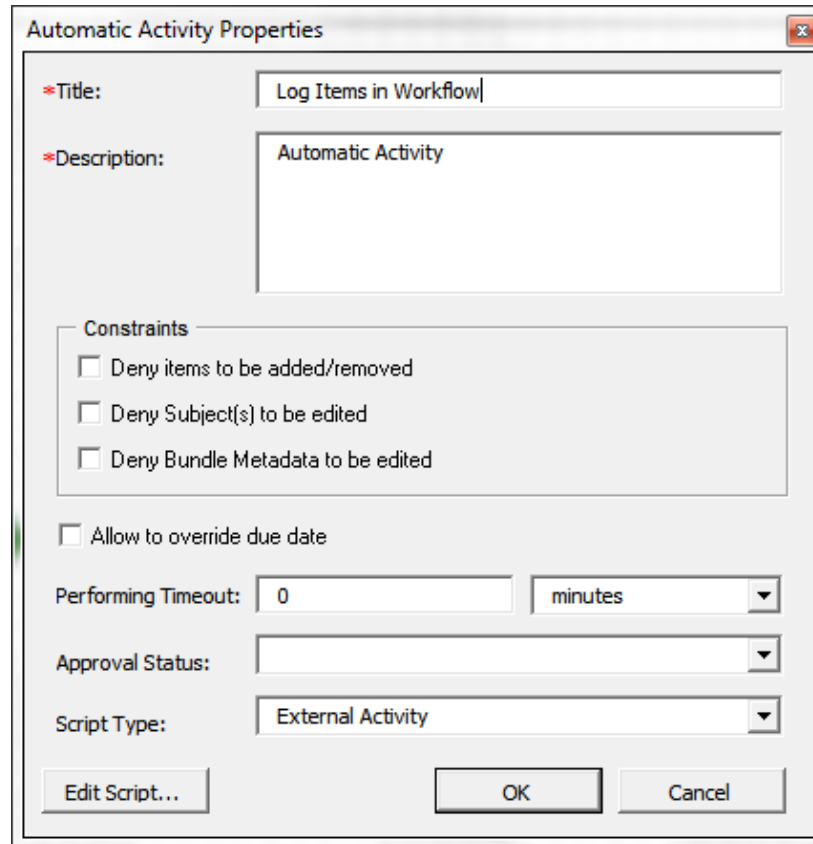
Some words about the new workflow engine...



Workflow Process types

- Component Process
- Page Process
- Template Process
- Task Process

Legacy Workflow

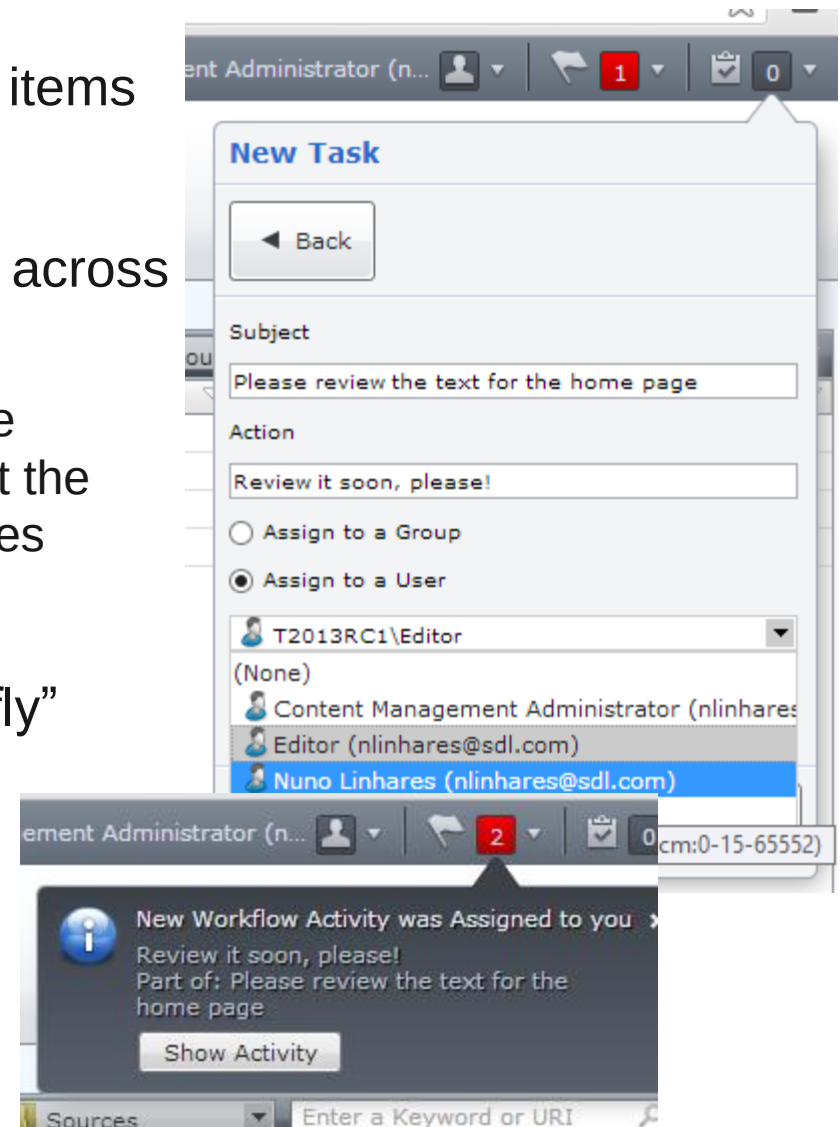


The screenshot shows a dialog box titled "Automatic Activity Properties". It contains the following fields and options:

- Title:** A text box containing "Log Items in Workflow".
- Description:** A text box containing "Automatic Activity".
- Constraints:** A section with three unchecked checkboxes:
 - ☐ Deny items to be added/removed
 - ☐ Deny Subject(s) to be edited
 - ☐ Deny Bundle Metadata to be edited
- ☐ Allow to override due date
- Performing Timeout:** A text box with "0" and a dropdown menu set to "minutes".
- Approval Status:** A dropdown menu.
- Script Type:** A dropdown menu set to "External Activity".
- Buttons:** "Edit Script...", "OK", and "Cancel".

Task Processes...

- Task processes can apply to 0 or many items
- Task processes can be used with items across publications
 - the person *starting* the workflow must have permissions in all publications to check out the items, but not the people executing activities
- Task processes can be started “on the fly” without any item



Task Processes...

- Task processes can be assigned to Bundle Schemas
- By assigning a schema to a bundle, we are also deciding which workflow task process to use
 - Particularly useful to apply different workflow processes to the same items, like publish and unpublish flows
- Content schemas can specify that items must go on a bundle with a given task process

The screenshot shows a web-based configuration interface for a bundle schema. At the top, a breadcrumb trail reads "010 Schemas > Building Blocks > System > Schemas". Below this is a tabbed interface with tabs for "General", "Design", "Metadata Design", "Source", "Workflow", and "Info". The "Workflow" tab is currently selected. Within this tab, there are three main configuration areas: 1. "Associated Component Process" with a dropdown menu currently set to "(None)". 2. A checkbox labeled "Any changes made to a Component based on this Schema require approval by a Bundle Workflow Process.", which is checked. 3. "Preferred Workflow Process for this Bundle" with a dropdown menu set to "Task Process".

Task Processes...

- Task processes allow for items in the bundle to be changed – even if the workflow is started already
 - You can remove an item from a bundle “half-way” through a workflow process
 - Item will remain checked out to the user that owned it while in workflow
 - You can add items to a bundle “half-way” through a workflow process
 - Items will be checked out and their approval status will be adapted
 - Events are also triggered when this happens
- Activities can be coded in c# (Core Service) and use classes stored in the Content Manager (as TBBs)

Other Workflow Changes

- Revamped Workflow Service Agent
 - Native .net with backwards compatibility for VBScript activities
 - Provides a script language similar to modular templating support C# fragments
- Ability to associate more than one process definition to objects
 - Choice to setup mandatory or default process definitions on bundles
 - Engine support for associating multiple items to a process without a bundle



Managing and scheduling tasks with Workflow

The screenshot displays the 'Tridion Tasks - Microsoft Outlook' window. The interface includes a ribbon with tabs for File, Home, Send / Receive, Folder, View, iCloud, and Tridion. The Tridion tab is active, showing a ribbon with icons for Refresh, Start Activity, Finish Activity, Assign Activity, Assigned, Started, Finished, Open, Go to location, Preview, Properties, Login, Logout, Settings, and Help. Below the ribbon, the left pane shows 'My Tasks' with a 'To-Do List' and 'Tridion Tasks (5)'. The main pane displays a list of tasks with columns for Subject, Due Date, and Categories. The right pane shows a calendar for January 2013. A green banner at the bottom right reads 'Community extension on 2013'. A blue notification box at the bottom right states: 'New workflow activity has arrived. You have new activities available. Use the Tridion Connector to view them.'

Tridion Tasks - Microsoft Outlook

File Home Send / Receive Folder View iCloud Tridion

Refresh Start Activity Finish Activity Assign Activity Assigned Started Finished Open Go to location Preview Properties Login Logout Settings Help

My Tasks

- To-Do List
- Tasks
- Tridion Tasks (5)

iCloud

- Reminders

Search Tridion Tasks (Ctrl+E)

Subject	Due Date	Categories
Click here to add a new Task		
☐ BundleDemo (1. Task)	ma 21-1-2013	
☐ Collecting feedback (Kick off wrap up)	wo 23-1-2013	
☐ Can you please share slides? (Product...	wo 23-1-2013	
☐ Can you create an Acceptance Doc? (...)	vr 25-1-2013	
☐ 3. Review (Kick Off 2102)	vr 25-1-2013	
☐ Can you please review open issues? (...)	vr 25-1-2013	

januari 2013

ma	di	wo	do	vr	za	zo
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Arrange By: Flag: Due Date

Type a new task

No Date

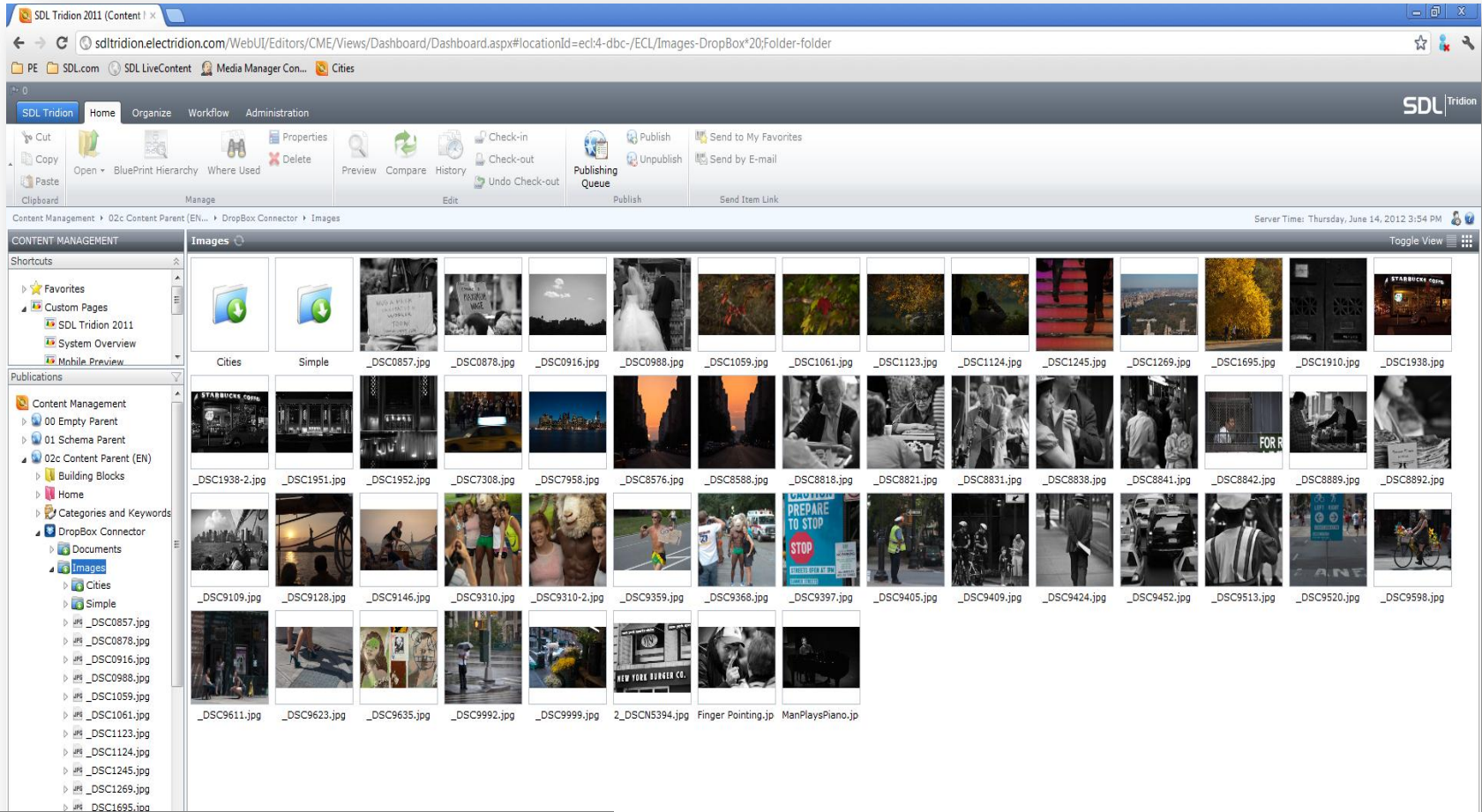
Important: Your account i...

Items: 6 Unread: 5 This folder is up to date. Connected

New workflow activity has arrived.
You have new activities available. Use the Tridion Connector to view them.

External Content Libraries

Content: Media and Content Libraries



External Content Libraries

- Easy access to external content from SDL Tridion UI
- Add visualization specific to external content
- Integrate External content into content process
- Integrated delivery options
- Media Manager Integration

Working with Video

WCMS - UI - Task Board - ... [#SE-1940] Option to add ... [#SE-1943] New Bundle bu ... [#SE-1966] Unable to add ... [#SE-1964] Recursive bund ... SDL Tridion - Index

ec2-176-34-90-237.eu-west-1.compute.amazonaws.com:81/WebUI/Editors/SiteEdit/Views/Editor.aspx?url=http%3A%2F%2Fec2-176-34-90-237.eu-west-1.compute.amazonaws.com%3A85%2F

Dashboard Home Layout Review Preview Manage

Save Draft Finish Editing Cancel Editing New Page... Insert Content Remove Content Update Preview Open in Form View Device Emulator Rotate device Switch to Desktop Properties Content Borders Context Menu

05 SDL EN Home Index

Insérer du contenu

Sélectionner un ou plusieurs éléments de contenu à insérer

Back Marketing Videos

- HP Customer Video
- INFORMATICA Custo...
- Kaesar Kompressoren...
- MANDARIN Customer ...
- New UI Marketing Vid...

Create Distribution

Information Management

Content for the MultiChannel Customer »

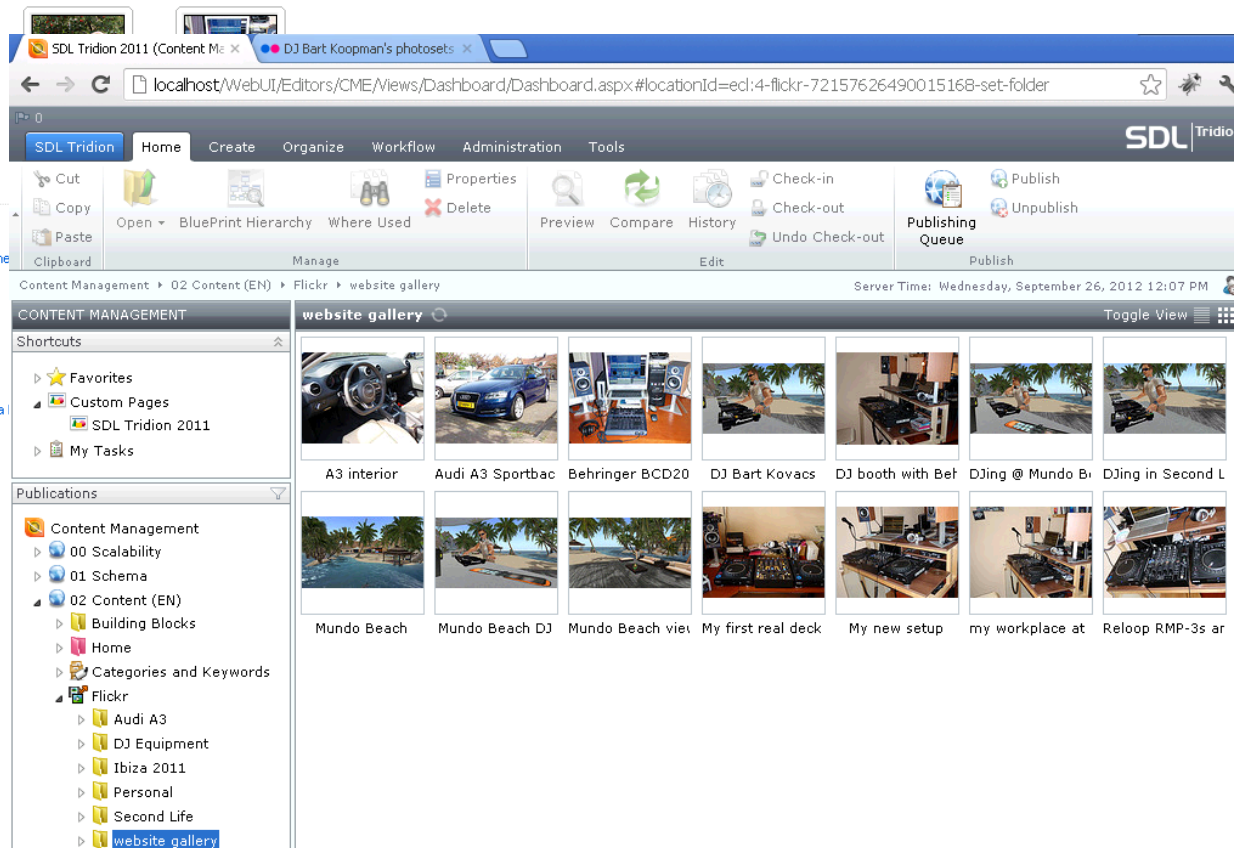
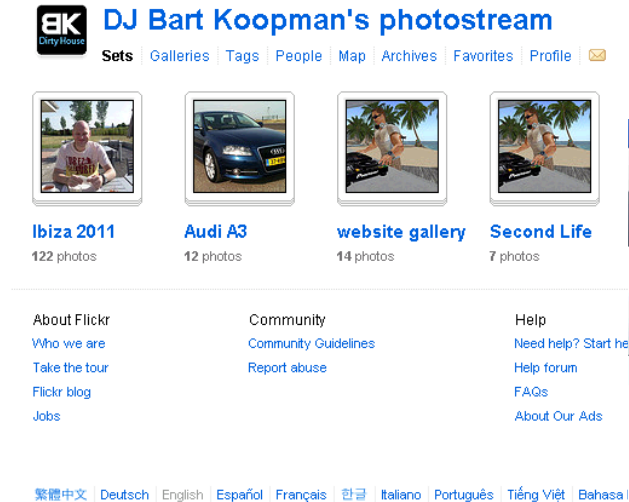
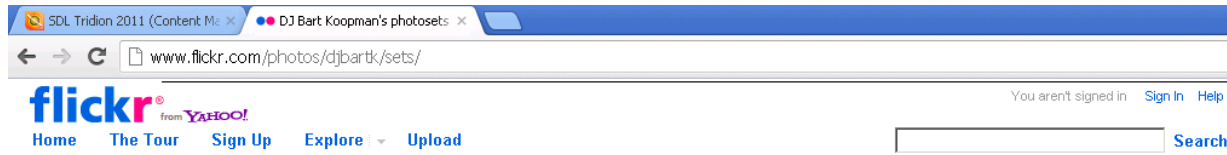
New UI Marketing Video Hero

What makes SDL Tridion unique

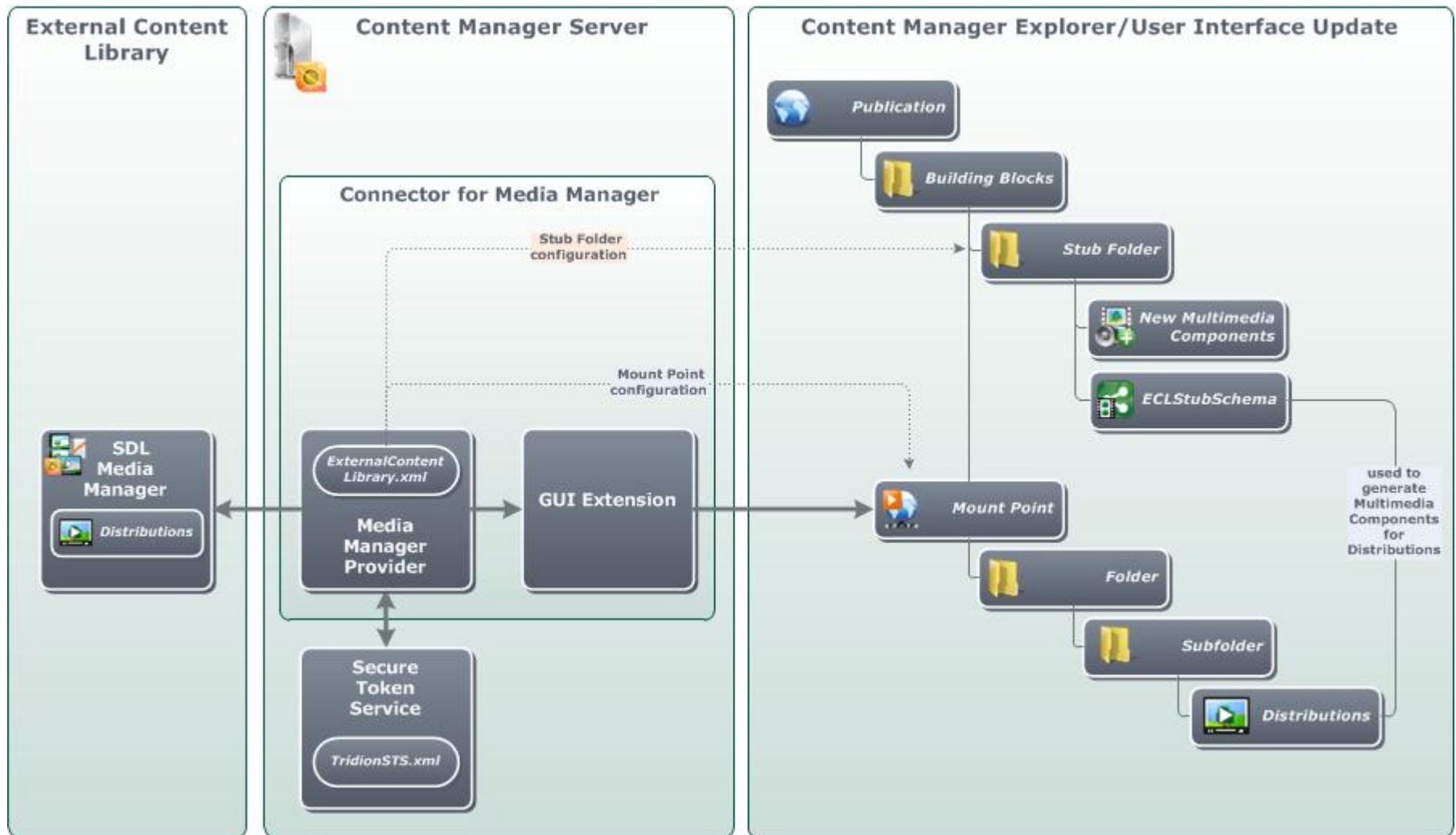
SDL Tridion 2011 gives you control over your entire digital ecosystem from one place, giving your marketers and content contributors full control over content creation, targeting, multi-channel distribution, translations, audience management, social media interaction and site analytics.

SDL Tridion provides an easy to use, intuitive interface that allows you to do

External content directly in SDL Tridion



Easy peasy



5 interfaces to implement

IContentLibrary

The connector, a representation of the external system which provides data to SDL Tridion

IContentLibraryListItem

List items (folders and files)

IContentLibraryMultimediaItem

Files

IContentLibraryContext

Mountpoint

IContentLibraryItem

Folder

Stub items

- Special multimedia items created in the content manager representing one external item.
 - Allows managed links
- Stored with the schema
 - Do not think of them as content – they are placeholders at the schema level
- Support Tridion metadata
- Support workflows/bundles

Implementing providers

- Provider implements .NET interface
- Versioned API
 - Expect code changes when needing new functionality
- Security responsibility of the provider/external system
 - ECL only offers basic rights across the entire External Content Library
 - ECL expose user information to the provider

ECL Templating

- Same API as used for the providers.
- Used to write function sources and TBBs
- Template code written against one version of the API will work with providers implemented with another version
 - Subject to normal API deprecation rules
- Supplied Function Sources/TBBS are very simple

Built-in mechanism to use External Assets

```
namespace MyFirstECLProvider
{
    public class MyEclProvider : IContentLibrary
    {
        public void Dispose()
        {
            throw new NotImplementedException();
        }

        public IContentLibraryContext CreateContext(IEclSession session)
        {
            throw new NotImplementedException();
        }

        public byte[] GetIconImage(string theme, string iconIdentifier, int iconSize)
        {
            throw new NotImplementedException();
        }

        public void Initialize(string mountPointId, string configurationXmlElement, IHostServices hostServices)
        {
            throw new NotImplementedException();
        }

        public IList<IDisplayType> DisplayTypes { get; private set; }
    }
}
```

IContentLibraryMultimediaItem

```
namespace MyFirstECLProvider
{
    public class MultimediaItem : IContentLibraryMultimediaItem
    {
        public string Dispatch(string command, string payloadVersion, string payload, out string responseVersion)
        {
            throw new NotImplementedException();
        }

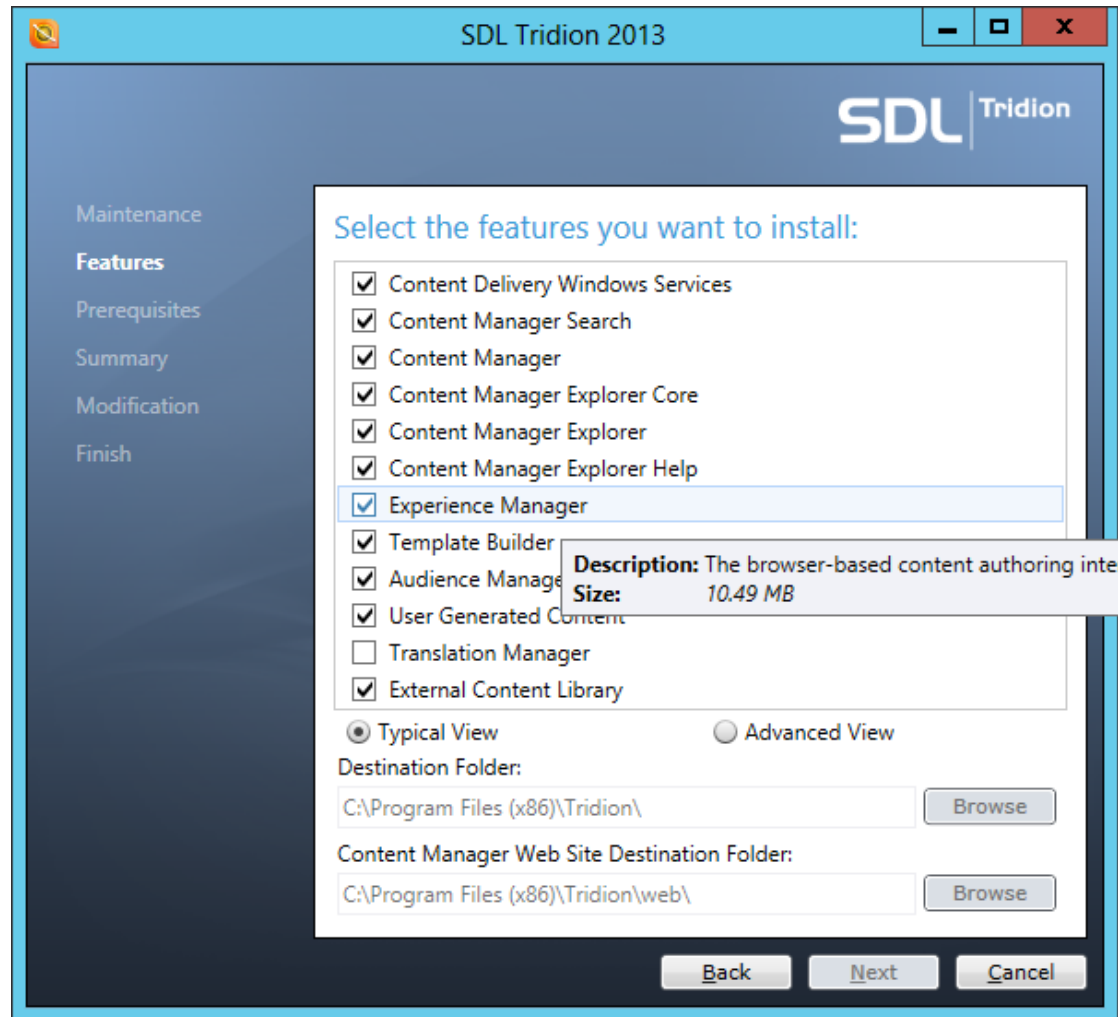
        public bool CanGetUploadMultimediaItemsUrl { get; private set; }
        public bool CanSearch { get; private set; }
        public string DisplayTypeId { get; private set; }
        public string IconIdentifier { get; private set; }
        public IEclUri Id { get; private set; }
        public bool IsThumbnailAvailable { get; private set; }
        public DateTime? Modified { get; private set; }
        public string ThumbnailETag { get; private set; }
        public string Title { get; set; }
        public IContentLibraryItem Save(bool readback)
        {
            throw new NotImplementedException();
        }

        public bool CanGetViewItemUrl { get; private set; }
        public bool CanUpdateMetadataXml { get; private set; }
        public bool CanUpdateTitle { get; private set; }
        public DateTime? Created { get; private set; }
        public string CreatedBy { get; private set; }
        public string MetadataXml { get; set; }
        public ISchemaDefinition MetadataXmlSchema { get; private set; }
        public string ModifiedBy { get; private set; }
        public IEclUri ParentId { get; private set; }
        public IContentResult GetContent(IList<ITemplateAttribute> attributes)
        {
            throw new NotImplementedException();
        }
    }
}
```

Experience Manager

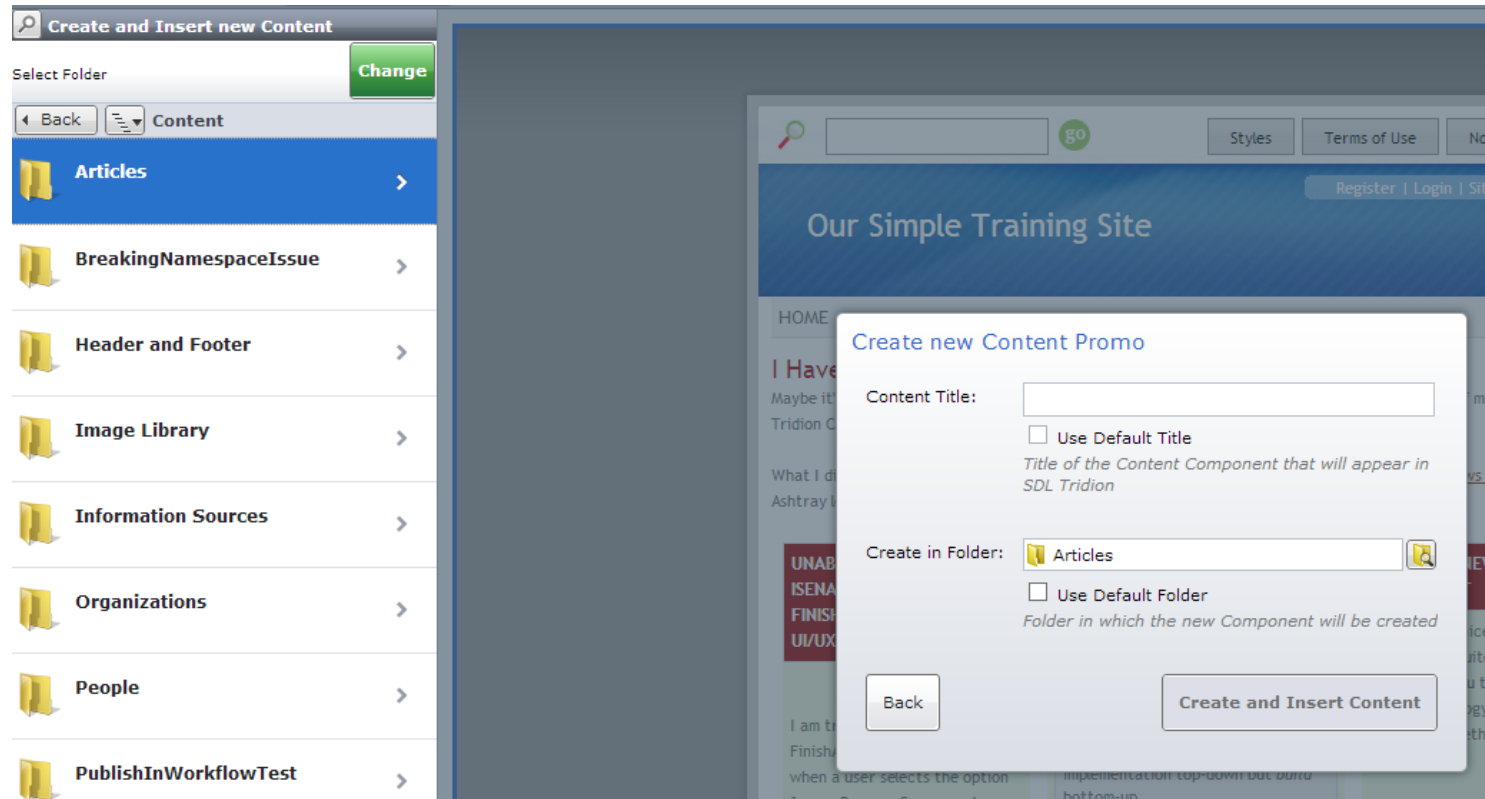
Part of “Core” installer

- Experience Manager is now part of the CM installer
- Less differences in capabilities for editors



Some Experience Manager enhancements...

- Editors can specify folders for new content



Device Preview installed by default

The screenshot displays the SDL Tridion user interface. At the top, a navigation bar includes tabs for Dashboard, Home, Layout, Review, Preview, and Manage. Below this is a toolbar with icons for Save Draft, Finish Editing, Cancel Editing, New Page..., Insert Content, Remove Content, Update Preview, Open in Form View, Switch Device, Rotate Device, and Switch to Desktop. The main content area is divided into a left sidebar and a right preview pane. The sidebar, titled 'Devices', contains a list of devices with their respective icons and dimensions: Desktop (1600x1144), Apple iPhone 5 (187x296), Blackberry Bold 9650 (205x143), HTC One X+ (230x358), Apple iPad 4gen (754x496), Apple iPad Mini (580x380), Samsung Galaxy Tab 10.1 (794x403), HTC Wildfire (175x232), Nokia Lumia 920 (215x334), and Motorola KRZR K1 (108x136). The preview pane shows a web page titled 'Our Simple Training Site' with a blue header and a white body. The page content includes a search bar, a 'HOME' link, and a section titled 'I Have Gone slightly Dark' with a paragraph of text. Below this is a section titled 'UNABLE TO CONFIRM IF ISEENABLED IN EXTENDED FINISHACTIVITY IN TRIDION UI/UX' and another titled 'SDL TRIDION. BOTTOM-UP OR TOP-DOWN?' with a paragraph of text. The bottom of the preview pane shows a code snippet:

```
throw new Exception("Exceptional condition!");
```

 and a note: 'But, in Template Builder it says 'successful'.'

Dashboard Home Layout Review Preview Manage

Save Draft Finish Editing Cancel Editing New Page... Insert Content Author Remove Content Update Preview Open in Form View Switch Device Rotate Device Switch to Desktop

050 Website EN > Home > Home Page (index)

Devices

Select a device and press apply to preview the page. Apply

Devices

Desktop 1600x1144

Apple iPhone 5 187x296

Blackberry Bold 9650 205x143

HTC One X+ 230x358

Apple iPad 4gen 754x496

Apple iPad Mini 580x380

Samsung Galaxy Tab 10.1 794x403

HTC Wildfire 175x232

Nokia Lumia 920 215x334

Motorola KRZR K1 108x136

Our Simple Training Site

HOME

I Have Gone slightly Dark

Maybe it's the Holidays, but my mood has gone pretty dark. That is, regarding the Tridion CME, of course.

What I did was to dim the lights on the operating system, so I installed [Placebo the Ashtray](#) look -- great name :)

UNABLE TO CONFIRM IF ISEENABLED IN EXTENDED FINISHACTIVITY IN TRIDION UI/UX

SDL TRIDION. BOTTOM-UP OR TOP-DOWN?

A few customers have asked me about the trade-offs between SDL Tridion implementation approaches.

I am trying to catch the FinishActivity in the UI/UX when a user selects the option from a Page or Component.

Typically you design SDL Tridion implementation top-down but build bottom-up.

Stopping Tridion publishing with exceptions

I would like to stop publishing when a certain condition exists in Tridion 2011. In a

```
throw new Exception("Exceptional condition!");
```

But, in Template Builder it says 'successful'.

DEMO

Content Delivery

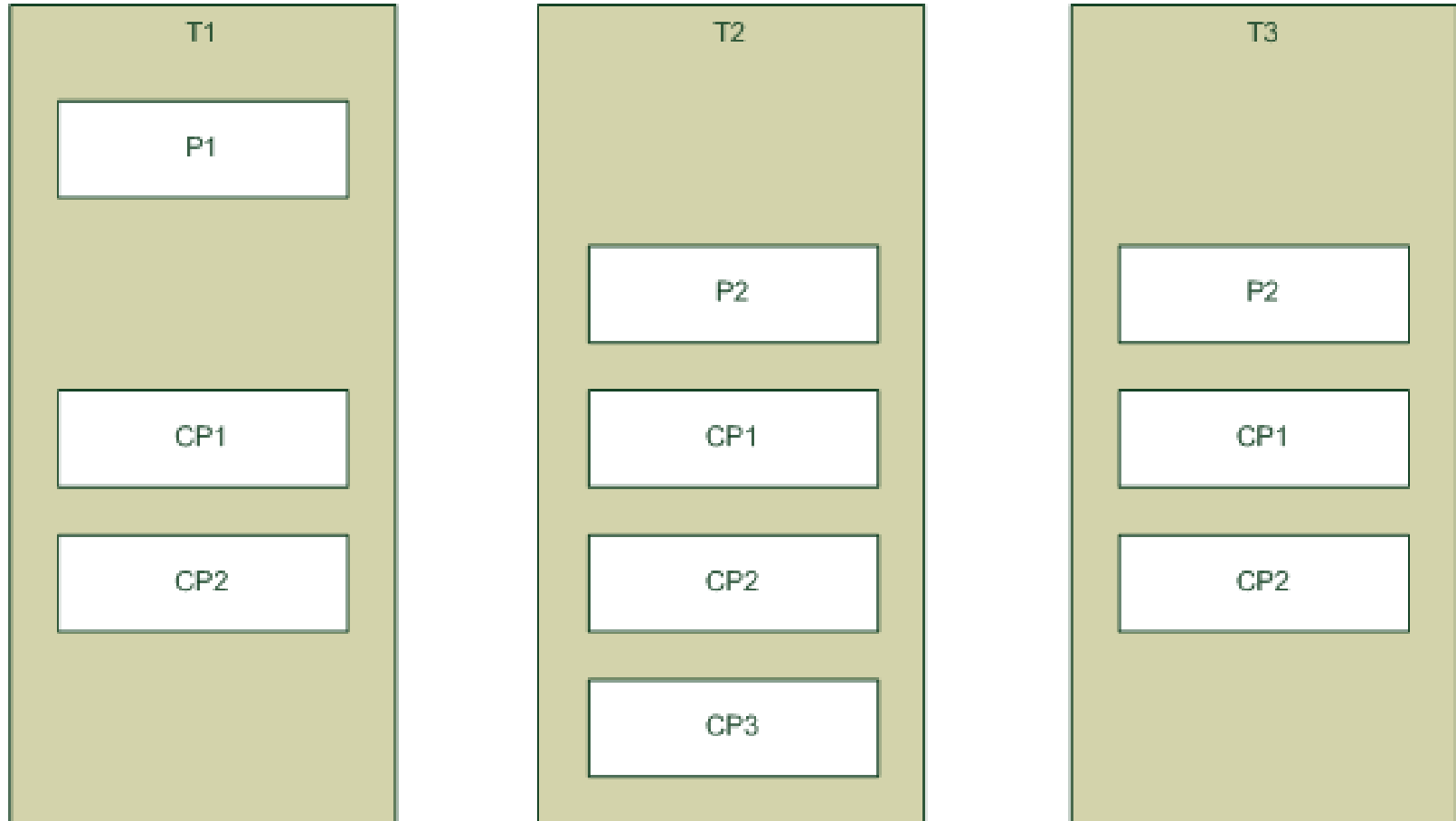
Workflow in 2013 – Undoing

- Ability to revert a publishing action in a workflow (based on publishing transaction id)
- CM side API primarily intended for use in automatic activities (needs administrator privileges)
- Not the same as an unpublish (since it can revert back to the previous state your publication target was in)
- Not exposed in UI

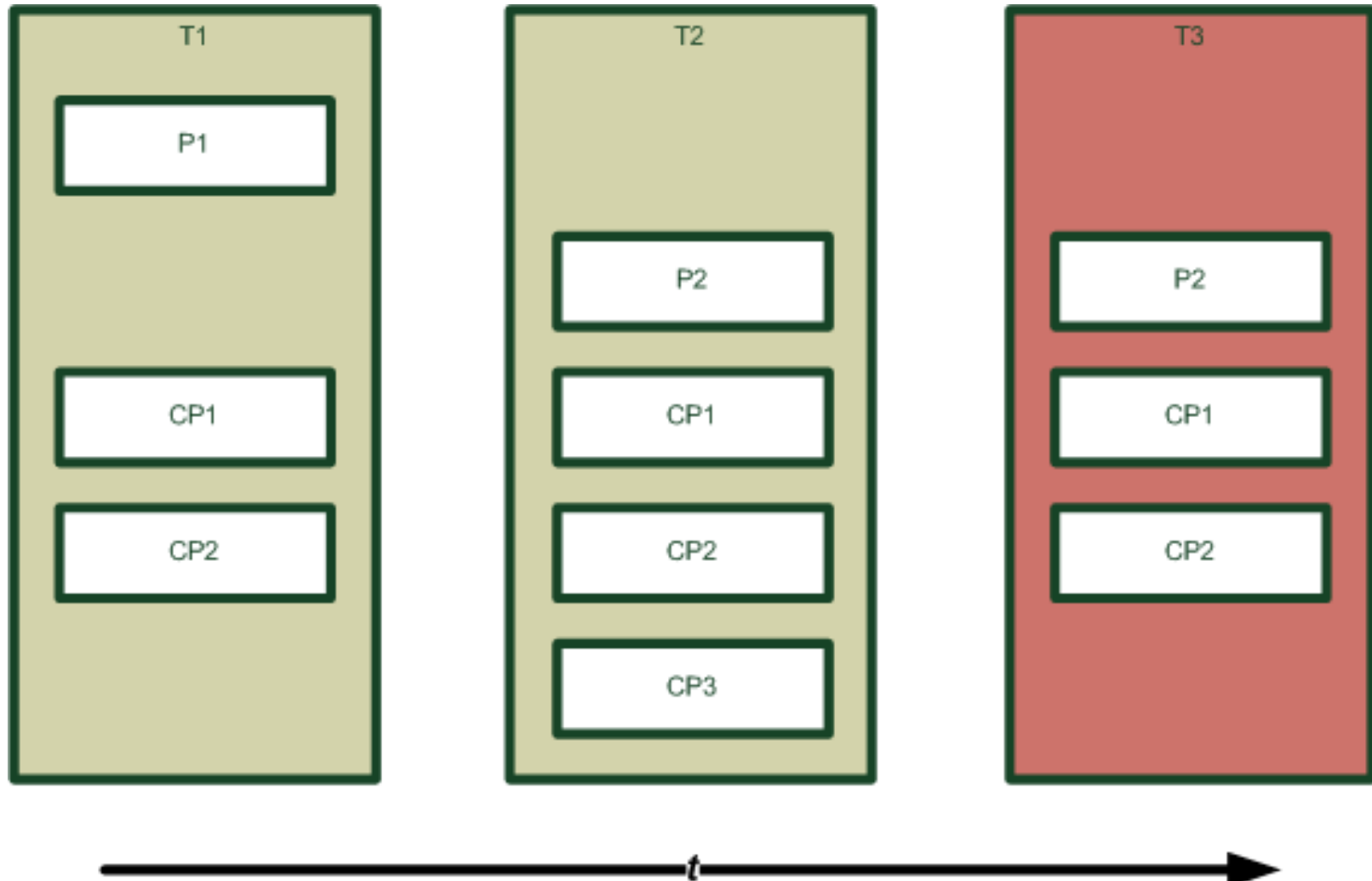
Workflow in 2013 – Undoing on Content Delivery

- Undo is based on the principle of compensation (not rollback!)
- Compensating actions are determined and result in
 - Deploy package
 - Undeploy package
 - ... or both
- Undo runs through the regular Deployer pipeline *and* custom Modules

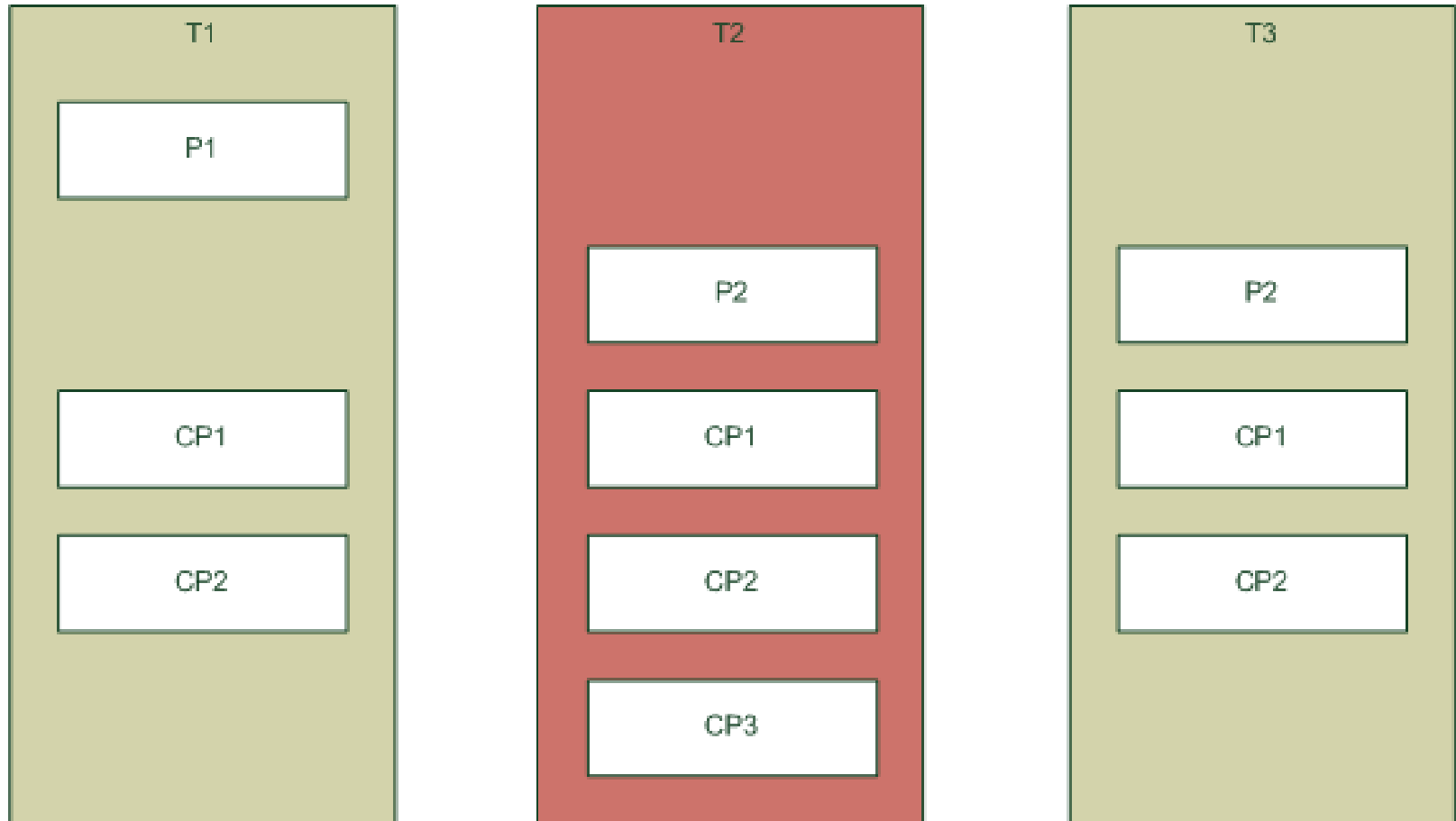
Workflow in 2013 – Undoing on Content Delivery



Workflow in 2013 – Undoing on Content Delivery



Workflow in 2013 – Undoing on Content Delivery



Ambient Data Framework – Claim Forwarding

- Capability to externally provide Claims to web application/service
 - Packaged in a cookie (format is part of public API)
 - Overrides locally provided Claims
- Used by Experience Manager to pass Footprint Sets
- Accommodates multi-tier applications
 - XPM → web application
 - Web application → web service
 - XPM → web application → web service
 - Affiliate web application → web service
 - etc.

Experience Manager integration with web applications

- Accommodates applications that (partly) work from the file system
 - Implementation can provide alternative paths according to application-specific routing rules
 - Binary and Page filters pick up alternative paths
- Allows applications to detect if a Preview Session is active and act accordingly, e.g. bypassing application-level caches

Q&A

Gracias

תודה

धन्यवाद

Bedankt

Obrigado!

THANK YOU

Teşekkürler

Vielen
Dank

Merci



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