

Arquitectura SOA de la red SciELO y BVS

SOA architecture from SciELO and BVS network

II Developers meeting from BVS, SciELO and ScienTI

September 14 2008

BIREME/PAHO/WHO

Tópicos

Topics

- Arquitectura enbasada en servicios web en el proyecto SciELO.org
(Architecture based on web services in SciELO.org project)
- Arquitectura de servicios utilizada en la nueva plataforma BVS, SciELO, ScienTI
(Web Services architecture used on the new BVS, SciELO and ScienTI platform)
- Aplicaciones y frameworks que hacen parte de la nueva arquitectura
(Applications and frameworks that made part of this new Architecture)

Arquitectura SciELO

SciELO Architecture

- Concepción
- Arquitectura
- Servicios
- Resultados Finales

- Conception
- Architecture
- Services
- Final results

SciELO Architecture - Conception

Arquitectura SciELO - Concepción

- Necesidad de desarrollar un Portal SciELO que integra metadatos de todas las instancias SciELO.

(Needs to develop a SciELO Portal integrating all SciELO instances)

- Necesidad de obtener acceso remoto a los metadatos de cualquier instancia SciELO

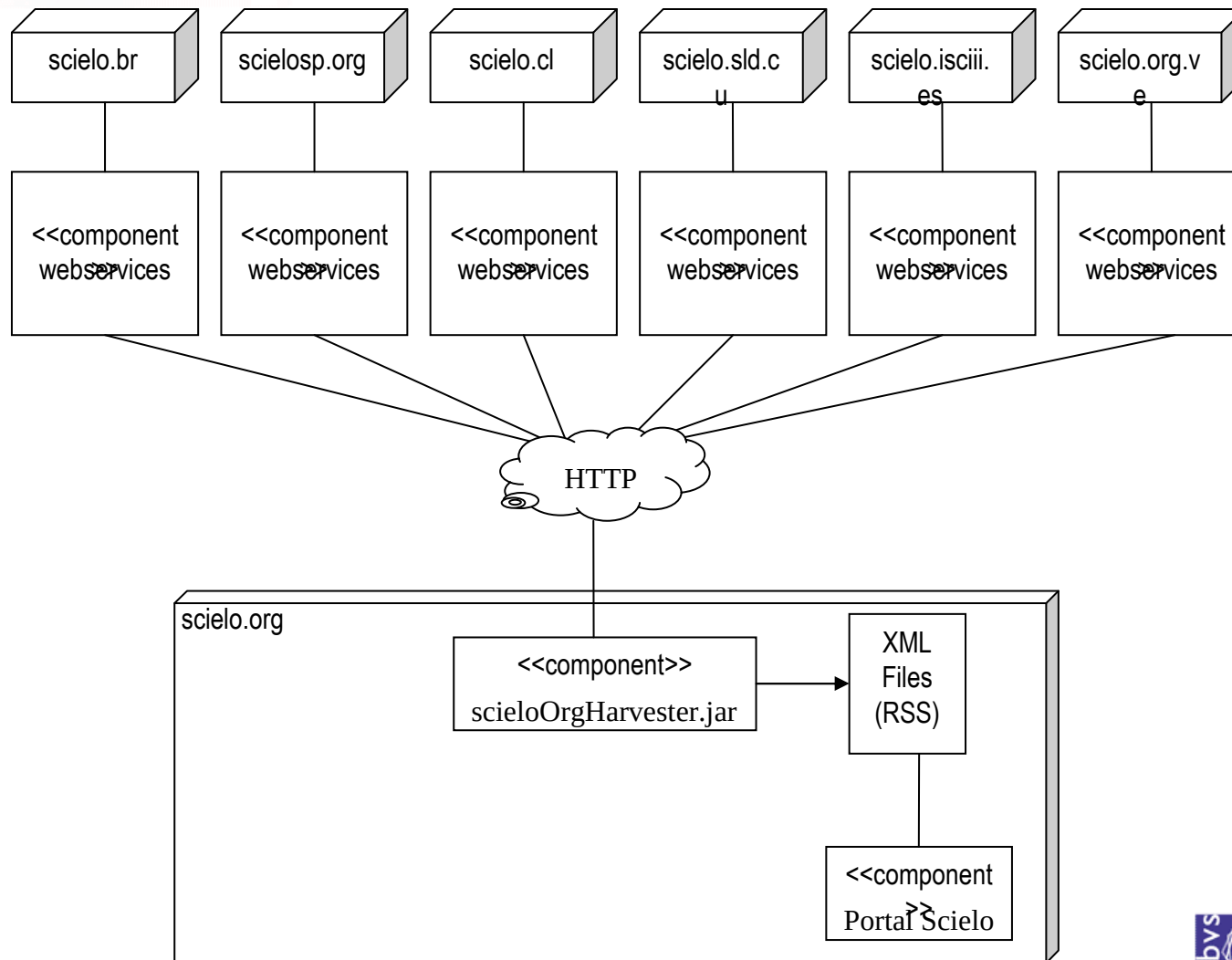
(Needs to have remote access to metadatas from any SciELO Instances)

- Necesidad de obtener información actualizada diariamente en el Portal SciELO

(Needs to have daily updated data on SciELO Portal).

Arquitectura SciELO

SciELO Architecture- Arquitectura



Arquitectura SciELO - Servicios

SciELO Architecture - Services

- Para atender los requisitos del portal SciELO.org fueron desarrollados tres servicios distintos que quedan involucrados en las instancias SciELO (Brasil, Chile, Cuba, Social Sciences, etc).
(To response the SciELO Portal requirements, was developed tree different services that are inside the SciELO instances web sites)
 - New Issues
 - **Responsable por retornar los últimos artículos añadidos en una instancia SciELO de la red SciELO**
(Responsible to return the last issues add in a SciELO instance of SciELO Network)
 - New Titles
 - **Responsable por retornar los últimos títulos añadidos en una instancia SciELO de la red SciELO**
(Responsible to return the last titles add in a instance of in SciELO Network)
 - Get Titles
 - **Responsable por retornar todos los títulos de una instancia SciELO de la red SciELO y sus indicadores, como: total de títulos, total de artículos, total de referencias bibliográficas, etc**
(Responsible to return all titles registered in a SciELO instance of SciELO Network, and the indicators of this instance. Like, total title, total issues, total references, etc).

Arquitectura SciELO - Servicios

SciELO Architecture - Services

- Otro servicio utilizado en el portal SciELO.org que no esta involucrado en las instancias SciELO
 - Servicio de busqueda por trigramas
 - Responsable por retornar los artículos de la red SciELO relacionados al perfil del usuario embasado en las palabras-clave que el usuario define en el proceso de registro del

SciELO.org Portal

(Responsible to return the articles related to an user profile based on keyword defined by the user during the subscription process)

Arquitectura SciELO - Servicios

SciELO Architecture - Services

- **Servicio - New Titles**

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<SciELOWebService version="1.0">
  <collection name="Brasil" uri="http://www.scielo.br">
    <wxis-modules IsisScript="listNewTitles.xis" version="0.2">
      <record>
        <title>Revista Latinoamericana de Psicopatologia Fundamental</title>
        <processDate>20080716</processDate>
        <issn>1415-4714</issn>
        <publisher>Associação Universitária de Pesquisa em Psicopatologia
Fundamental</publisher>
        <subject>Human Sciences</subject>
        <publicationStatus>C</publicationStatus>
        <repository></repository>
      </record>
      <record>
        <title>Sur. Revista Internacional de Direitos Humanos</title>
        <processDate>20080626</processDate>
        <issn>1806-6445</issn>
        <publisher>Sur - Rede Universitária de Direitos Humanos</publisher>
        <subject>Applied Social Sciences</subject>
        <subject>Human Sciences</subject>
        <publicationStatus>C</publicationStatus>
        <repository></repository>
      </record>
    </wxis-modules>
  </collection>
</SciELOWebService>
```


Arquitectura SciELO - Servicios

SciELO Architecture - Services

- **Servicio - New Issues**

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<SciELOWebService version="1.0">
  <collection name="Brasil" uri="http://www.homolog.scielo.br">
    <wxis-modules IsisScript="listNewIssues.xis" version="0.1">
      <record>
        <subject>Applied Social Sciences</subject>
        <subject>Human Sciences</subject>
        <publisher>Instituto Brasileiro de Relações Internacionais</publisher>
        <title>Revista Brasileira de Política Internacional</title>
        <issn>0034-7329</issn>
        <volume>45</volume>
        <numero>2</numero>
        <pubYear>2002</pubYear>
        <updateDate>20080818</updateDate>
        <pid>0034-732920020002</pid>
      </record>
    </wxis-modules>
  </collection>
</SciELOWebService>
```

Arquitectura SciELO - Servicios

SciELO Architecture - Services

- **Servicio - Get Titles**

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<SciELOWebService version="1.0">
  <collection name="Brasil" uri="http://www.homolog.scielo.br">
    <indicators>
      <journalTotal>213</journalTotal>
      <articleTotal>108658</articleTotal>
      <issueTotal>6257</issueTotal>
      <citationTotal>2330433</citationTotal>
    </indicators>
    <wxis-modules IsisScript="list.xis" version="0.2">
      <record>
        <title>Revista Latinoamericana de Psicopatologia Fundamental</title>
        <processDate>20080716</processDate>
        <issn>1415-4714</issn>
        <publisher>Associação Universitária de Pesquisa em Psicopatologia
Fundamental</publisher>
        <subject>Human Sciences</subject>
        <publicationStatus>C</publicationStatus>
        <repository></repository>
      </record>
    </wxis-modules>
  </collection>
```

Arquitetura SciELO – Resultados Finales

SciELO Architecture – Final Results

- Resultado del Servicio de Trigramas

Update user data - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.scielo.org/applications/scielo-org/users/userProfile.php?id=45590

Most Visited Guia rápido Últimas noticias

Google Search

Update user data Page Load Error

português | español | Contact

SciELO
Scientific Electronic Library Online

home > Update user data

Update user data

Step 2 of 2 - Profiles

Profile 1

Name: Engenharia de Software

Areas de Interesse: Exact Science Computer Sciences

Description: Engenharia de Software

Profile 2

Name: Ciências da Computação

Areas de Interesse: Exact Science Computer Sciences

Help

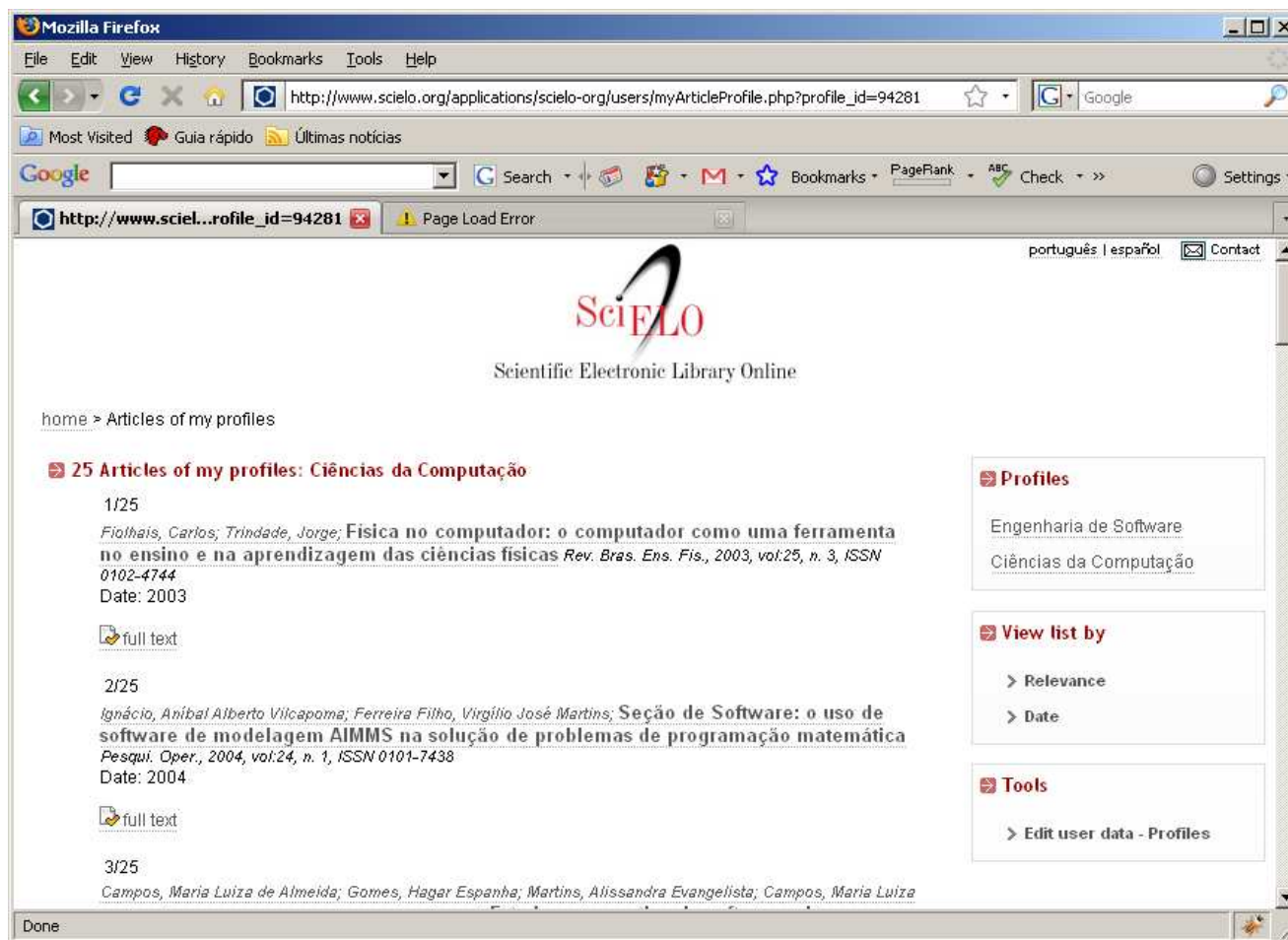
To all the previously registered users, the SciELO Portal offers additional functionalities according to the themes of your interest. "My profile's articles" and "My new profile's articles" are based on areas, sub-areas and themes description of your choice.

Done

Arquitetura SciELO – Resultados Finales

SciELO Architecture – Final Results

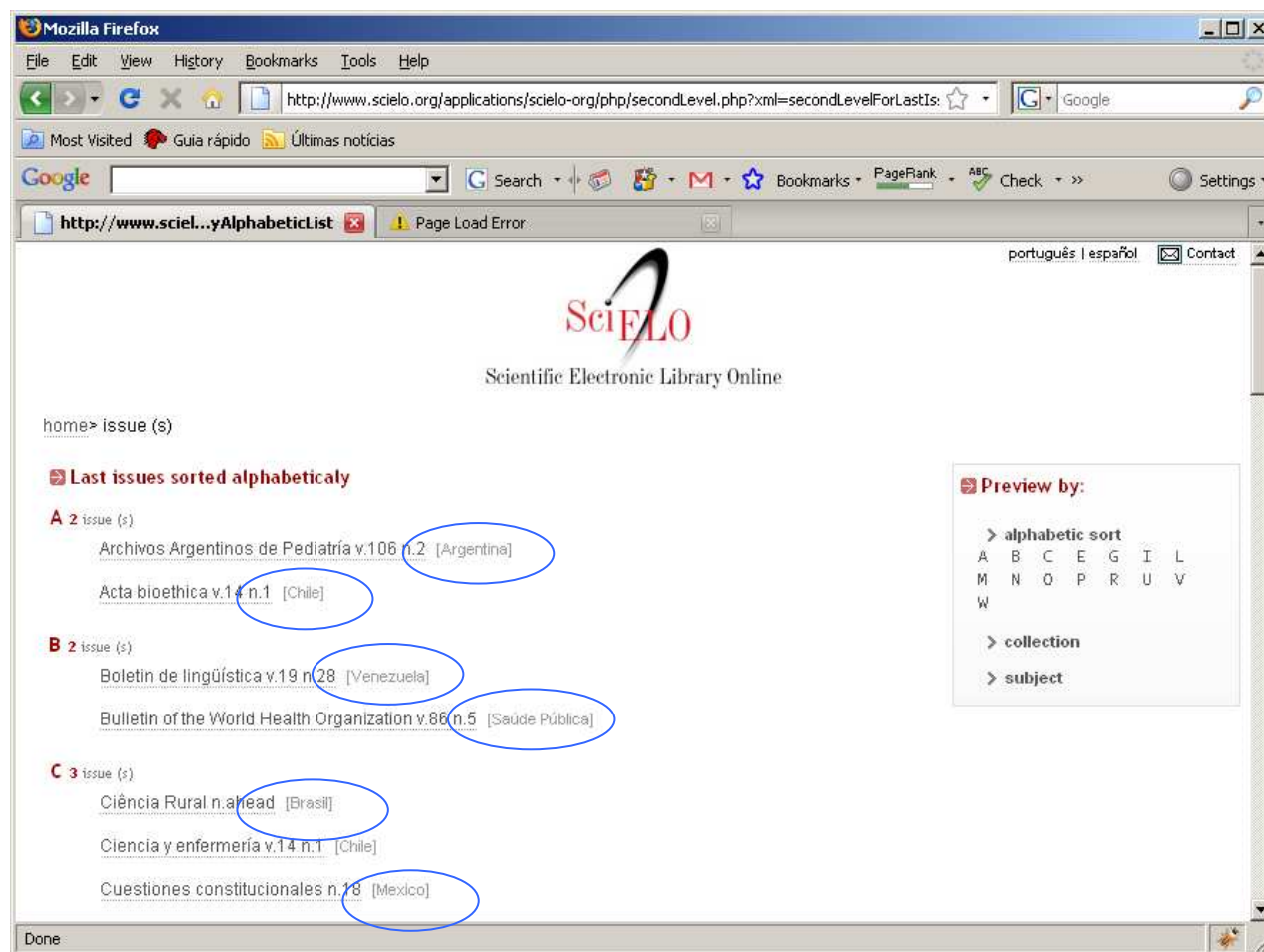
• Resultado del Servicio de Trigramas



Arquitectura SciELO – Resultados Finales

SciELO Architecture – Final Results

- Resultado del los Servicios (new tiles, new issues y get-titles)



Arquitectura SciELO – Resultados Finales

SciELO Architecture – Final Results

- Resultado del los Servicios (new tiles, new issues y get-titles)

The screenshot displays the SciELO.org website interface. The browser window title is "SciELO.org - Scientific Electronic Library Online - Mozilla Firefox". The address bar shows "http://www.scielo.org/php/index.php?lang=en". The page features the SciELO logo and the text "Scientific Electronic Library Online".

Key sections and highlighted elements include:

- SciELO Network:** Includes links for "About SciELO", "Access via OAI and RSS", and "Old Portal SciELO.org".
- collections:** A list of countries and regions, including Argentina, Brazil, Chile, Colombia, Cuba, Spain, Portugal, Venezuela, Public Health, and Social Sciences.
- in development:** Includes links for Mexico, West Indian Medical Journal, Costa Rica, Paraguay, Peru, and Uruguay.
- scientific diffusion:** Includes a link for "Ciência e Cultura".
- Search article:** A search bar with a "method" dropdown set to "by word", a "where" dropdown set to "Regional", and a "Search" button. Below the search bar, it lists "Indexes (Regional): country, author, keyword, title, organization, publication year, document type, original language".
- Browse journals:** A section for searching by journals, with a "search" button and a list of journals by alphabetic list (A-Z) and by subject (Agricultural Sciences, Applied Social Sciences, Architecture, Biological Sciences, Chemistry, Earth Sciences, Engineering, Exact and Earth Sciences).
- SciELO in numbers:** A section displaying statistics: "550 Journals", "11,996 Issues", "180,897 Articles", and "3,541,589 Citations".
- Services on demand:** A user menu for "Hello, Fabio Batalha" with links for "My Collection", "Articles of my profiles", "New articles of my profiles", "My News", "My Links", "My Alerts", and "My Comments".
- News:** A section with news items, including "CRIC88: congress will have active participation of Latin America and the Caribbean", "VHL Sources of Information motivate training activity in El Salvador", "Spain - joint actions strengthen the initiatives VHL and SciELO", "Latin American journals are more represented in the Web of Science, both in number of publications and citations", "Global coalitions to advance eHealth in developing countries is topic of international conference organized by Rockefeller Foundation", and "South Africa considers the SciELO model for its".

At the bottom right, there are logos for "biblioteca virtual en salud", "BIREME", "OPS", and "OMS".

Nueva Arquitectura SOA de la BVS

BVS New SOA Architecture

- Concepción
 - Arquitectura
 - Servicios
 - Resultados Finales
- Conception
 - Architecture
 - Services
 - Final results

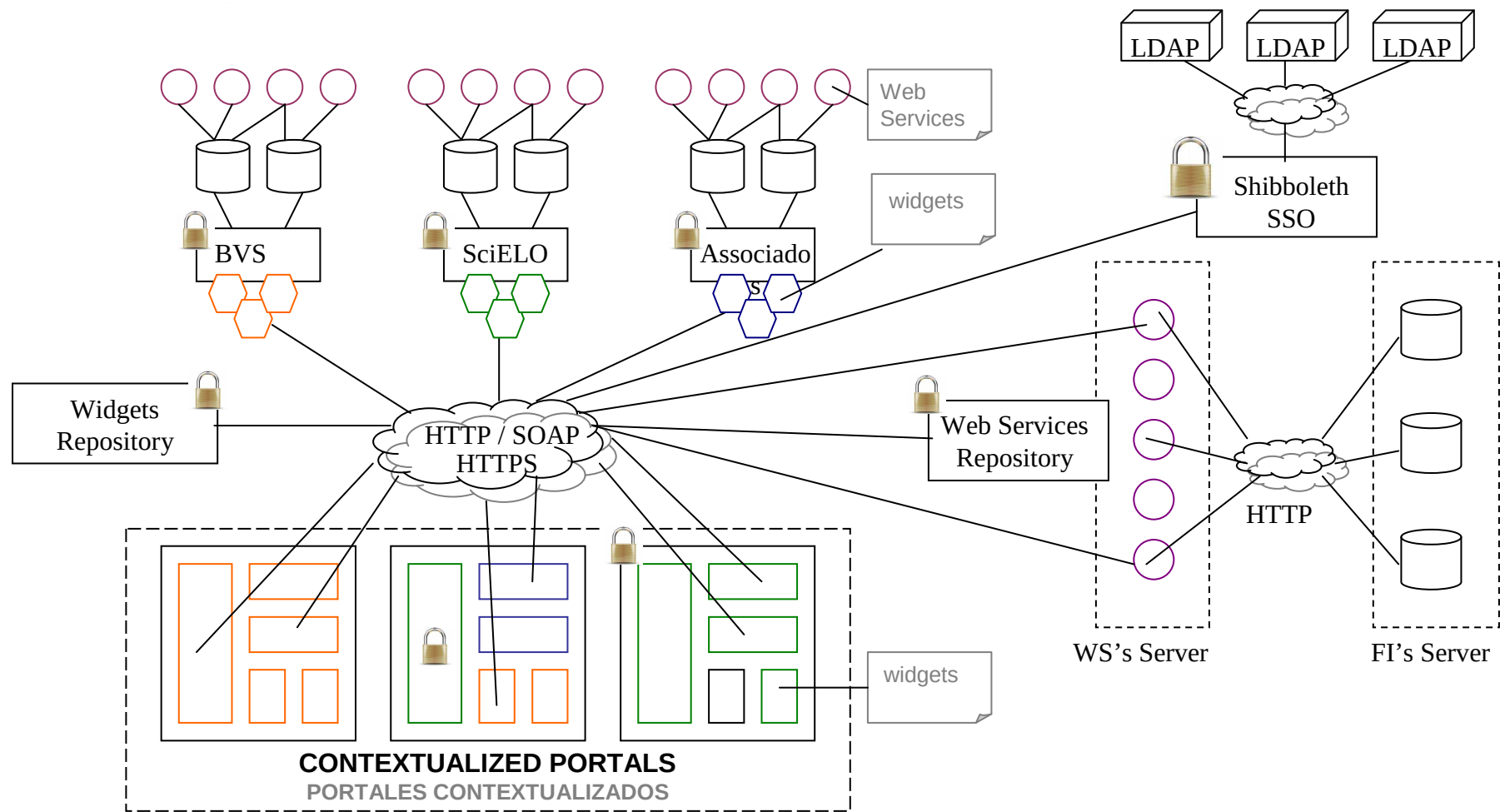
Nueva Arquitectura SOA de la BVS – Concepcion

BVS New SOA Architecture

- Necesidad de interoperabilidad entre desarrolladores de instituciones distintas
(Needs of interoperability between developer teams of different institutions)
- Necesidad de interoperabilidad entre las distintas aplicaciones de la red BVS, SciELO y ScienTI
(Needs of interoperability between different applications from BVS, SciELO and ScienTI network)
- Desarrollo y Costomización de un sitio agregador para las aplicaciones de la red BVS, SciELO y ScienTI
(Development / Customization of a new Aggregator for BVS, SciELO and ScienTI applications. (POSH))
- Adopción de una arquitectura embasada en servicios web
(Adoption of a new architecture based on web services.)

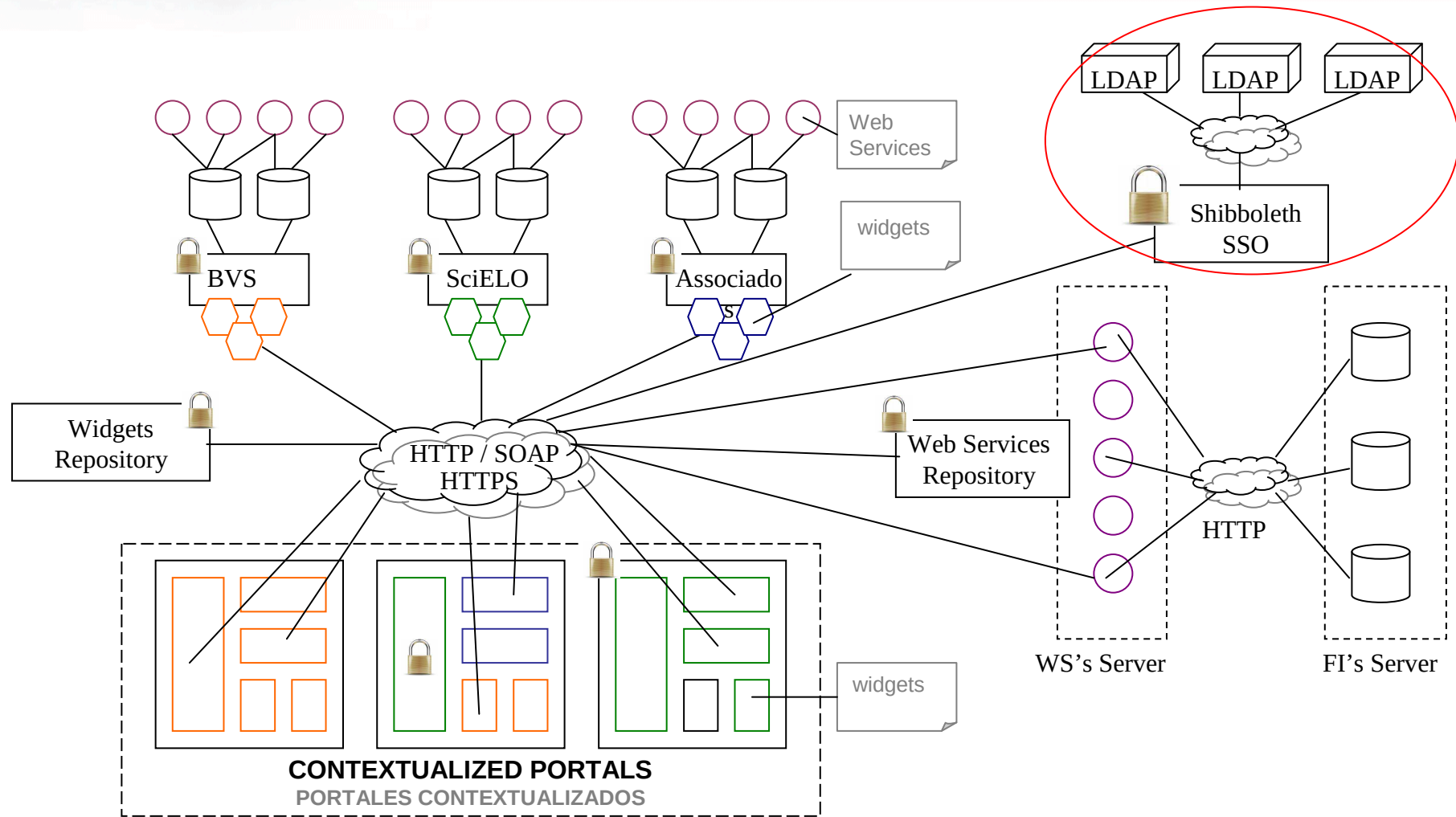
Nueva Arquitectura SOA de la BVS – Arquitectura

BVS new SOA Architecture - Architecture



Nueva Arquitectura SOA de la BVS – Arquitectura

BVS new SOA Architecture - Architecture





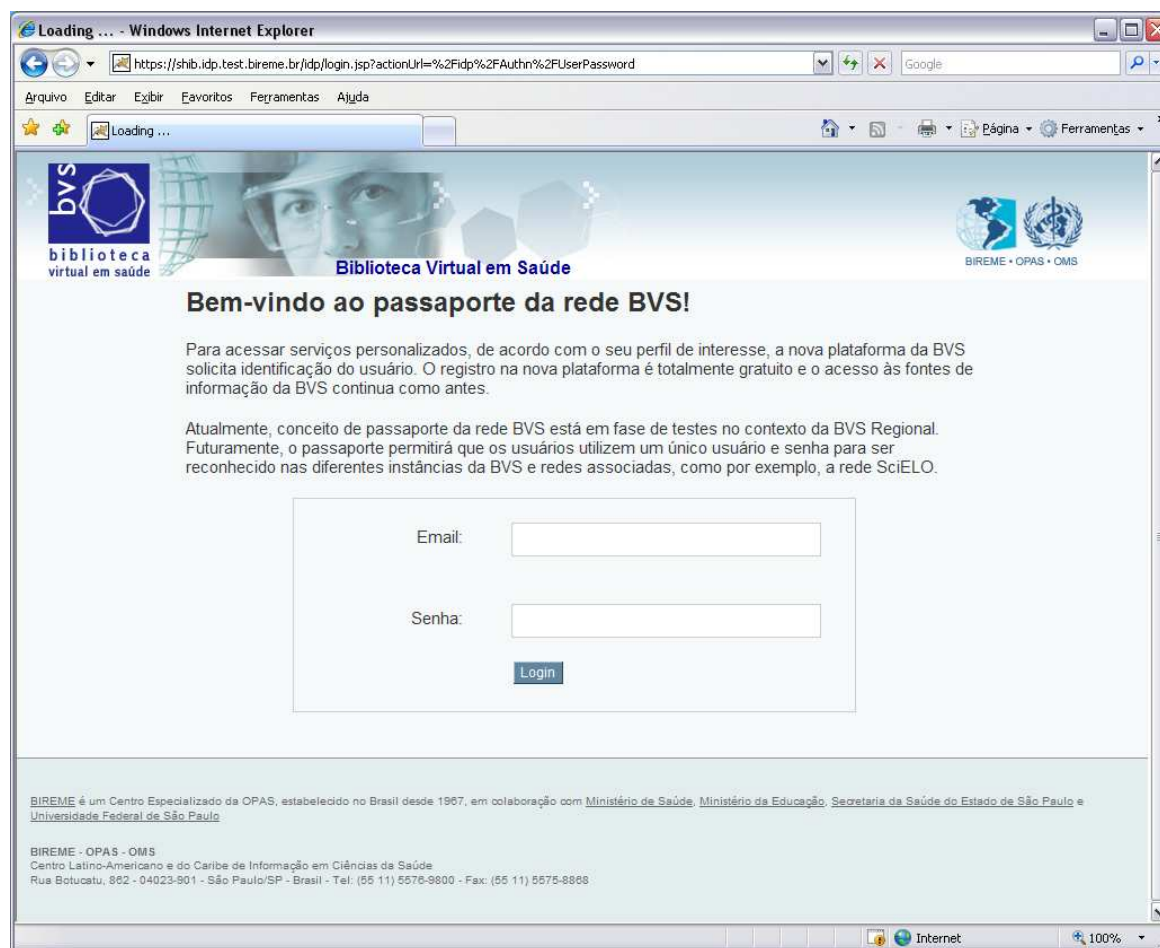
Nueva Arquitectura SOA de la BVS – Arquitectura BVS new SOA Architecture - Architecture

- Shibboleth
 - Framework de autenticación
 - Single Sign On (SSO)
 - Crossdomain Sessions
 - Framework
 - Encadenamiento de Servidores LDAP
 - Interfaz única de autenticación

BVS new SOA Architecture – Final Results

Nueva Arquitectura SOA de la BVS – Resultados Finales

- Passaporte BVS



The screenshot shows a Windows Internet Explorer browser window with the address bar displaying `https://shib.idp.test.bireme.br/idp/login.jsp?actionUrl=%2Fidp%2FAuthn%2FUserPassword`. The page header includes the BVS logo (biblioteca virtual em saúde) and the BIREME • OPAS • OMS logo. The main heading is "Bem-vindo ao passaporte da rede BVS!". Below this, there is a paragraph explaining the login process: "Para acessar serviços personalizados, de acordo com o seu perfil de interesse, a nova plataforma da BVS solicita identificação do usuário. O registro na nova plataforma é totalmente gratuito e o acesso às fontes de informação da BVS continua como antes." Another paragraph states: "Atualmente, conceito de passaporte da rede BVS está em fase de testes no contexto da BVS Regional. Futuramente, o passaporte permitirá que os usuários utilizem um único usuário e senha para ser reconhecido nas diferentes instâncias da BVS e redes associadas, como por exemplo, a rede SciELO." A login form is centered on the page, containing two input fields labeled "Email:" and "Senha:", and a "Login" button. At the bottom of the page, there is a footer with contact information: "BIREME é um Centro Especializado da OPAS, estabelecido no Brasil desde 1967, em colaboração com Ministério de Saúde, Ministério da Educação, Secretaria de Saúde do Estado de São Paulo e Universidade Federal de São Paulo." and "BIREME - OPAS - OMS Centro Latino-Americano e do Caribe de Informação em Ciências da Saúde Rua Botucatu, 862 - 04023-901 - São Paulo/SP - Brasil - Tel: (55 11) 5578-8800 - Fax: (55 11) 5575-8868".

Bem-vindo ao passaporte da rede BVS!

Para acessar serviços personalizados, de acordo com o seu perfil de interesse, a nova plataforma da BVS solicita identificação do usuário. O registro na nova plataforma é totalmente gratuito e o acesso às fontes de informação da BVS continua como antes.

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Email:

Senha:

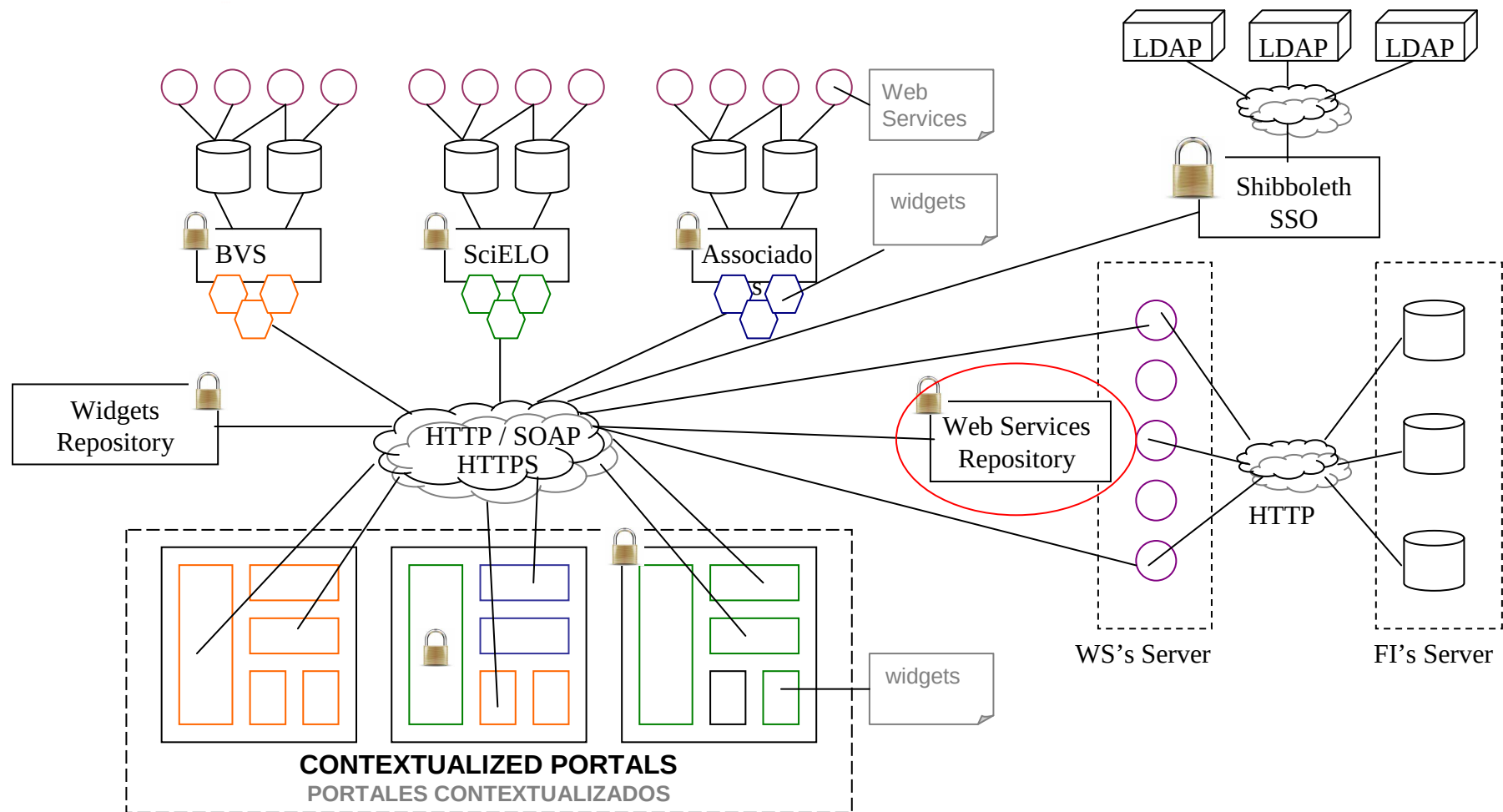
Login

BIREME é um Centro Especializado da OPAS, estabelecido no Brasil desde 1967, em colaboração com [Ministério de Saúde](#), [Ministério da Educação](#), [Secretaria de Saúde do Estado de São Paulo](#) e [Universidade Federal de São Paulo](#)

BIREME - OPAS - OMS
Centro Latino-Americano e do Caribe de Informação em Ciências da Saúde
Rua Botucatu, 862 - 04023-901 - São Paulo/SP - Brasil - Tel: (55 11) 5578-8800 - Fax: (55 11) 5575-8868

Nueva Arquitectura SOA de la BVS – Arquitectura

BVS new SOA Architecture - Architecture



Nueva Arquitectura SOA de la BVS – Servicios

BVS new SOA Architecture - Services

- Repositorio de servicios
 - Es la aplicación responsable por centralizar todos los servicios de la red BVS, SciELO y ScienTI

(It's an application responsible to centralize all the existing web services of BVS, SciELO and ScienTI Network.)

Nueva Arquitectura SOA de la BVS – Servicios

BVS new SOA Architecture - Services

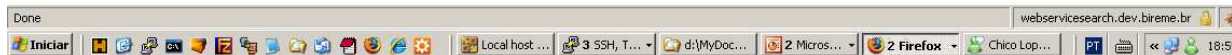
- Repositorio de Servicios – página inicial



Nueva Arquitectura SOA de la BVS – Servicios

BVS new SOA Architecture - Services

- Repositorio de Servicios - búsqueda



Nueva Arquitectura SOA de la BVS – Servicios

BVS new SOA Architecture - Services

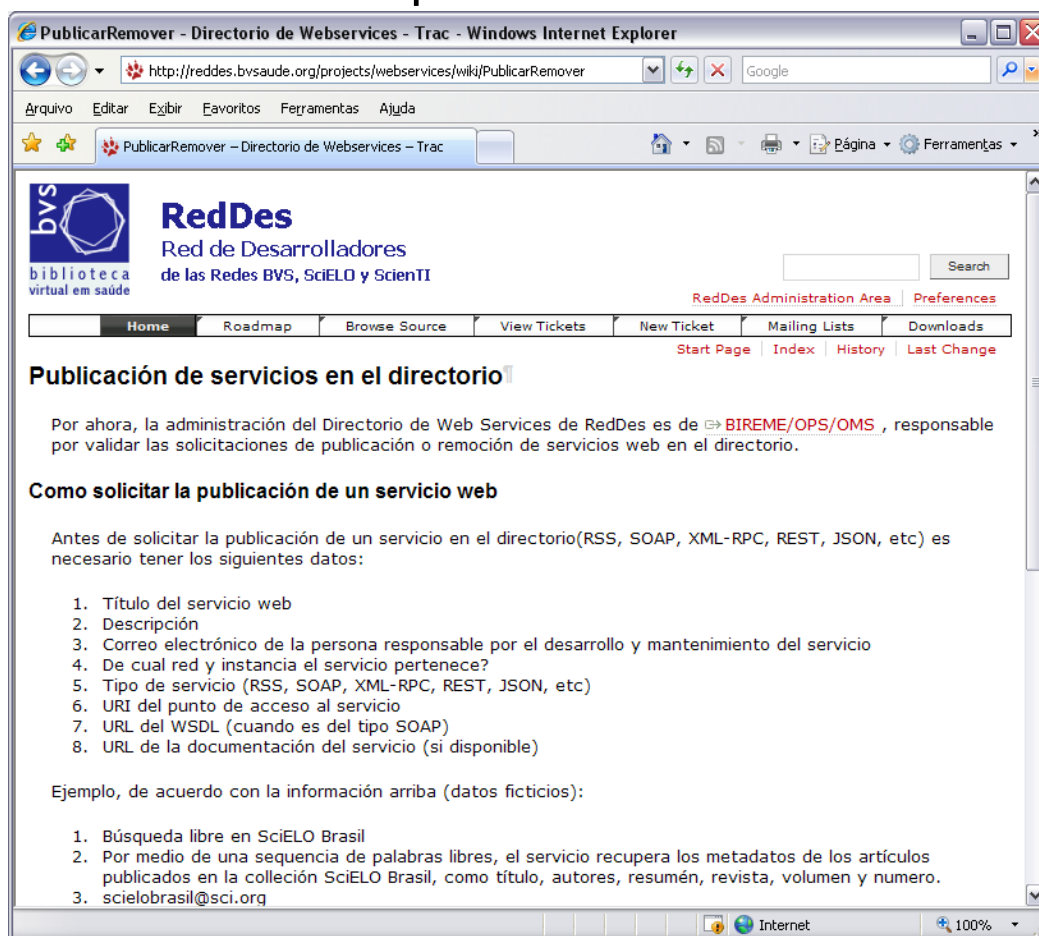
- Repositorio de Servicios – añadir

The screenshot shows a Mozilla Firefox browser window displaying the 'Publish Service' form on the Redpos website. The browser's address bar shows the URL: `https://webservicesearch.dev.bireme.br/php/publishWebServices.php`. The website header features the 'Redpos' logo and the text 'Red de Desarrolladores de las Redes BVS, SciELO y ScienTI'. A left-hand menu contains links for 'Home', 'Browse Services', and 'Publish Services'. The main content area is titled 'Publish Service' and includes a greeting: 'Ola, Fabio Batalha C. Santos'. Below this, a red instruction states: 'To publish a service, simply fill out and submit the form below.' The form contains several fields: 'Service Name' (text input), 'Description' (large text area), 'Email' (text input), 'Instance' (dropdown menu with '--Please Select--'), 'Type' (dropdown menu with '--Please Select--'), 'Access Point' (dropdown menu with '--Please Select--'), 'WSDL Url' (text input), and 'Help/Documentation' (text input). A 'submit' button is located at the bottom right of the form. The browser's status bar at the bottom shows the time as 18:58.

Nueva Arquitectura SOA de la BVS – Servicios

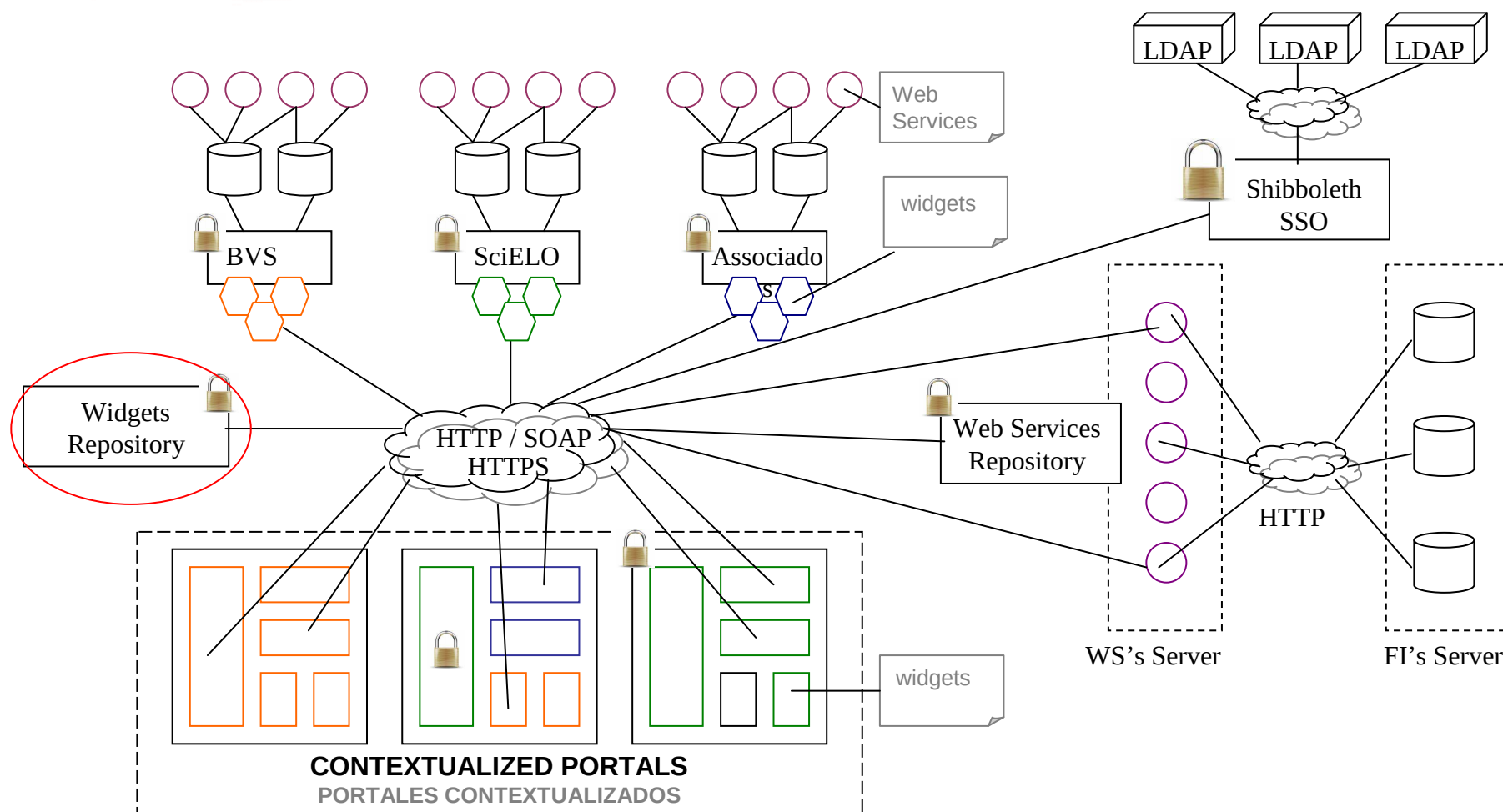
BVS new SOA Architecture - Services

- TRAC – Herramienta de gestión de tareas donde se puede solicitar la creación de servicios para la red de desarrolladores



Nueva Arquitectura SOA de la BVS – Arquitectura

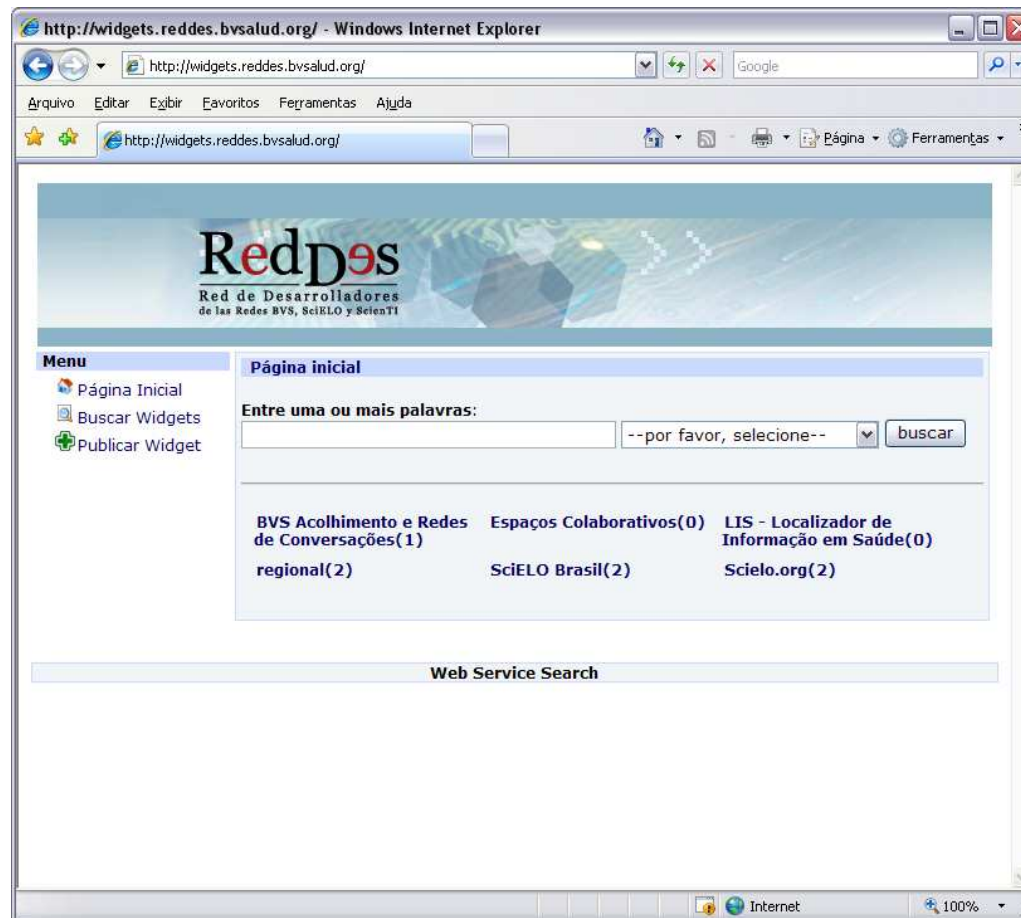
BVS new SOA Architecture - Architecture



Nueva Arquitectura SOA de la BVS – Servicios

BVS new SOA Architecture - Services

- Repositorio de Widgets – página inicial



BVS new SOA Architecture - Services

Nueva Arquitectura SOA de la BVS - Servicios

- TRAC – Herramienta de gestión de tareas donde se puede solicitar la creación de widgets para la red de desarrolladores

The screenshot shows a web browser window titled "PublicarRemover - Directorio de Widgets - Trac - Windows Internet Explorer". The address bar shows the URL "http://reddes.bvsauade.org/projects/widgets/wiki/PublicarRemover". The page content includes the RedDes logo and name, a search bar, and a navigation menu with links like Home, Roadmap, Browse Source, View Tickets, New Ticket, Mailing Lists, and Downloads. The main heading is "Publicación de widgets en el directorio". Below it, a paragraph states that the administration of the Web Widgets Directory is the responsibility of BIREME/OPS/OMS. The section "Como solicitar la publicación de un widget" lists five required data points: widget title, description, email of the responsible person, the network/instance it belongs to, and the widget's access URI. An example is provided with fictitious data: recent articles in SciELO Brasil, a widget that fetches article metadata, the email scielobrasil@sci.org, the Red SciELO instance, and a specific XML URL. At the bottom, it instructs users to create a ticket and fill in the "Reporter" field.

PublicarRemover - Directorio de Widgets - Trac - Windows Internet Explorer

http://reddes.bvsauade.org/projects/widgets/wiki/PublicarRemover

Arquivo Editar Exibir Favoritos Ferramentas Ajuda

PublicarRemover - Directorio de Widgets - Trac

bvs
biblioteca
virtual em saúde

RedDes
Red de Desarrolladores
de las Redes BVS, SciELO y ScienTI

Search

RedDes Administration Area Preferences

Home Roadmap Browse Source View Tickets New Ticket Mailing Lists Downloads

Start Page Index History Last Change

Publicación de widgets en el directorio

Por ahora, la administración del Directorio de Web Widgets de RedDes es de **BIREME/OPS/OMS**, responsable por validar las solicitudes de publicación o remoción de esas aplicaciones en el directorio.

Como solicitar la publicación de un widget

Antes de solicitar la publicación de un widget en el directorio es necesario tener los siguientes datos:

1. Título del widget
2. Descripción
3. Correo electrónico de la persona responsable por el desarrollo y mantenimiento del widget
4. De cual red y instancia el widget pertenece?
5. URI del punto de acceso al widget

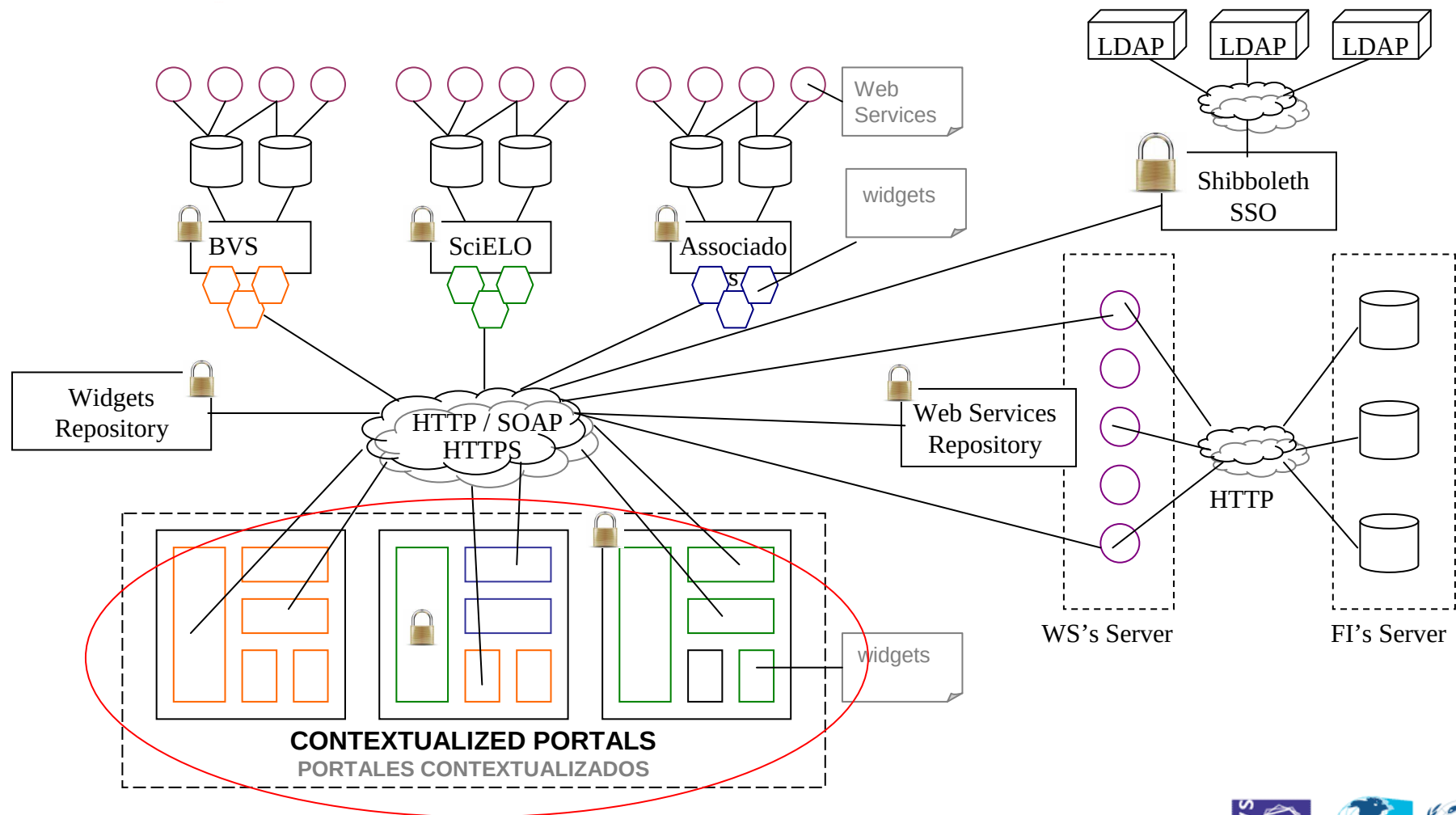
Ejemplo, de acuerdo con la información arriba (datos ficticios):

1. Artículos más recientes en SciELO Brasil
2. Ese widget trae los metadatos de título, autores y la URL de los 10 más recientes artículos publicados en la colección SciELO Brasil.
3. scielobrasil@sci.org
4. Red SciELO, instancia Brasil
5. http://www.sci.br/widgets/recientes.xml

Para solicitar la publicación del widget, es necesario **crear un ticket**, llenando el campo **"Reporter"** con su

Nueva Arquitectura SOA de la BVS – Arquitectura

BVS new SOA Architecture - Architecture



BVS new SOA Architecture – Final Results

Nueva Arquitectura SOA de la BVS – Resultados Finales

- Portal Contextualizado “BVS Portal”



BIREME • OPS • OMS



Links

- BVS
<http://www.bireme.org>
- SciELO.ORG
<http://www.scielo.org>
- Wiki Reddes
<http://wiki.reddes.bvsalud.org/index.php/Portada>
- WebServices Directory
<http://webservices.reddes.bvsalud.org/php/index.php?lang=en>
- Widgets Directory
<http://widgets.reddes.bvsalud.org/php/index.php?lang=en>
- Shibboleth
<http://shibboleth.internet2.edu>



Gracias! Thanks!

II Meeting of Developers from VHL, SciELO and ScienTI networks

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