



SDCC – CMS Update

A New CMS for a New Decade: Content Management at
SDCC



BROOKHAVEN SCIENCE ASSOCIATES

Task at hand:

- Determine and select new content management system (CMS) that is easy to navigate for the content creator and has an appealing design for the user
- Restructure of previous SDCC sites utilizing new CMS
- Creation of content management theme to bring all sites under the SDCC under one uniform look for better user experience
- Automate deployment of CMS for quick setups
- Streamline update of security patches to minimize attacks of CMS

Background

- Some original sites already implemented a CMS, a decision was made to explore alternatives based on look and security
- To streamline navigation the CMS would need to be capable of integrating a centralized SSO providing an additional layer of security while not hindering the user experience

Welcome to the RACF WebDocs Portal

by John S. De Stefano Jr. — last modified Dec 12, 2017 09:55 AM
Contributors: Shigeli Misawa

This site is for internal RACF consumption only.
Welcome to the RACF Internal Web server, known as "WebDocs". This site is for documentation for RACF staff members only. Any other information, including end-user documentation, should be created on the public site.

An additional web hierarchy is provided for external, authenticated user content on the external authenticated site.

Getting Started
Most documentation likely belongs in the [Services](#) folder in the Documentation area; other Documentation folders are meant to include links to, or logical views and collections of, the information stored in Services.

See Using Plone to learn how to make use of this site and contribute to its information, and for some tips and troubleshooting information.

Then, try and create some documentation, upload some image files, or make suggestions for improving the site.

Information
About this web site and the RACF facility:

- Start with frequently asked questions (please add your own questions to that list)
- View RACF Staff Contact Information
 - Facility coverage lists:

Links
Links to other sites:

- Public RACF facility site
- Authenticated RACF facility site
- BNC
- BRAHMS

Current desktop web view

Log in

Login Name
Password
Log in

Forgot your password?

September 2020

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
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			

What's New in the RACF

Reminder: Changes to SDCC facility password policies and tools.

Log in

Search Site Search only in current section

Home Documentation Events

Members News Projects

RACF Electronic Logbook Tools

You are here: Home

Welcome to the RACF WebDocs Portal
by John S. De Stefano Jr. — last modified Dec 12, 2017 09:55 AM
Contributors: Shigeli Misawa

This site is for internal RACF consumption only.
Welcome to the RACF Internal Web server, known as "WebDocs". This site is for documentation for RACF staff members only. Any other information, including end-user documentation, should be created on the public site.

An additional web hierarchy is provided for external, authenticated user content on the external authenticated site.

Getting Started
Most documentation likely belongs in the [Services](#) folder in the Documentation area; other Documentation folders are meant to include links to, or logical views and collections of, the information stored in Services.

See Using Plone to learn how to make use of this site and contribute to its information, and for some tips and troubleshooting information.

Then, try and create some documentation, upload some image files, or make suggestions for improving the site.

Information
About this web site and the RACF facility:

- Start with frequently asked questions (please add your own questions to that list)
- View RACF Staff Contact Information
 - Facility coverage lists:

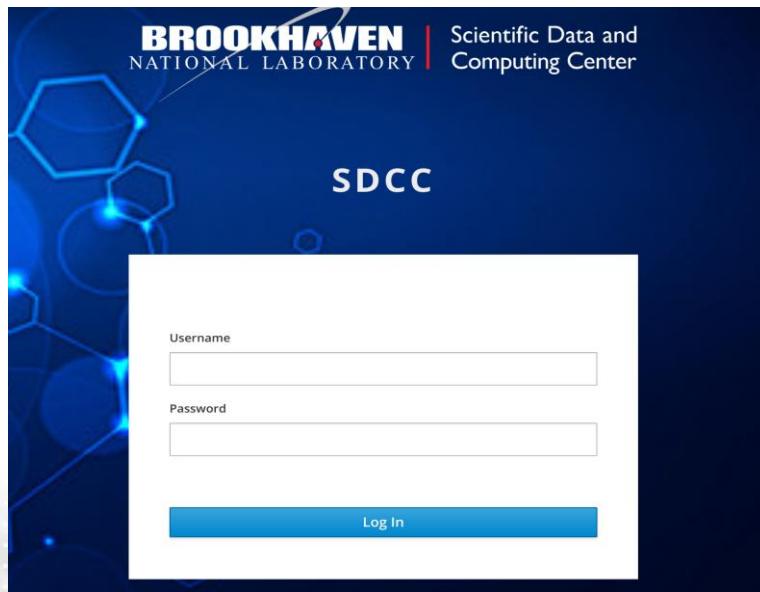
Links
Links to other sites:

- Public RACF facility site
- Authenticated RACF facility site
- BNC
- BRAHMS

Current mobile view

CMS Considerations:

- CMS needs compatibility with current Keycloak setup for BNL/SDCC users
- Larger project sites need to integrate federated login for multiple institutions
- CMS should allow users without web experience to create and edit pages easily
- Sites should be able to be easily backed up and transferred should the need arise



Evaluated CMS' :

- Wordpress
- Joomla
- Drupal
- Plone
- Hugo
- Jekyll

How they stack up

Wordpress:

- Most popular CMS – ~35% of all sites run on WordPress
- Highly customizable
- Major release goes out every 4 to 5 months
- Large library of open source plugins and modules for customization
- SSO provided by third party, paid license
- Written in PHP7
- Easy to use interface for a non developer user

Joomla:

- Third party open source plugins and modules for customization
- Written in PHP7
- SSO provided by third party, paid license
- Steep learning curve for a non developer

Drupal:

- Best in security among reviewed CMS ([as of 2018 reporting](#))
- Large community of open source developers providing modules, plugins, themes
- SSO provided by open source community
- Written in PHP7
- Easy to use interface for content creation

How they stack up (cont)

Plone:

- Built in Python
- Version 5.2+ capable of using Python 2.7.14, 3.6, 3.7
- Large community of open source modules and plugins
- Lack of SSO integration with current Keycloak setup

Hugo:

- Markdown based
- Utilizes GO programming language
- Most development will be on backend, no webui for user content creation
- Steep learning curve for a non developer

Jekyll:

- Markdown based
- Built in Ruby using Gems
- Similar to Hugo no webui

Drupal

- Quick deployment utilizing composer and prebuilt modules for pages, authentication, and themes
- Easily customizable from within the webui with further customization done by php development on backend
- Regularly updated with security patches with the ability to provide notifications via email to site administrators
- Updates are performed easily through composer with the added ability to keep modules at specific versions

The screenshot shows the official Drupal website homepage. At the top, there is a blue navigation bar with the Drupal logo, the word "Drupal" in white, and links for "Why Drupal?", "Build", "Solutions", "Services", "Community", "Resources", "Give", "Events", "Try Drupal", a search icon, and a user profile icon. Below the navigation bar is a large blue header section featuring the Drupal logo and the word "Drupal" in a large, bold, white sans-serif font. To the right of the logo is a video thumbnail showing three people in a meeting, with the text "Drupal 9 released" and "More than 1 MILLION developers, designers, trainers, strategists, coordinators, editors, and sponsors". Below the video thumbnail is a "Learn about Drupal 9" button. The main body of the page has a dark blue background.



Drupal for Developers

Download Drupal and build the open web



Drupal for Marketers

In a world full of templates, be original



Drupal for Agencies

Achieve your clients' ambition

Benefits of Drupal

Roles ★

List Permissions Roles

Home » Administration » People » Roles

A role defines a group of users that have certain privileges. These privileges are defined on the [Permissions page](#). Here, you can define the names and the display sort order of the roles on your site. It is recommended to order roles from least permissive (for example, Anonymous user) to most permissive (for example, Administrator user). Users who are not logged in have the Anonymous user role. Users who are logged in have the Authenticated user role, plus any other roles granted to their user account.

+ Add role Show row weights

NAME	OPERATIONS
Anonymous user	Edit
Authenticated user	Edit
Atlas Authenticated	Edit
Atlas Management	Edit
Administrator	Edit

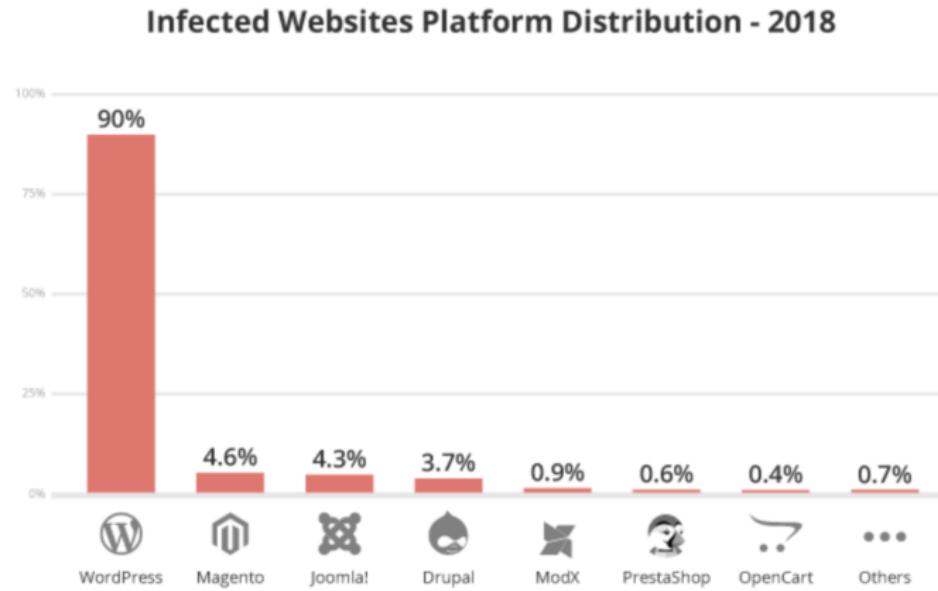
Save

Roles:

- From within Drupal administrators are able to provide specific elevated command usage to logged in contributors
- Ability to control page accessibility through a combination of role mapping and authentication
- Editorial workflow allowing site moderators to control page edits from contributors

Security

- Drupal provides email notification regarding updates to vital security patches and can be configured to notify for any updates to modules or core as well
- As a popular CMS it is regularly updated to combat cyber attacks



<https://sucuri.net/reports/2018-hacked-website-report/>

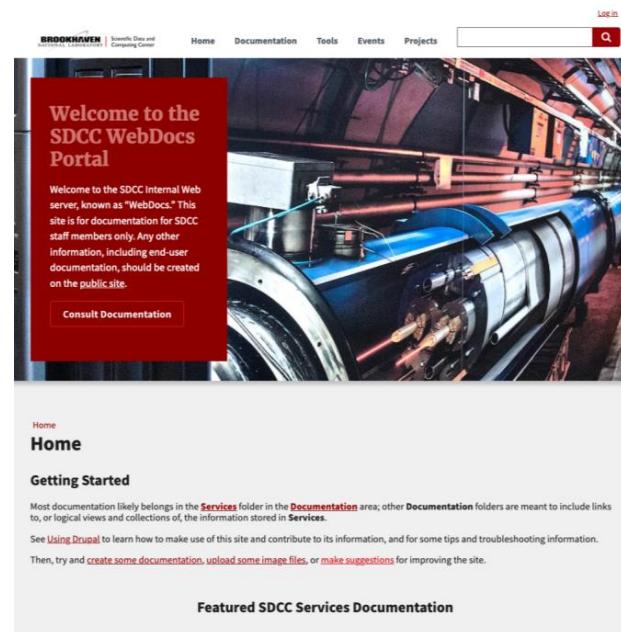
Initial Site Built with Drupal

SDCC WebDocs

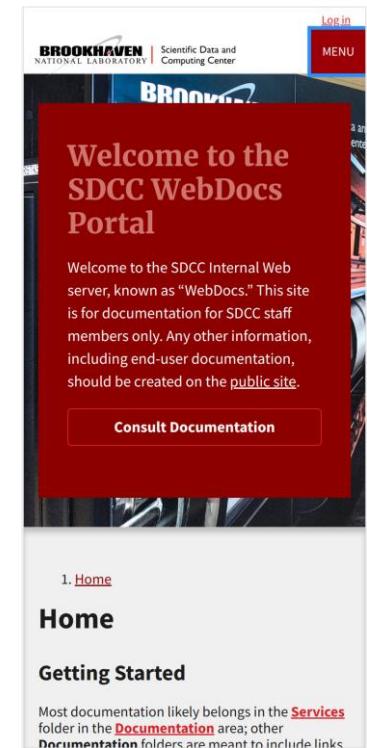
Internal documentation site available for staff of SDCC computer resources.

Key features:

- Authentication easily managed through usage of Keycloak Drupal module
- Updated responsive web theme allowing for modernization and accessibility on multiple platforms
- User friendly WebUI for content creation and moderation



Site as seen on desktop browser



Site as seen on mobile

New vs Old Design



Welcome to the SDCC WebDocs Portal

Welcome to the SDCC Internal Web server, known as "WebDocs." This site is for documentation for SDCC staff members only. Any other information, including end-user documentation, should be created on the [public site](#).

[Consult Documentation](#)

1. [Home](#)

Home

Getting Started

Most documentation likely belongs in the [Services](#) folder in the [Documentation](#) area; other [Documentation](#) folders are meant to include links to, or logical views and collections of, the information stored in [Services](#).

[Log in](#)

Search Site Search

only in current section

Home	Documentation	Events
Members	News	Projects
RACF Electronic Logbook	Tools	

You are here: [Home](#)

Welcome to the RACF WebDocs Portal

by John S. De Stefano Jr. — last modified Dec 12, 2017 09:55 AM

Contributors: Shigeki Misawa

This site is for internal RACF consumption only. Welcome to the RACF Internal Web server, known as "WebDocs". This site is for documentation for RACF staff members only. Any other information, including end-user documentation, should be created on the [public site](#). An additional web hierarchy is provided for external, authenticated user content on the [external authenticated site](#).

Getting Started

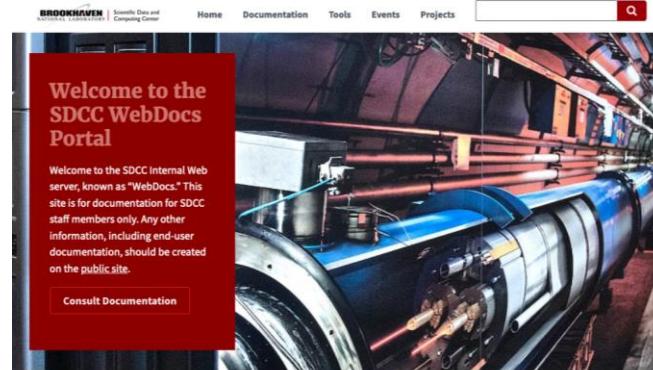
Most documentation likely belongs in the [Services](#) folder in the [Documentation](#) area; other [Documentation](#) folders are meant to include links to, or logical views and collections of, the information stored in [Services](#).

See [Using Plone](#) to learn how to make use of this site and contribute to its information, and for some tips and troubleshooting information.

Then, try and [create some documentation](#), [upload some image files](#), or [make suggestions](#) for improving the site.

[Information](#)

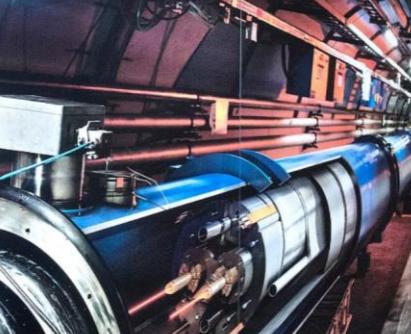
[Links](#)



Welcome to the SDCC WebDocs Portal

Welcome to the SDCC Internal Web server, known as "WebDocs." This site is for documentation for SDCC staff members only. Any other information, including end-user documentation, should be created on the public site.

[Consult Documentation](#)



[Home](#)

Home

Getting Started

Most documentation likely belongs in the [Services](#) folder in the [Documentation](#) area; other [Documentation](#) folders are meant to include links to, or logical views and collections of, the information stored in [Services](#).

See [Using Drupal](#) to learn how to make use of this site and contribute to its information, and for some tips and troubleshooting information.

Then, try and [create some documentation](#), [upload some image files](#), or [make suggestions](#) for improving the site.

Featured SDCC Services Documentation



RACF WebDocs Portal

Home	Documentation	Events	Members	News	Projects	RACF Electronic Logbook
----------------------	-------------------------------	------------------------	-------------------------	----------------------	--------------------------	---

You are here: [Home](#)

Welcome to the RACF WebDocs Portal

by John S. De Stefano Jr. — last modified Dec 12, 2017 09:55 AM

Contributors: Shigeki Misawa

This site is for internal RACF consumption only. Welcome to the RACF Internal Web server, known as "WebDocs". This site is for documentation for RACF staff members only. Any other information, including end-user documentation, should be created on the [public site](#).

An additional web hierarchy is provided for external, authenticated user content on the [external authenticated site](#).

Getting Started

Most documentation likely belongs in the [Services](#) folder in the [Documentation](#) area; other [Documentation](#) folders are meant to include links to, or logical views and collections of, the information stored in [Services](#).

See [Using Plone](#) to learn how to make use of this site and contribute to its information, and for some tips and troubleshooting information.

Then, try and [create some documentation](#), [upload some image files](#), or [make suggestions](#) for improving the site.

Information

About this web site and the RACF facility:

- Start with [frequently asked questions](#) (please add your own questions to that list)
- [View RACF Staff Contact Information](#)
 - Facility coverage lists:

Links

Links to other sites:

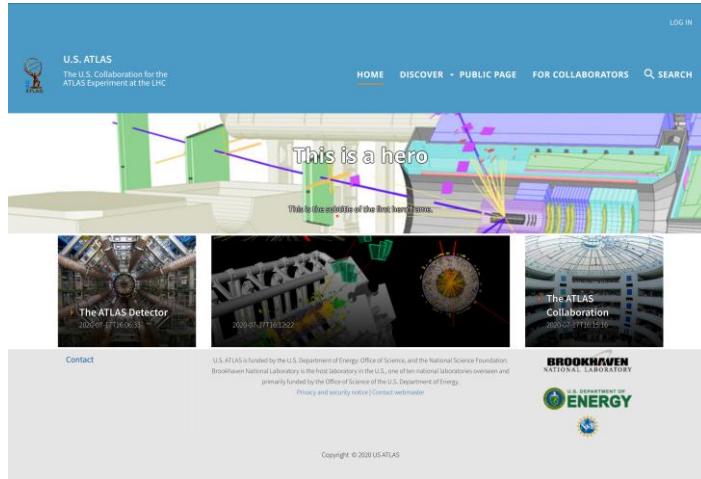
- Public RACF facility site
- Authenticated RACF facility site
- BNL
- BRAHMS

Deployment

- SDCC deployment has been automated through Puppet configuration
- All sites have a uniform setup with the ability to provide specific customization requests from each project
- Sites are able to be backed up and migrated to new servers easily and quickly utilizing Drupal modules
- Security updates are provided individually for each site's specific configuration needs

Customization

- SDCC custom deployment of USATLAS and sPHENIX sites



USATLAS Drupal instance



sPHENIX Drupal instance

Both sites were setup with the same deployment through puppet

Questions?