



Identity Management at BioGrid Australia

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Pulse2012

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- What is BioGrid and how does it work?
- How we provisioned users in the past
- Why Tivoli Identity Manager?
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What is BioGrid Australia?

- Grown from pilot project in 2004 to non-profit incorporated company currently employing 15 people.
- Provides a technical platform and data analysis services to facilitate collaborative translational health research.
- Values:
 - Patient confidentiality
 - Protection of data contributors and researchers' intellectual property
 - Advancement of health research through collaboration
- For more information go to: www.biogrid.org.au

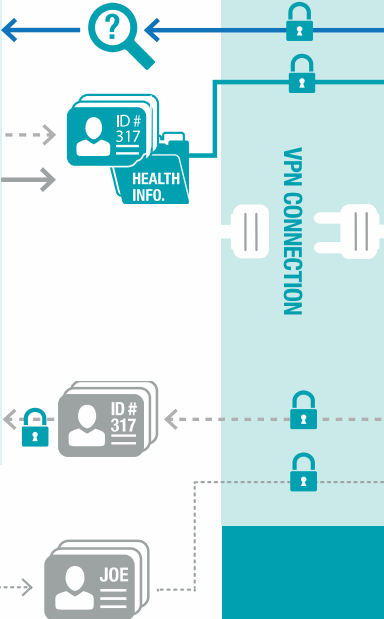


COLLABORATING INSTITUTION EXAMPLE

INSTITUTION SOURCE DATABASES



LOCAL RESEARCH REPOSITORY (LRR)



BIOGRID AUSTRALIA

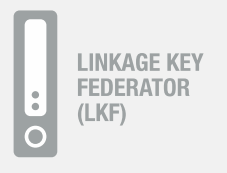
BIOGRID RESEARCH FEDERATOR (FDI)



SAS



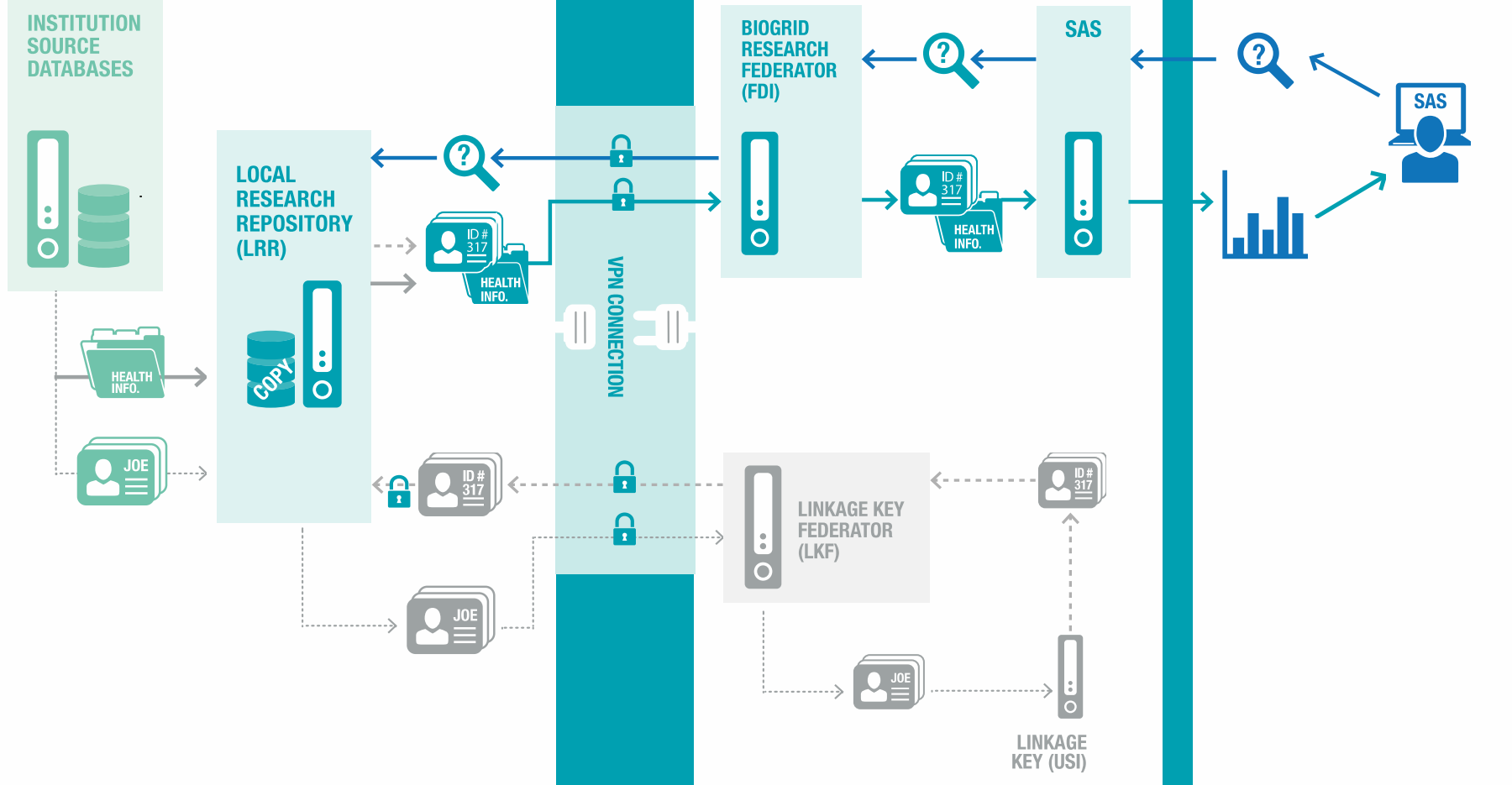
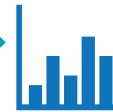
LINKAGE KEY FEDERATOR (LKF)



LINKAGE KEY (USI)



RESEARCHER



BioGrid User Account Creation

Naomi Rafael
8 February 2011

Number	Create user steps	Comment
1.	For Training use training users	Clean out directories
2.	Check for user credentials in BioGrid Access application	Create if missing
3.	Add credentials for new users	Use Password Corral to generate 12 character complex passwords
4.	Open Windows explorer and navigate to C:\BioGrid\UserCreate on the local computer	
5.	Create copy of GenericUserProforma.xls	Give current date in file name
6.	Run Approved Access Report for each approved application in the Access Request system	
7.	Paste (special) results in Raw Information tab of new User Proforma	
8.	Populate OS tab with required information. Save as text (Tab delimited) calling it users.txt	Username, full name, description, password
9.	Make list of users in Notepad with semicolon between them	For use in-group assignments
10.	Log into mhmimmts as administrator (db2admin)	
11.	Run LocalUsersCreateMHMMIMTS.vbs by double clicking in Windows Explorer mapped to local drive.	Watch carefully for any errors. Check in Local Computer Management to see if all users were created. Most likely problem will be with password complexity. Fix where necessary.
12.	Add all new users to Remote Desktop Users group	Add to research group(s) for shared folder access
13.	Return to local computer	
14.	Edit remaining tabs in Excel file as needed.	Save UserPassword tab as Text (Tab delimited) in H:\SAS92Work. Save newsasuserlist tab as CSV (Comma delimited) in H:\SAS92Work. Close files after saving.
15.	Start computer manage on local pc	Use for reference to ascertain successful creation of users and

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BioGrid User Account Creation

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Number	Create user steps	Comment
16.	Run LocalUsersCreateBGSAS2P01.vbs by double clicking in Windows Explorer	group management after user creation
17.	Connect to BGSAS2P01 in Computer Manage. Add new users to DB2USERS and SAS Server Users OS groups.	
18.	Run LocalUsersCreateMhmimimfdi.vbs by double clicking in Windows Explorer	
19.	Connect to Mhmimimfdi in Computer Manage. Add new users to authorised database groups as per BioGrid Access Application.	Refer to Access Request System authorisation email. No groups required for Sample users.
20.	On BGSAS2P01 Windows Explorer navigate to \MH (Z10535)\SAS92Work. Open UserGroupsImport.egg	SAS Enterprise Guide 4.3 will open up the project. Close Excel files before running.
21.	Invoke SAS Management Console 9.2	On Mhmimimfdi = put in groups and roles on BGSAS2P01.
22.	Create directories for users on bgsas2p01	
23.	D:\SAS\SASData	
24.	Name folder by username	
24.	Security settings	Add username, grant modify permission (Advanced) Un-tick Copy; Remove Users permission
25.	Connect to mhmimimfdi	Invoke DB2 Command Editor from desktop icon
26.	Connect as db2admin	
27.	Copy and paste connect commands from FDI_Connect tab of UserProforma. Run commands.	
28.	Copy and paste User Mapping Create commands from FDI_User tab of User Proforma. Run commands.	This will map user to each LRR for which it has permission.
29.	Add to TAM PROD (LDAP) and put in groups	Copy script from LDAP tab in User Proforma.
30.	Update Access Request Application	According to instructions in letter (or add if user is introduced from a SAS Training enrolment).
31.	When all above are successful, user has been	

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Why Tivoli Identity Manager?

- After a full blown needs analysis
- Identified 31 requirements
- We needed something!
- TIM emerged as best fit for purpose solution



Challenges: The Usual

- User productivity
- Excessive administration cost
- Risk of inconsistent user data
- [Lack of] user self-service
- [Lack of] de-provisioning process
- Security vulnerabilities
- [Lack of] audit and reporting
- Possible [lack of] regulatory compliance



Challenges: BioGrid Specific

- Custom built user feed
- Complex group membership assignments
- Synchronisation with SAS Enterprise BI Server Metadata
- Different classes of users, eg
 - Biogrid employees
 - Researchers
 - Advisory and management committee members



Insights

- Could not implement without specialists – *Decipher Works* is our service provider for this project – Thank you, Nick!
- Also required a SAS specialist to provide a tool for user and group synchronisation – *Real Numbers* provided the solution for us
- Discovery of product capabilities along the way has to be controlled!
- Essential for success:
 - Identifying TIM specific project requirements
 - Clear scope definition
 - Dependencies for production roll-out
- There is always more that TIM can do!



Next Steps

- Complete the testing in Development
- Prepare and deploy in Production
- Scheduled upgrades of 2 of the 3 end-point servers – really excited to see the power of TIM when ready for user migration!
- Identify future projects to harness the rules and workflow capability of TIM



Benefits

- 28 out of 30 manual steps incorporated in TIM
- User de-provisioning in place
- Server migration manageable
- BioGrid is positioned for scalability in its anticipated growth period



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