



SAR<sub>net</sub>



# **Information Management and Collaboration Support within SARNET**

D. Beraha

Gesellschaft für Anlagen- und Reaktorsicherheit mbH  
(GRS), Garching, Germany

## Goals

- Provide collaboration platform for
    - 52 organizations
    - ~ 250 participants
  - Provide communication well beyond e-mail and telephone
  - Document Management
    - Avoid proliferation of document copies by a central document management system
- Choice of tools important for the efficiency of the network

## The Advanced Communication Tool (ACT)

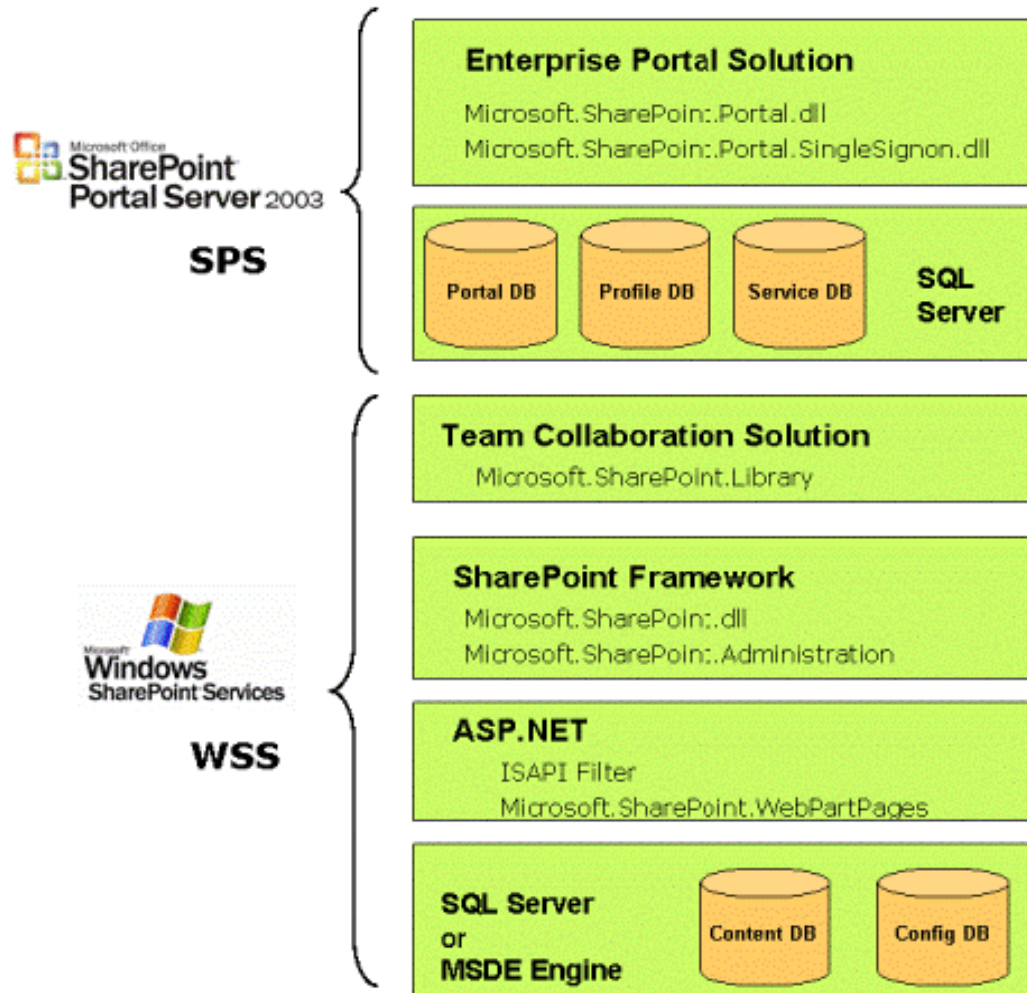
- Requirements specification
  - Defined from a users point of view
  - Restrictions with respect to cost
  - Make available at earliest possible date (avoid establishment of other communication means)
  - Document Management:
    - Control collaborative work on documents
    - Rights management

- Versioning
- All Document types (text, images, audio, video)
- Information Management - Access to all project information
  - News, Events, Announcements
  - Information on participants and organizations
  - Documents
  - Codes
  - Database access
  - External document pools
  - Link lists

- Search
  - Free Text Search
  - Search on metadata (profile data)
  - Rankings
- Collaboration features
  - Team Sites for collaboration in Work Packages
  - Tasks lists, Event lists, discussion boards, surveys ...
  - Adaptation and Personalization
  - Extensibility (programming interface)

- Choice of Tools
  - Portal Software
    - Fast growing sector (enterprise information portals, extranets)
    - Offered by many vendors
    - Open source solutions available
    - Review on many solutions has been conducted
  - Decision: MS Sharepoint Portal Server
    - All required features
    - Cost effective solution
    - Previous experiences in GRS
    - Quick initial set-up

- Architecture



## Design of the ACT

- „Description of Work“ – Document as basis for
  - Specification of the project's main topics
  - Determination of the teams requiring shared workspaces („team sites“)
  
- Set-up of Topical Areas for
  - Reference Information, Management, ASTEC, Containment, Corium, Source Term, PSA 2, R&D Priorities, Data Base, Excellence Spreading, Communication Tool
  - Default Template: Topic Description, Document Library, Announcements, Events, Links to Team Sites, General Links

- Set-up of Team Sites according to the Work Packages in the Topics
  - Default Templates: Member List, Document Libraries, Picture Libraries, Contacts, Tasks, Issues, Events, Links, Discussion, Survey
  
- Rights Management
  - Topical Area
    - Topic Leader: Administration Rights
  - Team Sites Administration
    - Team Members: Contributor Rights
    - Work Package Leader: Administration Rights

- Example of a Topical Area

The screenshot displays the SAR.net website interface for the ASTEC topical area. At the top, there is a navigation bar with 'Home', 'Topics', and 'WP-Sites' tabs. The main header shows 'SAR.net ASTEC' and a search box containing 'This topic'. A sidebar on the left contains a 'Current Location' tree with 'Home' and 'Topics' (selected), and an 'ASTEC' sub-item. Below this is an 'Actions' menu with options like 'Add Listing', 'Add Person', 'Create Subarea', 'Upload Document', 'Change Settings', 'Manage Security', 'Manage Content', 'Manage Portal Site', 'Add to My Links', 'Alert Me', and 'Edit Page'.

The main content area is titled 'Information and Workspaces related to ASTEC'. It features a 'Contact' box for 'Van Dorsselaers Jean-Pierre'. The primary section is 'ASTEC Announcements', which lists several updates:
 

- WP2: USTIA (ASTEC Maintenance and Users' support)**: This WP is devoted to 3 main types of activities: distribution by IRSN-GRS of the ASTEC versions and documentation to users; support to users through the IRSN-GRS Maintenance team, users training courses, and Users' Clubs; integration into the code of knowledge issued from other SARNET Topics and adaptation of models to all types of water-cooled RPP (BWR, CANDU, RBMK) and to future designs.
- WP3: PHYMA (ASTEC validation against experiments)**: The objective is to evaluate the quality of ASTEC models by comparison with experiments. Partners will also compare results with other codes. A large validation matrix will be progressively built.
- WP4: RAB (ASTEC benchmarks on reactor applications)**: The objective is to evaluate and improve ASTEC capability to simulate reactor accident scenarios, incl. safety systems and Severe Accident Management procedures. Partners will apply ASTEC to diverse types of reactor (PWR, VVER...) and compare results with other integral codes. A large benchmarking matrix and a databank of ref. input decks will be progressively built.

 The announcements list includes:
 

- ASTEC V1.2 physical models** (05/09/2005 10:54): The reports describing the overview of the latest version ASTEC V1.2 and the main technical evolutions / ASTEC V1.1 have been uploaded in the Document Library within the Directory "ASTEC V1 physical modelling" on the ASTEC Topic page....
- General validation matrix and Köln actions list** (04/03/2005 14:10): The draft validation matrix for future years has been uploaded in WP3 Document library (click here on "validation matrix" to reach it directly). The draft list of actions after Köln Users' Club has also been uploaded in Document Library of the...
- Release of an ASTEC patch version for some plant applications** (03/01/2005 10:16): See in WP2 page for more information. This patch version will help ASTEC users particularly on PWR900, VVER-440 and VVER-1000 applications. For other applications, its use is not mandatory.
- Forum for comments on ASTEC use.** (29/11/2004 17:07): ASTEC users can find in WP2 site a Forum place for informal discussion on ASTEC feedback use (click on "Discussion on ASTEC use"). It should be used for exchange of ideas, recommendations, advice between users and development teams (it...
- EVITA final summary report** (28/10/2004 15:41): According to what was discussed and agreed at the kick-off meeting of ASTEC Topic with the coordinator of the EVITA project (5th FWP of EC), H.J. Allelein(GRS), the EVITA final summary report is now available in the Document Library of the WP3...

 There is a link '(More Announcements...)' and a button 'Add new announcement'.

The 'ASTEC events' section states: 'There are currently no upcoming events. To add a new event, click "Add new event" below.' with a button 'Add new event'.

The 'Team Sites' section lists:
 

- WP2 USTIA**: ASTEC user support and training, Integration and Adaptation
- WP3 PHYMA**: ASTEC physical model assessment
- WP4 RAB**: ASTEC reactor application and benchmarking

The 'Document Library' section shows a table:
 

Type	Name	Modified By
Folder	ASTEC V1 reports on physical modelling	Van-Dorsselaers Jean-Pierre
Folder	Publications on ASTEC	Van-Dorsselaers Jean-Pierre
Folder	ASTEC kick-off meeting April 04	Van-Dorsselaers Jean-Pierre

 A button 'Add new document' is located below the table.

The 'Minutes' section lists:
 

- Minutes-Aix-April04**
- Minutes of ASTEC Users' training June 04**

 A button 'Manage Grouping and Ordering' is at the bottom.

- Example of a Team Site

The screenshot displays a SharePoint Team Site for 'WP15'. The browser address bar shows the URL: <http://sarnet.grs.de/sites/WP15/default.aspx>. The site title is 'WP15 Home'. The left navigation pane includes sections for Documents, Lists, Links, Discussions, and Surveys. The main content area is organized into several sections:

- Documents:** 'Aerosol behaviour impact on source term' by Luis Herranz, CIEMAT.
- Announcements:** 'ARTIST/SGTR data available' by Haste Tim, dated 28/07/2004 15:26. The text states: 'ARTIST/SGTR data are now available via a link to the relevant PSI web site. Please apply there for access if you are a new user; userids and passwords should contain only alphanumeric characters including '\_'.'
- Events:** A table listing upcoming events:
 

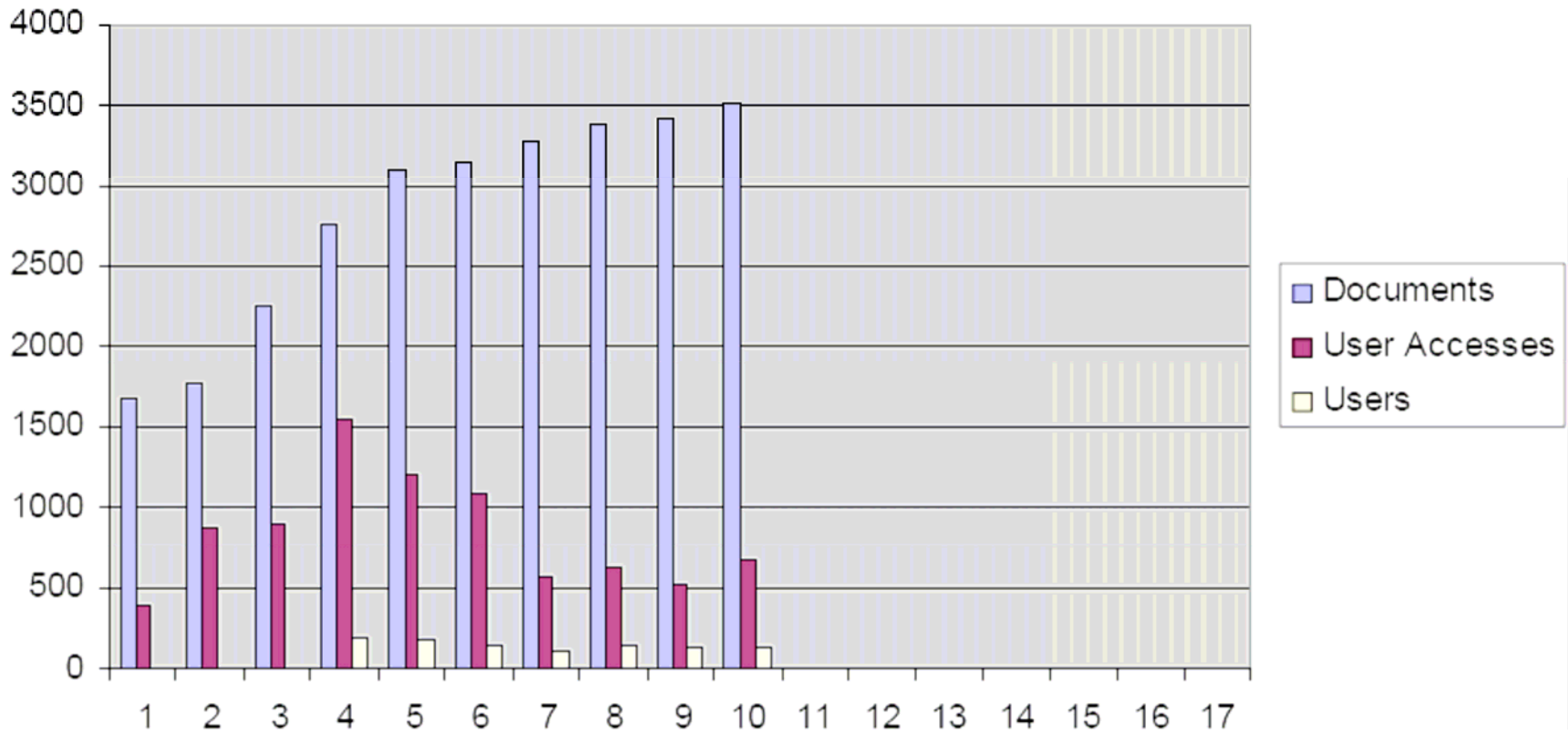
Title	Location	Begin	End
SOURCE TERM CIRCLE MEETING: AEROS (WP15)	Hotel Aquabella (Aix-en-Provence)	02/11/2004 13:30	02/11/2004 15:45
SOURCE TERM CIRCLE MEETING: AEROS-WP15	Paris (France)	17/12/2004 00:00	17/12/2004 00:00
Köln Meeting	Köln (Germany)	18/02/2005 09:00	18/02/2005 12:45
- Tasks:** A section for tasks with a table header: Title, Assigned To. It notes: 'There are no items to show in this view of the "Tasks" list. To create a new item, click "Add new item" below.'
- Issues:** A section for issues with a table header: Title, Assigned To. It lists: 'Proposed experiment on the Behaviour of Prototype Aerosols in Cracks' assigned to 'Journeau Christophe'.

The right-hand sidebar contains:

- Members:** A list of team members, categorized into 'Online' (none) and 'Not Online'. Members listed include Adraguer Bernard, Bauer Martin, Bontaib Ahmed, Beraha David, Bottomley Paul, Clement Bernard, Dehbi Abdelouahab, Giordano Patricio, Guentay Salih, and Guilbert Siquorine.
- Contacts:** A section for contacts with columns: Last Name, First Name, Business Phone, E-mail, Address. It notes: 'There are no items to show in this view of the "Contacts" list. To create a new item, click "Add new item" below.'
- Links:** A list of links including 'EU 5th framework ARTIST/SGTR home page' and 'Main ARTIST website'.

## Experience with the ACT

- Set-up was accomplished in short time
  - Support and help features available early
    - Interactive Training
    - Users Manual
    - Reference to Administrators
  - Basic structure quickly fed with content
  - Indicators:
    - Number of accesses by users
    - Number of items (documents, lists, ...)



- Survey on Users Satisfaction has been conducted
  - 27 responses
  - Some problems with document management (check/in – check/out functionality)
  - Navigation satisfactory (search features not much used)
  - Information on the project adequate
  - Some suggestions for improving announcements and events links
  - Alerts used to some extent
  - Work Package Sites adequate, some improvements proposed
  - extended Frequently Asked Questions – list
  - realization of some of the suggestions

## Public Web Site – [www.sar-net.org](http://www.sar-net.org)

- Information to the public on the project's goals and progress
- Announcement of relevant events
- Reference documents
- Content Management
  - Documents in the web site consistent with documents in the ACT

## Conclusions and Outlook

- The ACT fulfills its role as document management system and collaboration platform
- Strong initial efforts by project, topic and work package leaders have led early to a good structure of the portal
- Requests for support diminished in the meantime
- Help and support to be continued
- Outlook on Knowledge Management
  - Information and knowledge should be available in particular after the end of the project
  - Deployment of Concept Maps envisaged (CMapTools of IHMC)

