

Metodología de Desarrollo de la Red

Conociendo los conceptos e
procesos de la metodología da Red
de Desarrolladores

Milton Lapido

Coordinador de Desarrollo

MTI, BIREME/OPS/OMS

Agenda

- Concepto
 - Cultura de Red
 - Interoperabilidade
 - Plataforma
 - Licencias
 - Comité Consultivo

Agenda

- Elementos de la Metodología
 - Control
 - Portal
 - Procesos
 - Creación de Proyectos
 - Gestión de Códigos Fuente y Documentos
 - Revisión de Código Fuente
 - Gestión de Acciones/Eventos

Agenda

- Elementos de la Metodología
 - Herramientas
 - Subversion (TortoiseSVN)
 - Fisheye
 - Crucible
 - Jira

Concepto

- Cultura de Red
 - Atender 5 objetivos
 - Multiplicar el número de desarrolladores involucrados en los proyectos de la red.
 - Favorecer el conocimiento compartido.
 - Mejorar la sustentabilidad de los desarrollos.
 - Mejorar la infraestructura para los desarrolladores.
 - Incrementar la tasa de éxito de los proyectos.

Concepto

- Interoperabilidad
 - La interoperabilidad es un principio que debe ser seguido por todos los proyectos de la red.
 - Este principio dice que las aplicaciones nuevas deben mantener la interoperabilidad con las aplicaciones ya desarrolladas en el ámbito de la red.

Concepto

- Plataforma
 - Non es mandatoria.
 - Debe haber un conjunto de tecnologías sugeridas y probadas que facilitan la interoperabilidad.
 - Bireme sugiere las siguientes tecnologías.
 - Python, Java
 - Zope, JEE
 - ZODB, ISIS
 - Plone

Concepto

- Licencias
 - Cada proyecto puede tener su propio esquema de licenciamiento.
 - Hay un conjunto de licencias recomendadas.

Concepto

- **Comité Consultivo**
 - Es una necesidad.
 - Tendrá la función de discutir las tecnologías, licencias, prácticas e metodologías e procesos adoptados en la red.

Elementos de la Metodología

- Control
 - El control es un elemento conceptual y que tender a ser mejorado y mantenido.
 - Portal de proyectos: Como herramienta para favorecer el control.

Elementos de la Metodología

- Procesos
 - Creación de Proyectos
 - Cada proyecto debe ser creado en el portal.
 - Se sigue creando una lista de propuestas de funcionalidades.
 - Definir una agenda de desarrollo.
 - Definir un moderador.
 - Definir una lista de tareas.
 - Definir, plataformas y tecnologías.

Elementos de la Metodología

- Procesos
 - Gestión de Códigos Fuente y Documentos
 - Para evitar la duplicidad de esfuerzos
 - Para garantizar la integridad de los archivos.
 - Para evitar errores.
 - Para diferentes versiones publicadas de la aplicación
 - Revisión de Códigos Fuentes
 - Para aumentar la diseminación del conocimiento.
 - Para aumentar la calidad y reuso.

Elementos de la Metodología

- Procesos
 - Gestión de Acciones/Eventos
 - Para el registro y seguimiento de errores.
 - Para el registro y seguimiento de tareas generales.
 - Para el registro y seguimiento de nuevos requerimientos.
 - Para el registro y seguimiento de mejoras.

Elementos de la Metodología

- Herramientas
 - Subversion
 - TortoiseSVN
 - Fisheye
 - Crucible
 - Jira

Elementos de la Metodología

- Herramientas

- Subversion

- Aplicativo libre de gestión de repositorio de código fuentes y de documentos.
 - Permite la gestión de los archivos de un proyecto.

- TortoiseSVN

- Aplicativo de Software Libre que permite una integración de Windows explorer con el repositorio de código fuentes de manera simple y transparente.

Elementos de la Metodología

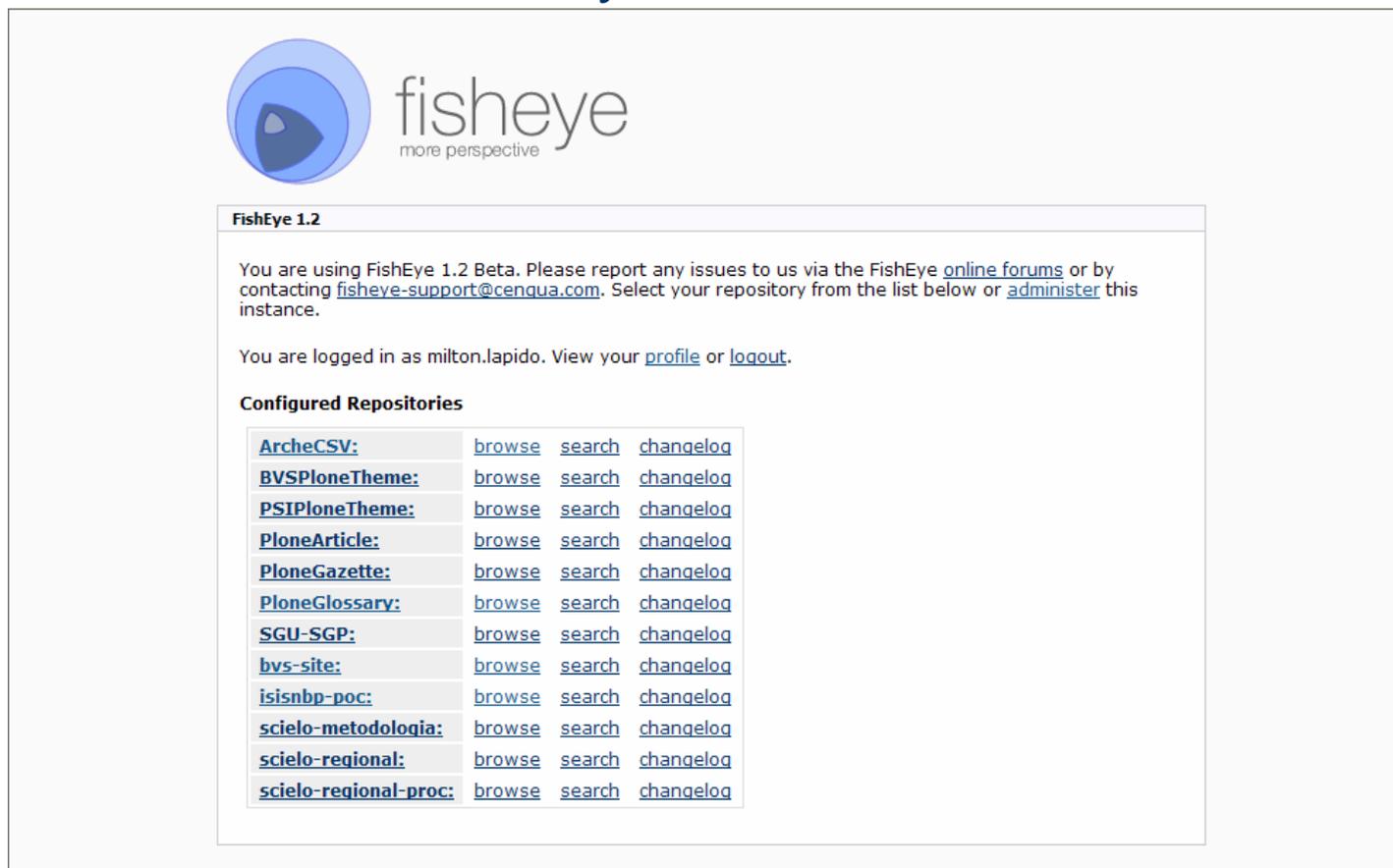
- Herramientas

- Fisheye

- Un aplicativo web para visualización e acceso a repositorios de código fuente.
 - Se conecta a Subversion y a CVS.
 - Non es software libre mas conceden gratis licencias para proyectos de software libre.

Elementos de la Metodología

- Herramientas - Fisheye



The screenshot shows the Fisheye search interface. At the top left is the Fisheye logo, a blue circle with a white fish-like shape inside, and the text "fisheye more perspective". Below the logo is a section titled "FishEye 1.2" containing a message: "You are using FishEye 1.2 Beta. Please report any issues to us via the FishEye [online forums](#) or by contacting fisheye-support@cenqua.com. Select your repository from the list below or [administer](#) this instance." Below this message is a line: "You are logged in as milton.lapido. View your [profile](#) or [logout](#)." Underneath is a section titled "Configured Repositories" which contains a table with 14 rows. Each row lists a repository name followed by three links: "browse", "search", and "changelog".

Repository Name	browse	search	changelog
ArcheCSV:	browse	search	changelog
BVSPioneTheme:	browse	search	changelog
PSIPioneTheme:	browse	search	changelog
PioneArticle:	browse	search	changelog
PioneGazette:	browse	search	changelog
PioneGlossary:	browse	search	changelog
SGU-SGP:	browse	search	changelog
bvs-site:	browse	search	changelog
isisnbp-poc:	browse	search	changelog
scielo-metodologia:	browse	search	changelog
scielo-regional:	browse	search	changelog
scielo-regional-proc:	browse	search	changelog

Elementos de la Metodología

- Herramientas - Fisheye

The screenshot displays the Fisheye web interface for a repository named 'scielo-regional'. The interface includes a navigation bar with 'BROWSE', 'CHANGELOG', and 'SEARCH' options. The main content area is divided into several sections:

- Line History:** A graph showing commit activity over time, with a red line indicating a significant increase in activity starting in late 2006.
- Recent Changelog:** A list of recent commits, including:
 - Commit 520 by **andre.otero** on 09 February 2007, 13:35:11 -0200 (31 hours ago), resolving a Jira bug about a non-functional Traker service.
 - Commit 518 by **andre.otero** on 06 February 2007, 13:55:14 -0200 (4 days ago), updating links for co-authorship instances.
 - Commit 517 by **fabio.batalha** on 06 February 2007, 11:09:35 -0200 (4 days ago), adding terms to a collection.
 - Commit 516 by **andre.otero** on 06 February 2007, 10:49:53 -0200 (4 days ago), resolving a Jira bug about a message appearing for negative results.
- Constraint:** A section for filtering commits by branch, author, tag, and date.
- Sub Directories:** A list of sub-directories including 'branches/', 'tags/v1/', and 'trunk/'.

At the bottom of the interface, it states: "FishEye (1.2 build-187) Open Source License registered to the CDS-ISIS; Virtual Health Library Project. This license of FishEye is provided to support the development of CDS-ISIS; Virtual Health Library only."

Elementos de la Metodología

- Herramientas - Fisheye

The screenshot displays the Fisheye web interface for the repository `scielo-regional:/trunk/classes/`. The interface includes a navigation bar with user information (milton.lapido) and actions (Profile, Logout, Help, BROWSE, CHANGELOG, SEARCH). A search bar is located in the top right.

Line History: A graph showing commit activity from September to November 2006. The y-axis represents the number of files (0 to 16K), and the x-axis shows months. A sharp spike is visible in late September.

Recent Changelog: A list of recent commits:

- 365** by **andre.otero** 13 November 2006, 16:49:55 -0200 (2 months 28 days ago). Retirada a substituição de & por & e um debug que havia na função `getArticles`. `./services/TrigramaSimilar.php` 365 (+2 -3) diffs.
- 347** by **fabio.batalha** 09 November 2006, 16:28:33 -0200 (3 months 1 day ago). Arquivos referentes ao projeto SciELO Regional, tarefa PSE-45. `./services/ServicesHandler.php` 347 (+58) new, `./services/TrigramaCited.php` 347 (+16) new, `./services/TrigramaRelated.php` 347 (+16) new, `./services/TrigramaSimilar.php` 347 (+64) new.
- 346** by **fabio.batalha** 09 November 2006, 16:25:36 -0200 (3 months 1 day ago). Alterações referentes ao projeto SciELO Regional, tarefa PSE-45. `./UserProfileAction.php` 346 (+9 -6) diffs.
- 177** by **andre.otero** 06 October 2006, 10:32:43 -0300 (4 months 5 days ago). Retirada a tabulação no início do arquivo. `./ProfileArticle.php` 177 (+1 -1) diffs.

Constraint: Filter options for Branch (any), Author (any), Tag, and Date.

Sub Directories: A tree view showing the directory structure: `..`, `common/`, `domit-1/`, `services/`, and `XML_XSL/CVS/`.

Files: A table listing files in the repository:

NAME«	REV	AGE	AUTHOR
<code>AccessArticle.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido
<code>Article.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido
<code>ArticleDAO.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido
<code>ArticleRequests.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido
<code>ArticleStats.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido
<code>classDefFile.inc.php</code> 'initial_layout'	9	5 months 9 days	milton.lapido

Elementos de la Metodología

- Herramientas - Fisheye

The screenshot displays the Fisheye web interface for a repository named 'scielo-regional'. The top navigation bar includes the 'fisheye' logo, user information for 'milton.lapido', and links for 'Profile', 'Logout', and 'Help'. There are also buttons for 'BROWSE', 'CHANGELOG', and 'SEARCH', along with a 'Quick Search' input field.

The main content area is divided into several sections:

- Line History:** A line graph showing the number of lines in the trunk branch over time. The y-axis ranges from 0 to 40, and the x-axis shows dates from Sep-2006 to Jan-2007. A red line indicates the current state, showing a sharp increase from approximately 25 to 38 lines in late 2006, followed by a period of stability.
- History:** A vertical list of commits. The top commit is 'trunk' (revision 520) dated 2007-Feb-09. Below it is revision 9 dated 2006-Sep-01.
- Show Arbitrary Diff:** A section with two input fields for 'From' and 'to' revisions, and a 'Show Diffs' button. Below the fields, it states 'Supports revisions and tags.'
- Branch trunk:** A list of recent commits for the trunk branch, ordered by latest revision. Each entry includes the revision number, a link to 'annotated' or 'raw' view, diff links, line changes, creation date, author, and a brief description of the change.

Revision	Author	Date	Lines	Description
520	andre.otero	2007-Feb-09	40 (+3, -0)	Resolução do BUG registrado no Jira 'Serviço de Traker não está funcionando'
105	andre.otero	2006-09-12	37 (+9, -9)	Alterado de localhost para jade a localização do servidor do SGU Tags: v1
18	milton.lapido	2006-09-04	37 (+12, -0)	Acrescentado parametros para os Métodos gerarSenha e enviarsenha do

Elementos de la Metodología

- Herramientas - Fisheye

The screenshot displays the Fisheye tool interface for a file named `scielo-regional:/trunk/sgu/services.ini` at revision 520. The interface includes a navigation bar with user information (milton.lapido) and options (Profile, Logout, Help, BROWSE, CHANGELOG, SEARCH). A search bar is located in the top right.

Annotations

Annotate by Age | Author | None

Age	Count
5 months 9 days	19
5 months 6 days	9
4 months 29 days	9
31 hours	3

Annotated File View

Author	Revision	Line	Content
andre.otero	520	1	[traker]
		2	url = "http://jade:8085/sgu/include.jsp?token= token &location= location &referer= referer "
		3	
milton.lapido	9	4	[loginAplicacao]
andre.otero	105	5	wSDL = http://jade:8085/webtools/control/SOAPService/loginAplicacao?wSDL
milton.lapido	9	6	servico = loginAplicacao
		7	
		8	[loginUsuario]
andre.otero	105	9	wSDL = http://jade:8085/sgu_websevice/control/websevice/loginUsuario?wSDL
milton.lapido	9	10	servico = loginUsuario
		11	
		12	[logOffUsuario]
andre.otero	105	13	wSDL = http://jade:8085/sgu_websevice/control/websevice/logOffUsuario?wSDL
milton.lapido	9	14	servico = logOffUsuario
		15	
		16	[novoUsuario]
andre.otero	105	17	wSDL = http://jade:8085/sgu_websevice/control/websevice/novoUsuario?wSDL
milton.lapido	9	18	servico = novoUsuario
		19	
		20	[todosDados]

Elementos de la Metodología

- Herramientas - Fisheye

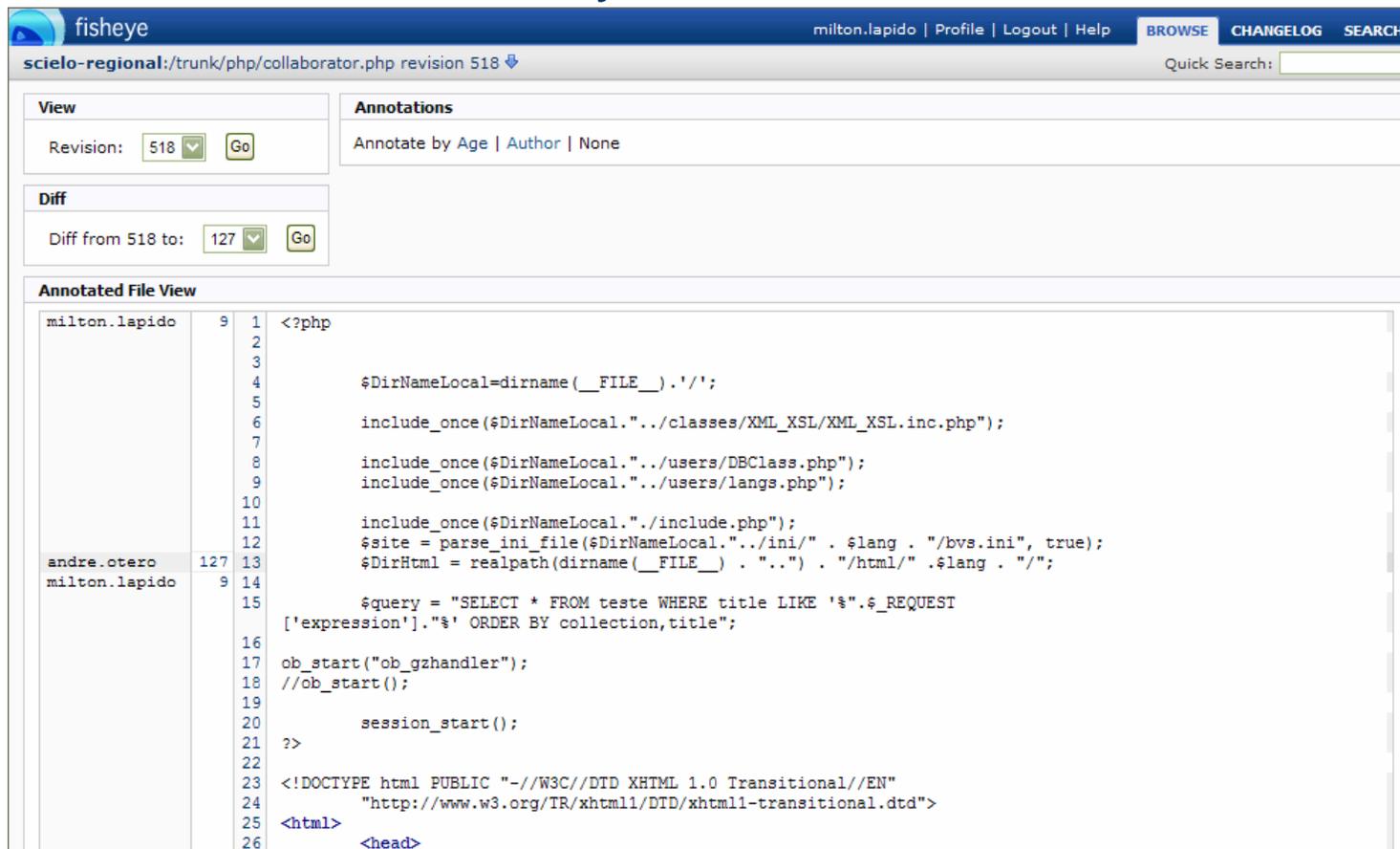
The screenshot displays the Fisheye web interface for a file named 'services.ini' at revision 520. The interface includes a navigation bar with 'fisheye' branding and user options for 'milton.lapido'. The main content area is divided into several sections:

- View:** A dropdown menu set to '520' and a 'Go' button.
- Diff:** A dropdown menu set to '105' and a 'Go' button.
- Annotations:** A section titled 'Annotate by Age | Author | None' showing a pie chart. The chart indicates that 'milton.lapido' has 28 annotations (70%) and 'andre.otero' has 12 annotations (30%).
- Annotated File View:** A table showing the file's content with annotations. The table has columns for the author, revision, line number, and the code content.

Author	Revision	Line	Code
andre.otero	520	1	[traker]
		2	url = "http://jade:8085/sgu/include.jsp?token= token &location= location &referer= referer "
		3	
milton.lapido	9	4	[loginAplicacao]
andre.otero	105	5	wSDL = http://jade:8085/webtools/control/SOAPService/loginAplicacao?wSDL
milton.lapido	9	6	servico = loginAplicacao
		7	
		8	[loginUsuario]
andre.otero	105	9	wSDL = http://jade:8085/sgu_webservice/control/webService/loginUsuario?wSDL
milton.lapido	9	10	servico = loginUsuario
		11	
		12	[logOffUsuario]
andre.otero	105	13	wSDL = http://jade:8085/sgu_webservice/control/webService/logOffUsuario?wSDL
milton.lapido	9	14	servico = logOffUsuario
		15	
		16	[novoUsuario]
andre.otero	105	17	wSDL = http://jade:8085/sgu_webservice/control/webService/novoUsuario?wSDL
milton.lapido	9	18	servico = novoUsuario

Elementos de la Metodología

- Herramientas - Fisheye



The screenshot displays the Fisheye web interface for a repository named 'scielo-regional'. The page shows a diff view of the file 'trunk/php/collaborator.php' at revision 518. The interface includes a navigation bar with 'BROWSE', 'CHANGELOG', and 'SEARCH' options, and a user profile for 'milton.lapido'. The main content area is divided into sections: 'View' (Revision: 518, Go), 'Annotations' (Annotate by Age | Author | None), 'Diff' (Diff from 518 to: 127, Go), and 'Annotated File View'. The 'Annotated File View' section shows a table with columns for author, revision, and line number, alongside the PHP code. The code includes database connection logic, session management, and an SQL query.

Author	Revision	Line	Code
milton.lapido	9	1	<?php
		2	
		3	
		4	\$DirNameLocal=dirname(__FILE__).'/';
		5	
		6	include_once(\$DirNameLocal."../classes/XML_XSL/XML_XSL.inc.php");
		7	
		8	include_once(\$DirNameLocal."../users/DBClass.php");
		9	include_once(\$DirNameLocal."../users/langs.php");
		10	
		11	include_once(\$DirNameLocal."./include.php");
		12	\$site = parse_ini_file(\$DirNameLocal."../ini/" . \$lang . "/bvs.ini", true);
andre.otero	127	13	\$DirHtml = realpath(dirname(__FILE__) . "..") . "/html/" . \$lang . "/";
milton.lapido	9	14	
		15	\$query = "SELECT * FROM teste WHERE title LIKE '%\$\$_REQUEST
			['expression'].%\$' ORDER BY collection,title";
		16	
		17	ob_start("ob_gzhandler");
		18	//ob_start();
		19	
		20	session_start();
		21	?>
		22	
		23	<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
		24	"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
		25	<html>
		26	<head>

Elementos de la Metodología

- Herramientas - Fisheye

The screenshot shows the Fisheye web interface. At the top, there is a navigation bar with the 'fisheye' logo, user information 'milton.lapido | Profile | Logout | Help', and buttons for 'BROWSE', 'CHANGELOG', and 'SEARCH'. Below this, the URL 'scielo-regional:/trunk/webservices/xml/labels.xml' is displayed, along with a 'Quick Search:' field.

The main content area is divided into three sections: 'Context', 'Other Diffs', and 'Ignore'. The 'Context' section shows 'Displaying 3 lines either side each change. None | Less | More | Full'. The 'Other Diffs' section has dropdown menus for '362' and '497', and a 'View' button. The 'Ignore' section has a 'Blank Lines' checkbox and a 'Whitespace:' dropdown set to 'None', with an 'Apply' button.

The 'Diff' section shows a comparison of two versions of the 'labels.xml' file. The left column shows line numbers from the original file (362, 497, 497), and the right column shows line numbers from the modified file. The diff is color-coded: green for additions, red for deletions, and yellow for changes. The XML content is as follows:

```
362 497 497 labels.xml
5 5 <journal>Periódico</journal>
6 6 <journals>Periódicos</journals>
7 7
8 + <all>todos</all>
9 + <issueFrom>periódicos de </issueFrom>
10 + <issueTo> até </issueTo>
11 + <titleFrom>titulos de </titleFrom>
12 + <titleTo> até </titleTo>
13 +
8 14 <title>Título</title>
9 15 <titles>Títulos</titles>
10 16
...
117 123 <journals>Periódicos</journals>
118 124 <title>Título</title>
119 125 <titles>Títulos</titles>
120 - <issue>Fascículo</issue>
121 - <issues>Fascículos</issues>
126 + <issue>Faciculo</issue>
127 + <issues>Faciculos</issues>
122 128 <lastUpdate>última atualização</lastUpdate>
123 129
130 + <all>todos</all>
131 + <issueFrom>fasciculos de </issueFrom>
132 + <issueTo> hasta </issueTo>
133 + <titleFrom>periódicos de </titleFrom>
```

Elementos de la Metodología

- Herramientas

- Crucible

- Un aplicativo web integrado a Fisheye que permite al equipo de desarrollo hacer revisión de los código fuentes de un proyecto.
 - Como Fisheye es un software propietario pero se puede obtener licencias para proyectos de software libre.

Elementos de la Metodología

- Herramientas - Crucible

Elementos de la Metodología

- Herramientas

- Jira

- Aplicativo para gestión de problemas, incidentes, tareas e mejoras, de un proyecto.
 - Es un software propietario.
 - Se puede obtener licencias para proyectos de software libre.
 - Es frecuentemente utilizado por proyectos de software libre y grandes empresas por todo el mundo.

Elementos de la Metodología

- Herramientas - Jira

The screenshot displays the JIRA na Bireme web interface. At the top, there is a navigation bar with the JIRA logo and the text "JIRA na Bireme". The user is identified as "Usuário: Milton Lapido" with links for "Filtros", "Perfil", and "Sair do sistema". The main navigation menu includes "PRINCIPAL", "NAVEGAR NOS PROJETOS", "ENCONTRAR PENDÊNCIAS", "NOVA PENDÊNCIA", "ADMINISTRAÇÃO", and a search bar labeled "BUSCA RÁPIDA:". Below the navigation, the page title is "JIRA na Bireme" with a "Gerenciar Portal" link.

The interface is divided into several sections:

- Category Selection:** A list of categories with "mostrar >>" links: Anvisa, Aplicação WEB, Plataforma, Plone, and SciELO (highlighted with "esconder").
- Project Details (SciELO):** Shows "Projeto : Avaliação de Periódicos (AVA)" with leader "fabiana.montanari" and links for "Relatórios: Pendências Abertas | Trilha | Registro de Alterações | Pendências Populares". It also indicates "Não há Pendências abertas".
- Filtering Options:** A section titled "Filtrar Pendências:" with two columns of filter options: "Resolvidos recentemente", "Adicionado recentemente", "Atualizado recentemente", and "Mais importante" in the first column; and "TODOS", "Importantes", "Não Agendados", "Atribuídos a mim", and "Criados por mim" in the second column.
- Filters and Open Issues:** A section for "Filtros Gravados" (none currently) and "Pendências Abertas: Atribuídas a Mim" (2 items):
 - PSC-35: Criar repositório para Portal SciELO Instância
 - PSE-49: Revisão dos termos no idioma inglês da interface do Portal
- Open Issues (Em progresso):** One item: PSC-35: Criar repositório para Portal SciELO Instância.
- Administration Tasks:** A table listing tasks such as "Administration", "Projects", "Users", "Data", "Setup", and "License".

Elementos de la Metodología

- Herramientas - Jira

JIRA JIRA na Bireme Usuário: Milton Lapido Filtros | Perfil | Sair do sistema

PRINCIPAL NAVEGAR NOS PROJETOS ENCONTRAR PENDÊNCIAS NOVA PENDÊNCIA ADMINISTRAÇÃO BUSCA RÁPIDA:

Criar Pendência

Passo 1 de 2: Escolha o projeto e o tipo de pendência...

* Projeto: Portal SciELO Regional

* Tipo de Pendência: Bug

Bug
New Feature
Task
Improvement

Próximo>> Cancelar

This site is running on Atlassian [JIRA](#) with a free **Open Source Project / Non-profit License** ([license details](#)).
JIRA is an [issue tracking](#) and [bug tracking](#) application. [Evaluate JIRA for your organisation](#).

Powered by [Atlassian JIRA™](#) the Professional Issue Tracker. (Enterprise Edition, Version: 3.6.2-#156) - [Bug/feature request](#) - [Contact Administrators](#)

Elementos de la Metodología

- Herramientas - Jira

JIRA JIRA na Bireme Usuário: Milton Lapido Filtros | Perfil | Sair do sistema

PRINCIPAL NAVEGAR NO PROJETO ENCONTRAR PENDÊNCIAS NOVA PENDÊNCIA ADMINISTRAÇÃO BUSCA RÁPIDA:

Criar Pendência

Passo 2 de 2: Escolha os detalhes da pendência...

Projeto: Portal SciELO Regional

Tipo de Pendência: Bug

* Resumo:

Prioridade: Major

Data para Ficar Pronto:

Componente(s): Desconhecido

Versão(ões) Afetada(s): Desconhecido

Versão(ões) Corrigida(s): Desconhecido

Delegar a: - Automático - Delegar para mim

* Criador: milton.lapido

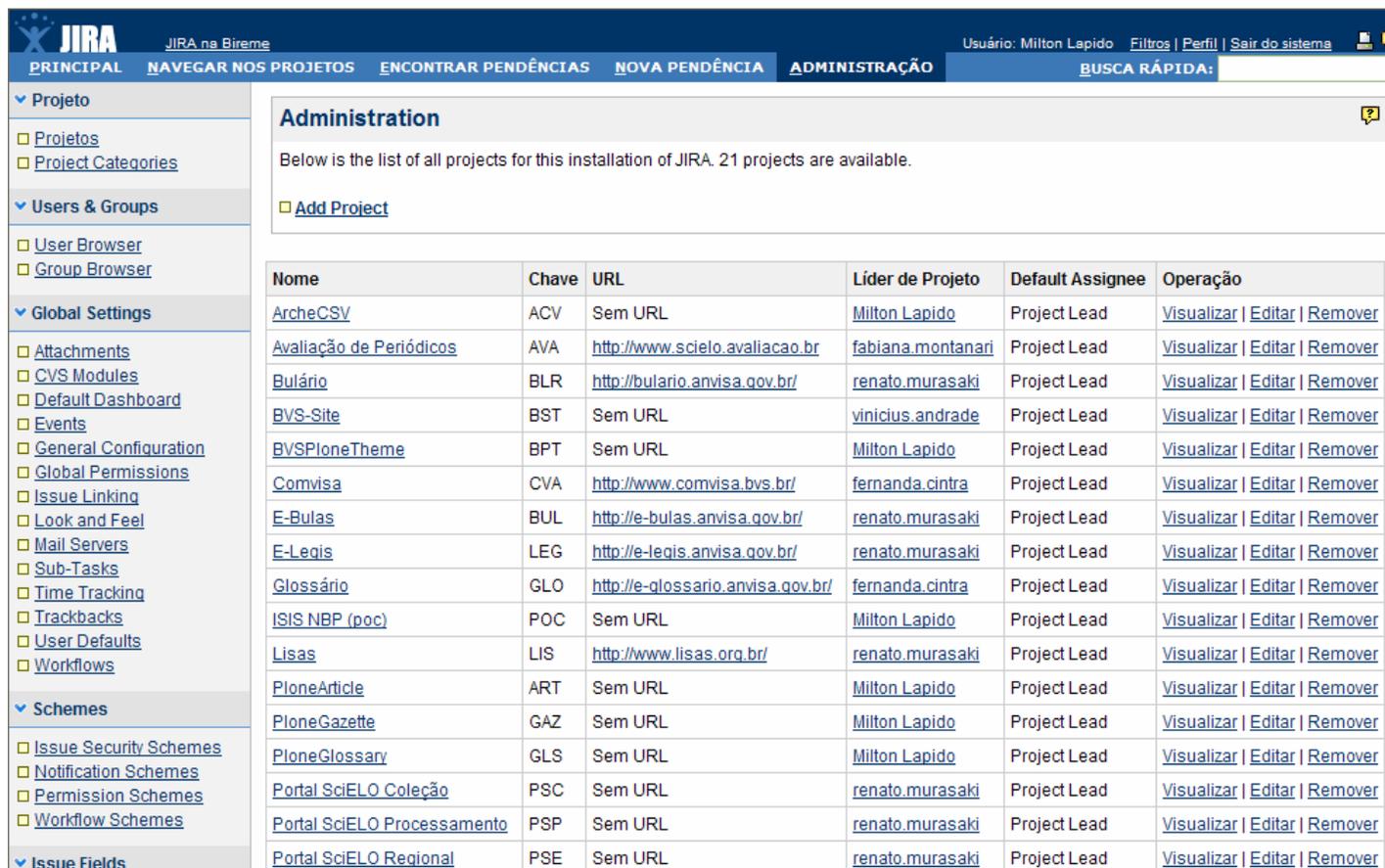
Ambiente:

For example operating system, software platform and/or hardware specifications (include as appropriate for the issue).

Descrição:

Elementos de la Metodología

- Herramientas - Jira



The screenshot shows the JIRA Administration interface. The top navigation bar includes 'PRINCIPAL', 'NAVEGAR NOS PROJETOS', 'ENCONTRAR PENDÊNCIAS', 'NOVA PENDÊNCIA', 'ADMINISTRAÇÃO', and 'BUSCA RÁPIDA:'. The user is identified as 'Usuário: Milton Lapido'. The left sidebar contains a tree view with categories like 'Projeto', 'Users & Groups', 'Global Settings', and 'Schemes'. The main content area is titled 'Administration' and contains a table of projects.

Administration

Below is the list of all projects for this installation of JIRA. 21 projects are available.

[Add Project](#)

Nome	Chave	URL	Líder de Projeto	Default Assignee	Operação
ArcheCSV	ACV	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
Avaliação de Periódicos	AVA	http://www.scielo.avaliacao.br	fabiana.montanari	Project Lead	Visualizar Editar Remover
Bulário	BLR	http://bulario.anvisa.gov.br/	renato.murasaki	Project Lead	Visualizar Editar Remover
BVS-Site	BST	Sem URL	vinicius.andrade	Project Lead	Visualizar Editar Remover
BVSPioneTheme	BPT	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
Comvisa	CVA	http://www.comvisa.bvs.br/	fernanda.cintra	Project Lead	Visualizar Editar Remover
E-Bulas	BUL	http://e-bulas.anvisa.gov.br/	renato.murasaki	Project Lead	Visualizar Editar Remover
E-Legis	LEG	http://e-legis.anvisa.gov.br/	renato.murasaki	Project Lead	Visualizar Editar Remover
Glossário	GLO	http://e-glossario.anvisa.gov.br/	fernanda.cintra	Project Lead	Visualizar Editar Remover
ISIS NBP (poc)	POC	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
Lisas	LIS	http://www.lisas.org.br/	renato.murasaki	Project Lead	Visualizar Editar Remover
PloneArticle	ART	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
PloneGazette	GAZ	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
PloneGlossary	GLS	Sem URL	Milton Lapido	Project Lead	Visualizar Editar Remover
Portal SciELO Coleção	PSC	Sem URL	renato.murasaki	Project Lead	Visualizar Editar Remover
Portal SciELO Processamento	PSP	Sem URL	renato.murasaki	Project Lead	Visualizar Editar Remover
Portal SciELO Regional	PSE	Sem URL	renato.murasaki	Project Lead	Visualizar Editar Remover



Gracias a todos

Milton Lapido

Coordinador de Desarrollo

lapidomi@bireme.ops-oms.org

milton.lapido@bireme.org