pSCANNER

Phase II – Data & Technical Objectives

Achieve interoperability between research and care by 2019

Supported by the Patient-Centered Outcomes Research Institute (PCORI) Contract CDRN-1306-04819

Data Harmonization Team

Daniella Meeker, USC
Lisa Schilling, U of Co
Tara Knight, USC
Calvin Chang, UCD
Zhen Wu, UCD
Martha Michel, UCSF
Ray Pablo, UCI
Amy Perkins, VA
Claudiu Farcas, UCSD
Fern Fitzhenry, VA
Don Torok, Ephir
Mark Khayter, Ephir
Brian Tep, Cedars

Michael Matheny, VA
Rob Follett, UCLA
Michael Hogarth, UCD
Vijay Rayanker, UCSF
Lisa Dahm, UCI
Dax Westerman, VA
Dave Anderson, San Mateo
Ayan Patel, UCI
Paulina Paul, UCSD
Spencer Soohoo, Cedars
Jessica Bondy, U of Co
Javier Sanz, UCLA
Srivatsa Hura, San Mateo

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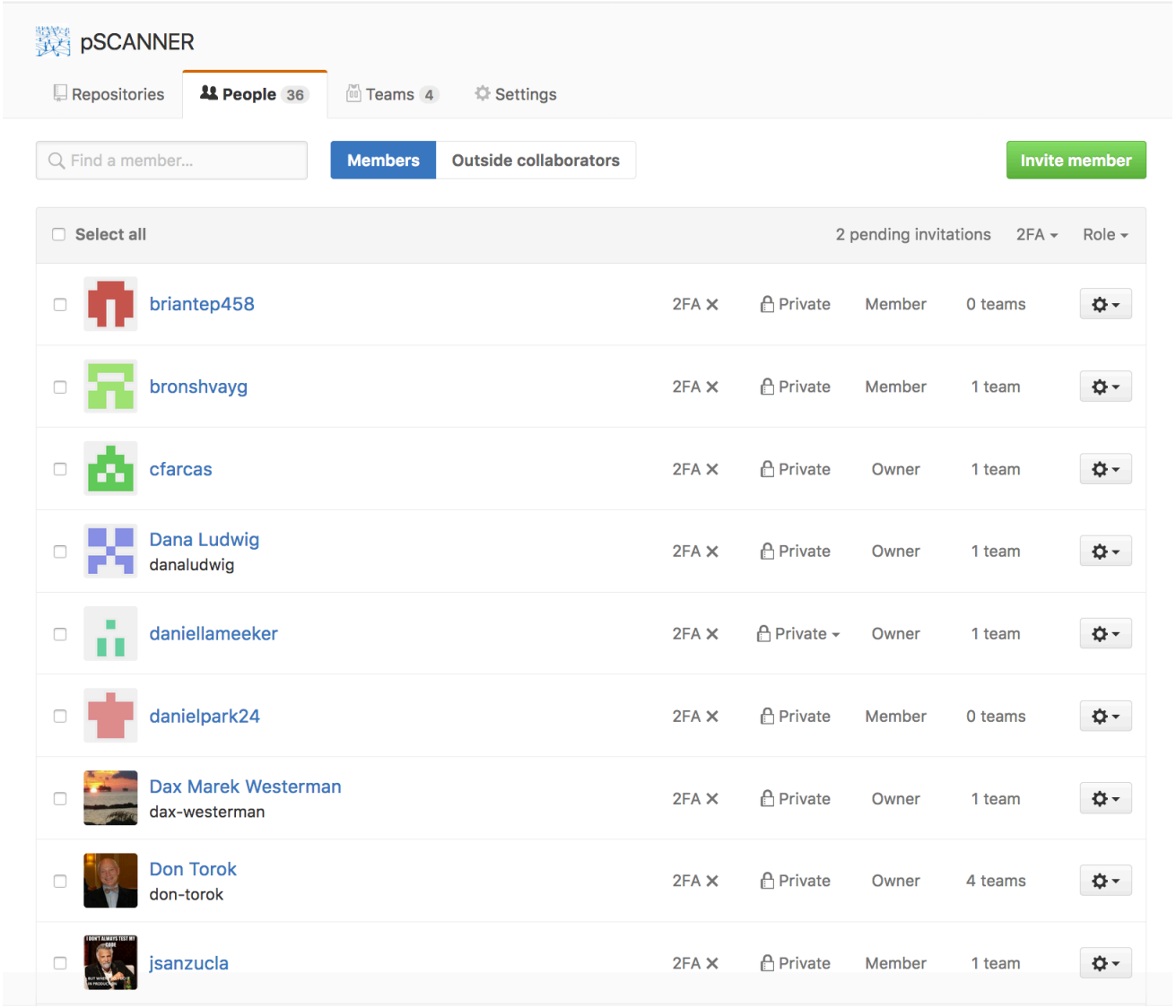
Network – 14 Source Systems

pSCANNER

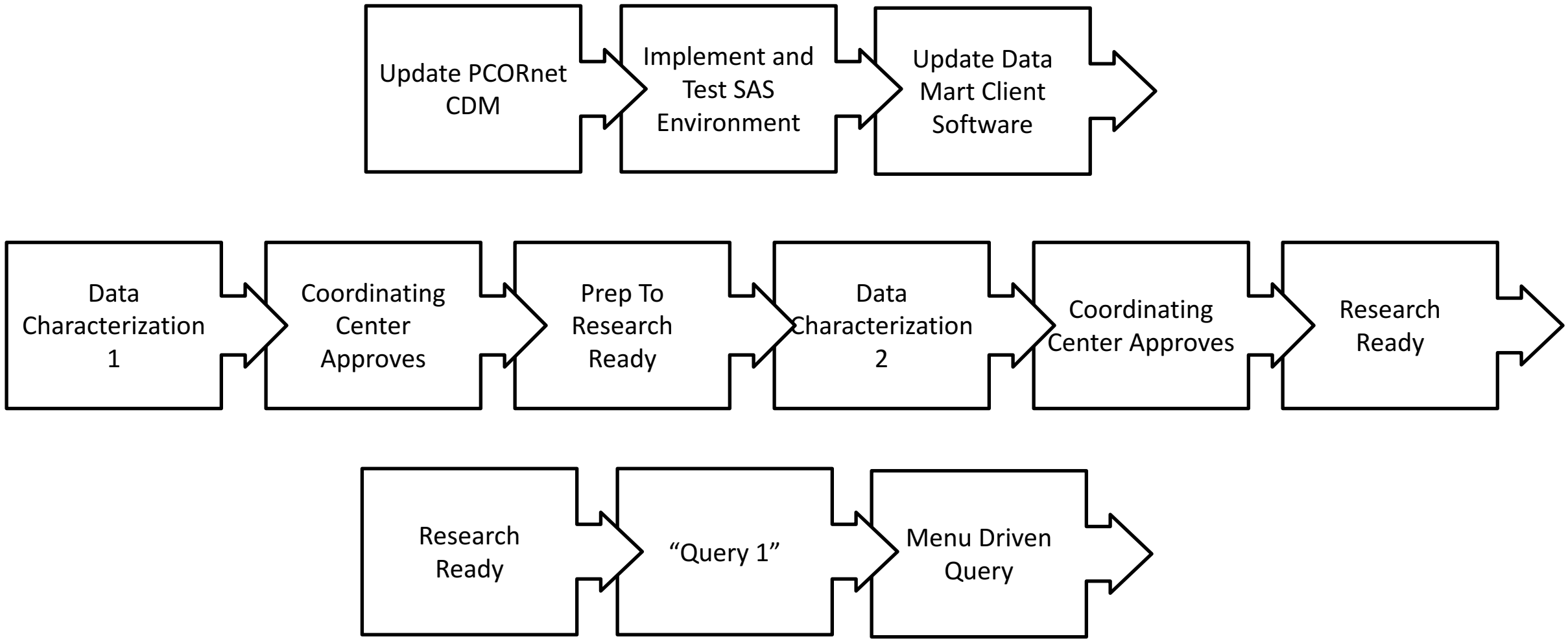
1. VA Data Mart (*All VA Facilities*)
2. USC Data Mart (5 sources)
3. UCI
4. UCSF
5. UCSD
6. UCD
7. UCLA
8. San Mateo
9. Cedars Sinai

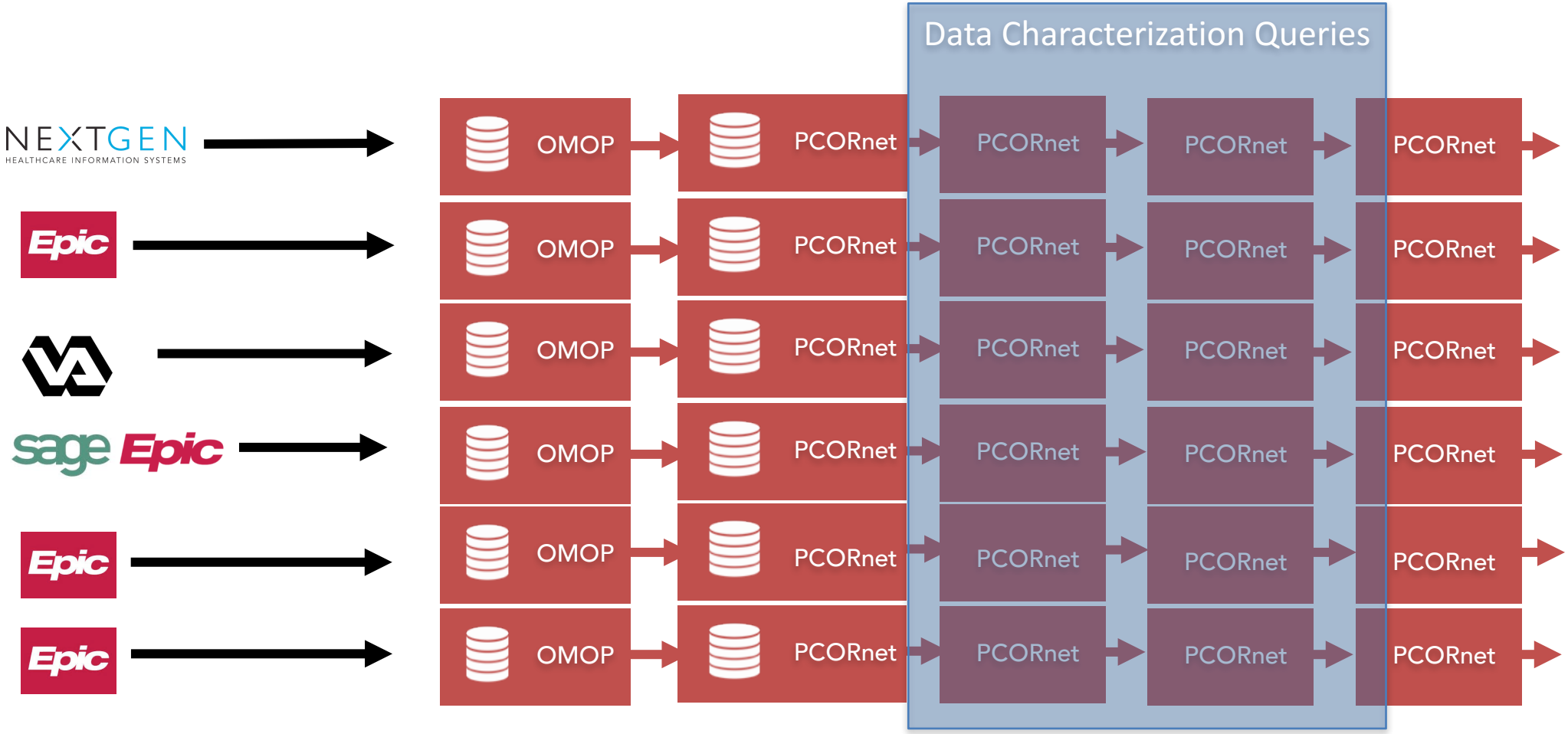
pSCANNER GitHub

- 36 Users
- 10+ Repositories
  - Shared ETL Programs
  - Research Queries for Distribution
  - pSCANNER Methods for integration with PopMedNet
    - Distributed Analytics - Generalized Linear Models
    - Record Linkage Methods
    - Quality Measures



PCORnet Deliverables Since Last Year



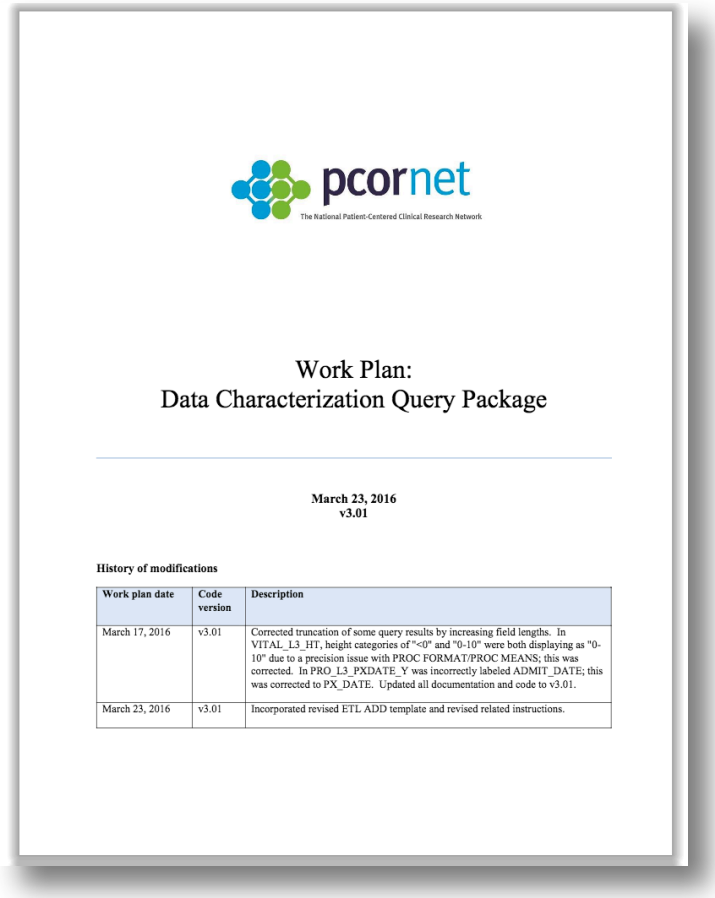

Data Characterization Queries
NEXTGEN
HEALTHCARE INFORMATION SYSTEMS
Epic
sage Epic
Epic
Epic
OMOP
PCORnet

Data Characterization

pSCANNER

30 Pages of Instructions → 30 Page Report → Meeting with CC

- All Sites
- Multiple Iterations
- Thanks to Colorado Team for help reviewing



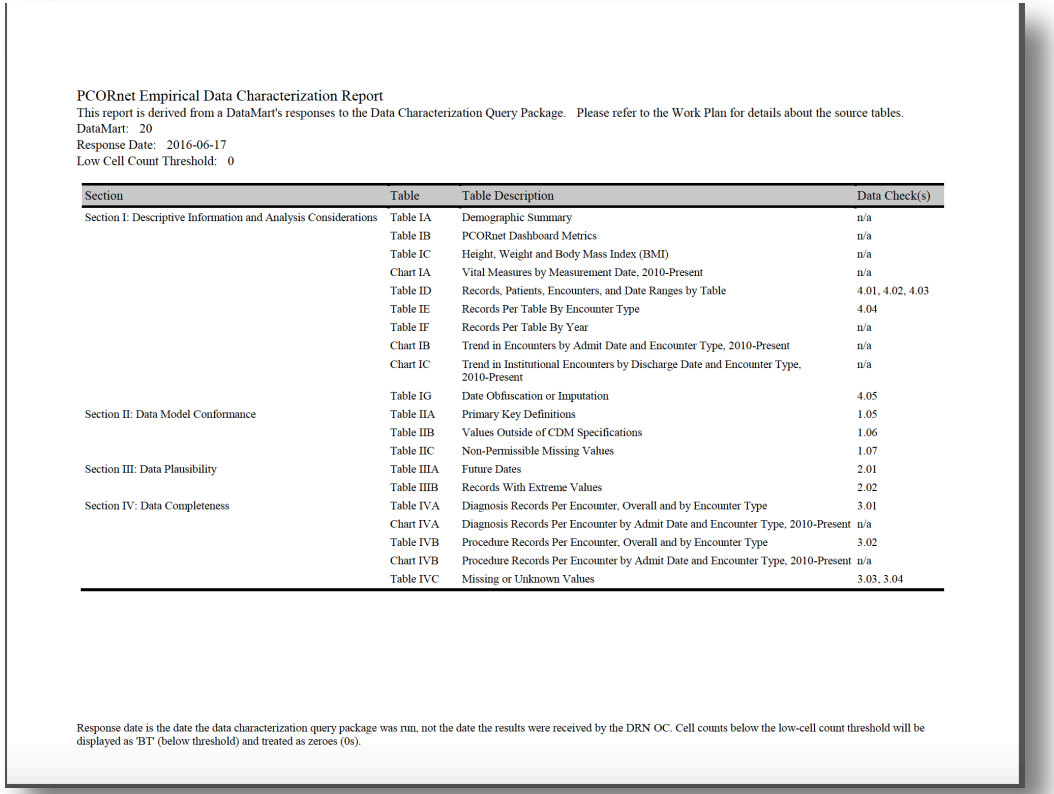
pcornet
The National Patient-Centered Clinical Research Network

Work Plan:
Data Characterization Query Package

March 23, 2016
v3.01

History of modifications

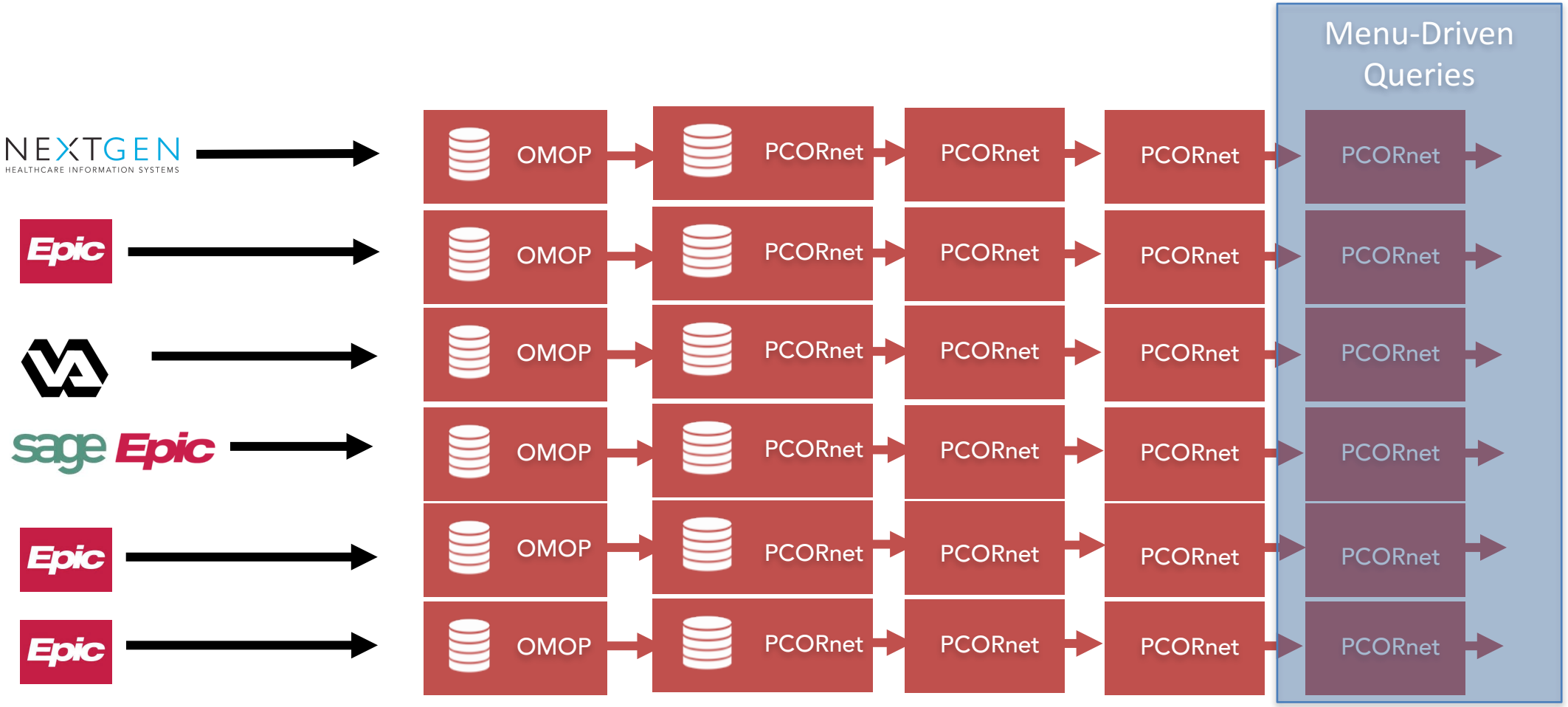
Work plan date	Code version	Description
March 17, 2016	v3.01	Corrected truncation of some query results by increasing field lengths. In VITAL_L3_HT, height categories of "<0" and "0-10" were both displaying as "0-10" due to a precision issue with PROC FORMAT/PROC MEANS; this was corrected. In PRO_L3_PXDATE_Y was incorrectly labeled ADMIT_DATE; this was corrected to PX_DATE. Updated all documentation and code to v3.01.
March 23, 2016	v3.01	Incorporated revised ETL ADD template and revised related instructions.



PCORnet Empirical Data Characterization Report
This report is derived from a DataMart's responses to the Data Characterization Query Package. Please refer to the Work Plan for details about the source tables.
DataMart: 20
Response Date: 2016-06-17
Low Cell Count Threshold: 0

Section	Table	Table Description	Data Check(s)
Section I: Descriptive Information and Analysis Considerations	Table IA	Demographic Summary	n/a
	Table IB	PCORnet Dashboard Metrics	n/a
	Table IC	Height, Weight and Body Mass Index (BMI)	n/a
	Chart IA	Vital Measures by Measurement Date, 2010-Present	n/a
	Table ID	Records, Patients, Encounters, and Date Ranges by Table	4.01, 4.02, 4.03
	Table IE	Records Per Table By Encounter Type	4.04
	Table IF	Records Per Table By Year	n/a
	Chart IB	Trend in Encounters by Admit Date and Encounter Type, 2010-Present	n/a
	Chart IC	Trend in Institutional Encounters by Discharge Date and Encounter Type, 2010-Present	n/a
	Table IG	Date Obfuscation or Imputation	4.05
Section II: Data Model Conformance	Table IIA	Primary Key Definitions	1.05
	Table IIB	Values Outside of CDM Specifications	1.06
	Table IIC	Non-Permissible Missing Values	1.07
Section III: Data Plausibility	Table IIIA	Future Dates	2.01
	Table IIIB	Records With Extreme Values	2.02
Section IV: Data Completeness	Table IVA	Diagnosis Records Per Encounter, Overall and by Encounter Type	3.01
	Chart IVA	Diagnosis Records Per Encounter by Admit Date and Encounter Type, 2010-Present	n/a
	Table IVB	Procedure Records Per Encounter, Overall and by Encounter Type	3.02
	Chart IVB	Procedure Records Per Encounter by Admit Date and Encounter Type, 2010-Present	n/a
	Table IVC	Missing or Unknown Values	3.03, 3.04

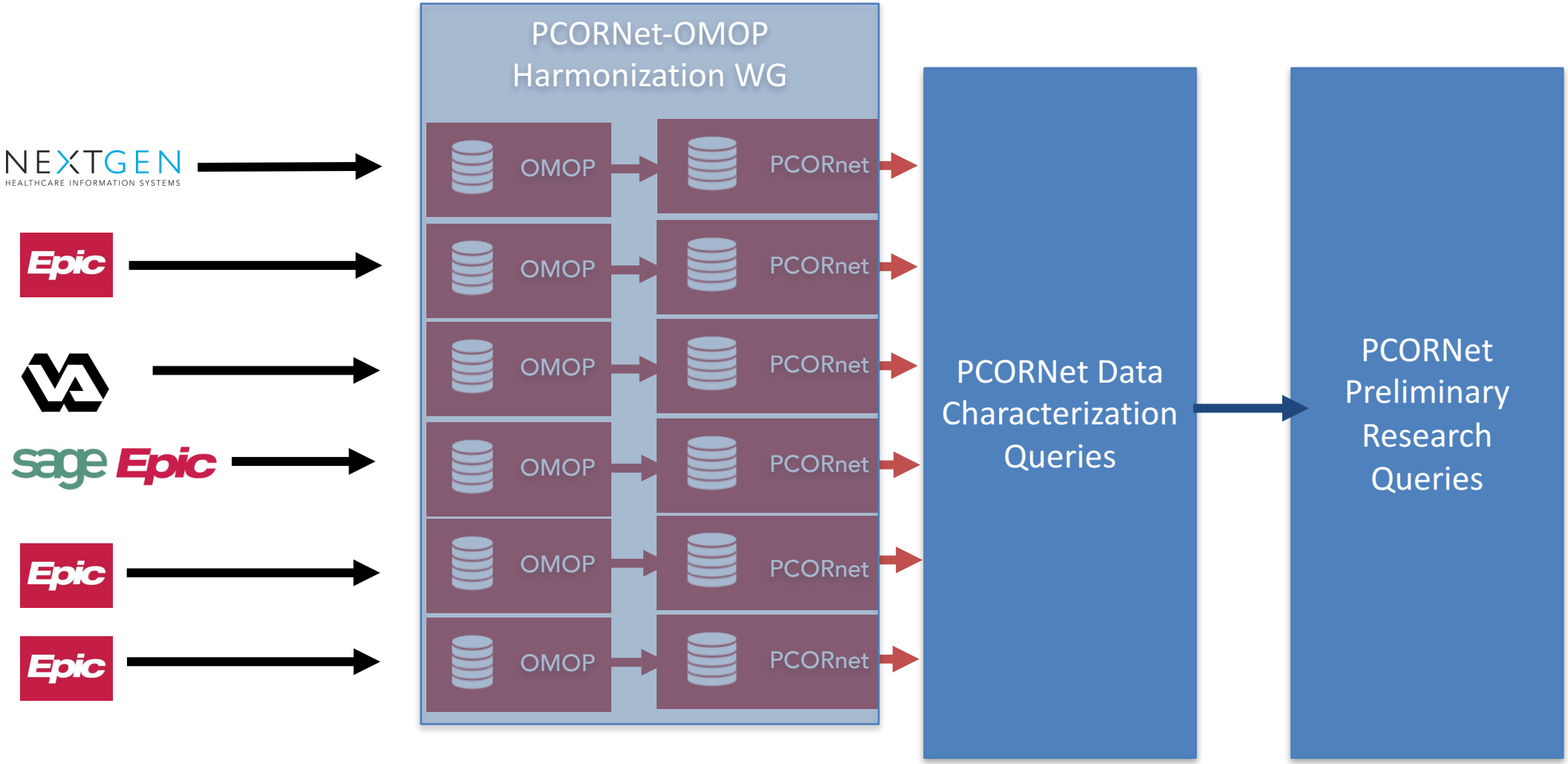
Response date is the date the data characterization query package was run, not the date the results were received by the DRN OC. Cell counts below the low-cell count threshold will be displayed as 'BT' (below threshold) and treated as zeroes (0s).


NEXTGEN
HEALTHCARE INFORMATION SYSTEMS
Epic
sage Epic
Epic
Epic
OMOP
PCORnet
Menu-Driven Queries

Menu Driven Queries from PCORnet

pSCANNER

- Intended to give an “i2b2” like experience to query authors
- Participants
  - UCI
  - Cedars Sinai
  - UCLA
  - USC
- Debugging –configurations


PCORNet-OMOP
Harmonization WG
NEXTGEN
HEALTHCARE INFORMATION SYSTEMS
Epic
sage Epic
Epic
Epic
OMOP
OMOP
OMOP
OMOP
OMOP
OMOP
PCORnet
PCORnet
PCORnet
PCORnet
PCORnet
PCORnet
PCORNet Data
Characterization
Queries
PCORNet
Preliminary
Research
Queries

OMOP Harmonization

PCORNet-OMOP Harmonization WG

- Objective: Maintain interoperability between OMOP and PCORnet CDMs
  - Maintain OMOP-to-PCORnet Data Transformations
  - Manage new vocabulary and track conventions
- Participants
  - PedsNet & NYC CDRN
  - Don Torok
  - Rob Follett
  - Lisa Schilling

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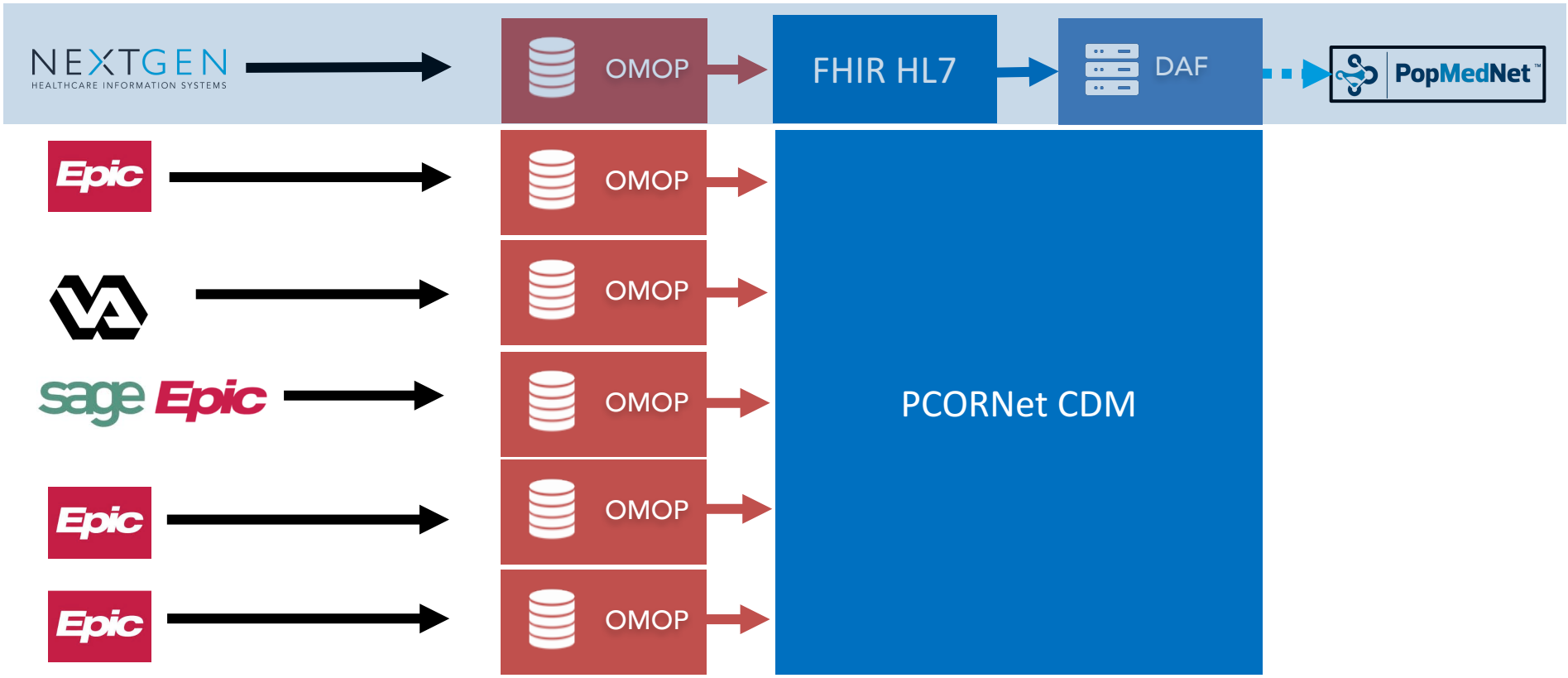
Projects on our To-Do List

pSCANNER

- Create network-wide identifier
  - Record Linkage Algorithms need to be integrated into the pSCANNER Query Distribution Framework
- Update remaining sites to OMOP V5
  - UCSF Leading
- Claims Data Integration
  - USC Leading CMS (Jason Doctor)
- pSCANNER Queries for Quality Measures and OHDSI Studies

pSCANNER Data Harmonization for HL7 APIs ONC Pilot with REACHnet



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pSCANNER

Technical Update

Dax Westerman, Lead Developer

Bill Clarke, PopMedNet Developer

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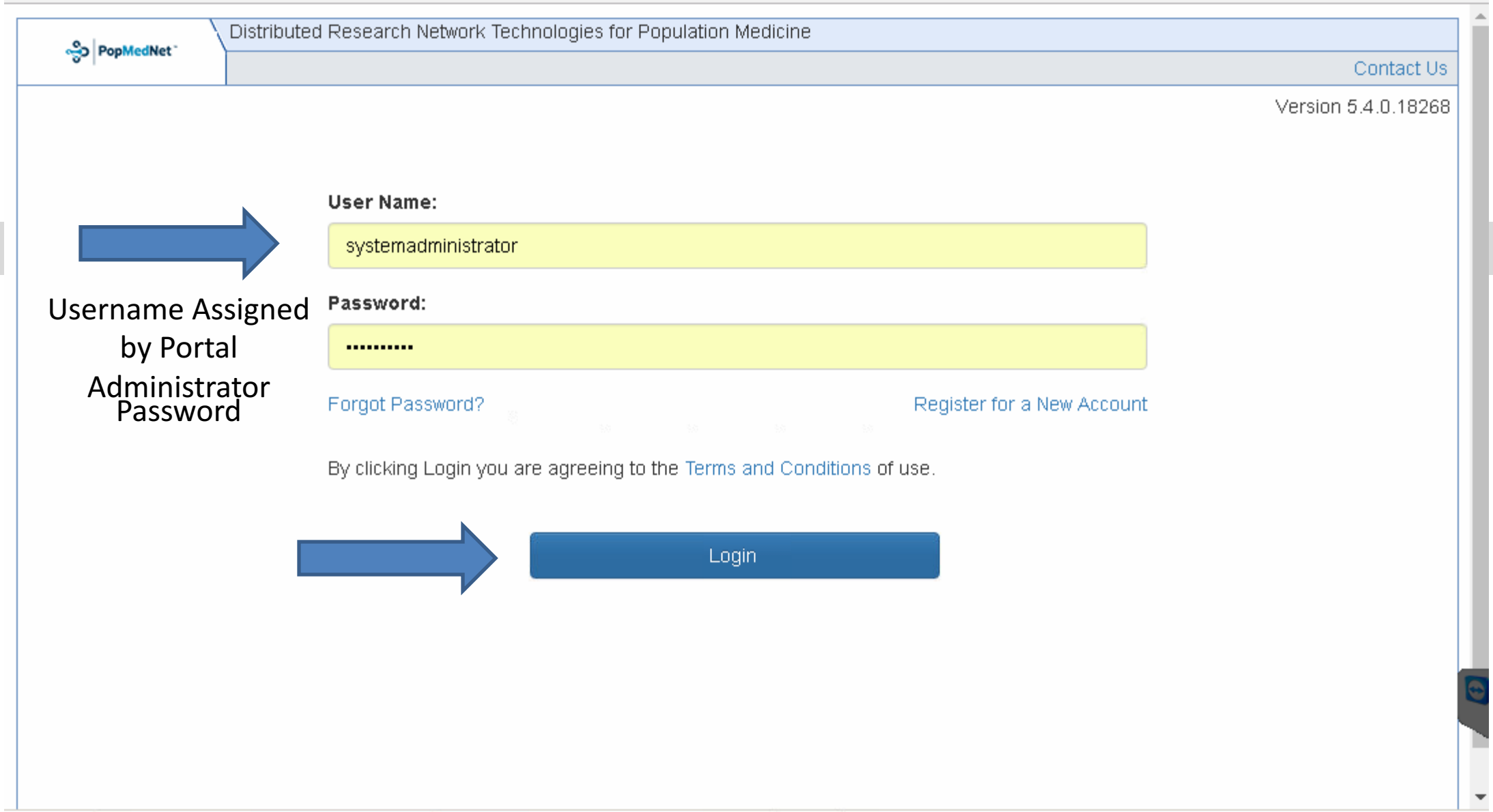
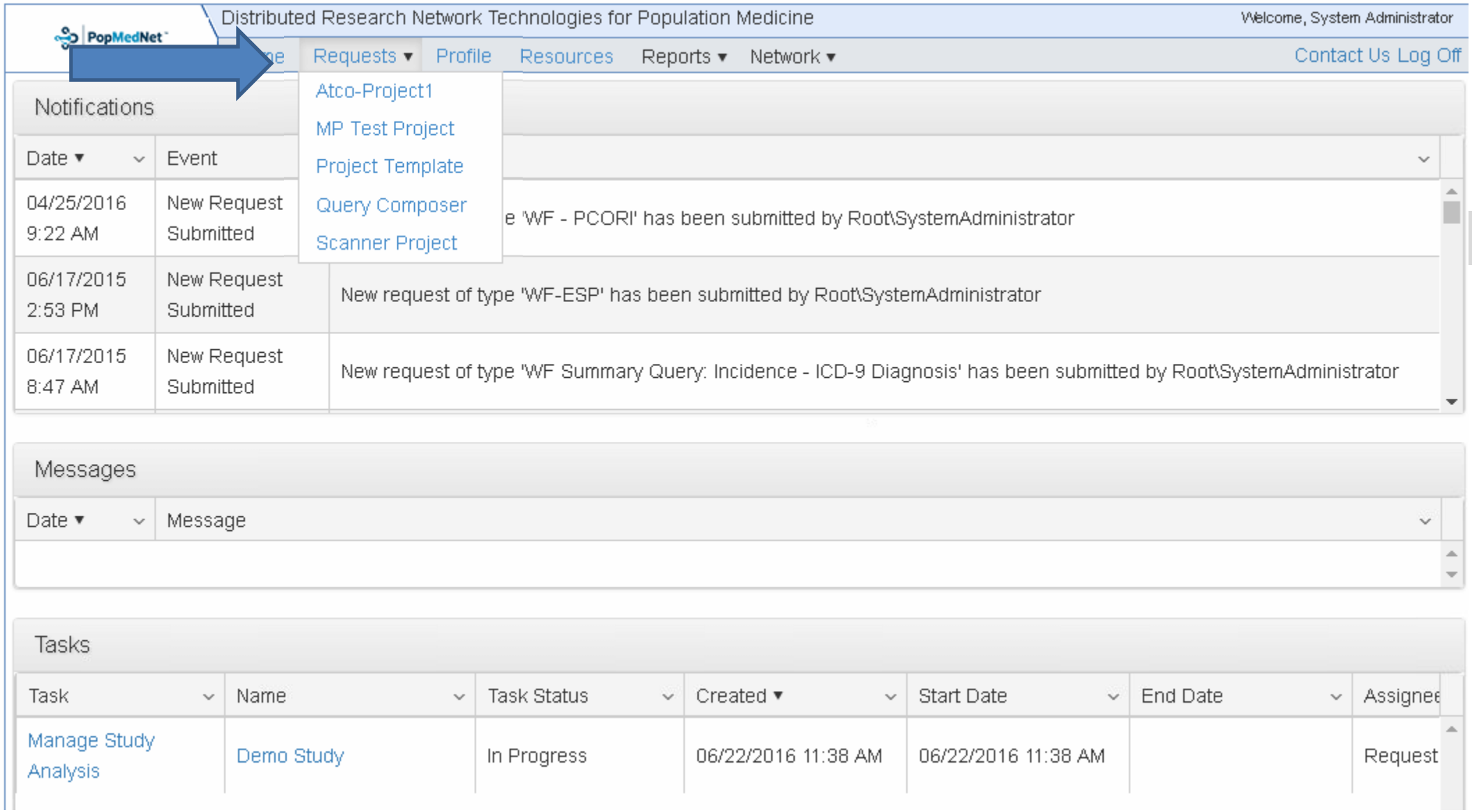
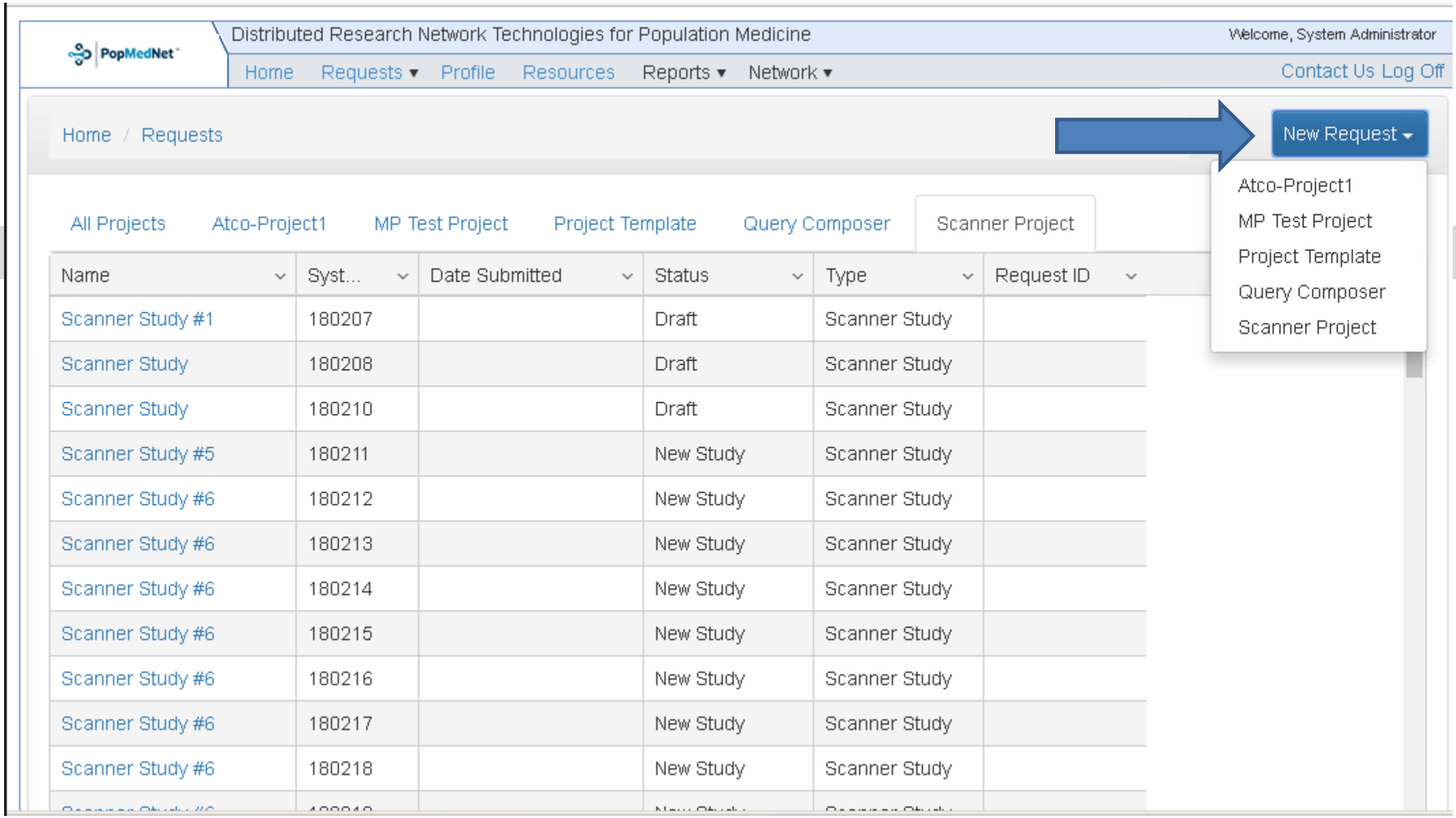
Overview of the PopMedNet pSCANNER Adapter

- Create “on demand” networks with any sites that have PopMedNet Data Mart Clients
  - No “Coordinating Center” – a network can be proposed by anyone
  - Opt-In by Data Mart Administrator
  - Analysis Queries
  - “SHRINE” like queries (on hold - seeing how MDQ works)
- REST-ful Framework for Analysis Queries
- Distribute Analysis Programs from GitHub or other repositories

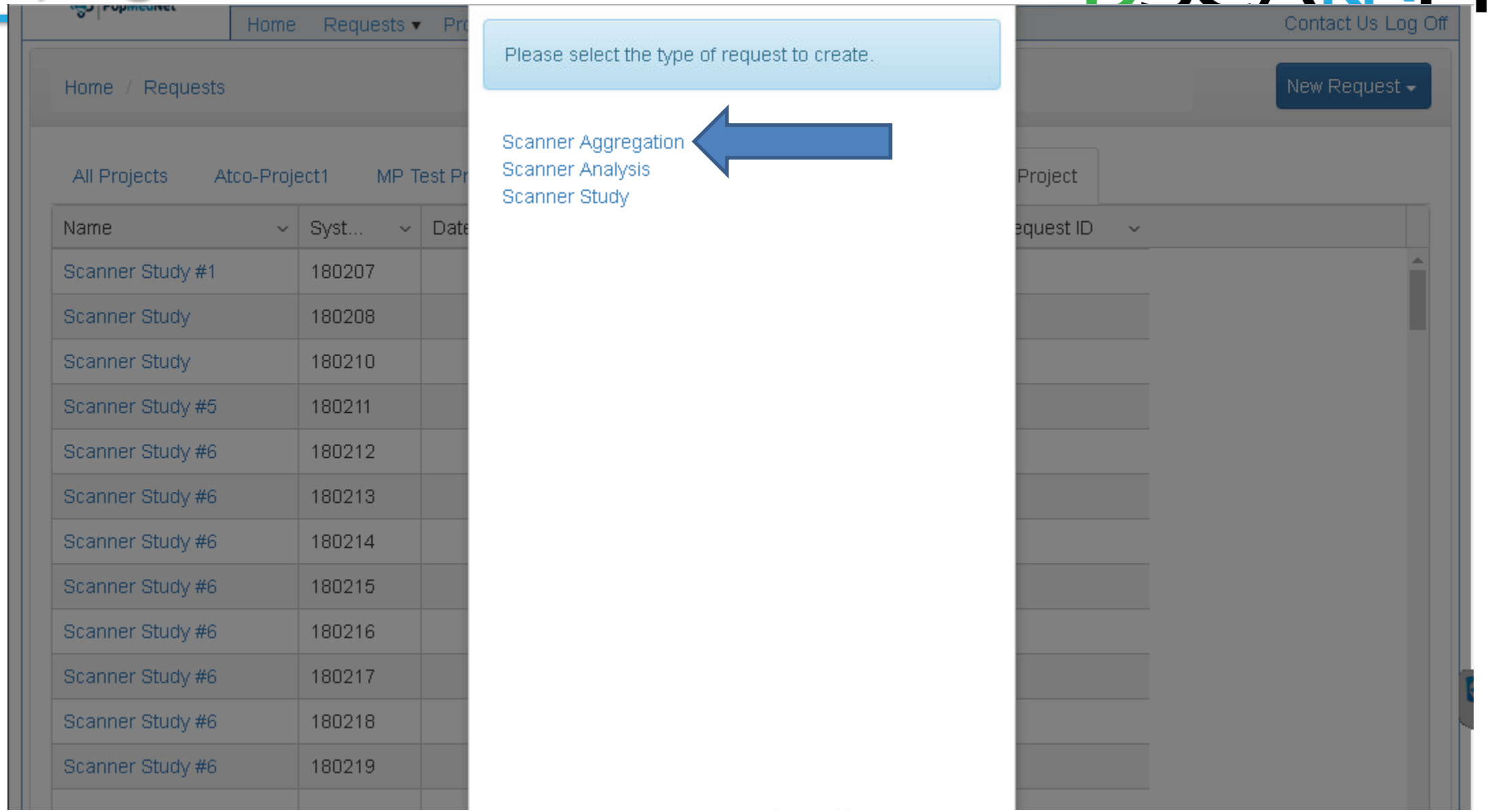

PopMedNet
Distributed Research Network Technologies for Population Medicine
Contact Us
Version 5.4.0.18268
User Name:
systemadministrator
Password:
Forgot Password?
Register for a New Account
By clicking Login you are agreeing to the Terms and Conditions of use.
Login
Username Assigned by Portal Administrator
Password

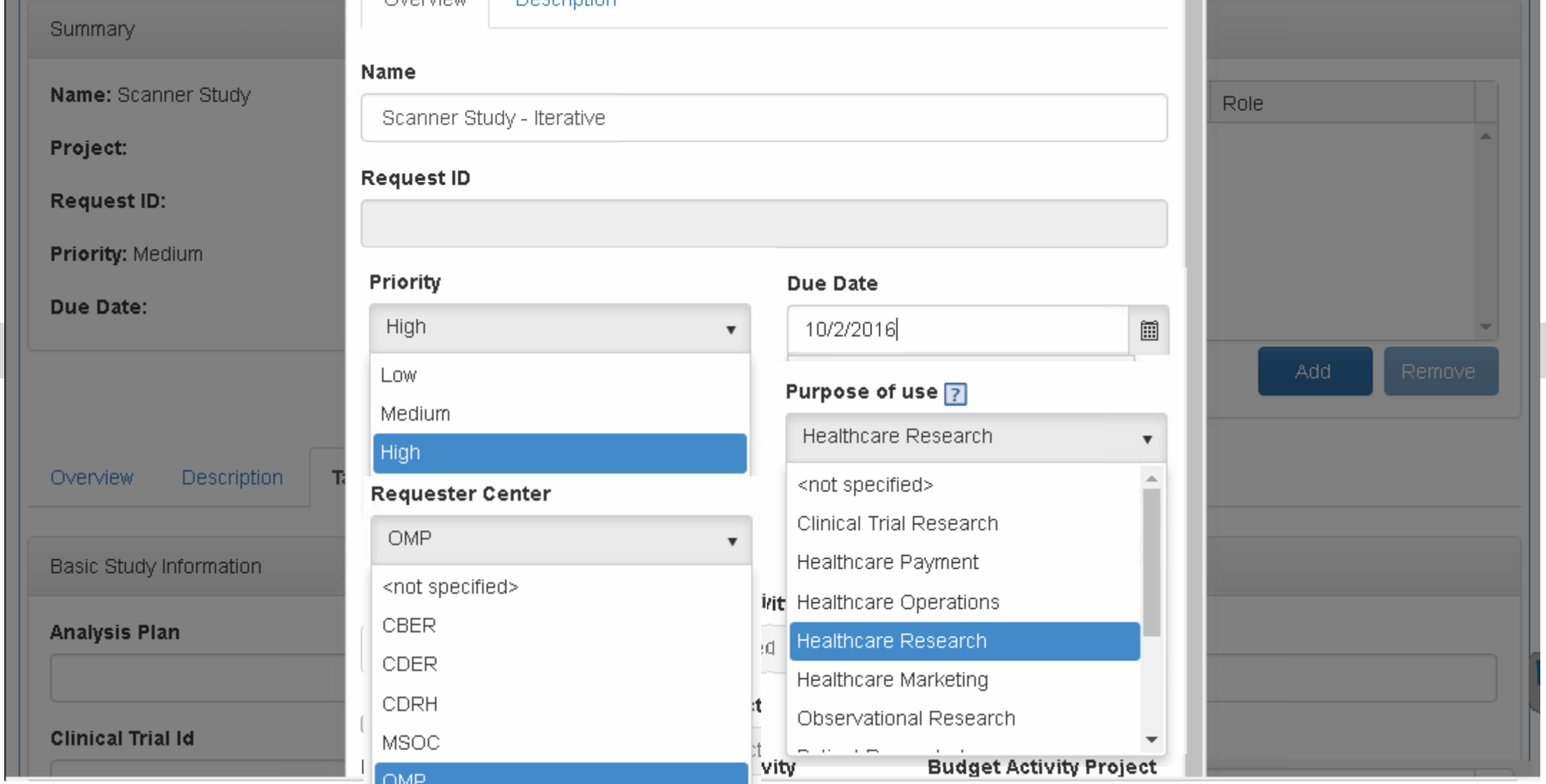
Setting Up an "On-Demand" Research Network


PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Requests
Profile
Resources
Reports
Network
Contact Us
Log Off
Atco-Project1
MP Test Project
Project Template
Query Composer
Scanner Project
Notifications
Date
Event
04/25/2016 9:22 AM
New Request Submitted
e 'WF - PCORI' has been submitted by Root\SystemAdministrator
06/17/2015 2:53 PM
New Request Submitted
New request of type 'WF-ESP' has been submitted by Root\SystemAdministrator
06/17/2015 8:47 AM
New Request Submitted
New request of type 'WF Summary Query: Incidence - ICD-9 Diagnosis' has been submitted by Root\SystemAdministrator
Messages
Date
Message
Tasks
Task
Name
Task Status
Created
Start Date
End Date
Assignee
Manage Study Analysis
Demo Study
In Progress
06/22/2016 11:38 AM
06/22/2016 11:38 AM
Request


PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Home
Requests
Profile
Resources
Reports
Network
Contact Us
Log Off
Home / Requests
New Request
Atco-Project1
MP Test Project
Project Template
Query Composer
Scanner Project
All Projects
Atco-Project1
MP Test Project
Project Template
Query Composer
Scanner Project
Name
Syst...
Date Submitted
Status
Type
Request ID
Scanner Study #1 180207 Draft Scanner Study
Scanner Study 180208 Draft Scanner Study
Scanner Study 180210 Draft Scanner Study
Scanner Study #5 180211 New Study Scanner Study
Scanner Study #6 180212 New Study Scanner Study
Scanner Study #6 180213 New Study Scanner Study
Scanner Study #6 180214 New Study Scanner Study
Scanner Study #6 180215 New Study Scanner Study
Scanner Study #6 180216 New Study Scanner Study
Scanner Study #6 180217 New Study Scanner Study
Scanner Study #6 180218 New Study Scanner Study

Specifying a new research network

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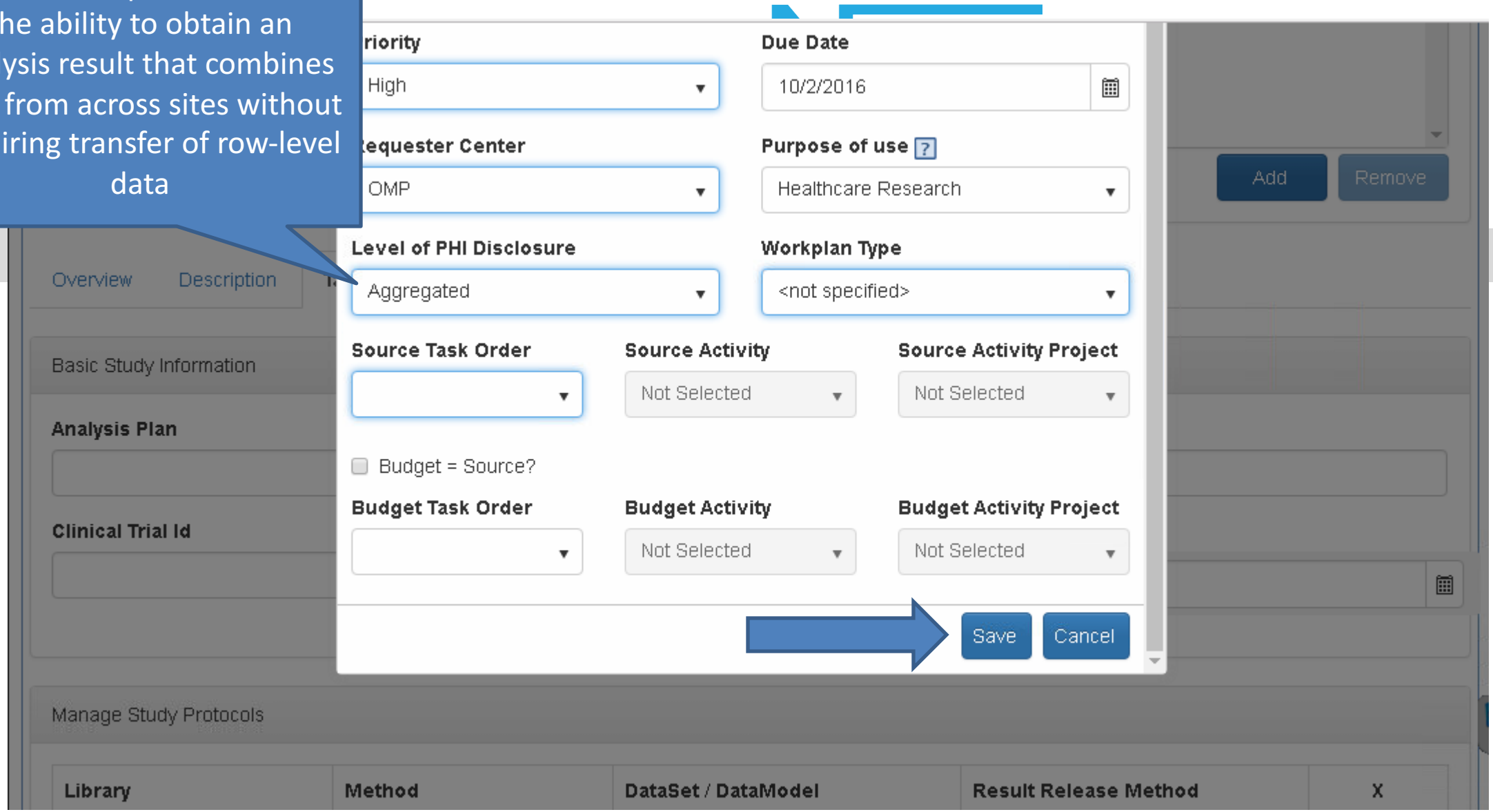
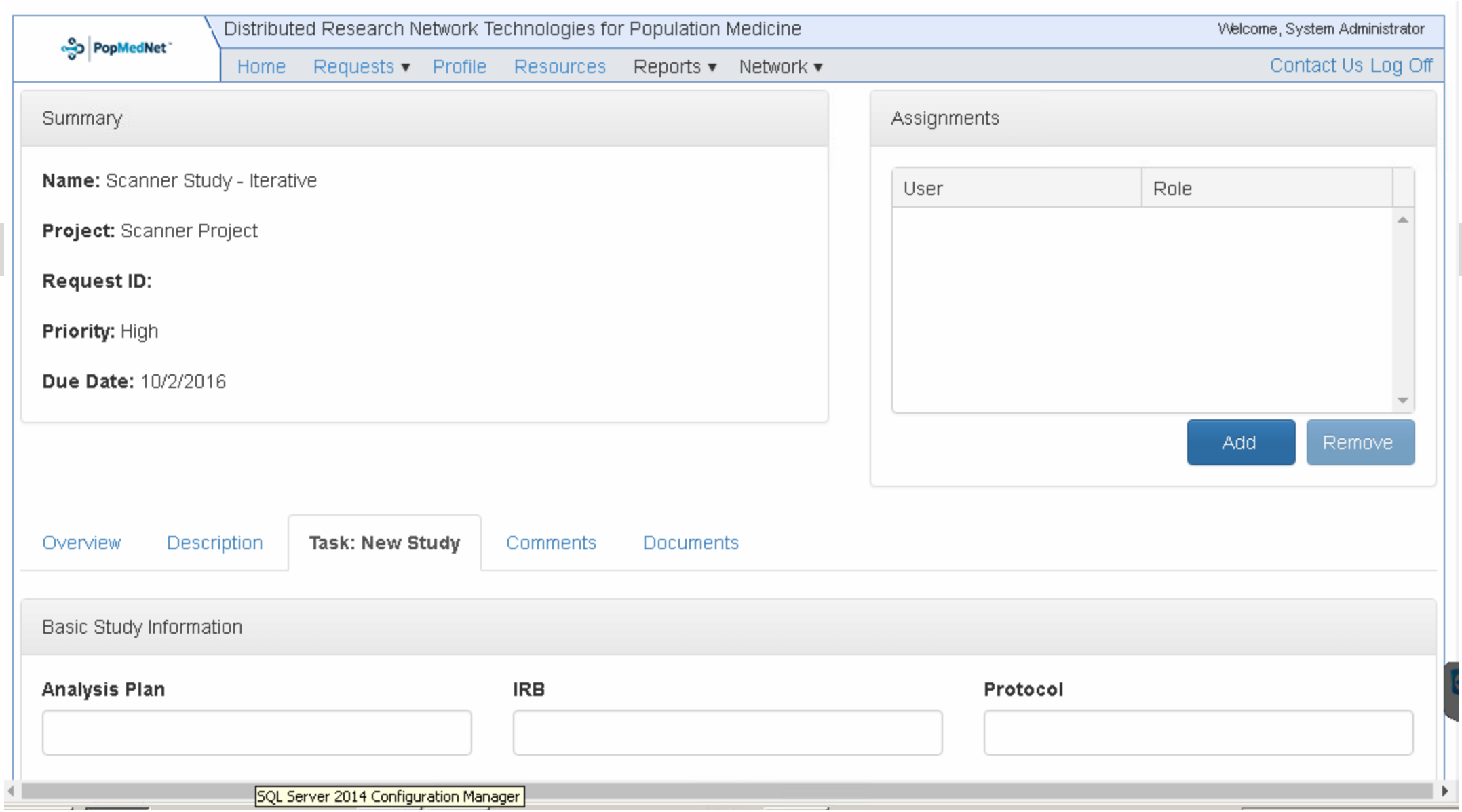
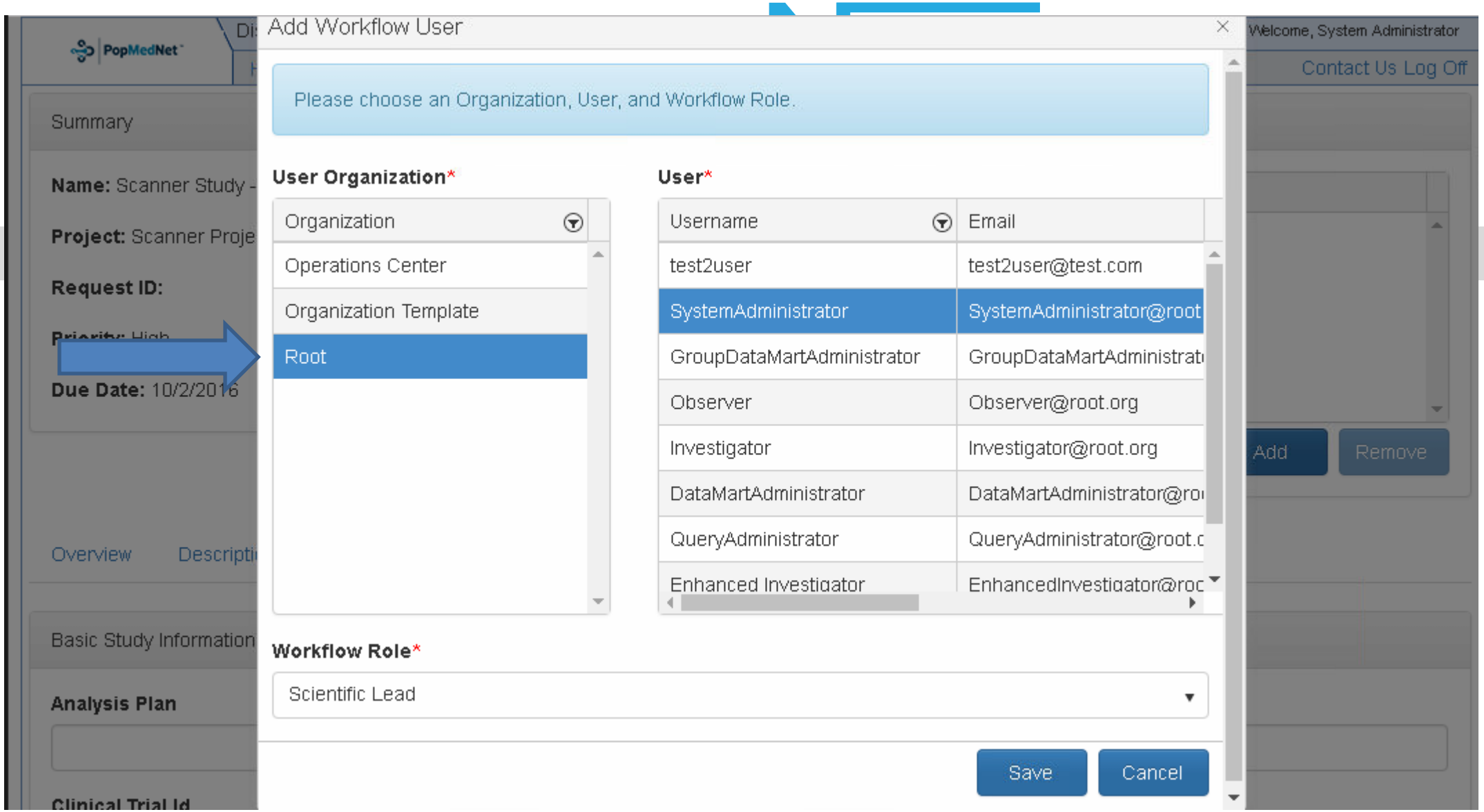
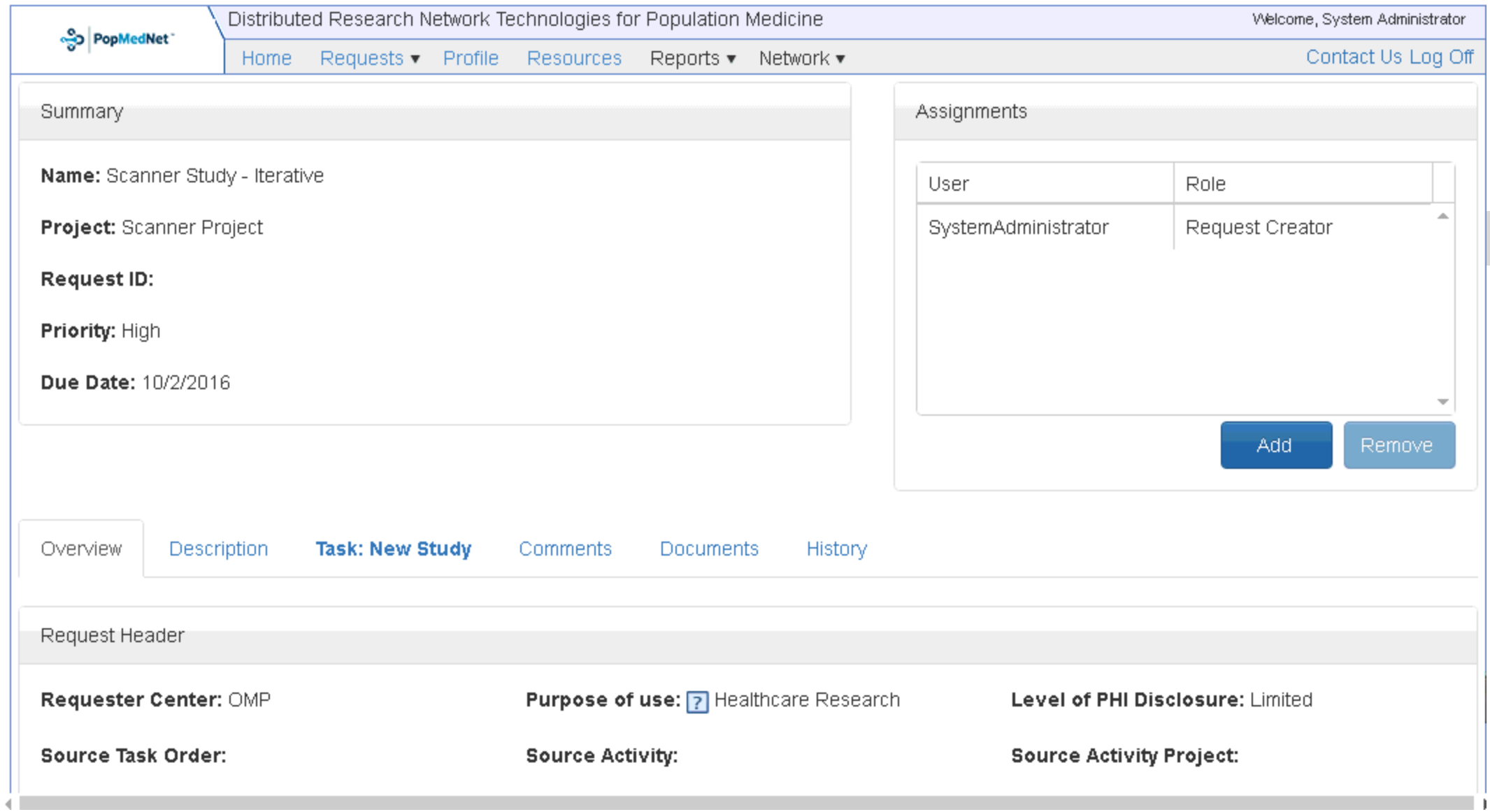
Name: Scanner Study
Project:
Request ID:
Priority: Medium
Due Date:
Overview
Description
Basic Study Information
Analysis Plan
Clinical Trial Id
Name
Scanner Study - Iterative
Request ID
Priority
High
Low
Medium
High
Due Date
10/2/2016
Purpose of use
Healthcare Research
<not specified>
Clinical Trial Research
Healthcare Payment
Healthcare Operations
Healthcare Research
Healthcare Marketing
Observational Research
Requester Center
OMP
<not specified>
CBER
CDER
CDRH
MSOC
OMP
WG
Role
Add
Remove
Budget Activity Project

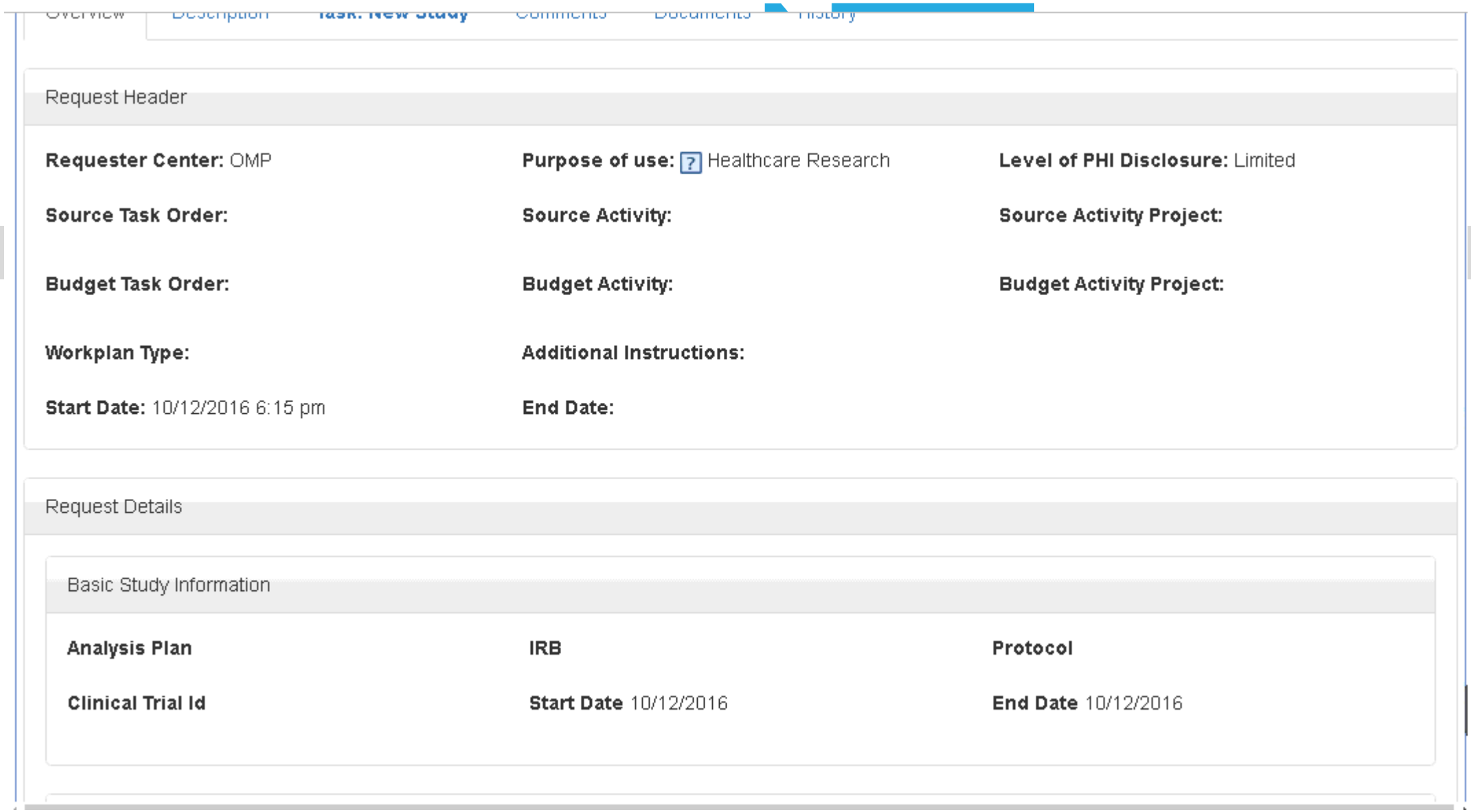
pSCANNER “special sauce” is the ability to obtain an analysis result that combines data from across sites without requiring transfer of row-level data




PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Home
Requests
Profile
Resources
Reports
Network
Contact Us
Log Off
Summary
Name: Scanner Study - Iterative
Project: Scanner Project
Request ID:
Priority: High
Due Date: 10/2/2016
Assignments
User
Role
Add
Remove
Overview
Description
Task: New Study
Comments
Documents
Basic Study Information
Analysis Plan
IRB
Protocol
SQL Server 2014 Configuration Manager


PopMedNet
Welcome, System Administrator
Contact Us Log Off
Summary
Name: Scanner Study -
Project: Scanner Proje
Request ID:
Due Date: 10/2/2016
Overview
Basic Study Information
Analysis Plan
Add
Remove
Add Workflow User
Please choose an Organization, User, and Workflow Role.
User Organization*
Organization
Operations Center
Organization Template
Root
User*
Username
Email
test2user
test2user@test.com
SystemAdministrator
GroupDataMartAdministrator
Observer
Observer@root.org
Investigator
Investigator@root.org
DataMartAdministrator
QueryAdministrator
Workflow Role*
Scientific Lead
Save
Cancel


PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Home
Requests
Profile
Resources
Reports
Network
Contact Us
Log Off
Summary
Name: Scanner Study - Iterative
Project: Scanner Project
Request ID:
Priority: High
Due Date: 10/2/2016
Assignments
User
Role
SystemAdministrator
Request Creator
Add
Remove
Overview
Description
Task: New Study
Comments
Documents
History
Request Header
Requester Center: OMP
Purpose of use: Healthcare Research
Level of PHI Disclosure: Limited
Source Task Order:
Source Activity:
Source Activity Project:


Overview
Description
Task: New Study
Comments
Documents
History
Request Header
Requester Center: OMP
Purpose of use: Healthcare Research
Level of PHI Disclosure: Limited
Source Task Order:
Source Activity:
Source Activity Project:
Budget Task Order:
Budget Activity:
Budget Activity Project:
Workplan Type:
Additional Instructions:
Start Date: 10/12/2016 6:15 pm
End Date:
Request Details
Basic Study Information
Analysis Plan
IRB
Protocol
Clinical Trial Id
Start Date 10/12/2016
End Date 10/12/2016

Basic Study Information

Analysis Plan **IRB** **Protocol**

Clinical Trial Id **Start Date** 10/12/2016 **End Date** 10/12/2016

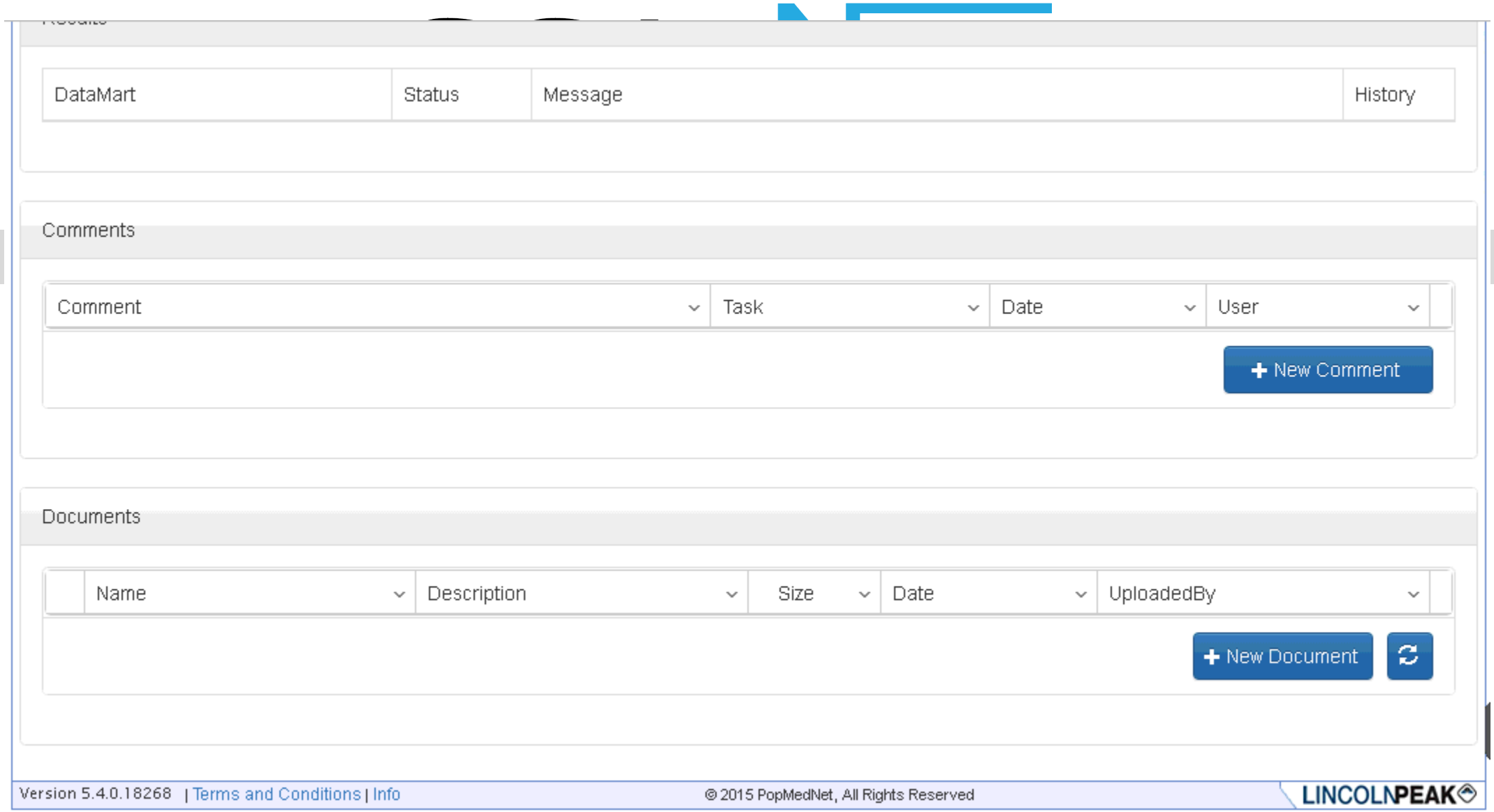
Study Protocols

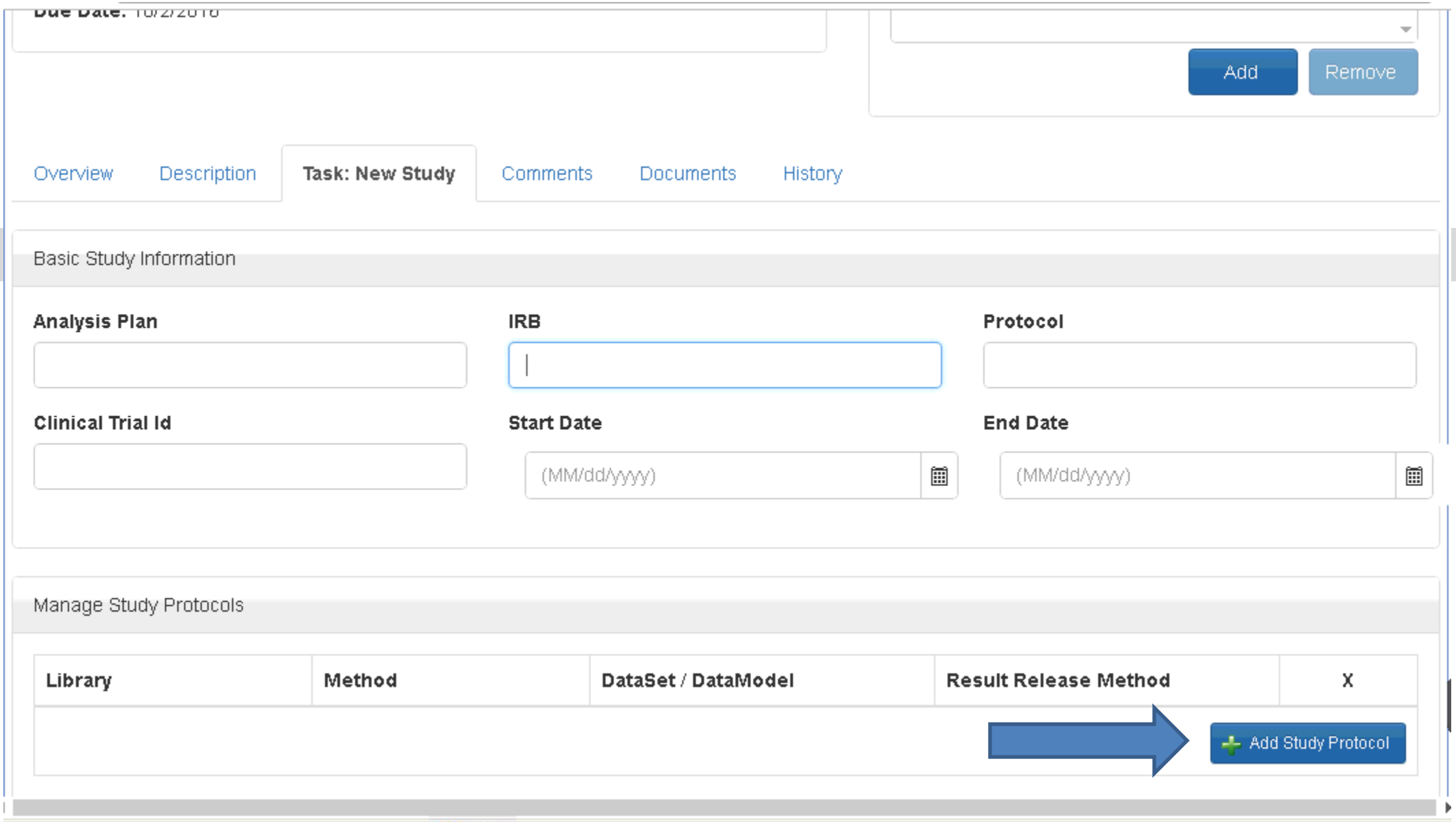
Library	Method	DataSet / DataModel	Result Release Method

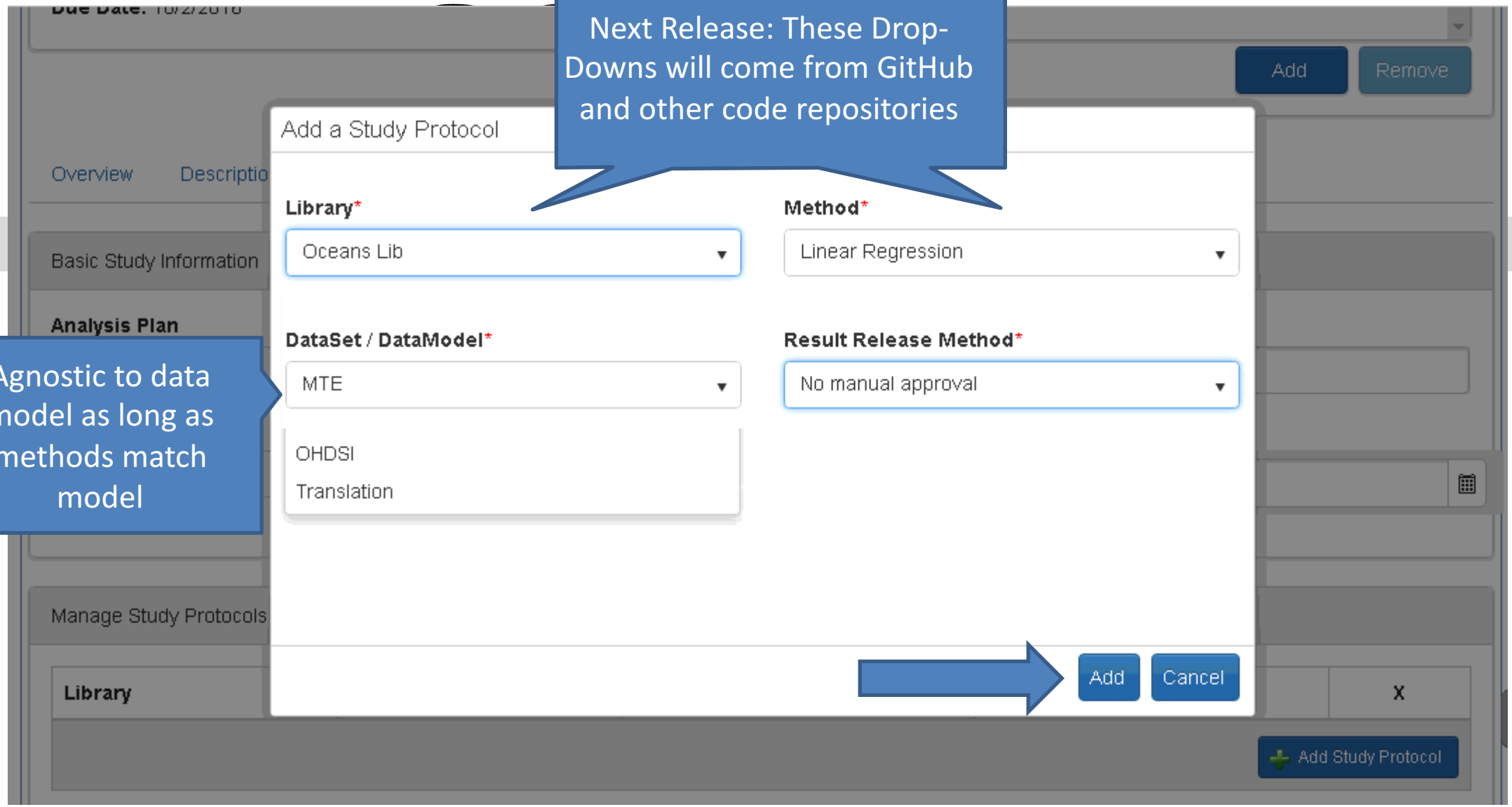
Results

DataMart	Status	Message	History

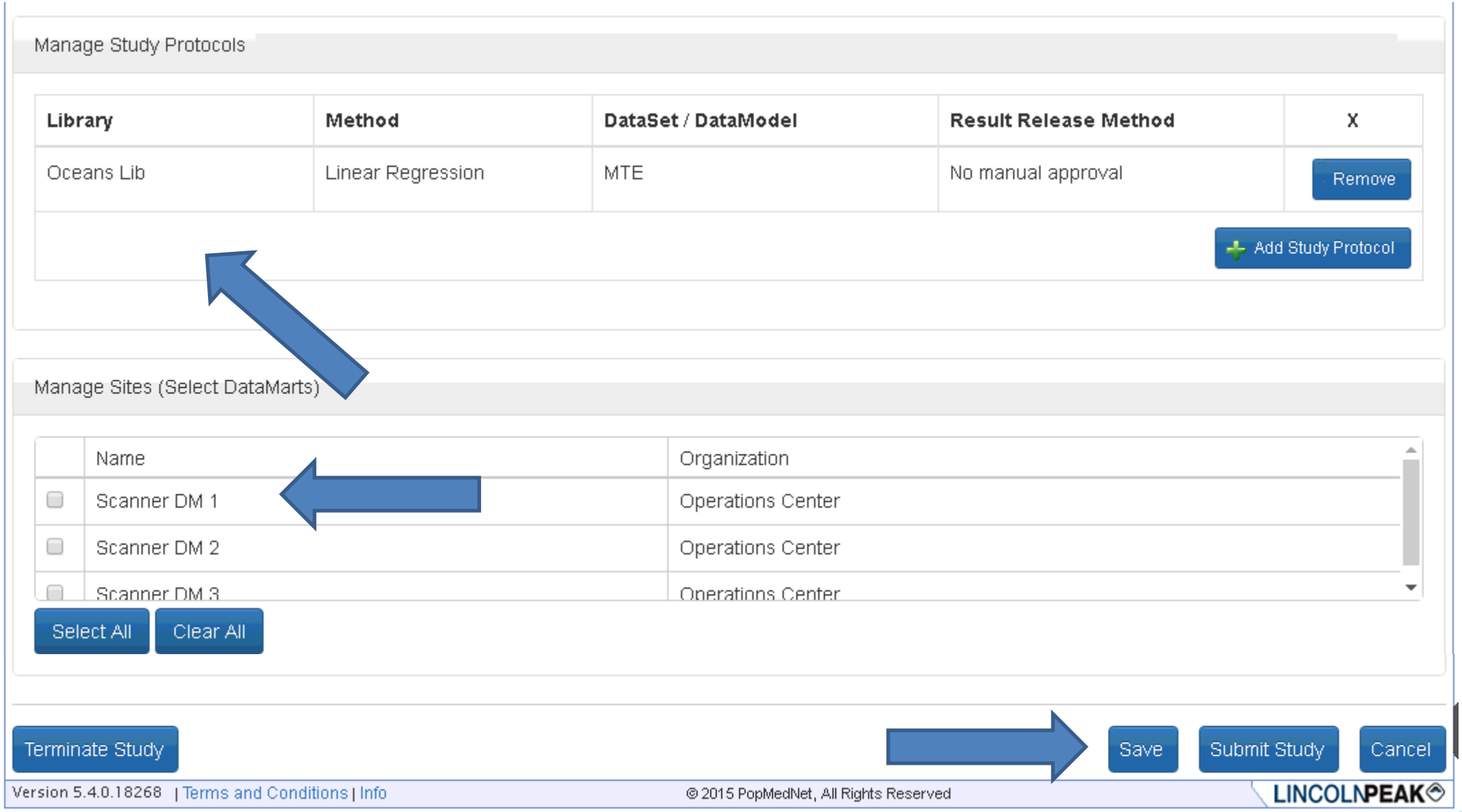
Comments

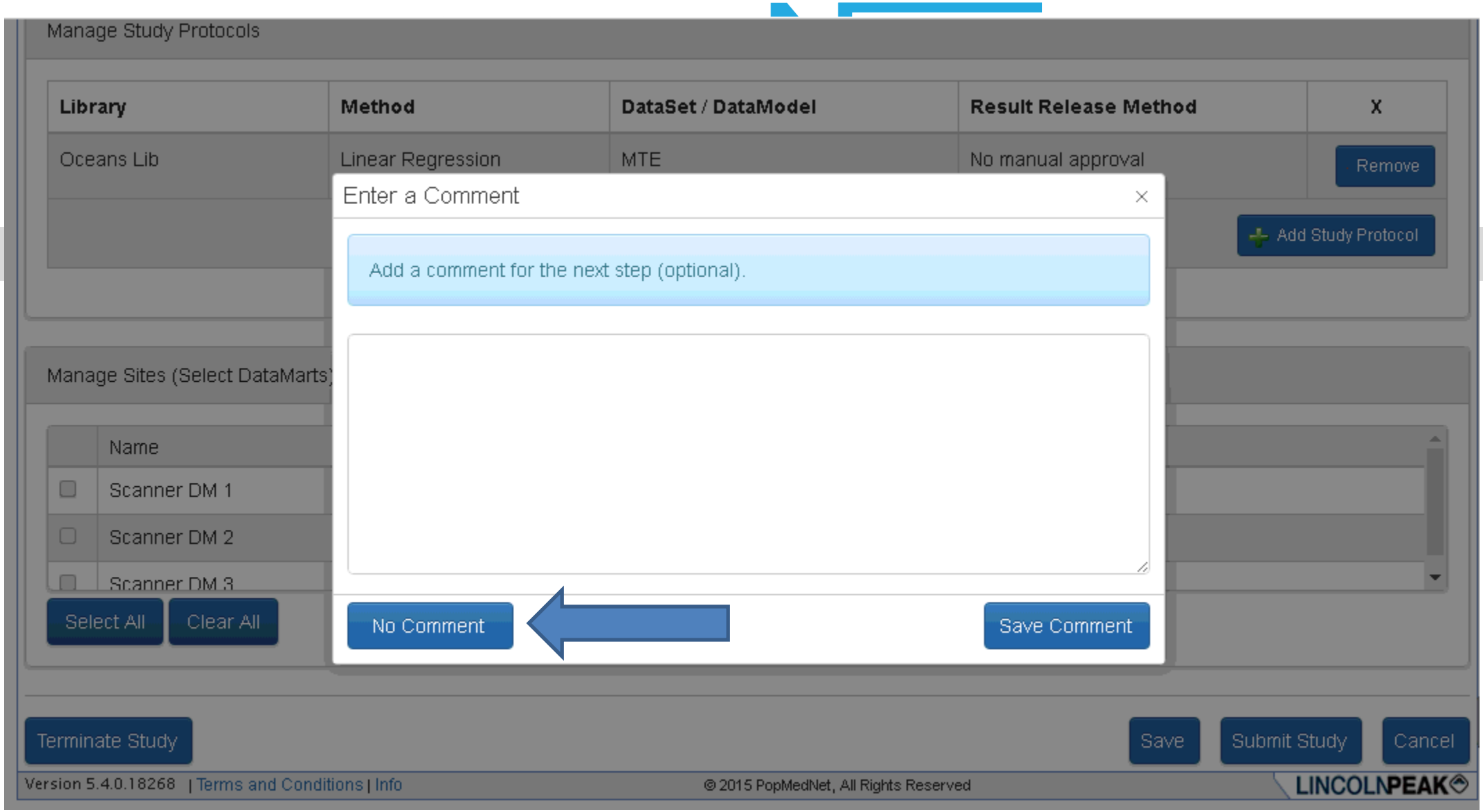

DataMart
Status
Message
History
Comments
Comment
Task
Date
User
New Comment
Documents
Name
Description
Size
Date
UploadedBy
New Document
Version 5.4.0.18268 | Terms and Conditions | Info
© 2015 PopMedNet, All Rights Reserved
LINCOLNPEAK


Due Date: 10/2/2018
Add
Remove
Overview
Description
Task: New Study
Comments
Documents
History
Basic Study Information
Analysis Plan
IRB
Protocol
Clinical Trial Id
Start Date
End Date
(MM/dd/yyyy)
(MM/dd/yyyy)
Manage Study Protocols
Library
Method
DataSet / DataModel
Result Release Method
X
Add Study Protocol


Next Release: These Drop-Downs will come from GitHub and other code repositories
Agnostic to data model as long as methods match model
Add a Study Protocol
Library*
Oceans Lib
Method*
Linear Regression
DataSet / DataModel*
MTE
OHDSI
Translation
Result Release Method*
No manual approval
Add
Cancel
Add
Remove
Overview
Basic Study Information
Analysis Plan
Manage Study Protocols
Library
X
Add Study Protocol

Sending out a proposal for a network




Manage Study Protocols
Library
Method
DataSet / DataModel
Result Release Method
X
Oceans Lib
Linear Regression
MTE
No manual approval
Remove
Add Study Protocol
Enter a Comment
Add a comment for the next step (optional).
Manage Sites (Select DataMarts)
Name
Scanner DM 1
Scanner DM 2
Scanner DM 3
Select All
Clear All
No Comment
Save Comment
Terminate Study
Save
Submit Study
Cancel
Version 5.4.0.18268 | Terms and Conditions | Info
© 2015 PopMedNet, All Rights Reserved
LINCOLNPEAK

Name: Scanner Study - Iterative

Project: Scanner Project

Request ID:

Priority: High

Due Date: 11/14/2016

User	Role
SystemAdministrator	Request Creator

Add Remove

Overv Task: Review Study Comments Documents History

Request Header

Requester Center: OMP

Purpose of use: Healthcare Research

Level of PHI Disclosure: Limited

Source Task Order:

Source Activity:

Source Activity Project:

Budget Task Order:

Budget Activity:

Budget Activity Project:

Workplan Type:

Additional Instructions:

Overview | Description | Task: Review Study | Comments | Documents | History

Basic Study Information

Analysis Plan | IRB | Protocol

Clinical Trial Id | Start Date: 10/03/2016 | End Date: 12/01/2016

Manage Study Protocols

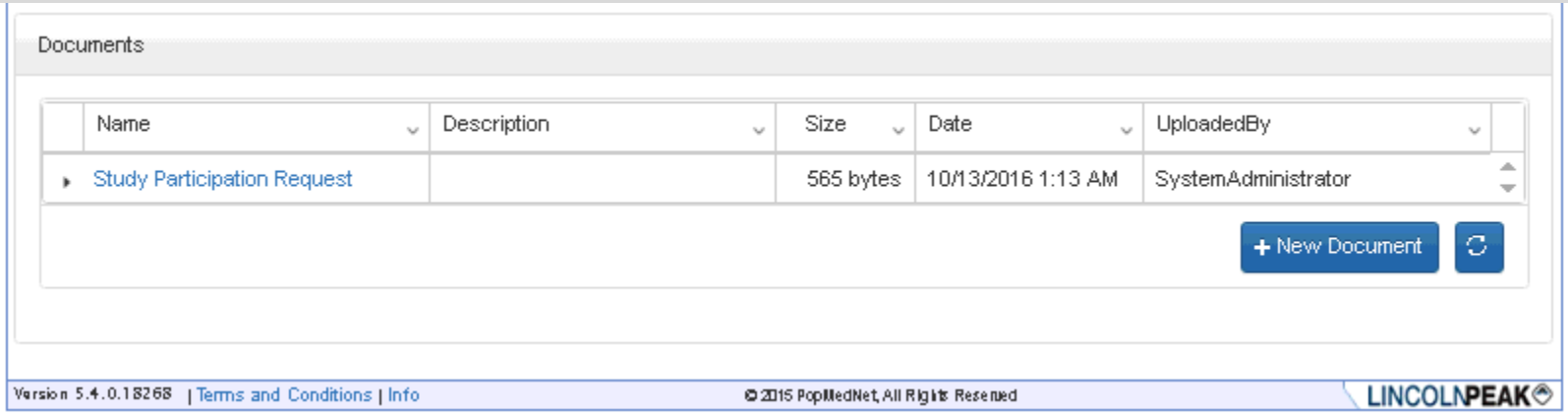
Library	Method	DataSet / DataModel	Result Release Method	X
Oceans Lib	Linear Regression	MTE	No manual approval	

Manage Sites (Select DataMarts)

	Name	Organization
☑	Scanner DM 1	Operations Center
☑	Scanner DM 2	Operations Center
☑	Scanner DM 3	Operations Center

Submit Study | Reject Study

pSCANNER


Documents
Name
Description
Size
Date
UploadedBy
Study Participation Request
565 bytes
10/13/2016 1:13 AM
SystemAdministrator
+ New Document
Version 5.4.0.18268 | Terms and Conditions | Info
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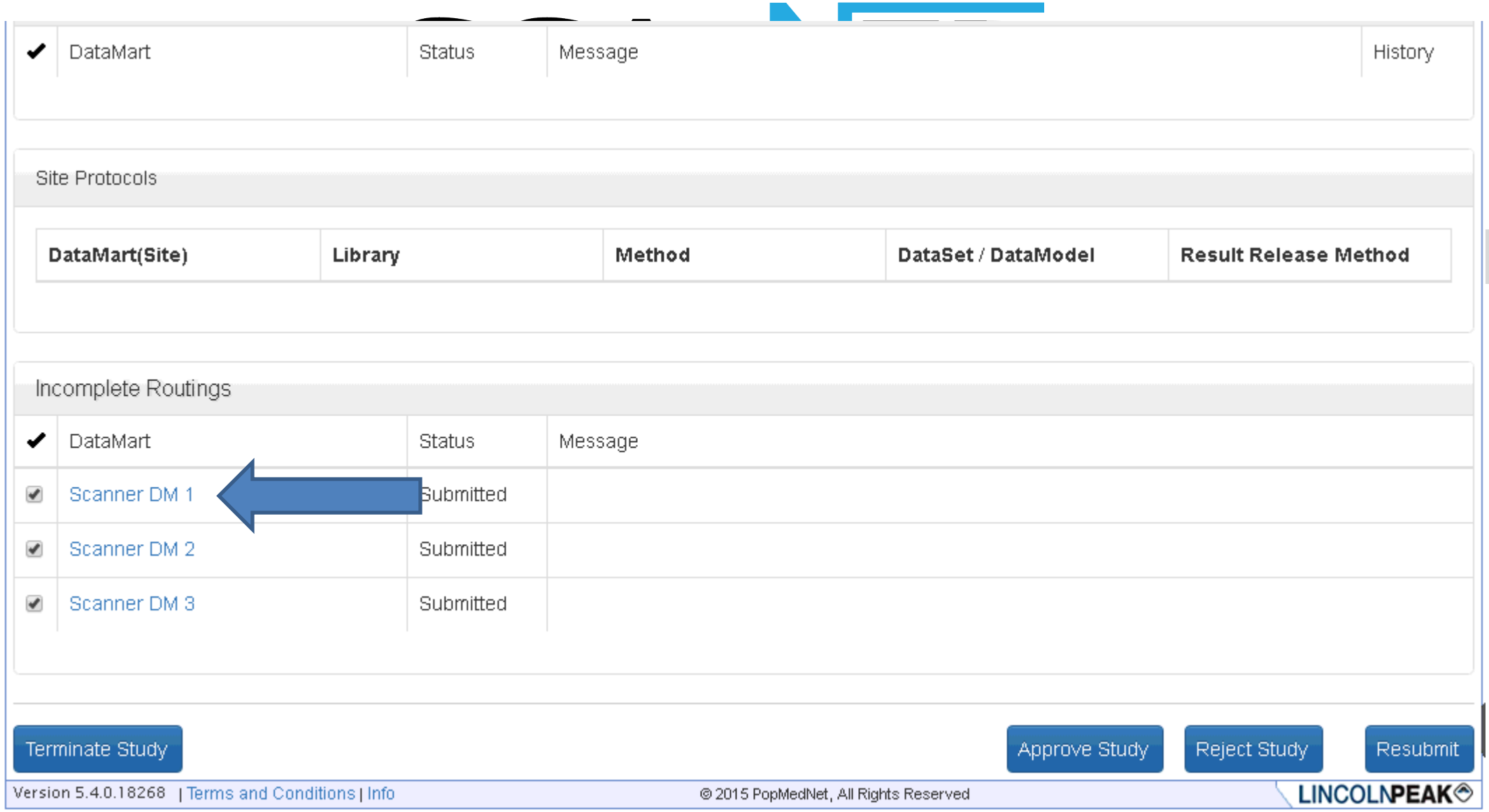
DataMart
Status
Message
History
Site Protocols
DataMart(Site)
Library
Method
DataSet / DataModel
Result Release Method
Incomplete Routings
DataMart
Status
Message
Scanner DM 1
Submitted
Scanner DM 2
Submitted
Scanner DM 3
Submitted
Terminate Study
Approve Study
Reject Study
Resubmit
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Due Date: 11/14/2016

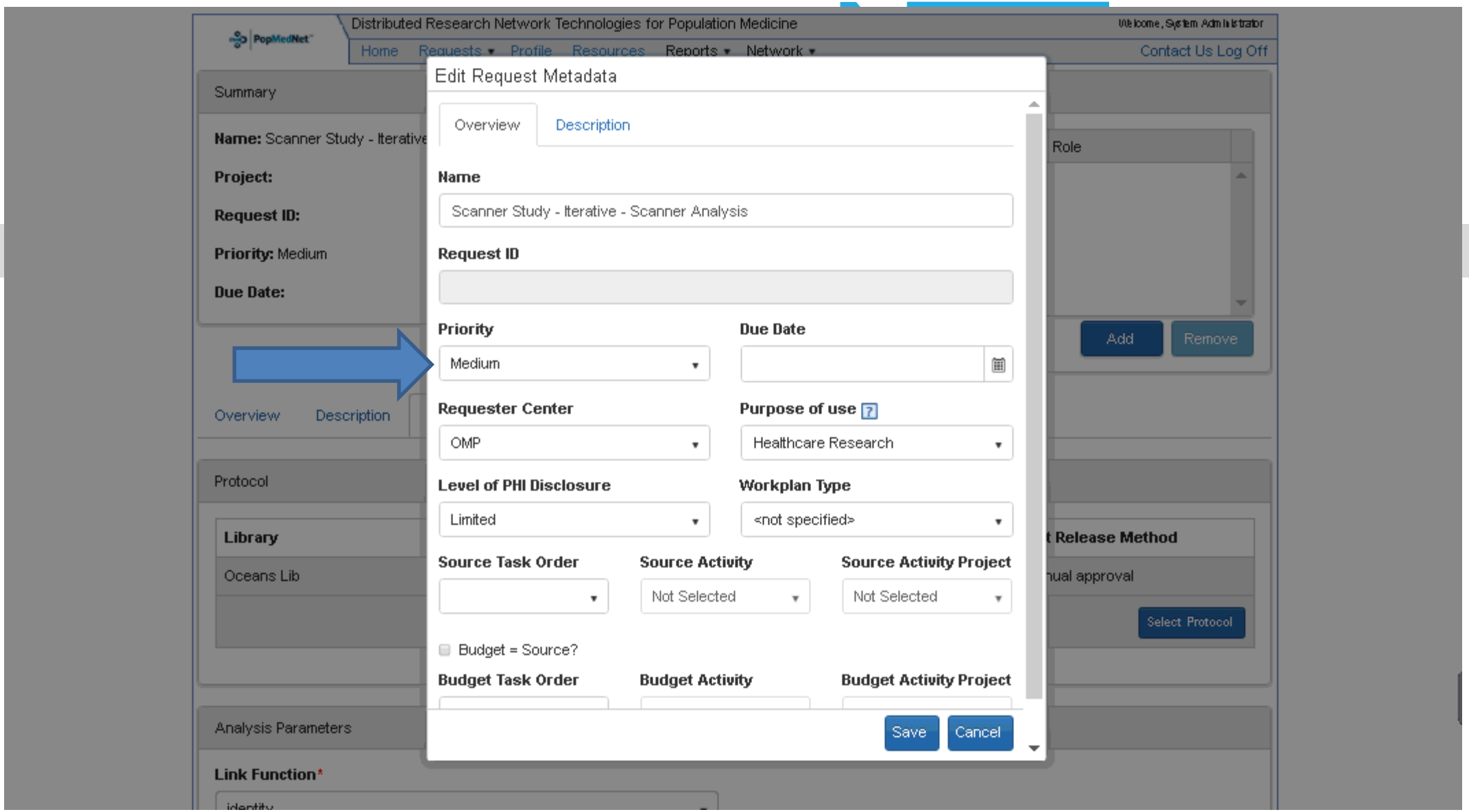
Add | Remove

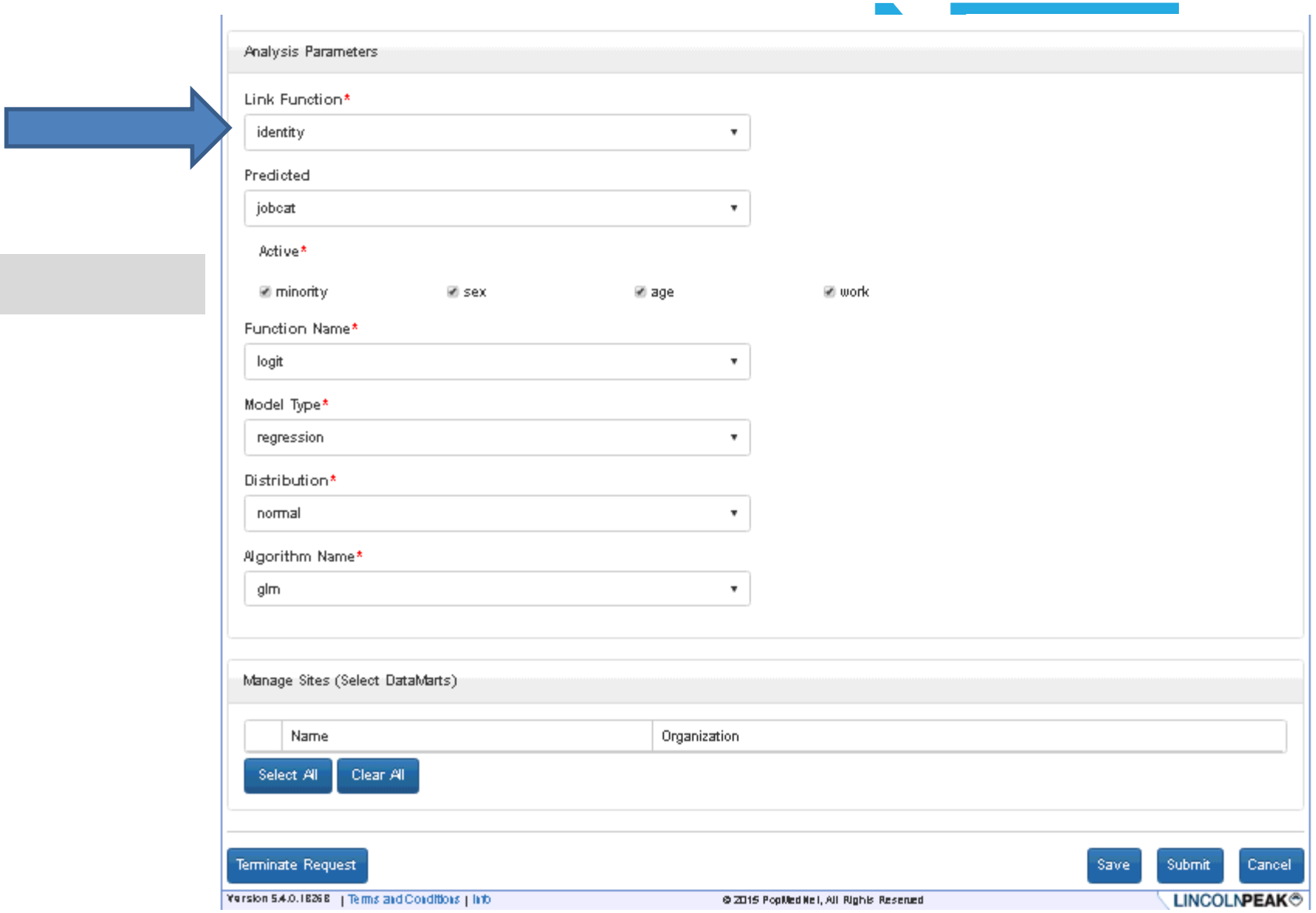
Overv | **Task: Manage Study Analysis** | Comments | Documents | History

Study Analysis

New Analysis

Name	Status	Created By	Date Submitted	Submitter


PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Home
Requests
Profile
Resources
Reports
Network
Contact Us Log Off
Summary
Name: Scanner Study - Iterative
Project:
Request ID:
Priority: Medium
Due Date:
Overview
Description
Protocol
Library
Oceans Lib
Analysis Parameters
Link Function*
Role
Add
Remove
Release Method
Select Protocol
Edit Request Metadata
Overview
Description
Name
Scanner Study - Iterative - Scanner Analysis
Request ID
Priority
Medium
Due Date
Requester Center
OMP
Purpose of use
Healthcare Research
Level of PHI Disclosure
Limited
Workplan Type
<not specified>
Source Task Order
Source Activity
Not Selected
Source Activity Project
Not Selected
Budget = Source?
Budget Task Order
Budget Activity
Budget Activity Project
Save
Cancel


Analysis Parameters
Link Function*
identity
Predicted
jobcat
Active*
minority
sex
age
work
Function Name*
logit
Model Type*
regression
Distribution*
normal
Algorithm Name*
glm
Manage Sites (Select DataMarts)
Name
Organization
Select All
Clear All
Terminate Request
Save
Submit
Cancel
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Analysis Protocol

Library	Method	DataSet / DataModel	Result Release Method
Oceans Lib	Linear Regression	MTE	No manual approval

Analysis Parameters

Link Function identity

Predicted jobcat

Active minority, sex, age, work

Function Name logit

Model Type regression

Distribution normal

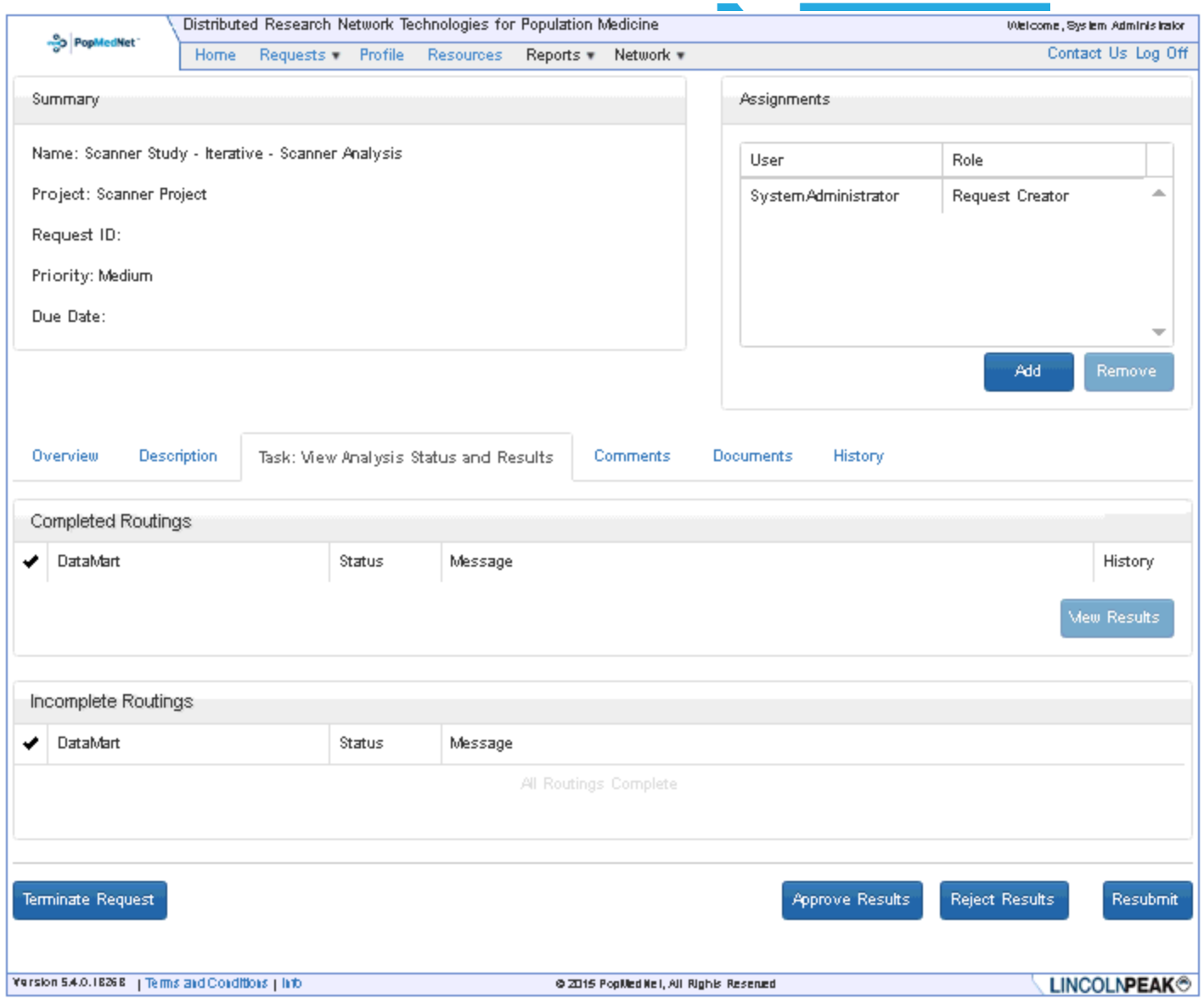
Algorithm Name glm

Basic Study Information

Analysis Plan	IRB	Protocol
Clinical Trial Id	Start Date 10/03/2016	End Date 12/01/2016

Study Protocols

Library	Method	DataSet / DataModel	Result Release Method


PopMedNet
Distributed Research Network Technologies for Population Medicine
Welcome, System Administrator
Home
Requests
Profile
Resources
Reports
Network
Contact Us
Log Off
Summary
Name: Scanner Study - Iterative - Scanner Analysis
Project: Scanner Project
Request ID:
Priority: Medium
Due Date:
Assignments
User
Role
SystemAdministrator
Request Creator
Add
Remove
Overview
Description
Task: View Analysis Status and Results
Comments
Documents
History
Completed Routings
DataMart
Status
Message
History
View Results
Incomplete Routings
DataMart
Status
Message
All Routings Complete
Terminate Request
Approve Results
Reject Results
Resubmit
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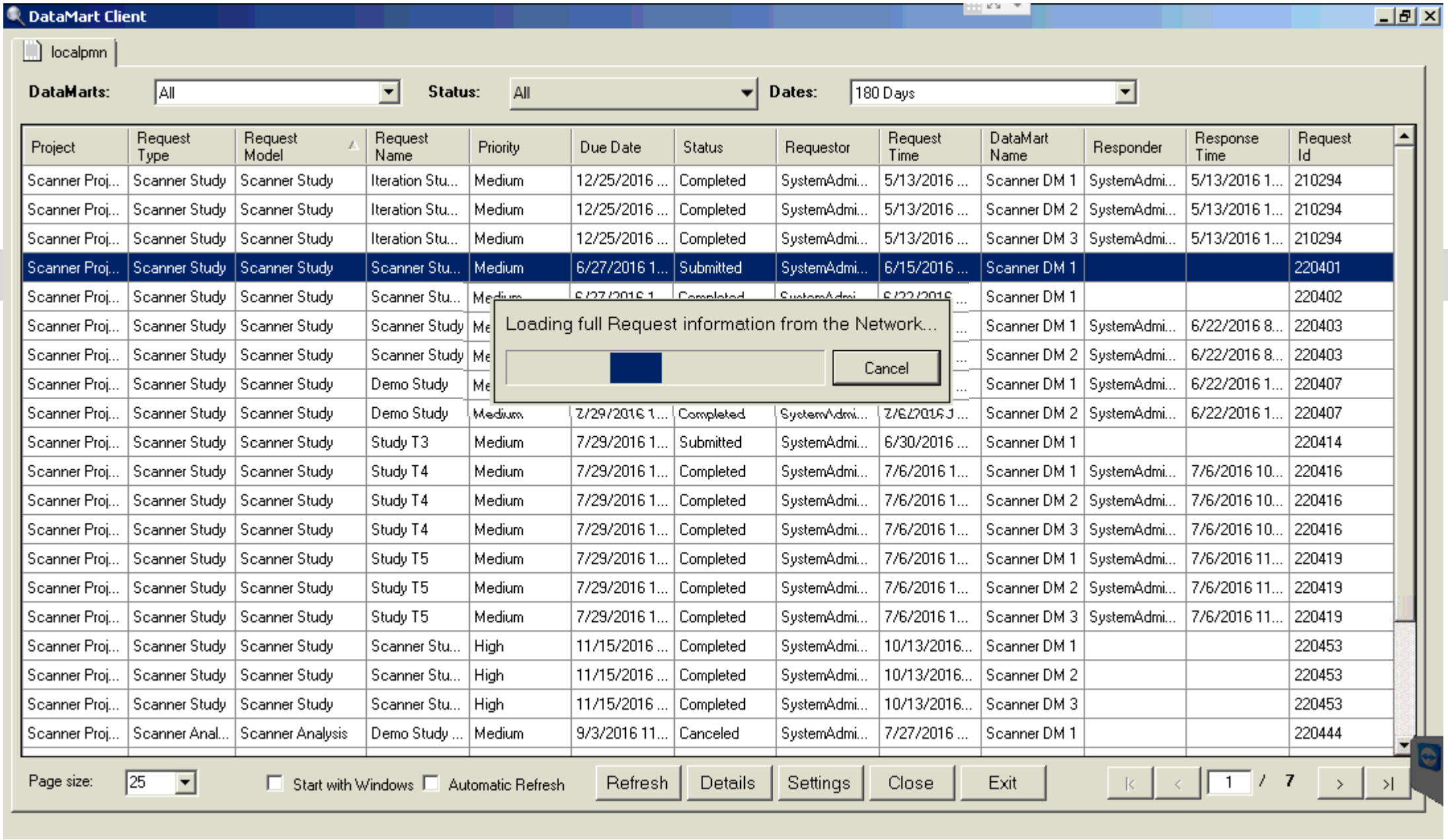
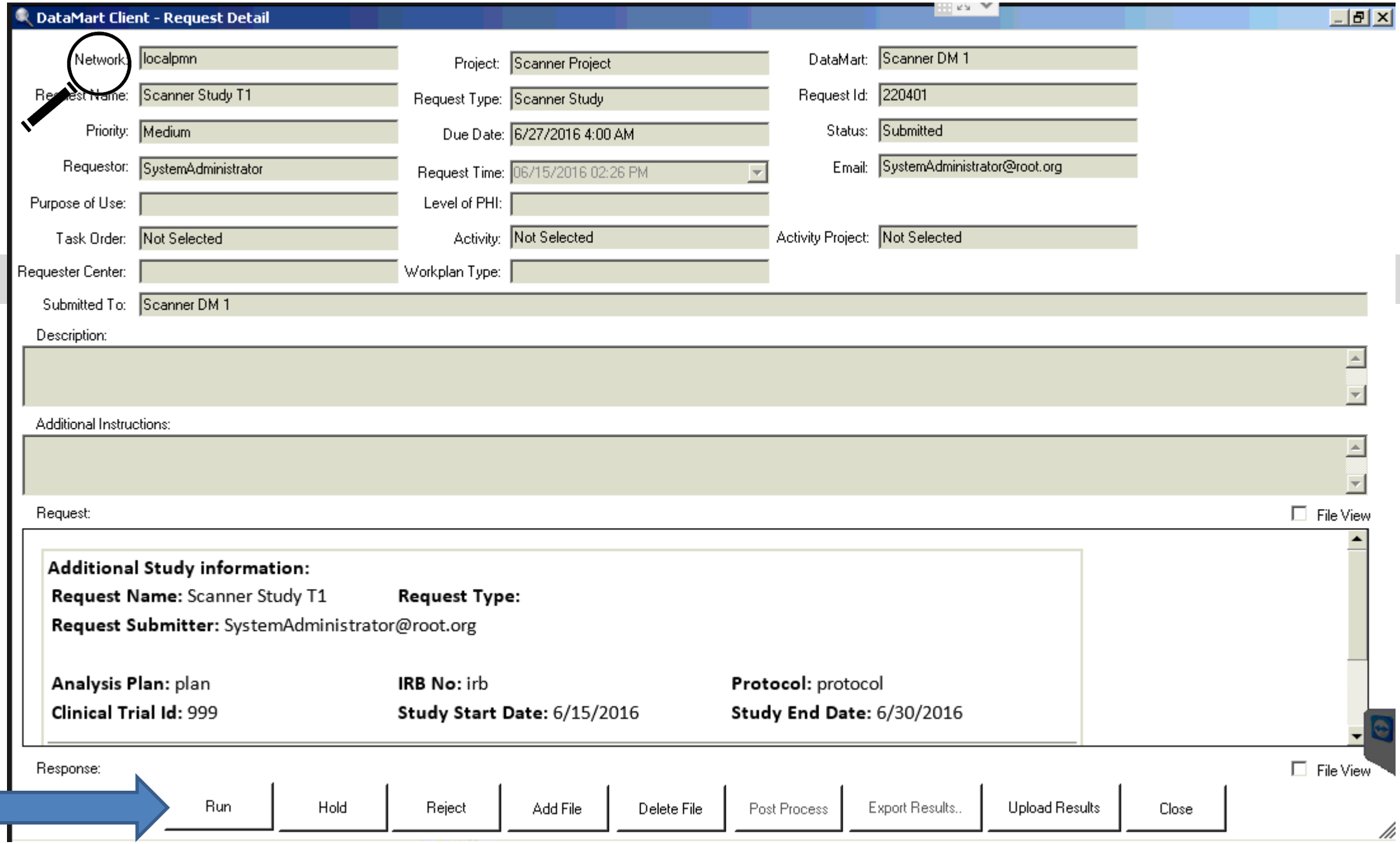
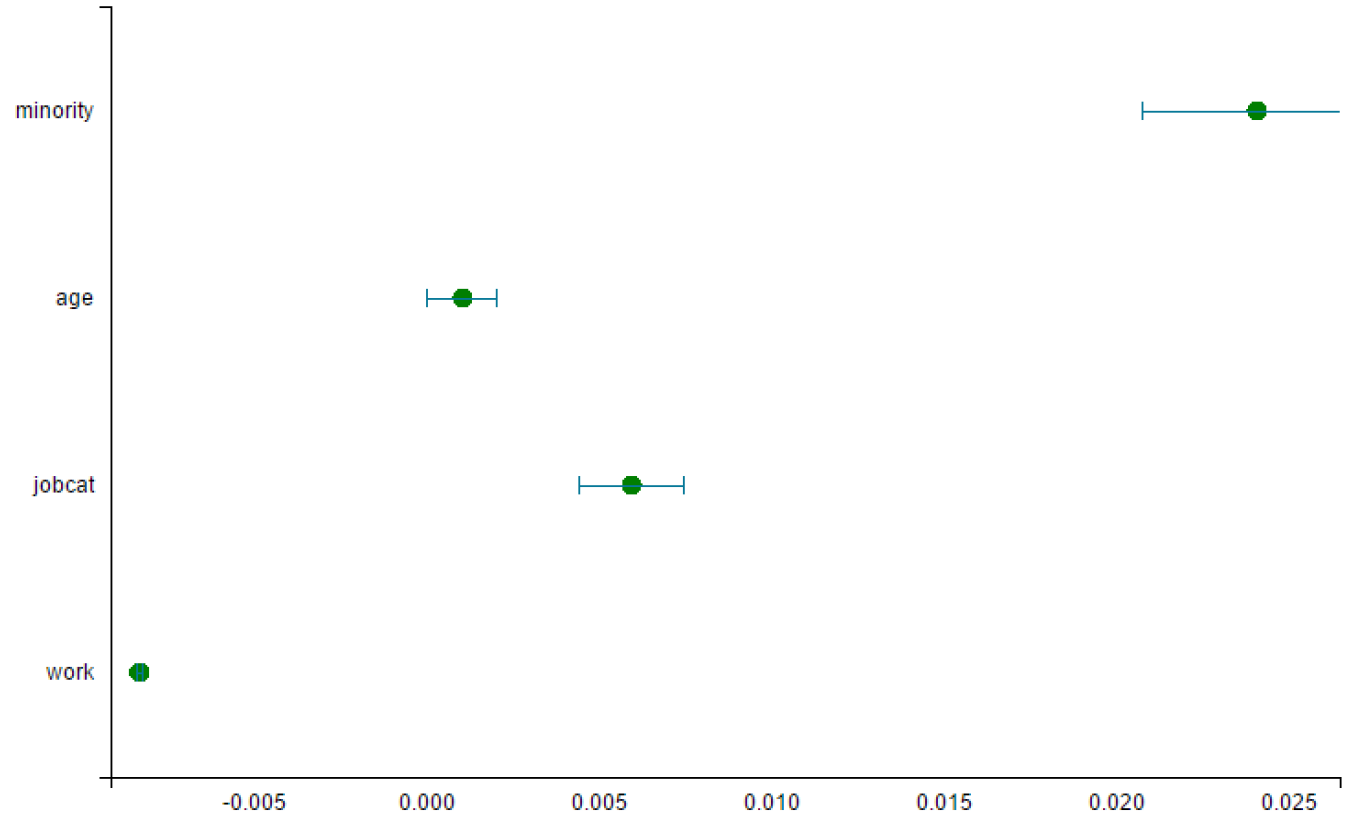

DataMart Client
localpmn
DataMarts: All
Status: All
Dates: 180 Days
Project | Request Type | Request Model | Request Name | Priority | Due Date | Status | Requestor | Request Time | DataMart Name | Responder | Response Time | Request Id
Scanner Proj... | Scanner Study | Scanner Study | Iteration Stu... | Medium | 12/25/2016 ... | Completed | SystemAdmi... | 5/13/2016 ... | Scanner DM 1 | SystemAdmi... | 5/13/2016 1... | 210294
Scanner Proj... | Scanner Study | Scanner Study | Iteration Stu... | Medium | 12/25/2016 ... | Completed | SystemAdmi... | 5/13/2016 ... | Scanner DM 2 | SystemAdmi... | 5/13/2016 1... | 210294
Scanner Proj... | Scanner Study | Scanner Study | Iteration Stu... | Medium | 12/25/2016 ... | Completed | SystemAdmi... | 5/13/2016 ... | Scanner DM 3 | SystemAdmi... | 5/13/2016 1... | 210294
Scanner Proj... | Scanner Study | Scanner Study | Scanner Stu... | Medium | 6/27/2016 1... | Submitted | SystemAdmi... | 6/15/2016 ... | Scanner DM 1 | | | 220401
Scanner Proj... | Scanner Study | Scanner Study | Scanner Stu... | Me | | | | | Scanner DM 1 | | | 220402
Scanner Proj... | Scanner Study | Scanner Study | Scanner Study | Me | | | | | Scanner DM 1 | SystemAdmi... | 6/22/2016 8... | 220403
Scanner Proj... | Scanner Study | Scanner Study | Scanner Study | Me | | | | | Scanner DM 2 | SystemAdmi... | 6/22/2016 8... | 220403
Scanner Proj... | Scanner Study | Scanner Study | Demo Study | Me | | | | | Scanner DM 1 | SystemAdmi... | 6/22/2016 1... | 220407
Scanner Proj... | Scanner Study | Scanner Study | Demo Study | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 2 | SystemAdmi... | 6/22/2016 1... | 220407
Scanner Proj... | Scanner Study | Scanner Study | Study T3 | Medium | 7/29/2016 1... | Submitted | SystemAdmi... | 6/30/2016 ... | Scanner DM 1 | | | 220414
Scanner Proj... | Scanner Study | Scanner Study | Study T4 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 1 | SystemAdmi... | 7/6/2016 10... | 220416
Scanner Proj... | Scanner Study | Scanner Study | Study T4 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 2 | SystemAdmi... | 7/6/2016 10... | 220416
Scanner Proj... | Scanner Study | Scanner Study | Study T4 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 3 | SystemAdmi... | 7/6/2016 10... | 220416
Scanner Proj... | Scanner Study | Scanner Study | Study T5 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 1 | SystemAdmi... | 7/6/2016 11... | 220419
Scanner Proj... | Scanner Study | Scanner Study | Study T5 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 2 | SystemAdmi... | 7/6/2016 11... | 220419
Scanner Proj... | Scanner Study | Scanner Study | Study T5 | Medium | 7/29/2016 1... | Completed | SystemAdmi... | 7/6/2016 1... | Scanner DM 3 | SystemAdmi... | 7/6/2016 11... | 220419
Scanner Proj... | Scanner Study | Scanner Study | Scanner Stu... | High | 11/15/2016 ... | Completed | SystemAdmi... | 10/13/2016... | Scanner DM 1 | | | 220453
Scanner Proj... | Scanner Study | Scanner Study | Scanner Stu... | High | 11/15/2016 ... | Completed | SystemAdmi... | 10/13/2016... | Scanner DM 2 | | | 220453
Scanner Proj... | Scanner Study | Scanner Study | Scanner Stu... | High | 11/15/2016 ... | Completed | SystemAdmi... | 10/13/2016... | Scanner DM 3 | | | 220453
Scanner Proj... | Scanner Anal... | Scanner Analysis | Demo Study ... | Medium | 9/3/2016 11... | Canceled | SystemAdmi... | 7/27/2016 ... | Scanner DM 1 | | | 220444
Loading full Request information from the Network...
Cancel
Page size: 25
Start with Windows
Automatic Refresh
Refresh
Details
Settings
Close
Exit
1 / 7


DataMart Client - Request Detail
Network: localpmn
Project: Scanner Project
DataMart: Scanner DM 1
Request Name: Scanner Study T1
Request Type: Scanner Study
Request Id: 220401
Priority: Medium
Due Date: 6/27/2016 4:00 AM
Status: Submitted
Requestor: SystemAdministrator
Request Time: 06/15/2016 02:26 PM
Email: SystemAdministrator@root.org
Purpose of Use:
Level of PHI:
Task Order: Not Selected
Activity: Not Selected
Activity Project: Not Selected
Requester Center:
Workplan Type:
Submitted To: Scanner DM 1
Description:
Additional Instructions:
Request:
File View
Additional Study information:
Request Name: Scanner Study T1
Request Type:
Request Submitter: SystemAdministrator@root.org
Analysis Plan: plan
IRB No: irb
Protocol: protocol
Clinical Trial Id: 999
Study Start Date: 6/15/2016
Study End Date: 6/30/2016
Response:
File View
Run
Hold
Reject
Add File
Delete File
Post Process
Export Results..
Upload Results
Close

Result – A single model across 3 sites

localpmn:9080/delta3graph/showResults?Scanner%20DM%201=<%3Fxml%20version%3D"1.0"%3F><PMML%20version%3D"4.2"%20xmlns%3D"

Site: Scanner DM 1



Supported by the Patient-Centered Outcomes Research Institute (PCORI) Contract CDRN-1306-04819

To Do

pSCANNER

- Development and testing environment so that any developer can contribute and test methods to distributed query framework
- Integrate OHDSI tools and WebAPI to Portal Visualizations
  - some method require sharing row-level data
- Implement web service for methods repository
- Conformance checks for methods
- “Task-lists” for multi-step projects using FHIR Task Resource

pSCANNER