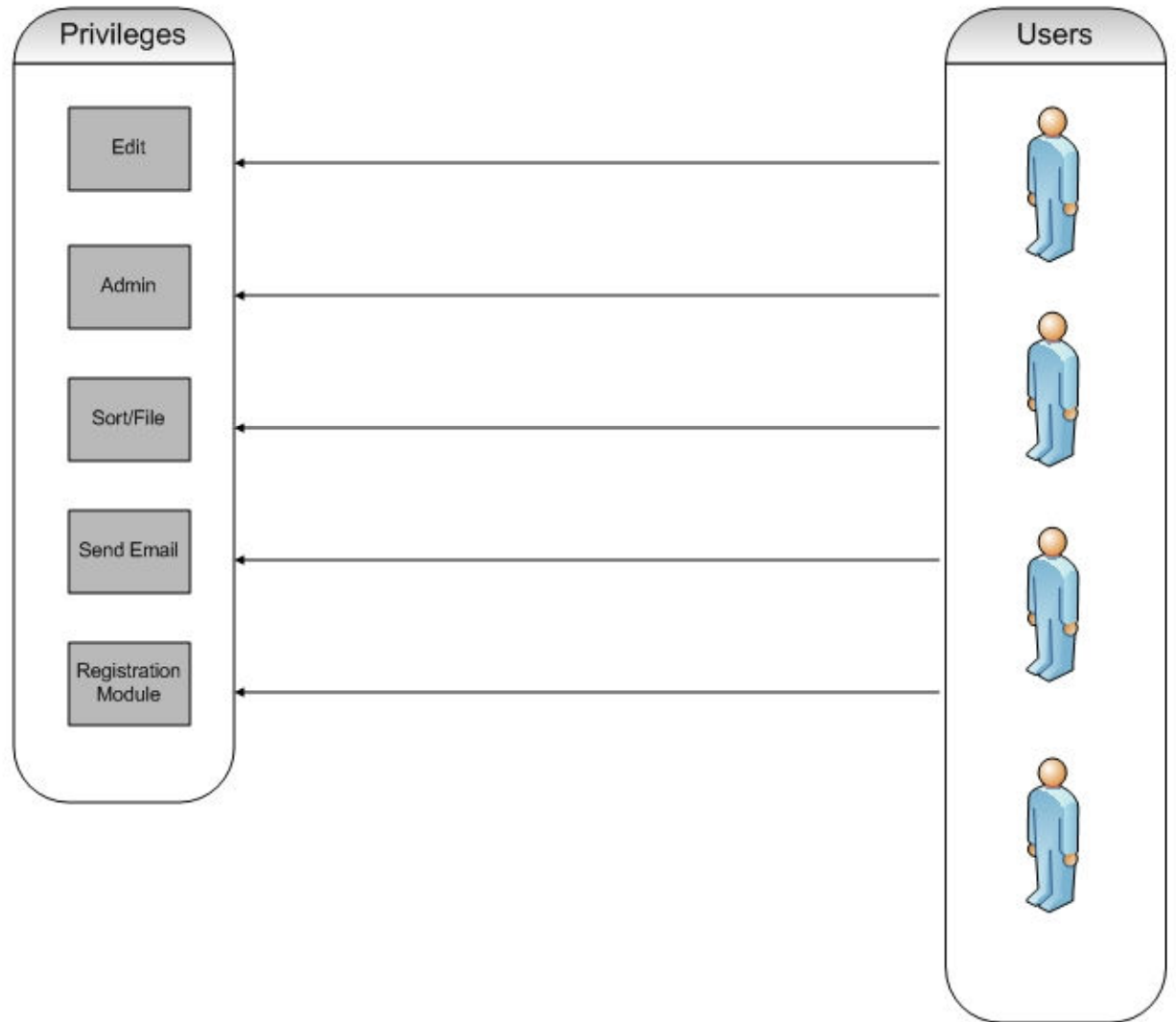


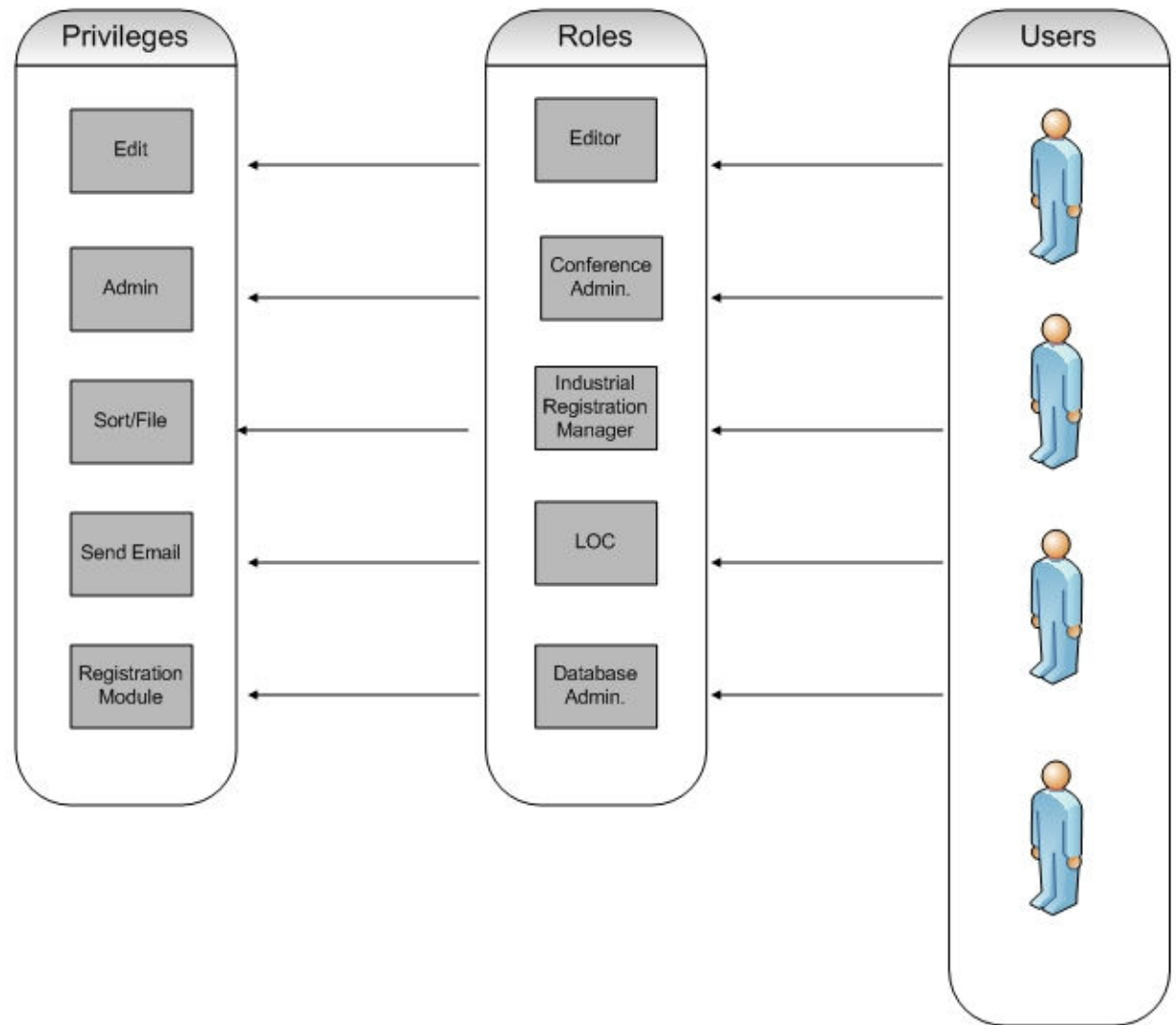
Authorized Users and Roles (Fine-grained Access) SPMS Version 8

Matt Arena, Fermilab

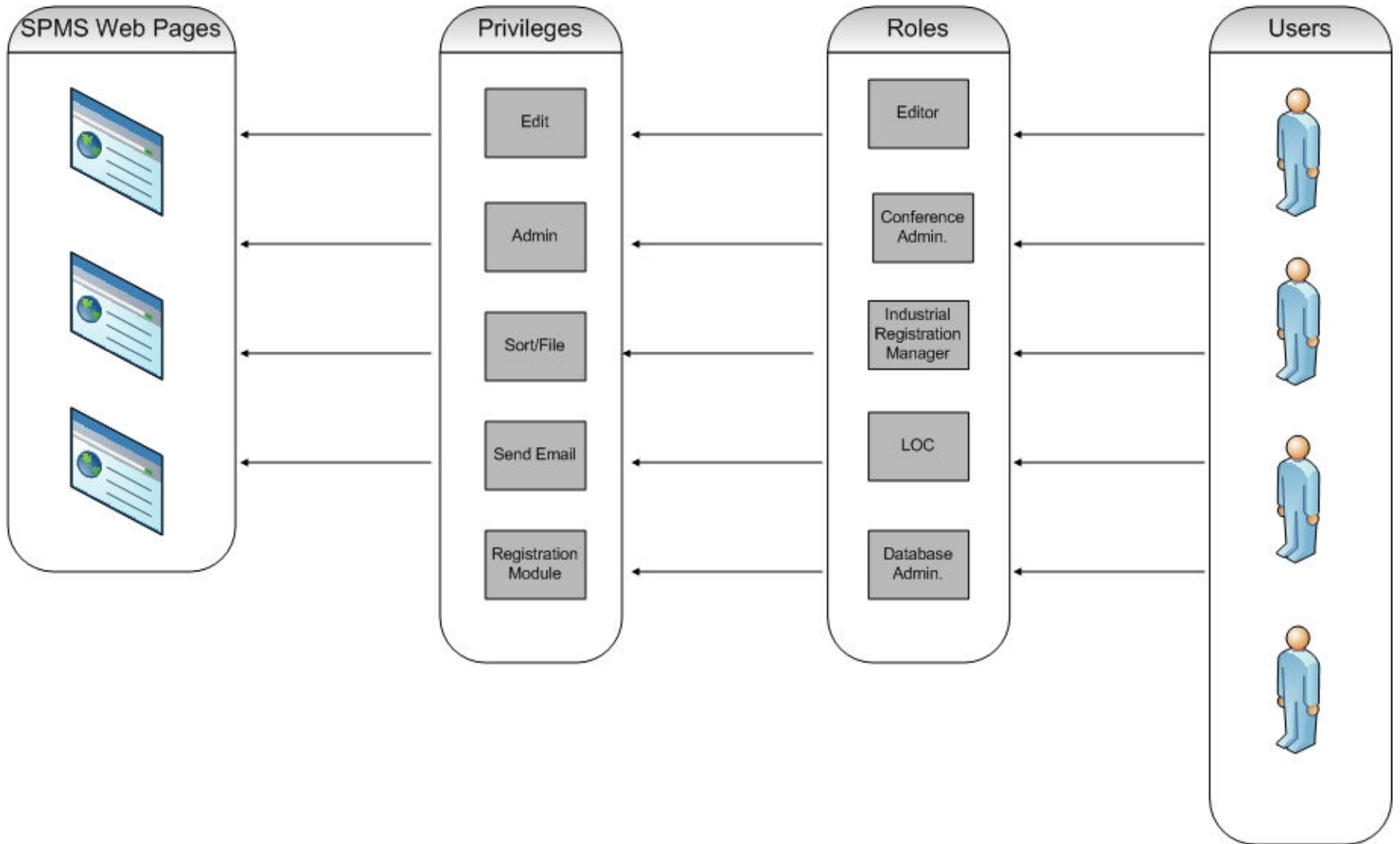
Privileges



Roles



Fine-grained Access



Fine-grained Access

- ▣ Advantages to fine-grained access
 - Access can be defined at the page level or module level.
 - ▣ To secure an entire package enter package name plus dot percent. (e.g. regist_maint.%)
 - ▣ To secure select procedures within a package enter package.procedure (e.g. editor.qa, repository.html).
 - Administrators can create as many privileges & roles required for their needs.

Fine-grained Access

- ▣ Disadvantages to fine-grained access
 - Administrators can create as many privileges & roles required for their needs.
 - To restrict a page it must be mapped to a privilege.
 - ▣ All pages restricted in V7 are restricted in V8.
 - ▣ URLs to most, if not all, restricted pages are not visible to the public.
 - ▣ V8 functionality is not different to V7. i.e. if the developer didn't check for a privilege to a page, then it was open to the public.
 - Administrator must test changes to mappings.

Fine-grained Access

- ▣ How does this affect Conference Admins?
 - Most smaller conferences won't be affected.
 - Initial access definitions will automatically download from the repository when the conference instance is created.
 - V8 access definitions seeded with V7 access definitions (extracted from the SPMS *hard* code).
 - Larger conferences (PAC, EPAC, IPAC) more likely to take advantage of this new feature.
 - Option to fine-tune repository mappings to serve as defaults for future conferences.

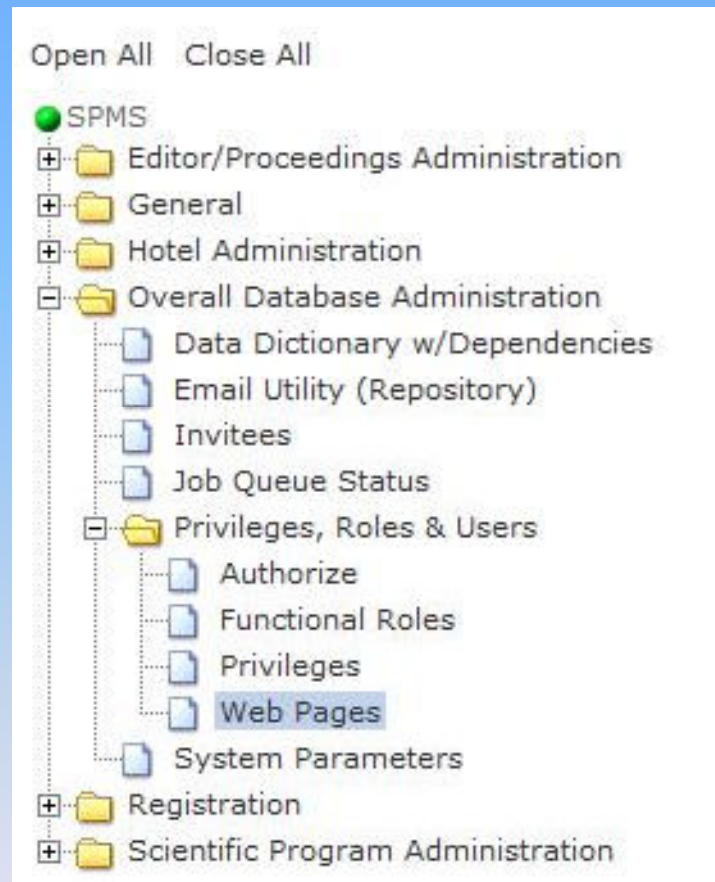
Fine-grained Access

- ▣ How does this affect developers?
 - `common.header` routine changed from a procedure to a function
 - 1) Extracts the web page name from the Apache environment variable,
 - 2) Checks for privileges required for the page,
 - 3) Finds all roles for the privilege,
 - 4) Finally finds all users with the role.
 - New `common.public_header` procedure for those times you don't care about privilege (e.g. while logging in or displaying an error message).

Fine-grained Access

- ▣ How does the affect the developer
 - New maintenance table named Applications must be “seeded” when developing new applications.
 - Developer should consider isolating functionality into distinct packages. Protected functionality in one package and public access in another. For example, registration vs. registration maintenance.

Main Menu



Functional Roles

Function Codes : Master list of functional roles.

Column	Comments
FUNCTION_CODE	Primary key. Any unique string.
FUNCTION_DESCR	Functional role description, what admins see when assign people to roles.
VENDOR_FLAG	If set to Yes, this role will appear on the vendors' registration screen.
ABSTRACT_FLAG	No longer used.

	Function Code	Function Descr	Vendor Flag	Abstract Flag
Delete	ABSO	Abstract Owner	<input type="checkbox"/>	Yes <input type="checkbox"/>
Delete	AR	Author Reception	<input type="checkbox"/>	<input type="checkbox"/>
Delete	BS	Booth Staff	Yes <input type="checkbox"/>	<input type="checkbox"/>
Delete	COAU	Co-Author	<input type="checkbox"/>	Yes <input type="checkbox"/>
Delete	CC	Conference Coordinator	<input type="checkbox"/>	<input type="checkbox"/>
Delete	DBA	Database Administrator	<input type="checkbox"/>	<input type="checkbox"/>
Delete	D	Delegate	Yes <input type="checkbox"/>	<input type="checkbox"/>
Delete	EB	EB?	<input type="checkbox"/>	<input type="checkbox"/>
Delete	EDIT	Editor	<input type="checkbox"/>	<input type="checkbox"/>
Delete	EIC	Editor In Chief	<input type="checkbox"/>	<input type="checkbox"/>
Delete	EXM	Exhibition Manager	<input type="checkbox"/>	<input type="checkbox"/>
Delete	EXS	Exhibition Staff	<input type="checkbox"/>	<input type="checkbox"/>

Privileges

Privilege Codes : Master list of SPMS privileges. These codes are checked in the application code.

Column	Comments
PRIVILEGE_CODE	Any UNIQUE string.
PRIVILEGE_DESCR	Descriptive name of a privilege. Applications are granted access to privileges, which in turn are granted to functional roles.
ACTIVITY_LOG	Set to Yes to display persons with the privilege in the Activity Log report.
VALIDATE_IP_ADDRESS	Test for IP address defined in the IP Address List system parameter.

	Privilege Code	Privilege Descr	Activity Log	Validate Ip Address
Delete	AABS	Accept/Reject Propose	No <input type="checkbox"/>	<input type="checkbox"/>
Delete	RCAM	Approve Classification C	No <input type="checkbox"/>	<input type="checkbox"/>
Delete	PRAM	Approve Presentation C	No <input type="checkbox"/>	<input type="checkbox"/>
Delete	ADMN	Conference Administrat	Yes <input type="checkbox"/>	<input type="checkbox"/>
Delete	EDIT	Conference Editor	Yes <input type="checkbox"/>	<input type="checkbox"/>

Web Pages

All applications that appear on this page are restricted to specific privileges. You may assign applications to privileges, which are assigned to functional roles on the [Authorize Page](#). You may grant and revoke privileges from an application. **Warning:** Removing an application from this list grants full access to the public.

Add a URL

Application	Privilege Required
<ul style="list-style-type: none"> repatriate repo_email abstract_r reports repository rpt_activity rpt_class rpt_ioral rpt_master_status affil_reqs. rpt_repo_counts search session_maint spms app_maint spms_summary status_code_matrix sync toc authorize. validate_spms vendor visa xml2 	Conference Administrator Revoke Conference Editor Revoke and File Revoke <hr/> Map a New Privilege *** <input type="button" value="Submit"/>
	Conference Administrator Revoke <hr/> Map a New Privilege *** <input type="button" value="Submit"/>
	Conference Administrator Revoke <hr/> Map a New Privilege *** <input type="button" value="Submit"/>
	Conference Administrator Revoke <hr/> Map a New Privilege *** <input type="button" value="Submit"/>
class_maint.%	Conference Administrator Revoke <hr/> *** Map a New Privilege *** <input type="button" value="Submit"/>
dependencies.show_source	Conference Administrator Revoke <hr/> *** Map a New Privilege *** <input type="button" value="Submit"/>
editor.%	Conference Administrator Revoke Conference Editor Revoke <hr/> *** Map a New Privilege *** <input type="button" value="Submit"/>

Authorization

LIVERPOOL

Functional Role <input type="text"/> Privilege <input type="text"/> <input type="button" value="Authorize"/>	Functional Role Maintenance	Functional Role <input type="text"/> User ID <input type="text"/> Search for an Account <input type="button" value="Add User"/>
--	---	--

Privilege	Functional Role	Users
Sort and File (Remove)	Author Reception	Matthew Arena, Fermilab (Remove)
Conference Administrator (Remove)	Conference Coordinator	Brian W.J. McNeil, USTRAT/SUPA (Remove) Sue Waller, STFC/DL/ASTeC (Remove)
Approve Classification Changes (Remove) Approve Presentation Changes (Remove) Conference Administrator (Remove) Propose Classification Changes (Remove) Propose Presentation Changes (Remove) Registration (Remove)	Database Administrator	Matthew Arena, Fermilab (Remove) Ronny Billen, CERN (Remove) Leif Liljeby, MSL (Remove) Michaela Marx, DESY (Remove) Volker RW Schaa, GSI (Remove)
	EB?	
Conference Editor (Remove) Editor QA (Remove) Send Automated Email (Remove)	Editor	Matthew Arena, Fermilab (Remove) Leif Liljeby, MSL (Remove) Michaela Marx, DESY (Remove) Hywel Owen, UMAN (Remove) John Poole, CERN (Remove) Volker RW Schaa, GSI (Remove) Sue Waller, STFC/DL/ASTeC (Remove)
	Editor In Chief	Sue Waller, STFC/DL/ASTeC (Remove)

Fine-grained Access

▣ Conclusion

- Fine-grained Access provides much more flexibility.
- As always, increases in flexibility causes increases in complexity.