



SPMS Regional Support Centre Activities in Europe and JACoW Website

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JACoW Team Meeting at DESY, 1-5 November 2009

Outline

➤ General Reminder

- ❖ What are the Support Activities of the RSC-Europe

➤ SPMS related Activities

- ❖ SPMS Instantiations since the Team Meeting in Tsukuba Nov-2008
- ❖ Incidents and Problems
- ❖ Lifetime of an SPMS Instance for a Conference
- ❖ Current SPMS Instances of Past Conferences

➤ JACoW Website Conference Proceedings Publishing

- ❖ JACoW publications since the Team Meeting in Tsukuba Nov-2008
- ❖ Website Statistics 2009
- ❖ Indexing & Searching of JACoW Pages
- ❖ Overall Situation

Issue for discussion, decision required



Support Activities of the RSC-Europe

➤ SPMS Database Administrator

- ❖ Setup SPMS database instances for each conference, hooked up to the JACoW central repository
- ❖ Provide technical support for SPMS questions, issues and problems
- ❖ Interact and communicate with other SPMS DBAs, mainly at RSCs

➤ JACoW Webmaster

- ❖ Receive, Check and Publish Conference Proceedings on JACoW
- ❖ General JACoW website maintenance
- ❖ Provide technical support for website questions, issues and problems
- ❖ Maintain the domain name, arrange payment

➤ Miscellaneous

- ❖ Keeper of the license keys for Pitstop and Adobe Acrobat

SPMS Support: Instantiations since Nov-2008

Date	Conference	Start Version	Current Version	In Sync.	SPMS hosting
02-Dec-2008	FEL-2009	7.5	8.3.1	✓	RSC/Europe
09-Dec-2008	FEL-2010	7.5	8.3.1	✓	RSC/Europe
18-Dec-2008	ICALEPCS-2009	7.5	8.3.1	✓	RSC/Europe ⇒ RSC/Asia
21-Jan-2009	ICAP-2009	7.5	8.3.1		RSC/North-America
10-Feb-2009	COOL-2009	7.5	8.3.1	✓	IMPCAS ⇒ RSC/Asia
05-Jun-2009	HB-2010	7.5	8.3.1	✓	RSC/Europe
11-Sep-2009	LINAC-2010	8.0	8.3.1	✓	RSC/Asia
18-Sep-2009	PCaPAC-2010	8.0			RSC/North-America
29-Sep-2009	BIW-2010	8.0	8.3.1	✓	RSC/North-America

RSC-Europe

RSC/North-America

RSC/Asia

hosted at CERN

hosted at FNAL

hosted at KEK

managed by Ronny Billen

managed by Matt Arena

managed by Takashi Kosuge

SPMS Instantiation Summary

- 9 SPMS instances created
 - ❖ 3 “full” instances with data repository and web access tools hosted at the Regional Support Center Europe
 - ❖ 3 “bridge” instances having the conference repository and web-server hosted at the Regional Support Center North America
 - ❖ 3 “bridge” instances having the conference repository and web-server hosted at the Regional Support Center Asia
- The SPMS was stable
 - ❖ Only 2 production versions used during the year (7.5 and 8.0)
 - ❖ Transparently upgraded by Matt to current version 8.3.1
- Collaboration between Regional Support Centers
 - ❖ Worked very well despite the time differences!

SPMS Incidents and Problems

- **Failing job repository synchronization (sync.repo)**
 - ❖ Same problem as reported at last TM
 - ❖ Requires database intervention (index rebuilding)
 - ❖ Affected EPAC'08, PAC'09, FEL'10, IPAC'10
 - ❖ Last occurrence 17-Feb-2009 ... nothing since
- **Transatlantic link problem**
 - ❖ Affected PAC'09 on 27-Nov-2008 with knock-on effects (?)
 - Oracle Apache web-server hung
 - Abstracts table locked
- **Database upgrade and Security enforcement at CERN**
 - ❖ New cluster and Oracle 10g since Jan-2009
 - ❖ Firewall prevents direct access to JACoW database
 - Remote SPMS hosts (mainly RSC's) on exception list
 - ❖ SPMS secured access (https)
 - Workaround for mixed content (images)
 - No workaround for different behavior of "back" button

Lifetime of an SPMS Instance for a Conference

- **Creation after formal acceptance of Terms and Conditions**
 - ❖ Creation of dedicated database account on JACoW-DB
 - ❖ Creation of database objects
 - ❖ Creation of web accessibility (Database Access Descriptors)
 - ❖ Hand over SPMS administration to conference coordinator
- **During the period of exploitation**
 - ❖ Access via web interfaces for Administrator and Users
 - ❖ Automatic synchronization with central repository
 - ❖ Assistance from Regional Support Center and experts
- **After the conference**
 - ❖ Conference proceedings generation
 - ❖ Repatriation: keywords uploading, library data extraction (OAI, SPIRES)... done on request
 - ❖ Disable synchronization jobs; disable access to normal users



Current SPMS Instances of Past Conferences

Remote instances (with *bridging* database account at RSC-Europe)

Instances fully hosted at RSC-Europe

Conference	hosted	End-date	Published
FLS-2006	DESY	16-May-2006	✓
HB-2006	KEK	2-Jun-2006	✓
DIPAC-2007	Trieste	23-May-2007	✓
PAC-2007	FNAL	29-Jun-2007	✓
FEL-2007	BINP	31-Aug-2007	✓
Cyclotrons-2007	Trieste	5-Oct-2007	✓
Icalepcs-2007	ORNL	19-Oct-2007	✓
BIW-2008	FNAL	4-May-2008	✗
HB-2008	ORNL	29-Aug-2008	✓
ECRIS-2008	FNAL	18-Sep-2008	✓
Linac-2008	FNAL	3-Oct-2008	✗
PAC-2009	FNAL	8-May-2009	✗
ICAP-2009	FNAL	4-Sep-2009	✗
COOL-2009	KEK	4-Sep-2009	✗

Conference	In sync	End-date	Published
EPAC-2004	✗	9-Jul-2004	✓
EPAC-2006	✗	30-Jun-2006	✓
ICAP-2006	✗	6-Oct-2006	✓
APAC-2007	✗	2-Feb-2007	✓
COOL-2007	✗	14-Sep-2007	✓
Nanobeam-2008	✗	30-May-2008	✗
EPAC-2008	✗	27-Jun-2008	✓
FEL-2008	✗	29-Aug-2008	✓
PCaPAC-2008	✓	23-Oct-2008	✓
XRF-2008	✓	3-Dec-2008	✗
DIPAC-2009	✓	27-May-2009	✓
FEL-2009	✓	28-Aug-2009	✗
SRF-2009	✓	25-Sep-2009	✗
Icalepcs-2009	✓	17-Oct-2009	✗

The procedure to de-support and eventually remove SPMS instances of past conferences should be clarified and endorsed

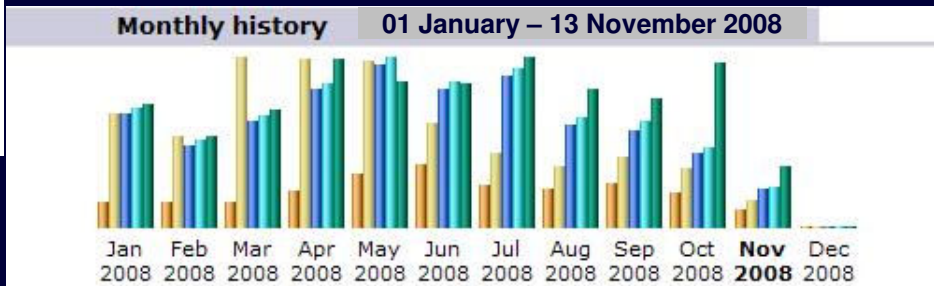


Support Activities: JACoW Publications

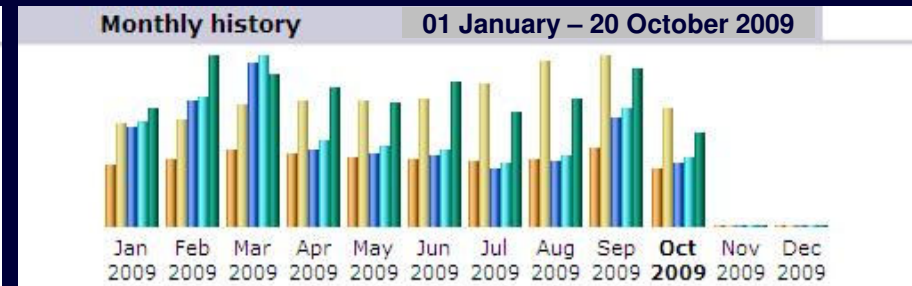
Date	Conference	Papers	Mbyte	Problems, Issues, <i>Comments</i>
25-Nov-2008	RuPAC-2008	128	274	2 iterations (missing keywords)
05-Dec-2008	Cyclotrons-2007	138	394	3 rd iteration (missing pages in files)
12-Dec-2008	ERL-2007	35	40	<i>Generated from InDiCo</i>
16-Dec-2008	PCaPAC-2008	79	419	Initially 1120 Mbyte photo album
17-Dec-2008	DIPAC-2007	121	93	
20-Feb-2009	SRF-1980	16	17	<i>Scanned</i>
20-Feb-2009	SRF-1984	35	38	<i>Scanned</i>
20-Apr-2009	e+e-Factories-2008	22	100	3 iterations (missing keywords, authors)
08-May-2009	ECRIS-2008	68	330	Talks (no photos)
15-Jun-2009	FEL-2008	148	188	
30-Jul-2009	SRF-2007	167	494	Talks, photos, tutorial
28-Aug-2009	Cyclotrons-1966	61	51	<i>Scanned</i>
15-Sep-2009	SRF-1987	52	57	<i>Scanned</i>
25-Sep-2009	DIPAC-2009	141	525	Initially 650 Mbyte photo album
21-Oct-2009	HB-2008	112	426	Talks

MB/paper ratio ρ : $\rho \approx 1$ $\sim 1 < \rho < \sim 5$ $\rho \approx 5$

JACoW Website – Global Statistics



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2008	25064	110791	1971140	2054072	78.26 GB
Feb 2008	25089	88104	1427285	1514429	58.69 GB
Mar 2008	25415	164400	1822591	1917228	74.96 GB
Apr 2008	35045	163083	2384169	2482064	108.00 GB
May 2008	52492	162295	2809638	2921275	92.88 GB
Jun 2008	60622	101868	2390187	2530189	92.42 GB
Jul 2008	41569	73058	2607295	2740574	108.16 GB
Aug 2008	37679	59453	1769951	1888011	88.69 GB
Sep 2008	43478	67691	1685978	1824327	82.54 GB
Oct 2008	33844	57476	1286449	1395335	105.53 GB
Nov 2008	17613	27128	666356	710352	38.67 GB
Dec 2008	0	0	0	0	0
Total	397910	1075347	20821039	21977856	928.81 GB
Scaled-year	457'954	1'237'616	23'962'933	25'294'314	1'069 GB



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2009	34107	55913	2040049	2143034	89.21 GB
Feb 2009	37177	58678	2545818	2658573	128.21 GB
Mar 2009	42062	66656	3342430	3468749	114.17 GB
Apr 2009	40235	69264	1571890	1739709	104.21 GB
May 2009	38229	68709	1479152	1619859	92.97 GB
Jun 2009	36431	70135	1436194	1547353	108.65 GB
Jul 2009	35960	78182	1157204	1277125	86.12 GB
Aug 2009	36958	90949	1311075	1452893	96.64 GB
Sep 2009	42463	93070	2228820	2396494	119.09 GB
Oct 2009	31595	64726	1291385	1417289	70.74 GB
Nov 2009	0	0	0	0	0
Dec 2009	0	0	0	0	0
Total	375217	716282	18404017	19721078	1010.01 GB
Scaled-year	467'407	892'272	22'925'883	24'566'546	1'258 GB

2008-2009 evolution:

- Visitors:** + 2%
- Visits:** - 28%
- Pages:** - 4%
- Hits:** - 3%
- Bandwidth:** + 18%

Slightly more visitors make less visits to get slightly lower number of JACoW data of a bigger size

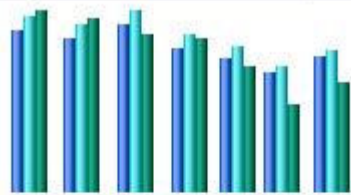
File type		June 2009			
File type		Hits	Percent	Bandwidth	Percent
	htm HTML or XML static page	606625	39.2 %	1.89 GB	1.7 %
	pdf Document	585657	37.8 %	103.42 GB	95.1 %
	html HTML or XML static page	232664	15 %	971.78 MB	0.8 %
	jpg Image	38877	2.5 %	1.41 GB	1.2 %

Papers
Talks
Posters

Statistics continued

Days of week

June 2009

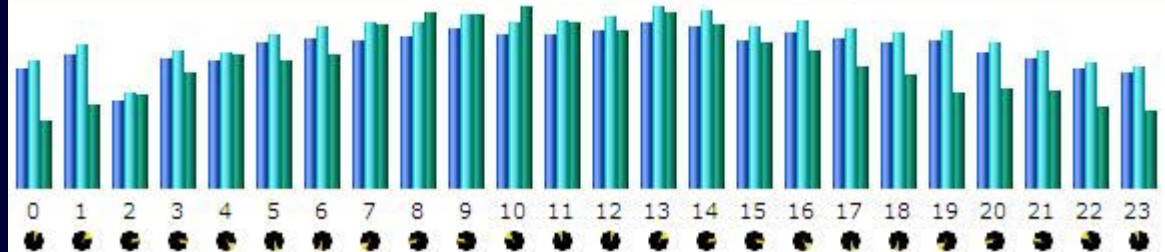


Mon Tue Wed Thu Fri Sat Sun

Day	Pages	Hits	Bandwidth
Mon	53094.80	57610	4.56 GB
Tue	50441.80	55113.60	4.40 GB
Wed	55016.25	59262.50	3.97 GB
Thu	47373.25	51673.50	3.89 GB
Fri	43881.75	47789.50	3.16 GB
Sat	39172	41032.75	2.19 GB
Sun	44184.50	46175.50	2.75 GB

Hours

June 2009



The activity on JACoW is continuous:

all year round

all days of the week

all day long

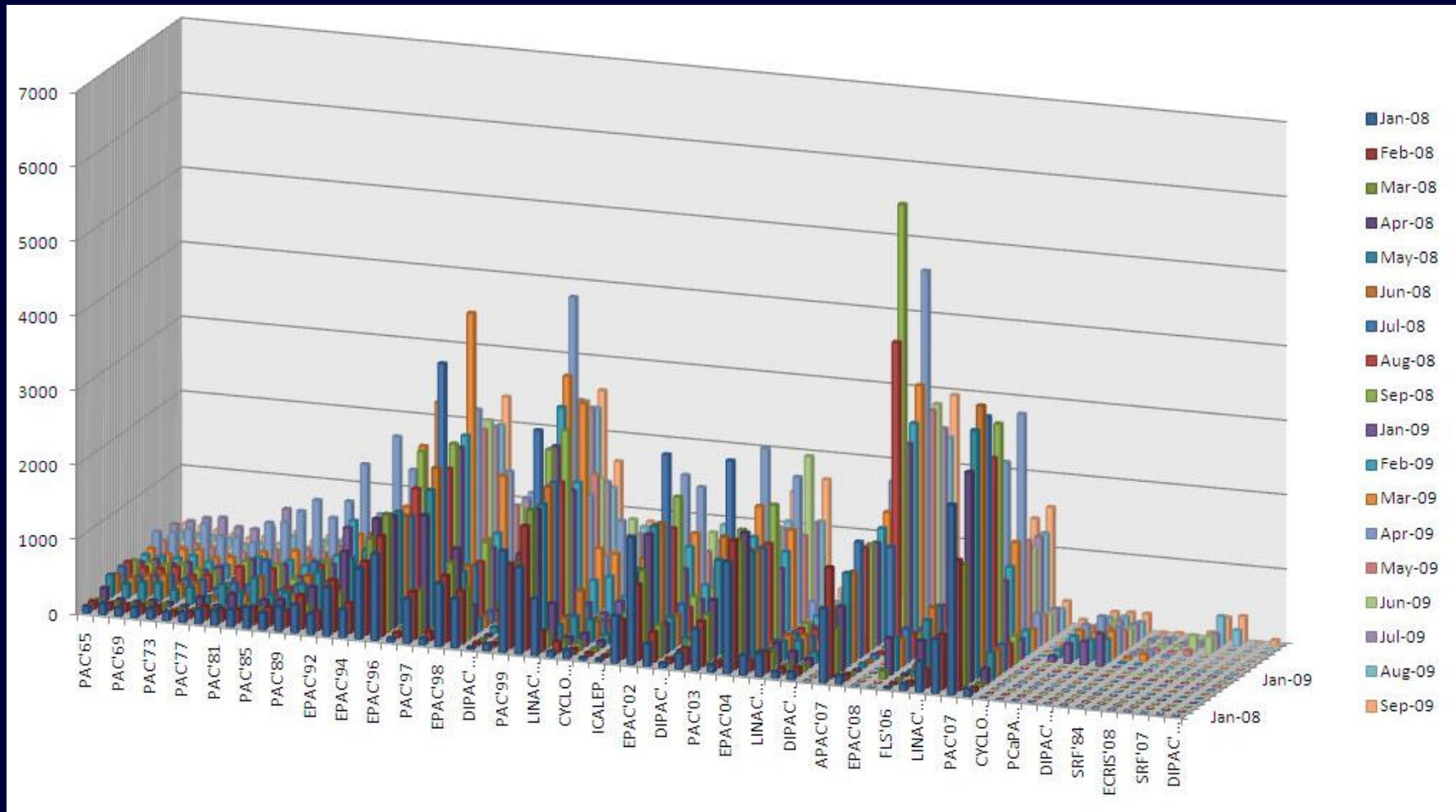
from all over the world

(but mainly from the US)

Countries (Top 10) - June 2009

Countries	Pages	Hits	Bandwidth
United States us 715346 758535 74.41 GB			
Switzerland ch 514461 519674 5.20 GB			
Japan jp 24502 32504 2.65 GB			
Germany de 16295 25284 2.65 GB			
Russian Federation ru 16257 21148 3.88 GB			
China cn 15662 25413 1.72 GB			
France fr 11729 15605 2.23 GB			
India in 11427 12890 1.52 GB			
South Korea kr 8795 11154 1.48 GB			
Great Britain gb 8561 11485 1.17 GB			
Others 93159 113661 11.76 GB			

Statistics on Paper Downloads (J. Poole)



File downloads per Conference

Total 2008: ~357'000

Total 2009: ~459'000 i.e. +29%

Increased interest in conference papers.

Maintained interest for ancient conference papers

Indexing & Searching of JACoW Pages

- **Web crawler should automatically index web pages**
 - ❖ But always needs a manual intervention
 - The problem is acknowledged
- **Only indexed pages can be found by the Search engine**
 - ❖ Search on author, title, keyword or any text
- **Special characters using diacritical marks (ü, é, å, ö,...)**
 - ❖ 170 persons in SPMS with a special character in their name
 - ❖ Example: Brüning
 - JACoW search on Brüning : 19 hits (papers with Brüning in author field)
 - JACoW search on Bruning : 4 hits (papers with Bruning in author field)
 - Google search on Brüning : results for Brüning, Bruning and Bruening
 - Issue raised with CERN-IT, will be investigated
 - ❖ The issue remains

➤ Today's Status

- ❖ 78 conferences published
- ❖ Worth 10 GB of data
- ❖ The interest is real
- ❖ The support effort increases
- ❖ Resources may become an issue

➤ Past Conferences not yet published on JACoW

➤ 2008 Conferences

- ❖ BIW-2008
- ❖ ICFA ABDW NanoBeam-2008
- ❖ ICFA ABDW XRF-2008
- ❖ Linac-2008



➤ 2009 Conferences

- ❖ PAC-2009
- ❖ ERL-2009
- ❖ HIAT-2009
- ❖ FEL-2009
- ❖ COOL-2009
- ❖ ICAP-2009
- ❖ SRF-2009
- ❖ ICALEPCS-2009