



# Technical Steering Committee Update

Jeff Brown, TSC Chair  
IBM, Emerging Product Development,  
IBM Academy of Technology member



# TSC and Workgroup Accomplishments

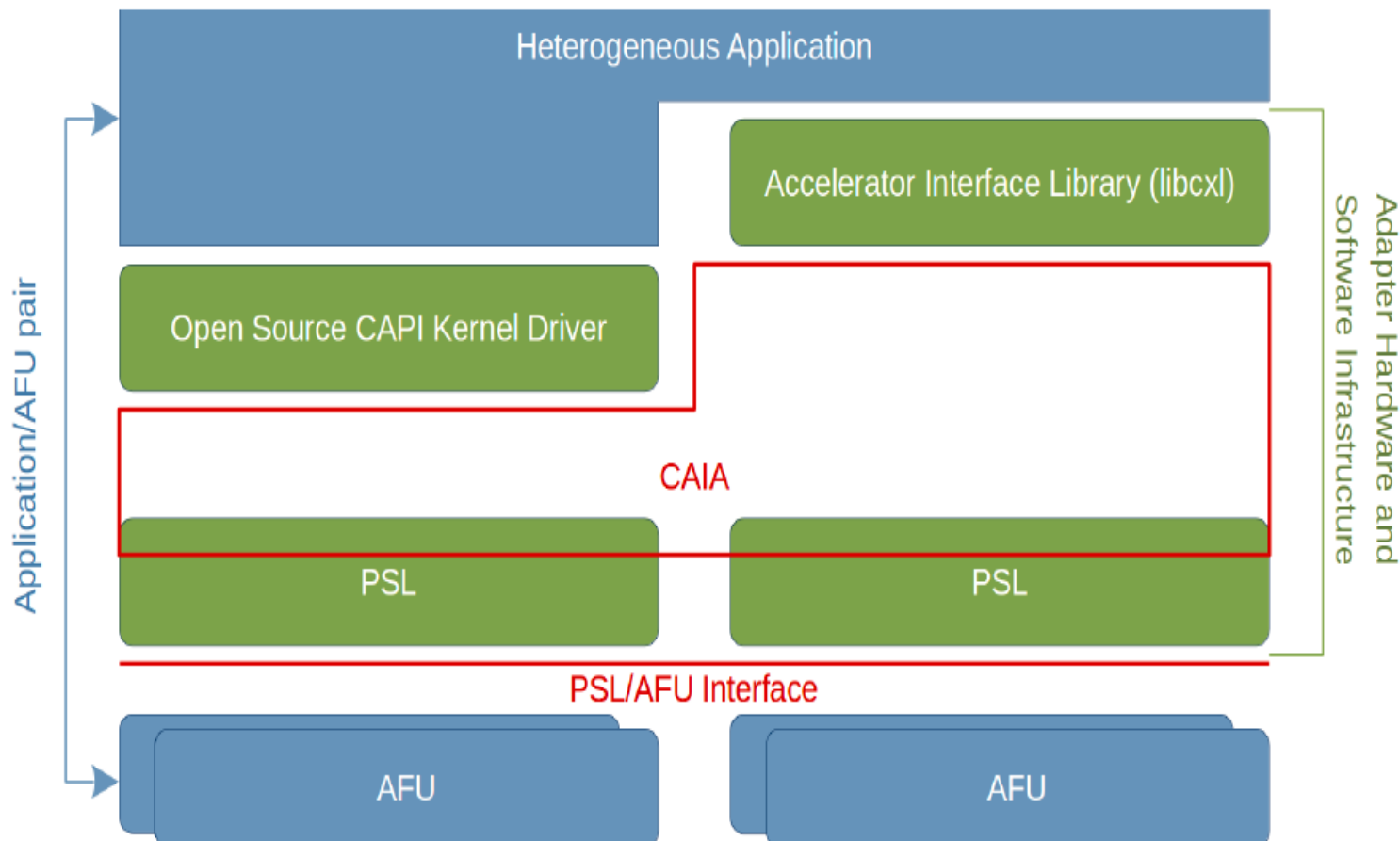
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- CAPI Related Specifications
- Power Processor Architecture
- OpenPOWER Document Development
- Resource Catalog
- OpenPOWER Memory Bus Specification
- Workgroups

# CAPI Related Specifications

- Accelerator WG Chair – Allan Cattle, Nallatech
- PSL/AFU Interface
  - Power Service Layer (PSL)
  - Accelerator Function Unit (AFU)
  - Accelerator Workgroup Specification
- Coherent Accelerator Interface Architecture (CAIA)
  - HW Architecture Workgroup Specification
- Informal Working Session – 8:00AM Friday

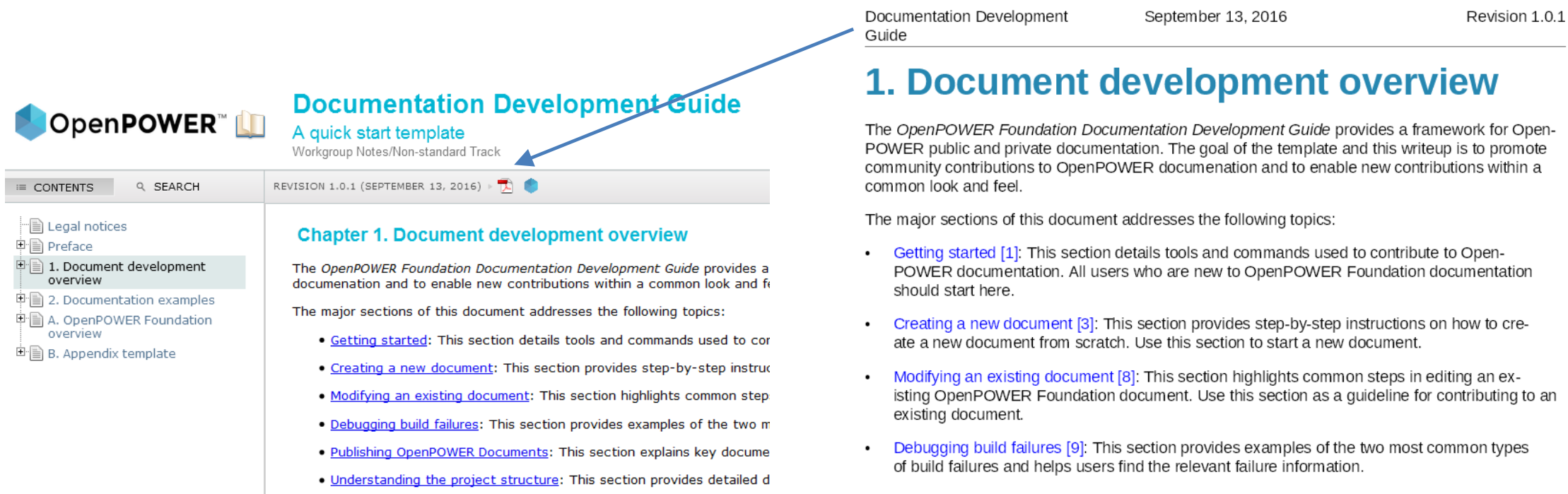


# Power Processor Architecture



- Hardware Architecture Workgroup:
  - OpenPOWER ISA Profile - Power® ISA 2.07b subset
    - Published as WG Specification
    - Beginning work on update based on recently released Power® ISA 3.0
  - IO Device Architecture (IODA2) – PCIe® Host Bridge
    - Published as WG Specification
    - Beginning work on update based on RFC from IBM for Power9™
  - Coherent Accelerator Interface Architecture – CAPI CAIA specification
    - Published as WG Specification
    - Beginning work on update based on RFC from IBM for Power9™
- System Software Workgroup – Jeff Scheel, IBM Chair
  - 64b Little Endian Application Binary Interface (64bLEABI)
    - Published with Apache 2.0 license – SYSSW WG managing future updates
  - Informal working session – Friday 8:00 AM

- OpenSource tooling
  - XML text source with docbook tags
  - Github repositories for collaborative document development
  - Maven processing to generate web ready html and pdf documents



Documentation Development      September 13, 2016      Revision 1.0.1  
Guide

## 1. Document development overview

The *OpenPOWER Foundation Documentation Development Guide* provides a framework for OpenPOWER public and private documentation. The goal of the template and this writeup is to promote community contributions to OpenPOWER documentation and to enable new contributions within a common look and feel.

The major sections of this document addresses the following topics:

- [Getting started \[1\]](#): This section details tools and commands used to contribute to OpenPOWER documentation. All users who are new to OpenPOWER Foundation documentation should start here.
- [Creating a new document \[3\]](#): This section provides step-by-step instructions on how to create a new document from scratch. Use this section to start a new document.
- [Modifying an existing document \[8\]](#): This section highlights common steps in editing an existing OpenPOWER Foundation document. Use this section as a guideline for contributing to an existing document.
- [Debugging build failures \[9\]](#): This section provides examples of the two most common types of build failures and helps users find the relevant failure information.

# Resource Catalog



- Generalized library capability for ecosystem content
- Categorization and search user interface
- WG specifications and Notes
- Product information
- Solution information

<http://openpowerfoundation.org/technical/resource-catalog/>

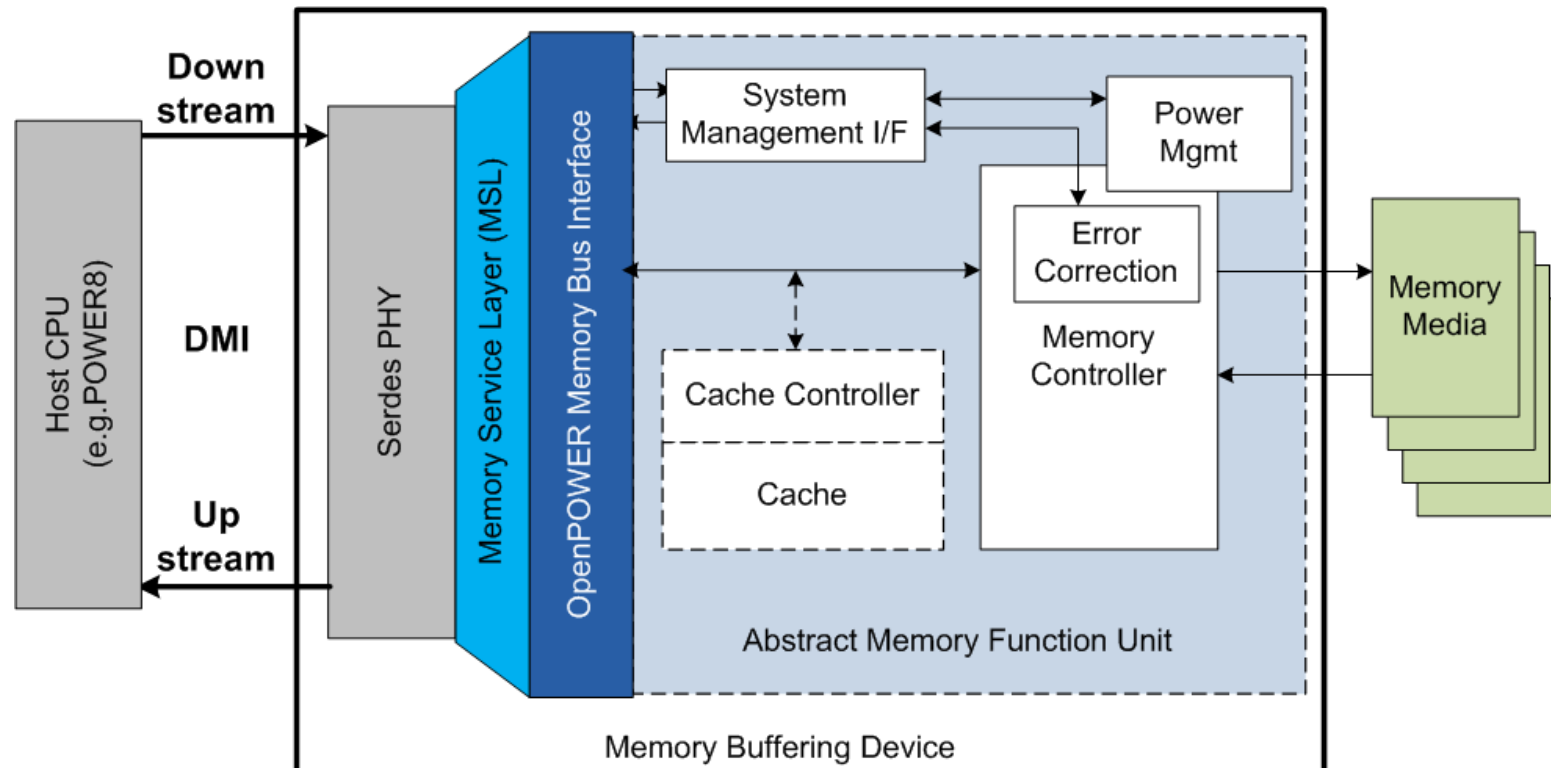
The screenshot shows the OpenPOWER Resource Catalog interface. At the top, there is a search bar and three dropdown menus for filtering resources: 'Select A Resource Type', 'Select A Main Category', and 'Select A Sub Category'. Below these is a 'Reset All' button. A 'Show 25 entries' dropdown is also present. The main content is a table with columns for Name, Technical Resources, Main Category, Sub Category, and Date. The table lists three resources:

Name	Technical Resources	Main Category	Sub Category	Date
<a href="#">A new Debian GNU/Linux ppc64el port now available</a>	Technical Resource	Developer	Group Forums	
<a href="#">Access to Ubuntu on Power for developers</a>	OPF Solutions : Cloud Deployments			
<a href="#">Best Practices for Migrating Linux/x86 Applications to Linux on IBM Power Systems</a>	Technical Resource	Developer Tools	White Papers	

# OpenPOWER Memory Bus Specification

- Memory WG Specification Draft
- Chair: Pierreluc Cantin, Google, Inc.

*Abstract OPMB Compliant Memory System*



# Additional Workgroups



Workgroup	Focus
<b>Compliance</b> Sandra Woodward, IBM Chair	<ul style="list-style-type: none"><li>• OpenPOWER Architecture Compliance Definition published as WG Specification</li><li>• Working to complete compliance criteria for the each WG Spec as it is approved.</li></ul>
<b>25GIO Interoperability Mode</b> Dan Dreps, IBM Chair	<ul style="list-style-type: none"><li>• 25Gbps Interoperability Specification</li><li>• Compatibility to multiple transport protocols on same Power9 physical IO</li></ul>
<b>Personalized Medicine</b> Dr. Zaid Al-Ars, Bluebee Chair	<ul style="list-style-type: none"><li>• Accelerating Cancer Diagnostics Pipelines Using Technologies of OpenPOWER</li><li>• Working session yesterday</li></ul>
<b>FSI Specification</b> Thomas Pflueger, IBM Chair	<ul style="list-style-type: none"><li>• Robust service interface used in IBM Power chipset</li><li>• Draft Specification for comment</li><li>• Encouraging ecosystem members to develop / attach direct to FSI<ul style="list-style-type: none"><li>• Hardened FSI Slave or SoftFSI</li></ul></li></ul>
<b>IO Workgroup</b> Rakesh Sharma, IBM Chair	<ul style="list-style-type: none"><li>• Enrich OpenPOWER IO offering, partner collaboration and workgroup assets</li><li>• OpenPOWER I/O Porting Documentation, testing guidance</li></ul>



# New Workgroups

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- OpenPOWER Workgroup for Physical Science
  - Chair: Andrea Bulgarelli, INAF
  - Objectives:
    - Identify and describe use cases
    - Understand common workflows
    - Define reference solutions
  
- OpenPOWER Ready™ Workgroup
  - Chair: TBD
  - Projects:
    - OpenPOWER Ready™ Definition and Criteria - V 1.0 is available
    - PlugFest to demonstrate satisfaction of criteria and interoperability



# Thank You!

Join the OpenPOWER Foundation and Get Involved!  
Be a supplier of OpenPOWER Ready products!