5th FIM4R Meeting, March 20/21 Bad Paul Scherrer Institut

Meeting agenda

Wed 20/3

12:00	**Registration**	
	Paul Scherrer Institut	12:00 - 13:00
13:00	**Welcome**	ABELA, Rafael
	Paul Scherrer Institut	13:00 - 13:05
	Outline and Goal	JONES, Robert
	Paul Scherrer Institut	13:05 - 13:20
	ELIXIR AAI pilot - life sciences	NYRONEN, Tommi
	Paul Scherrer Institut	13:20 - 13:45
14:00	**ESA Earth Observation Single Sign On**	BALDI, Andrea
	Paul Scherrer Institut	13:45 - 14:10
	Identity Federation in WLCG/HEP	WARTEL, Romain
	Paul Scherrer Institut	14:10 - 14:35
	FIM4DARIAH	GIETZ, Peter
	Paul Scherrer Institut	14:35 - 14:50
15:00	**Coffee**	
	Paul Scherrer Institut	14:50 - 15:25
	GEANT Data Protection Code of Conduct	LINDEN, Mikael
	Paul Scherrer Institut	15:25 - 15:50
16:00	**Advancing Federated Technologies for different communities**	FLORIO, Licia
	Paul Scherrer Institut	15:50 - 16:35
	Managing Identity: ORCID and Federated Login	HAAK, Laure
	Paul Scherrer Institut	16:35 - 17:00
17:00	**Towards FIM as a Service: Federated Identity Management for the Contrail Cloud Project**	KERSHAW, Philp
	CRISP (PSI / GSI) Bridging Project	ABT, Bjoern et al.
	Paul Scherrer Institut	17:25 - 17:50
18:00		

Thu 21/3

09:00	**FedID and Universities**	HAEMMERLE, Lukas
	Paul Scherrer Institut	09:00 - 09:25
	The CLARIN SPF and its future expansion	BROEDER, Daan
	Paul Scherrer Institut	09:25 - 09:50
10:00	**Umbrella**	VAN DAALEN, Mirjam
	Paul Scherrer Institut	09:50 - 10:15
	Coffee	
	Paul Scherrer Institut	10:15 - 10:45
	Centralized user management and Single Sign On for the WeNMR gateway through the WeNMR Virtual Research Community	VAN DIJK, Marc
11:00	**Web SSO with Cloud Resources using AD Federation Services**	FLANDERS, Dean
	Paul Scherrer Institut	11:00 - 11:15
	The DCH-RP project: requirements and implementations of federated access to digital cultural heritage contents	MANTOVANI, Maria Laura
	FIM4R Paper	JONES, Bob
	Paul Scherrer Institut	11:30 - 11:40
	Discussion	VAN DAALEN, Mirjam
12:00		
	Paul Scherrer Institut	11:40 - 12:50
	CSC as venue for next FIM4R	NYRONEN, Tommi
	Paul Scherrer Institut	12:50 - 13:00
13:00		

14:00

Abstracts

ELIXIR AAI pilot - life sciences

Tommi Nyrönen, CSC

We give a technical demonstration of an open-source tool REMS that leverages federated identity management and automates the process of granting an entitlement for accessing a data resource. Pilot implementation of the tool has been made with the European Genome-phenome Archive (EGA) and Nordic genome-wide control data (NordicDB).

ESA Earth Observation Single Sign On

Andrea Baldi, ESA

We will give a short presentation about the ESA Shibboleth based SSO system that we have implemented and in use for Earth Observation Applications.

We will focus on the extension made to support typical use cases, like User Self Registration, Credential Recovery, Self Account Administration, SP users inheritance and native JAVA application support. We will describe our Virtual Software development environment that implements IDP, LDAP and SP's reference implementation with typical configuration templates.

Identity Federation in WLCG/HEP

Romain Wartel, CERN

This presentation will focus on the status of the identity federation pilot for WLCG, as well as ongoing discussions in the WLCG/HEP community, including issues, future and progress made since the last meeting.

FIM4DARIAH

Peter Gietz, DAASI

The presentation gives a short update on the FIM activities of the DARIAH project that builds an infrastructure for virtual research environments for the humanities.

GEANT Data Protection Code of Conduct

Mikael Linden, Lähetetty Windows Phonesta

The data protection Code of Conduct aims at encouraging Identity Providers to release attributes to Service Providers, which is a challenge reported by the FIM4R document. The speak presents the Code of Conduct and the pilot that has taken place with the CLARIN community.

Advancing Federated Technologies for different communities

Licia Florio, TERENA

This talk will report on the main activities that took place in 2012:

1. the AAA study carried out by TERENA, LIBER, Uva and Uni. of Debrecen for which the main findings will be highlighted. The final version of the study can be found online:

https://confluence.terena.org/download/attachments/30474266/2012-AAA-Study-report-final.pdf?version=1&modificationDate=1355503760046

2. a proposed roadmap to address the FIM4R requirements. The initial plan was proposed and agreed during the Nijmegen meeting. After that meeting an informal discussion took place involving a few parties. This led to a paper, which is being finalised. The final version of the paper will be circulated prior to the meeting for information and discussion. The paper is available on Indico ("Addressing e- Research Requirements") Just go to the talk of L.F.

Managing Identity: ORCID and Federated Login

Laurel L. Haak, ORCID

ORCID launched its Registry of persistent identifiers for researchers in October, 2012. Since then, over 75,000 researchers have registered, about a third of them through member integration sites. Both members and researchers have asked ORCID about plans for federated login. This talk will provide an overview of ORCID authentication, user requests, and aims to engage other participants in a discussion of best options.

Towards FIM as a Service: Federated Identity Management for the Contrail Cloud Project

Philip Kershaw, STFC

This presentation will explore the work undertaken for the Contrail EU Framework 7 project security work packages to develop a set of modular, reusable FIM components. The solution takes advantage of the OAuth 2.0 framework, together with technologies such as SAML and OpenID to provide a generic set of interfaces to support federated access and identity management, a FIM-as-a-Service package. This approach is showing promise on a number of other projects.

The Swiss Universities and FIM

Lukas Haemmerle, SWITCH

Thanks to the Swiss universities and SWITCH, Switzerland was one of the first countries in the world that operated a production federated identity management (FIM) infrastructure for the higher education and research community.

This presentation gives an overview about the past, the present and a future outlook on SWITCHaai as well as eduroam, the two academic FIM infrastructures currently deployed in Switzerland.

Since this is closely related to the future developments, another focus lies on the worldwide higher education FIM infrastructures and how they influence the Swiss FIM infrastructures.

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Centralized user management and Single Sign On for the WeNMR gateway through the WeNMR Virtual Research Community

 Marc van Dijk, Utrecht University

I will present the approach the WeNMR project takes towards central user management, SSO and accounting. In this approach, the WeNMR Virtual Research community (VRC) website functions as a hub for all activity. The VRC uses Drupal as content management system providing a rich ecosystem of support modules to extend Drupals functionality.

We developed a custom, flexible yet generic module for Drupal to allow our community users to easily subscribe to the various services the project has to offer and enable SSO for all of these. The module exposes a flexible API to WeNMR service providers to perform user authentications and accounting.

Being a native Drupal module, it can benefit, almost out-of-the-box, from other modules offering various ways of user authentication such as SAML, Shibboleth, OAuth, OpenID and more. I will discuss some of these in relation to our module.

Web SSO with Cloud Resources using AD Federation Services

Dean Flanders, SystemsX/FMI

We are currently using ADFS with SAML 2.0 for several projects to enable web SSO. In using ADFS we have found that we can federate with other institutions, service providers, and federations. We will demonstrate use cases for each of these configurations including an example using Azure. This allows institutions to federate on their own with other institutions and cloud providers giving users pass-through or SSO authentication to access external resources.

The DCH-RP project: requirements and implementations of federated access to digital cultural heritage contents

Marialaura Mantovani, GARR

First the presentation gives an overview on the DCH-RP, a project concerning the preservation of Digital Cultural Heritage. Then the requirements on federated access coming from the cultural heritage community will be presented. Last we will show the eCulture Science Gateway as a tool to satisfy the community requirements.

General information

PSI in a nutshell
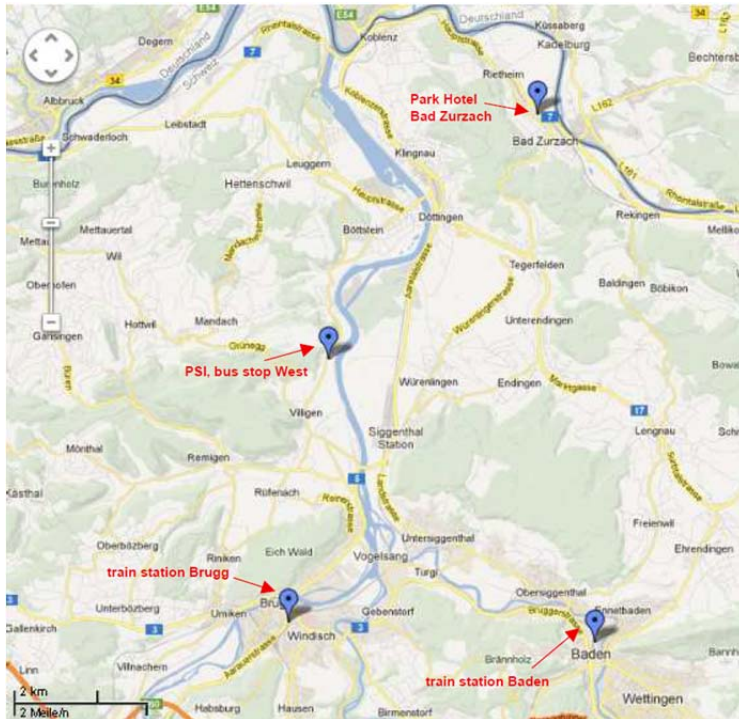
The Paul Scherrer Institute, PSI, is the largest research centre for natural and engineering sciences within Switzerland, with its research activities concentrated on three main subject areas: *Matter and Material*, *Energy and the Environment*, and *Health*. The PSI develops, constructs and operates complex large-scale research facilities. Every year, more than 2000 scientists from Switzerland and other countries travel to PSI in order to perform experiments at our unique facilities.

PSI has about 1500 staff, with an annual budget of approximately CHF 365 million, and is primarily financed by the Swiss Confederation. PSI is part of the ETH Domain, with the other members being the two Swiss Federal Institutes of Technology, ETH Zurich and EPFL Lausanne, as well as the Swiss Federal Laboratories for Materials Science & Technology, Empa, the Swiss Federal Institute of Aquatic Science and Technology, Eawag, and the Swiss Federal Institute for Forest, Snow and Landscape Research, WSL. The Institute is located on both sides of the River Aare, in the Villigen and Würenlingen municipal areas, in the Canton of Aargau.
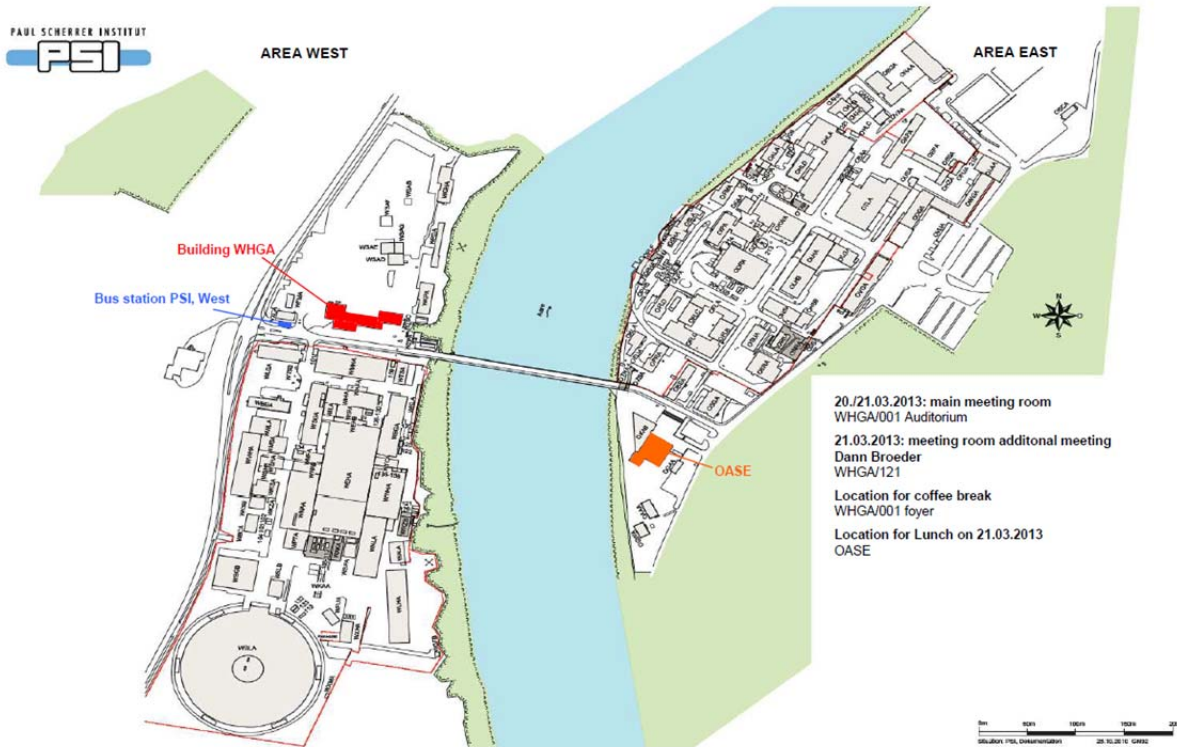
PSI contributes to the education of future generation by training young specialists and students. For school students it offers/provides the school laboratory iLab.

Main areas of research

Researchers in the area of **Matter and Material** study the internal structure of a wide range of different materials. Results contribute towards a better understanding of processes occurring in nature and provide starting points in the development of new materials for technical applications.

The goal of activities in the **Energy and Environment** area is to develop new technologies to facilitate the creation of a sustainable and secure supply of energy, as well as an uncontaminated environment.

In the **Health** area, researchers are searching for the causes of illnesses, and exploring potential treatment methods. Their basic research activities also include the clarification of generic processes in living organisms.

Large research facilities

PSI operates large scientific research facilities, such as the **SINQ neutron source**, the **Swiss Light Source (SLS)** and the **SµS muon source**, which offer out-of-the-ordinary insights into the processes taking place in the interior of different substances and materials. These are the only such facilities within Switzerland, and some are the only ones in the world.

User laboratory

PSI provides access to their large research facilities via a **User Service** to researchers from universities, other research centres and industry. Since the demand for access normally far exceeds the time available, a committee comprising experts from a number of different countries selects the best applications. In 2011, more than 2300 external researchers carried out measurements at the approximately 40 measuring stations of these large-scale research facilities.

Proton therapy

In addition to its research activities, the Institute operates Switzerland's sole facility for the **treatment of specific malignant tumors using protons**. This particularly sensitive procedure allows tumors to be destroyed in a targeted manner, leaving the surrounding tissue largely undamaged.

Education and training

As a research institution oriented towards the natural sciences, with a requirement to undertake first-rate research at the highest level, we depend on the availability of an innovative infrastructure and sufficient funding. Ultimately, however, our employees – the brains behind the machines – are our major strength, as PSI's most crucial capital resource is the **outstanding competence, experience and motivation of its employees**. We therefore regard education and training as extremely important and we consequently also undertake the training of school children, people in various professions, students and academics.

Accommodation

Accommodation is at Bad Zurzach and managed by the Park hotel reception. The distance of Bad Zurzach from PSI is about 10 km.

Bad Zurzach is situated at the Rhein and just at the border to Germany. It can easily be reached by train. For those arriving by plane the closest international airport is Zurich (www.zuerich-airport.ch). Most connections to Bad Zurzach are over Zürich main station with change in Baden. Detailed travel plans are available under http://fahrplan.sbb.ch/bin/query.exe/en. There are several connections per hour, duration a little longer than an hour. Publication in Switzerland has an excellent standard.

If arriving by car, take the autobahn to Brugg and follow from there the signs to Bad Zurach.

As the workshop will start in the afternoon, most participants may check in first at the hotel and then go by car or public transportation to PSI. For more information chack the schadules at the end of this document.
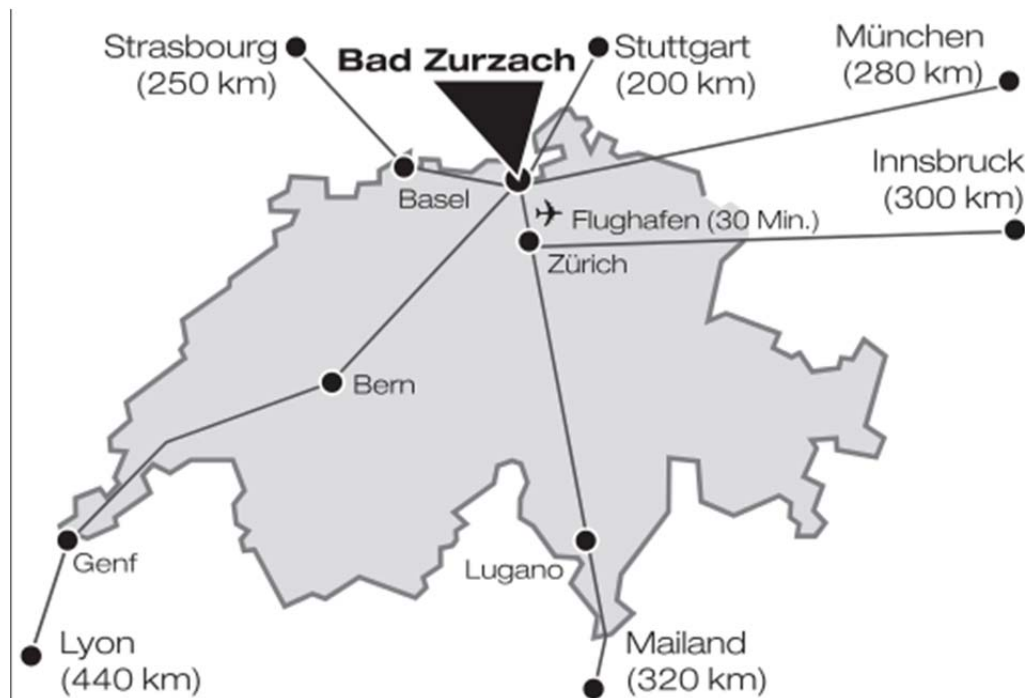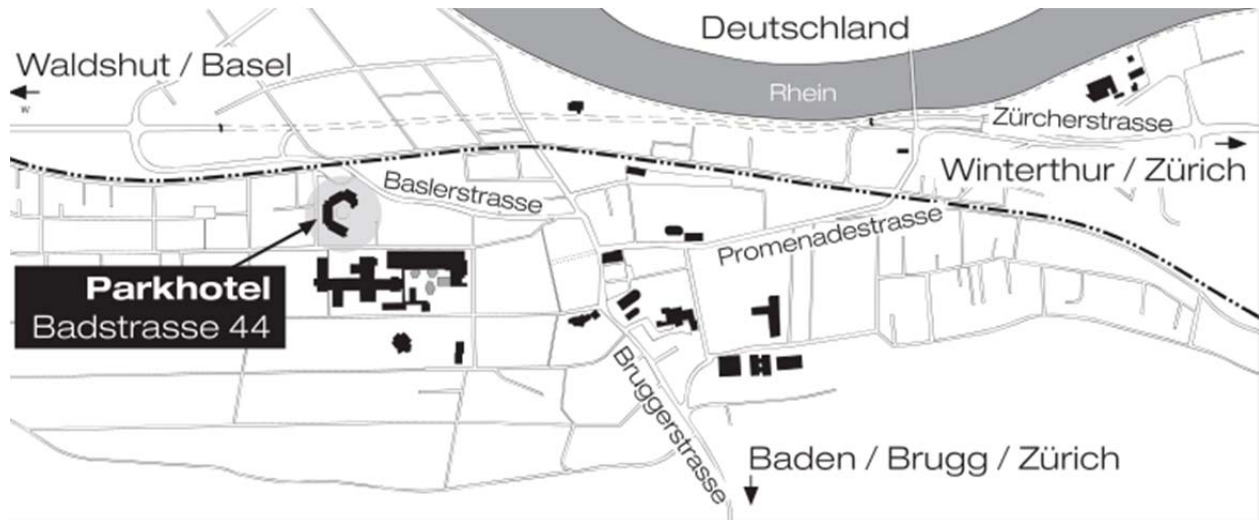
The Park hotel is about 500 m from the railway station.

For further information about the hotel please consult the hotel website (**http://www.park-hotel-zurzach.ch/htm/home.htm**).

Conference room

The workshop will be in the PSI Auditorium, opposite to the PSI West reception and near to the PSI West bus stop.

Internet access

WLAN is available at most areas within PSI. Access is free.

Lunch

Lunch on both days is offered at the PSI Oase (restaurant) located directly at the Aare river. Meals can be paid by cash (CHF, but €are accepted also).

Dinner

The workshop dinner will be held on Wednesday evening at the Park Hotel . Cost is CHF 50/60 for the 3/4 variant. The menu is appended to this document.

Money

There is no ATM machine on the PSI site and the Oase does not accept credit cards. They accept €, but the change is returned in CHF. Money can be changed at ZRH airport and there are also many ATM machines, which accept also the major credit cards. ATM machines are available in Bad Zurzach

List of Participants

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Dinner

Wednesday, 20.3.2013 19:30

German	English
Spargelsalat mit Salsa verde und Coquelets-Brüstli in Panko-Panade	Asparagus salad with salsa verde and Coquelets-Brüstli
*****	*****
Erbsensuppe mit Minze und Orangen-Croûtons	Pea soup with mint and orange croutons
*****	*****
Zweierlei vom Spanferkel Krautstiel italienische Art Lyoner-Kartoffeln von neuer Ernte	Duo of pork Italian style Chard Lyonnaise new potatoes
oder	or
Lachsforellenfilet mit Fèves-Bohnen und Dattel-Tomaten Krautstiel italienische Art Lyoner-Kartoffeln von neuer Ernte	Salmon trout fillet with Fèves beans, dates & tomatoes Italian style Chard Lyonnaise new potatoes
*****	*****
Joghurtcreme mit Beeren	Swiss yogurt with berries

Price: 4-course CHF 60.00/€46 /$ 63

3-course CHF 50.00 /€41 / $ 53

Public transportation connections

Please find below some excerpts.

1) For full information consult the SBB web site:

http://www.sbb.ch/en/home.html

Enter:

PSI West   for PSI

Brugg AG   for Brugg railway station

Zurich airport   for Zuerich airport

2) From/to PSI to/from Brugg there is a direct bus connection

3) From Bad Zurzach to PSI there is a train from Bad Zurzach to Döttingen, then change for the bus to Brugg, leave at PSI West.

4) To Bad Zurzach leave PSI by bus and change in Döttingen to the train.

5) For some trains you have to change in addition in Koblenz (trains labeled 'Waldshut'). Direct trains are labeled 'Bad Zurzach')

6) Correspondingly trains from Bad Zurzach: Direct trains are labelled 'Baden', need to change in Koblenz if the train is labelled 'Waldshut'.

Wednesday, 20.3.2013

<u>Bad Zurzach – PSI</u>

Connection 1

Station/Stop	Date	Time	Platform	Travel with	Comments
Bad Zurzach	We, 20.03.13	dep 11:03			
				S27 8444	Urban train line 27
Döttingen		arr 11:18			
Döttingen					
				walk	2 min., Y
Döttingen, Bahnhof					
Döttingen, Bahnhof		dep 11:21			
				BUS37634	Bus
Villigen, PSI West		arr 11:30			

Duration: 0:27

Connection 2

Station/Stop	Date	Time	Platform	Travel with	Comments
Bad Zurzach	We, 20.03.13	dep 12:03			
				S27 8448	Urban train line 27
Döttingen		arr 12:18			
Döttingen					
				walk	2 min., Y
Döttingen, Bahnhof					
Döttingen, Bahnhof		dep 12:21			
				BUS37640	Bus
Villigen, PSI West		arr 12:30			

Brugg – PSI

Station/Stop	Date	Time	Duration	Chg.	Travel with	Information
Brugg AG, Bahnhof We, 1	20.03.13	dep 09:05	0:18	0	BUS	
Villigen, PSI West		arr 09:19				
Brugg AG, Bahnhof We, 2	20.03.13	dep 09:35	0:18	0	BUS	
Villigen, PSI West		arr 09:49				
Brugg AG, Bahnhof We, 3	20.03.13	dep 10:05	0:18	0	BUS	
Villigen, PSI West		arr 10:19				
Brugg AG, Bahnhof We, 4	20.03.13	dep 10:35	0:18	0	BUS	
Villigen, PSI West		arr 10:49				
Brugg AG, Bahnhof We, 5	20.03.13	dep 11:05	0:18	0	BUS	
Villigen, PSI West		arr 11:19				
Brugg AG, Bahnhof We, 6	20.03.13	dep 11:35	0:18	0	BUS	
Villigen, PSI West		arr 11:49				
Brugg AG, Bahnhof We, 7	20.03.13	dep 12:05	0:18	0	BUS	
Villigen, PSI West		arr 12:19				
Brugg AG, Bahnhof We, 8	20.03.13	dep 12:35	0:18	0	BUS	
Villigen, PSI West		arr 12:49				
Brugg AG, Bahnhof We, 9	20.03.13	dep 13:05	0:18	0	BUS	
Villigen, PSI West		arr 13:19				

PSI – Bad Zurzach

Connection 1

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep 16:53			
				BUS37647	Bus
Döttingen, Bahnhof		arr 17:06			
Döttingen, Bahnhof					
				walk	2 min., Y
Döttingen					
Döttingen		dep 17:08			
				S2725965	Urban train line 27
Koblenz		arr 17:14	3		
Koblenz		dep 17:15	2		Urban train line 41
				S4119871	
Bad Zurzach		arr 17:24			

Duration: 0:31

Connection 2

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep 17:23			
				BUS37651	Bus
Döttingen, Bahnhof		arr 17:36			
Döttingen, Bahnhof					
				walk	2 min., Y
Döttingen					
Döttingen		dep 17:38			
				S27 8467	Urban train line 27
Bad Zurzach		arr 17:54			

Duration: 0:31

Connection 3

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep 17:53			
				BUS37653	Bus
Döttingen, Bahnhof		arr 18:06			
Döttingen, Bahnhof					
				walk	2 min., Y
Döttingen					
Döttingen		dep 18:08			
				S2725969	Urban train line 27
Koblenz		arr 18:14	3		
Koblenz		dep 18:15	2		
				S4119875	Urban train line 41
Bad Zurzach		arr 18:24			

Duration: 0:31

Connection 4

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep 18:23			
				BUS37657	Bus
Döttingen, Bahnhof		arr 18:36			
Döttingen, Bahnhof					
				walk	2 min., Y
Döttingen					
Döttingen		dep 18:38			
				S27 8471	Urban train line 27
Bad Zurzach		arr 18:54			

Duration: 0:31

Connection 5

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep 18:53			
				BUS37659	Bus
Döttingen, Bahnhof		arr 19:06			
Döttingen, Bahnhof					
				walk	2 min., Y
Döttingen					
Döttingen		dep 19:08			
				S2725973	Urban train line 27
Koblenz		arr 19:14	3		
Koblenz		dep 19:15	2		
				S4119879	Urban train line 41
Bad Zurzach		arr 19:24			

Duration: 0:31

Connection 6

Station/Stop	Date	Time		Platform	Travel with	Comments
Villigen, PSI West	We, 20.03.13	dep	19:23			
					BUS37663	Bus
Döttingen, Bahnhof		arr	19:36			
Döttingen, Bahnhof						
					walk	2 min., Y
Döttingen						
Döttingen		dep	19:38			
					S27 8475	Urban train line 27
Bad Zurzach		arr	19:54			

Thursday, 21.3.2013

Bad Zurzach – PSI

Connection 1

Station/Stop	Date	Time	Platform	Travel with	Comments
Bad Zurzach	Th, 21.03.13	dep 08:03			
				S27 8428	Urban train line 27
Döttingen		arr 08:18			
Döttingen					
				walk	2 min., Y
Döttingen, Bahnhof					
Döttingen, Bahnhof		dep 08:21			
				BUS37620	Bus
Villigen, PSI West		arr 08:30			
Duration: 0:27					

Connection 2

Station/Stop	Date	Time	Platform	Travel with	Comments
Bad Zurzach	Th, 21.03.13	dep 08:33			
				S4119832	Urban train line 41
Koblenz		arr 08:42	2		
Koblenz		dep 08:44	3		
				S2725932	Urban train line 27
Döttingen		arr 08:48			
Döttingen					
				walk	2 min., Y
Döttingen, Bahnhof					
Döttingen, Bahnhof		dep 08:51			
				BUS37624	Bus
Villigen, PSI West		arr 09:00			

PSI – Brugg

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	Th, 21.03.13	dep xx:04			
				BUS37638	Bus
Brugg AG, Bahnhof		arr xx:24			

Duration: 0:24; runs daily

Station/Stop	Date	Time	Platform	Travel with	Comments
Villigen, PSI West	Th, 21.03.13	dep xx:34			
				BUS37640	Bus
Brugg AG, Bahnhof		arr xx:54			

… and so on

Notes: