

Bruno Silva de Sousa IT/OIS • October 2014

Make the most of SharePoint at CERN

Agenda

SharePoint at CERN

Some examples

What's new

Migration

Questions

Wait, what is SharePoint?

It's a web based business collaboration platform for the Enterprise and the Internet.

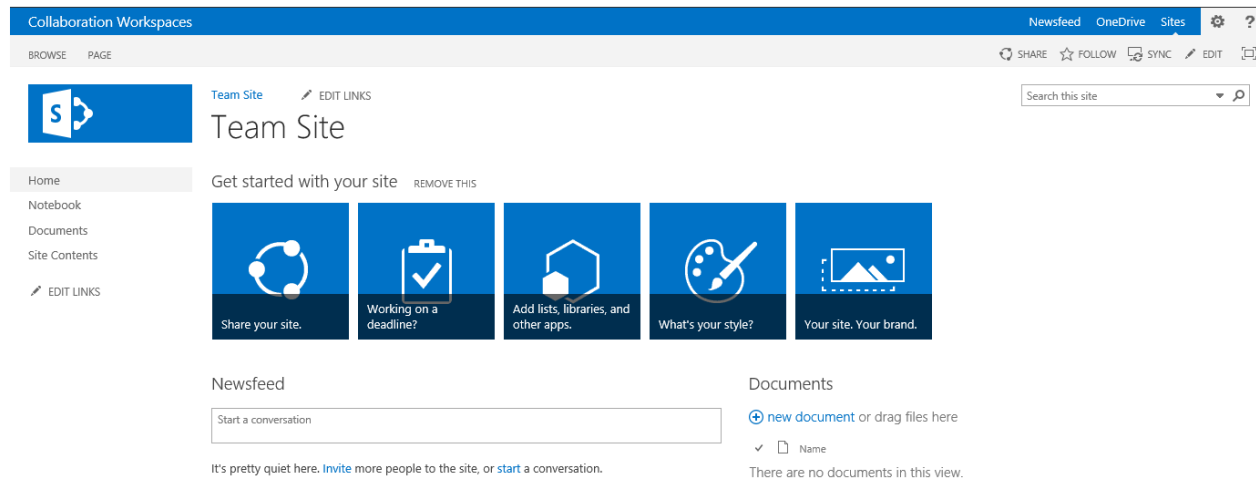
Its simplest definition



<https://www.flickr.com/photos/99159536@N00/3651315962>

But we focus on SharePoint as a tool for team collaboration that can implement business processes.

How does it (used to) look?



Evolving since 2001, 13 years of maturity.

But why SharePoint at CERN?

Common problems back to 2007:

Information organization

- «50 to 70% of employees get their relevant information from other people».
- «More than 80% of enterprise's digital information resides on individual hard drives and personal files».
- Individuals hold the key to knowledge and most of it is lost when they leave the enterprise.

Technical skills

- Web developer skills required to publish information on the web, develop a surveys, share documents, create discussion forums

But why SharePoint at CERN?

The introduction of SharePoint 2007 would:

- Integrate and structure information on different systems.
- Empower end-users.
- Improve team collaboration.
- Enhance information search.
- Open new possibilities to develop new applications

Some numbers

Service pilot started in 2007

- Production quality service in 2009
- Major upgrade to version 2010
- Coming major upgrade to 2013

2568 Collaboration Workspaces created

- 40 run on dedicated databases with 75GB
- 170 running on SharePoint 2013

800GB of data stored on SharePoint

- Not counting E-Groups Archives, CERN Search and Social

No major service interruption in 7 years



<https://www.flickr.com/photos/35626815@N07/6062272092>

Some examples

Some nice examples about SharePoint at CERN

- Fire Brigade
- Open Days / CERN60 Voisins event
- FCC
- CMS Secretariat
- THE Port
- CERN Market
- BE IPAC papers approval

This is not an extensive list but just some project where I was involved

Fire Brigade

Daily operational tool

- Feuille de Garde
- Shift
- Checklists w/ iPads
- Deployment codes

Departure Codes - Reports

C O M M U N I C A T I O N O P E R A T

Caller

Phone Number: ID: Name:

Intervention Type: Other Information:

Location

Zone: Site: Location Comments:

Building: Building Location: <https://gis.cern.ch/gisportal/>

Room: Room Location: <https://gis.cern.ch/gisportal/>

Call Nature

Family: Nature Comments:

Category 1:

Category 2:

Category General:

Compute Deployment

The following have to go on site: When code is ready click on "Compute Deployment"

The following have to be informed:: When code is ready click on "Compute Deployment"


Open Days / CERN60 Voisins

Volunteers management

- Registrations
- Visit point/role assignment
- Email communication
- Statistics

Implemented in less than
one week

CERN Accelerating science Signed in as: bsit



CERN60 volunteers
[Home](#) [Roles](#) [Public website](#)

YEARS/ANS CERN

First Name, Last Name *

Gender *

Mobile phone

Mother tongue *

Additional languages English
 Français
Please choose a language ONLY if the you have a conversational level

Visit point *

Other visit points? * If from the organisation point of view it's necessary, I agree to volunteer for another visit point

Availability

Saturday morning

Saturday afternoon

Sunday morning

Sunday afternoon

Favorite role *

Other role(s)

Cloakroom

Dosimeter handling

Group forming operator

Info mobile agent

Info/check-in operator

Lift marshal

Parking marshal

Alimentary restrictions No
 I am vegetarian

Comments

Future Circular Collider

Web platform for FCC

- Internet public facing site
- Collaboration platform
- Project management

The screenshot displays the 'FCC Collaboration' web platform. At the top, it features the CERN logo and navigation links for 'Public', 'Documents', 'Tools', 'Help', 'Recent', and 'EuroCirCol'. The main content area is titled 'FCC-Management' and includes a sub-menu with 'FCC Management', 'Tasks', 'Institutes', 'Institutes by Task', and 'Human Resources'. Below this, there is a search bar and a table listing project tasks. The table has columns for 'Key', 'Title', 'Associated', and 'Tags'. The tasks are listed in a hierarchical structure, starting with 'Accelerators' and 'Hadron injectors', and further sub-categorized into design parameters and machine design details.

Key	Title	Associated	Tags
1	Accelerators		Hadron, Tuning
1.1	Hadron injectors		
1.1.1	Overall design parameters		
1.1.1.1	Performance and gap of existing injector chain		
1.1.1.2	Performance and gap of existing injector chain		
1.1.1.3	Baseline parameters for hadron collider and HE-LHC option		
1.1.2	Functional machine design		
1.1.2.1	Beam dynamics and collective effects		
1.1.2.2	Collimation concepts		
1.1.2.3	Injection and extraction design		
1.1.2.4	Ion beam operation design considerations		
1.1.2.5	Lattice design and single particle dynamics		
1.1.2.6	Machine protection needs and concepts		

CMS Secretariat

Collaboration platform

- Internal procedures
- Meeting rooms reservation
- Inventories

The screenshot displays the CMS Secretariat Team Site interface. At the top, it shows 'CERN Accelerating science' and 'Signed in as: bsilvade (CERN)'. The main navigation bar includes 'Collaboration Workspaces', 'BROWSE', and 'PAGE'. The site title is 'CMS Secretariat Team Site'. A left sidebar contains navigation links: 'Meetings', 'Special Tasks', 'Team Tasks', 'My Tasks', and 'Recent'. The main content area features a 'Newsfeed' with a search bar and a list of posts by Nicoletta Barzaghini and Zsuzsanna Garai. The right sidebar has a 'Visit CMS' section with a file upload area and a grid of image thumbnails labeled with IDs like 'DSC_0039', 'DSC_0040', 'DSC_0042', 'DSC_0053', 'DSC_0056', 'IMG_4146', and 'IMG_4151'. Below the images, it lists 'Our Collaborators!' including 'Violette Clavel' and 'BLD 42'.

THE Port

Collaboration platform

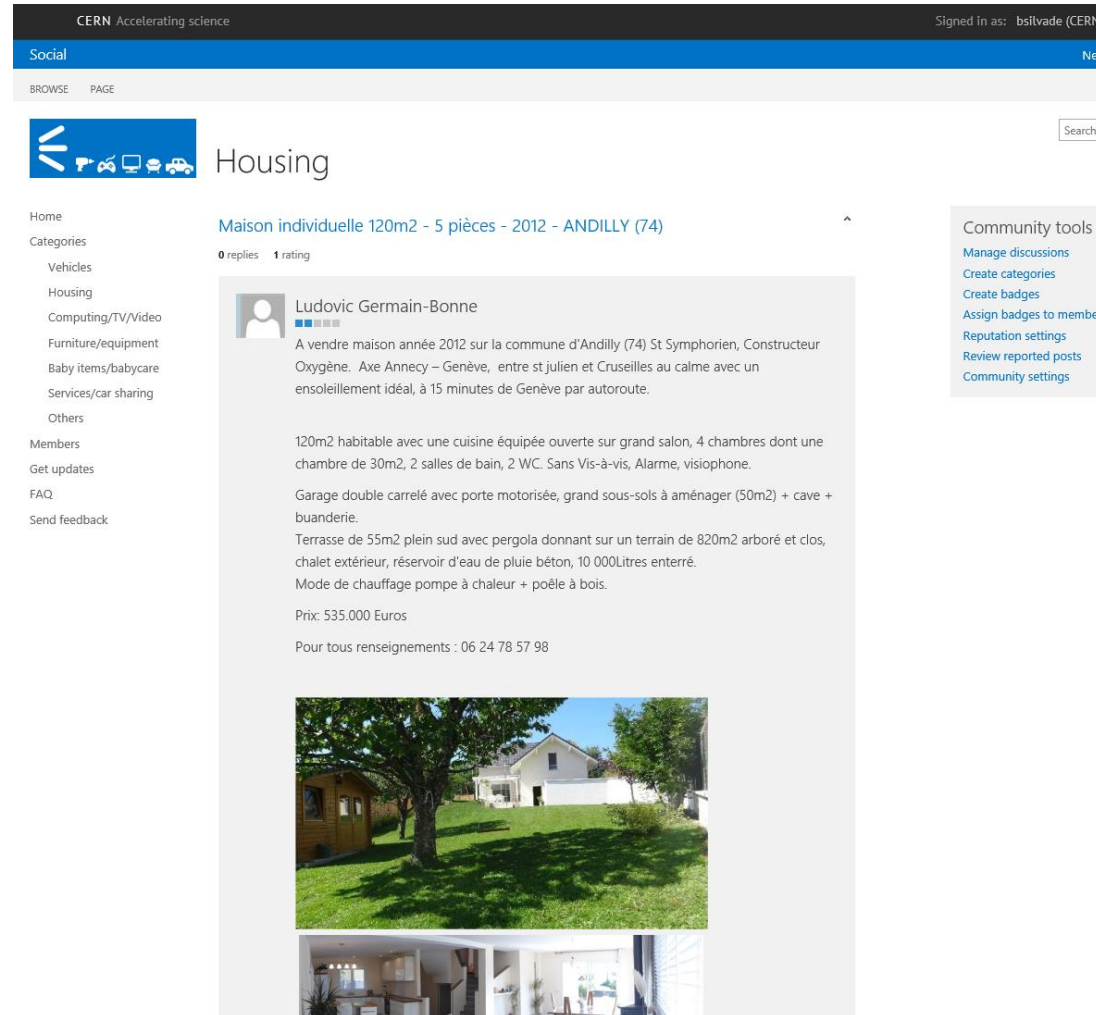
- Event organization
- Documentation
- Experts registration
- Teams collaboration space
- Sharing ideas and discussion

The screenshot shows the 'THE Port' collaboration platform interface. At the top, it displays 'CERN Accelerating science' and 'Signed in as: bsilvade (CERN)'. The main header is 'Collaboration Workspaces' with a search bar. Below this, the 'Pier83' workspace is shown, including navigation links like 'Home', 'Notebook', 'Tasks', and 'Resources'. The main content area is titled 'Home' and contains a paragraph about land mine detection using search dogs. Below this is a 'Newsfeed' section with a search bar and a list of posts. The first post is by Drasko Draskovic, discussing a team name poll. A reply by aissatou.boussoura@gmail.com provides four potential names. Other replies discuss the names and mention PETA. To the right, there are sections for 'Mailing lists' (including 'THEPort-Pier83@cern.ch'), 'Inspiring Links' (with a link to 'Norwegian People's Aid'), and 'Notes' (with a note about understanding current procedures).

CERN Market

Classifieds portal for CERN People

- Ratings for sells
- Logon with Google Facebook accounts
- No need to register lightweight
- Nice discussion forum can be created with a couple of clicks



The screenshot displays the CERN Market Classifieds portal. At the top, the header reads "CERN Accelerating science" and "Signed in as: bsilvade (CERN)". The main navigation bar is blue with the word "Social" and a search box. Below the navigation bar, there are icons for various categories: Home, Vehicles, Housing, Computing/TV/Video, Furniture/equipment, Baby items/babycare, Services/car sharing, and Others. The "Housing" category is selected, and the listing for "Maison individuelle 120m2 - 5 pièces - 2012 - ANDILLY (74)" is displayed. The listing includes a profile picture of Ludovic Germain-Bonne, a rating of 1 star, and a description of the property. The property details include: "120m2 habitable avec une cuisine équipée ouverte sur grand salon, 4 chambres dont une chambre de 30m2, 2 salles de bain, 2 WC. Sans Vis-à-vis, Alarme, visiophone. Garage double carrelé avec porte motorisée, grand sous-sols à aménager (50m2) + cave + buanderie. Terrasse de 55m2 plein sud avec pergola donnant sur un terrain de 820m2 arboré et clos, chalet extérieur, réservoir d'eau de pluie béton, 10 000Litres enterré. Mode de chauffage pompe à chaleur + poêle à bois. Prix: 535.000 Euros. Pour tous renseignements : 06 24 78 57 98". There are two images: one showing the exterior of the house and another showing the interior of the living area. On the right side of the page, there is a "Community tools" section with links for "Manage discussions", "Create categories", "Create badges", "Assign badges to members", "Reputation settings", "Review reported posts", and "Community settings".

BE IPAC papers approval

Papers approval system for conferences

- Approval based on pre-defined workflow
- 3 levels of approval
- Notifications by email
- Can approve, request change or reject

The screenshot shows a web application interface for the BE IPAC papers approval system. The page title is "IPAC Paper approval Tasks: IPAC paper approval - Flat bunches in the LHC". The interface includes a navigation menu with options like "BE Home", "ABP - Accelerators and Beam Physics", "ASR - Administration, Safety and Resources", "BI - Beam Instrumentation", "CO - Controls", "OP - Operation", and "RF - Radio-Frequency". A "Delete Item" button is visible. A yellow banner indicates "This workflow task applies to Flat bunches in the LHC." The main content area contains a message: "Your approval is requested for the paper above. Please click on the above link to see all details". Below this message are five buttons: "Approve", "Request Change", "Reassign Task", "Reject", and "Close window". Each button has a corresponding note explaining its function. The "Approve" button note states: "- The paper will be sent to the next approval level." The "Request Change" button note states: "- Note: Request change should only be selected for major changes. The author will be notified of your request and the paper will be sent back to you for approval once the changes are made. Minor changes can be made directly in the document using track changes (in word) or comments (with Adobe). Once your changes are made you can click on save and approve." The "Reassign Task" button note states: "- Assign task to person other than GL or DH. Once approved by the third party the paper will be sent to the next level of approval." The "Reject" button note states: "- Paper will no longer be considered for the conference". The "Close window" button has no note. Below the buttons, the "Requested by" field is filled with "Elena Chapochnikova". The "Comments history" section shows three entries: "IPAC paper approval started by Elena Chapochnikova on 26/05/2014 09:22", "Approved by Elsa Gavriil on 26/05/2014 09:40", and "Approved by Erk Jensen on 29/05/2014 11:06".

Some examples

There are many more:

- Internal audits management tool
- CERN Pension fund – risks management
- Finances – risks management
- EN – Simplified Procedure For Ordering Electrical Work
- EN-MEF – OSVC control
- HR – QNow
- TE/VSC – jobs management tool

...

What's new


Better to try it 😊

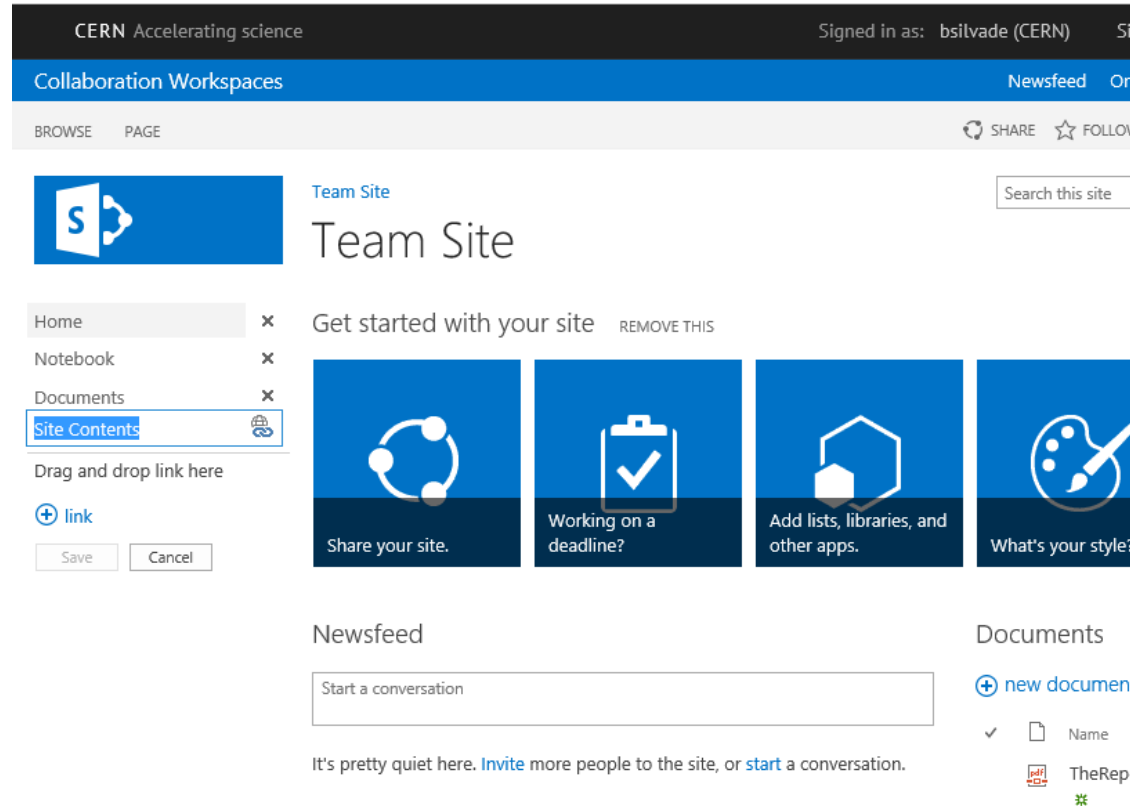
If you have a laptop go to
<https://cern.ch/sp-sandbox>
and play around!



What's new

New look and feel

- Simpler and cleaner interface
- CERN Toolbar
- Some buttons moved
 - Well known Site Actions button moved to the right 
- Less clicks to get things done

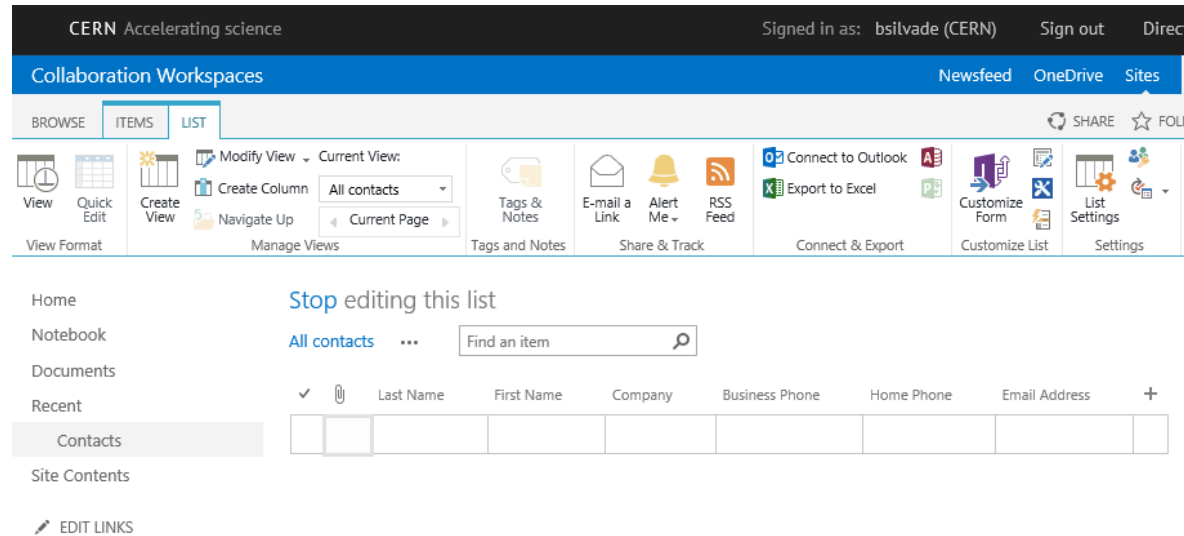


The screenshot displays the CERN Collaboration Workspaces interface. At the top, the header includes 'CERN Accelerating science' and 'Signed in as: bsilvade (CERN)'. Below this is a blue navigation bar with 'Collaboration Workspaces' and 'Newsfeed'. A secondary bar contains 'BROWSE PAGE', 'SHARE', and 'FOLLOW'. The main content area is titled 'Team Site' and features a sidebar with navigation options: Home, Notebook, Documents, and Site Contents (highlighted). Below the sidebar is a 'Drag and drop link here' section with a '+ link' button and 'Save'/'Cancel' buttons. The main content area includes a 'Get started with your site' section with four action tiles: 'Share your site.', 'Working on a deadline?', 'Add lists, libraries, and other apps.', and 'What's your style?'. Below this is a 'Newsfeed' section with a 'Start a conversation' input field and a message: 'It's pretty quiet here. Invite more people to the site, or start a conversation.' On the right, a 'Documents' section shows a '+ new document' button and a list of documents, including one titled 'TheRep' with a PDF icon and a green asterisk.

What's new

Better browser compatibility

- Drag and drop
- Quick edit mode
- Replaces datasheet view that used to work only with Internet Explorer



The screenshot displays the CERN Collaboration Workspaces interface. At the top, it shows the CERN logo and the text "Accelerating science". The user is signed in as "bsilvade (CERN)". The main navigation bar includes "Collaboration Workspaces", "Newsfeed", "OneDrive", and "Sites". The interface is divided into several sections:

- Navigation:** "BROWSE", "ITEMS", and "LIST" tabs are visible, with "LIST" selected.
- Tools and Actions:** A row of icons for "View", "Quick Edit", "Create View", "Modify View", "Create Column", "Navigate Up", "Tags & Notes", "E-mail a Link", "Alert Me", "RSS Feed", "Connect to Outlook", "Export to Excel", "Customize Form", and "List Settings".
- Current View:** A dropdown menu shows "All contacts" and "Current Page".
- Left Sidebar:** A navigation menu with options: Home, Notebook, Documents, Recent, **Contacts** (highlighted), Site Contents, and EDIT LINKS.
- Main Content Area:** A table titled "All contacts" with columns: Last Name, First Name, Company, Business Phone, Home Phone, and Email Address. A search bar "Find an item" is located above the table. The table currently shows one empty row.

What's new

Themes

- Many themes available
 - “Change the look” under the gear icon
- Simpler to customize the look and feel
 - Set background image
 - Change colors and fonts
- 2 different layouts

The screenshot displays the 'Site Settings' interface for 'CERN Accelerating science'. The main heading is 'Site Settings · Change the look'. On the left, there are controls for 'Start over', a 'Drop an image here' area, 'Colors' (with a color palette), 'Site layout' (set to 'Oslo'), and 'Fonts' (with 'Segoe UI Light' and 'Segoe UI' selected). On the right, a 'Try it out' button is visible. The main preview area shows a site layout with a blue header, 'SITE TITLE', navigation links, a search bar, and a table of documents.

Name	Modified	Status
First Document Title	10/21/2011	Pending Review
Second Document Title	10/22/2011	Pending Review
Third Document Title	10/22/2010	Approved

What's new

Newsfeed

- New communication channel for your team
- Doesn't interrupt as email
- Promote discussion and sharing
- Informal and lightweight
- Unique place to find all conversations

CERN Accelerating science Signed in as: bsilvade (CERN)

Collaboration Workspaces

BROWSE PAGE TIMELINE Search this site

IT/OIS Internals Webservices Mailservices Desktops Windows infrastructure Printing Service Service Management Monitoring PC Hardware Certific

CERN Search
Drupal (url missing)
SharePoint
SharePoint 2010
SharePoint 2013
WebServices
Major activities
Mail team
EDIT LINKS

Web Services

Newsfeed

Start a conversation

Manuel Malo de Molina
Windows Authentication is now enabled in our web service (webadmins-services-iis7). If you need to run as admin, you need to open the browser with /runas, or use it from another machine logged as adm
@ You like this.
Yesterday at 11:16 Unlike Reply ...
▼ Show all 7 replies

Sergio Fernandez Casado I almost had them remembered :) but this is a nice reference for future uses.
6 hours ago Like Follow Sergio Fernandez Casado ...

Mario Rey Regulez The thing about not using Normal was to avoid the EnforceWebServicesPolicy flag for a website called 'ami'.
6 hours ago Like ...

Add a reply

Mario Rey Regulez
I've made a proposal for a new organization of our Web Services help pages. Any more ideas? https://espace2013.cern.ch/test-mrsp2013/_layouts/15/start.aspx#/page/Home.aspx (you should have access with your admin accounts).
Monday at 09:24 Like Reply ...

Bruno Silva De Sousa Sounds very good to me! What about adding a Newsfeed/Social Community to the site to interact with our users - for things not related with support?
Monday at 12:01 Like ...

Mario Rey Regulez I've just moved this document to our webservices document library, I don't know why I didn't do it before
<https://espace2013.cern.ch/it-dep-is-internals/Webservices/Webservices%20site%20development/webservices-help%20proposal.aspx>
6 hours ago @ 1 Unlike ...

Add a reply

Bruno Silva De Sousa
Looks like webredir servers are using a Verisign certificate... is there any special reason or we can use *.cern.ch?
22 September Like Reply ...

WHERE THE WEB WAS BORN

In the offices of this corridor, all the fundamental ideas of the World Wide Web were developed.

Started in 1989 from a proposal made by Tim Berners-Lee, the Web was first divided between an office in the Networking Division (CN) and one in the Computing for Physics Division (CC).

In 1991 the team came together to form the World Wide Web Consortium (W3C), a worldwide organization for the development and maintenance of the Web to its full potential. The W3C was created by Tim Berners-Lee, Robert Calliau (CEA), and Marc Andreessen (MIT), the Institut National pour la Recherche Scientifique (INRS), and the Advanced Research Center for Science and Technology (ARCS).

In 1995 Tim Berners-Lee and Robert Calliau received the World Wide Web Award from the European Commission, the Massachusetts Institute of Technology (MIT), the Institut National pour la Recherche Scientifique (INRS), and the Advanced Research Center for Science and Technology (ARCS).

The CERN Library
June 2004

What's new

Integration with Social

- Follow and contribute on all your Collaboration Workspaces in a single place <https://social.cern.ch>
- More details about Social <http://cern.ch/go/LZ9z>

The screenshot displays the CERN social workspace interface. At the top, there is a navigation bar with 'Collaborating science' on the left and 'Signed in as: bsilvade (CERN) Sign out Directory' on the right. Below this is a green header for 'Workspaces' with 'Newsfeed', 'OneDrive', and 'Sites' options. A search bar is present on the right. The main content area features a 'Pier19' workspace header with a logo and navigation links: 'Home', 'Notebook', 'Tasks', 'Resources', and 'EDIT LINKS'. A search box labeled 'Search this site' is also visible. The main feed shows a post titled 'Pier19' with a green banner and a grid of user avatars. Below the post, there are sections for 'Mailing lists' (listing 'THEPort-Pier19@cern.ch') and 'Inspiring Links' (listing 'Sensefly', 'Terabee', and 'Samira'). A 'SHOW MORE POSTS' link is located below the feed. At the bottom, there is a 'Summary' section with a timeline for 'Inferencia' from 24 September to 29 September, with a '+ ADD TASK' and 'EDIT LIST' option.

What's new

Office Web Apps

- Browser-based for Word, PowerPoint, Excel, OneNote and PDF files
- Multiple users editing
 - At the cell level on Excel
 - Paragraph lock on Word
 - Works also with Office 2013 as long as document are stored on SharePoint
- Tablets and mobiles too

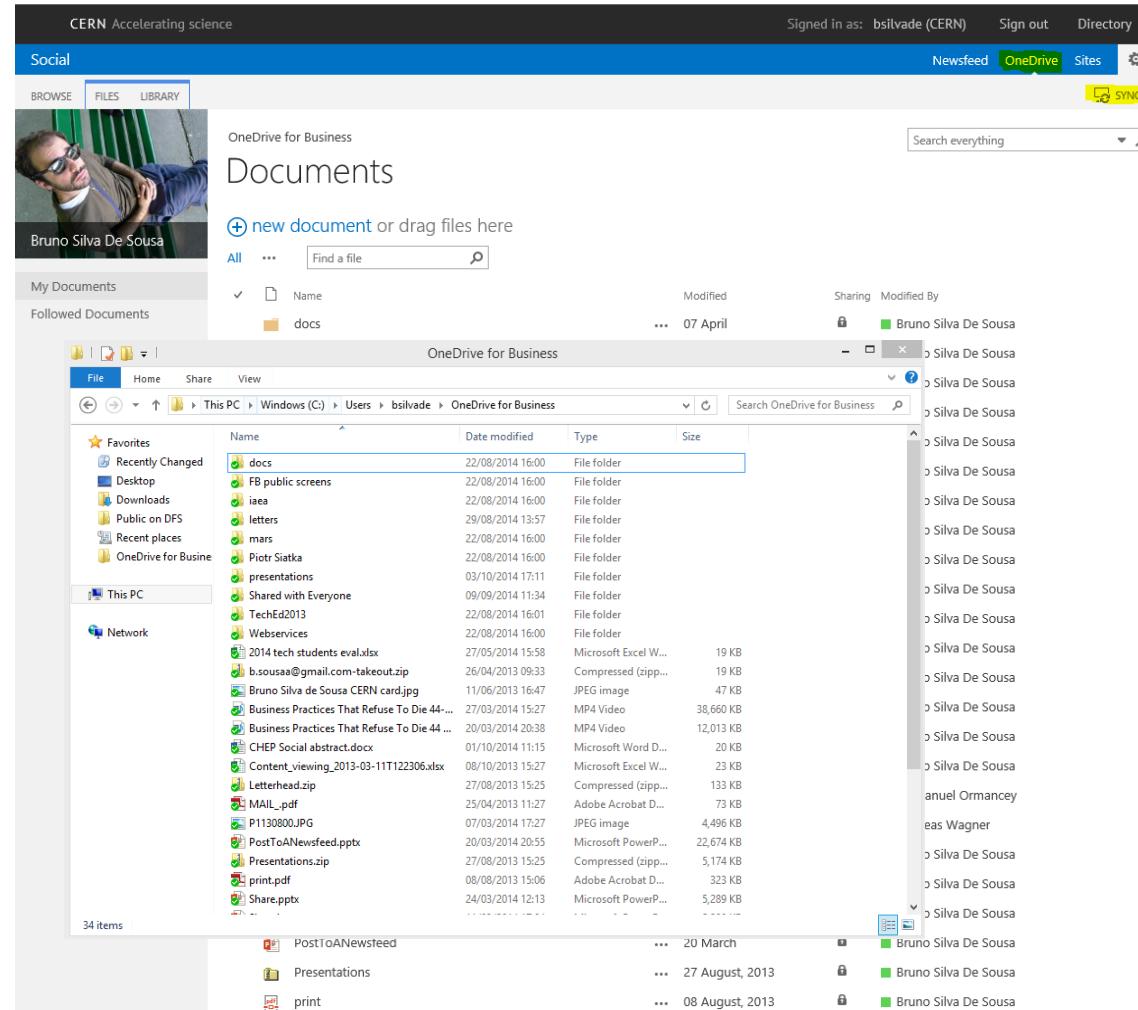
The screenshot displays the Office Web Apps interface. On the left, an Excel spreadsheet is visible with columns A, B, and C. The data in column B is highlighted in green. The main area shows a Word document with placeholder text like 'Lorem ipsum' and 'Phasellus'. On the right, a PowerPoint slide titled 'Enterprise Social' is shown, featuring a blue header and a white body with two bullet points. The interface includes a top navigation bar with 'FILE', 'EDIT PRESENTATION', 'SHARE', 'START SLIDE SHOW', and 'COMMENTS'. The bottom of the screen shows a status bar with 'PAGE 1 OF 1' and a navigation pane with 'Sheet1' and 'Sheet2'.

- Use of technologies to create value by connecting members of an organization
- Like public social media (Facebook, Twitter, G+) but for organizations

What's new

OneDrive for Business

- Access documents when offline
- Personal space on OneDrive option
- 7GB quota for the moment
- You can also synchronize any document library from Collaboration Workspaces




What's new

InfoPath 2013

- Nothing new
 - But easy and useful and maybe not very well know
- Develop simple web forms with no code
 - Some logic can be added like validation, auto-resolve, etc...

Inscriptions - New Item



Please tick all activities you are happy to perform and all timeslots you can make.

Activity

I have no preference for a specific activity.

Underground Guide

Surface Guide

Lecturer

Activity Animator

Bus Guide

I have no preference for a specific location.

LHC Point 1 - ATLAS

LHC Point 2 - ALICE

LHC Point 4 - RF

LHC Point 5 - CMS and TOTEM

LHC Point 6 - Accelerator Systems

Time Slot(s)

Saturday, September 28th, morning

Saturday, September 28th, afternoon

Sunday, September 29th, morning

Sunday, September 29th, afternoon

If you are already scheduled for a specific work in your experiment/installation, please let us know within the comment box below, otherwise you will be assigned to a task according to your choice above, if possible.

Activity Comments

Fransais

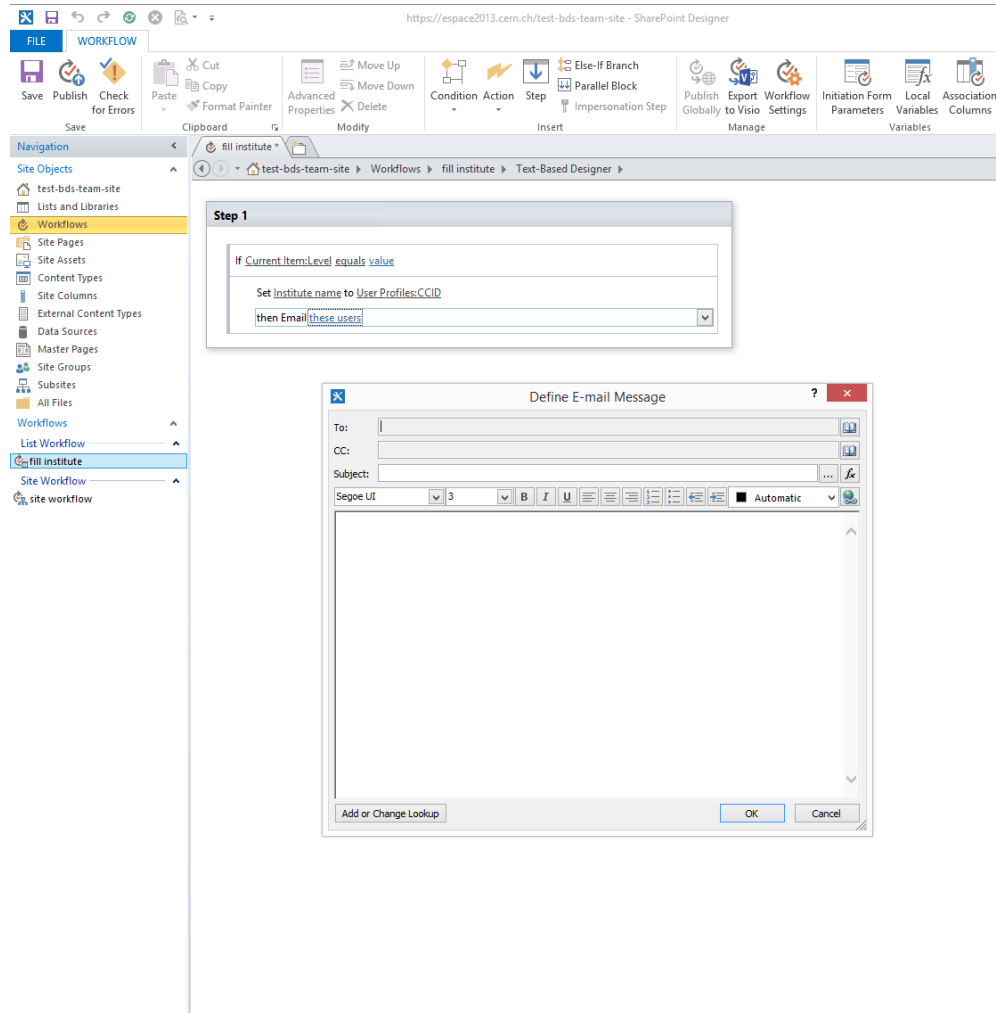
Next

2/4

What's new

Workflows

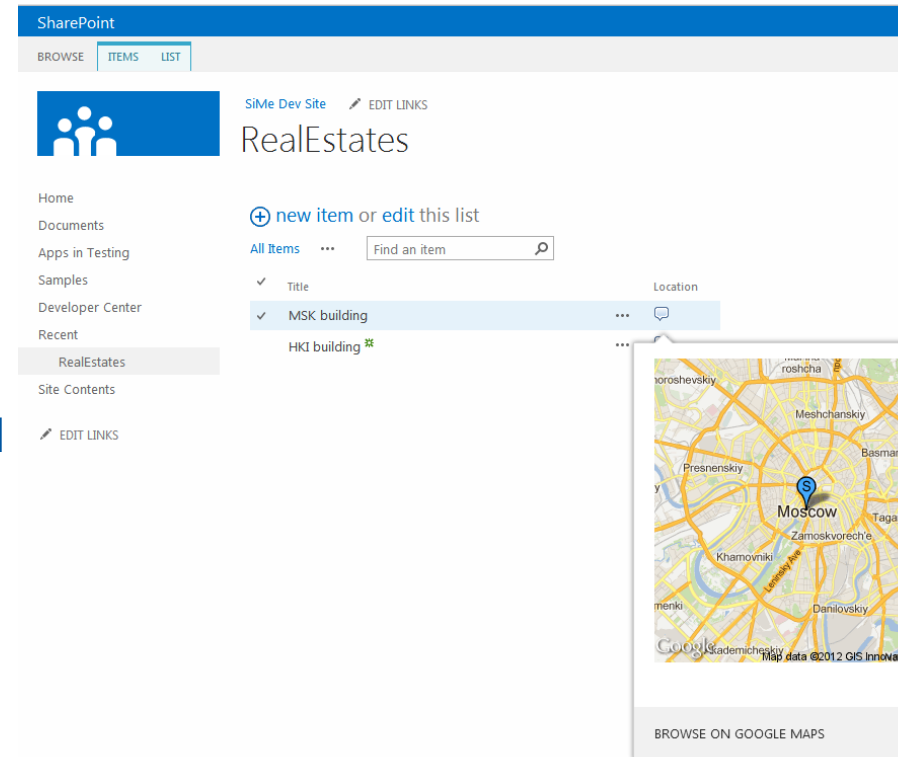
- Trigger actions when content is added/modified on a list
 - E.g. send email, start approval, send data
- Create workflows with SharePoint Designer 2013
- New workflows engine available soon
 - Call Web Services, loops, pauses, wait for events
 - You can make scheduled tasks running on your site



What's new

For developers

- REST API using OData protocol
- CORS support with SSO authentication
- How or write data from any CERN site into SharePoint e.g. Social API on Drupal site
- List views customizations supported with JSOM



Q&A and discussions at <https://cern.ch/sharepoint2013/>

Discontinued features

Meetings Workspaces site type

- Existing ones still work
- Cannot create new ones
- Use Team Site instead
- If your site contains those we will contact you

Design view on SharePoint Designer

- No more WYSIWYG XLST transformations
- Which isn't bad
- Use CSOM instead
- Better and easier code to maintain

Migration

All Workspaces will be migrated to 2013

- We need you to upgrade your sites running with 2007 layout to 2010
- If that's the case we will get in touch with you

If your site is ready you can request migration now – via Service Desk



<https://www.flickr.com/photos/53806810@N06/7958547110>

More information

Service support via Service Desk

Community site with Q&A, tips, how-to's

- <https://cern.ch/sharepoint2013>

Training available at CERN

- SharePoint Collaboration Workspace – Level 1
- SharePoint Collaboration Workspace – Level 2
- <https://cta.cern.ch>

Plenty of online resources available on the Web

- Training courses for SharePoint 2013 <http://bit.ly/1yxFNW7>
- How-to videos on YouTube

Recommendations

SharePoint can help you on

- Team collaboration
- Business processes automation
- Save time and money

Can quickly adapt to new business scenarios

- Play by the rules with no-code solutions

Sometimes its better to adapt the process to SharePoint then the opposite

- or it comes at a cost

Take this migration as an opportunity to review your site and add new features

Questions?

...and thanks for your attention!