

PREDICT



PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS

Researcher Information

September 2005

Sponsored by the Department of Homeland Security, Science & Technology Directorate, HSARPA

Welcome

You are invited to participate as a researcher in
Protected Repository for the Defense of Infrastructure Against Cyber Threats

PREDICT

Sponsored by the Department of Homeland Security, Science and Technology
Directorate, HSARPA

PREDICT Coordinating Center – PCC

The PREDICT Coordinating Center (PCC):

- Established and maintains a web portal for secure access to PREDICT features for the community
- Established and chairs an Advisory Board to provide program oversight
- Established and chairs an Application Review Board which
 - Reviews and approves all requests for user accounts to the portal
 - Reviews and approves all requests for access to the datasets
- Established and chairs a Publication Review Board which
 - Reviews and approves research products
 - Provides controlled access to research products through the portal

Reference Documents

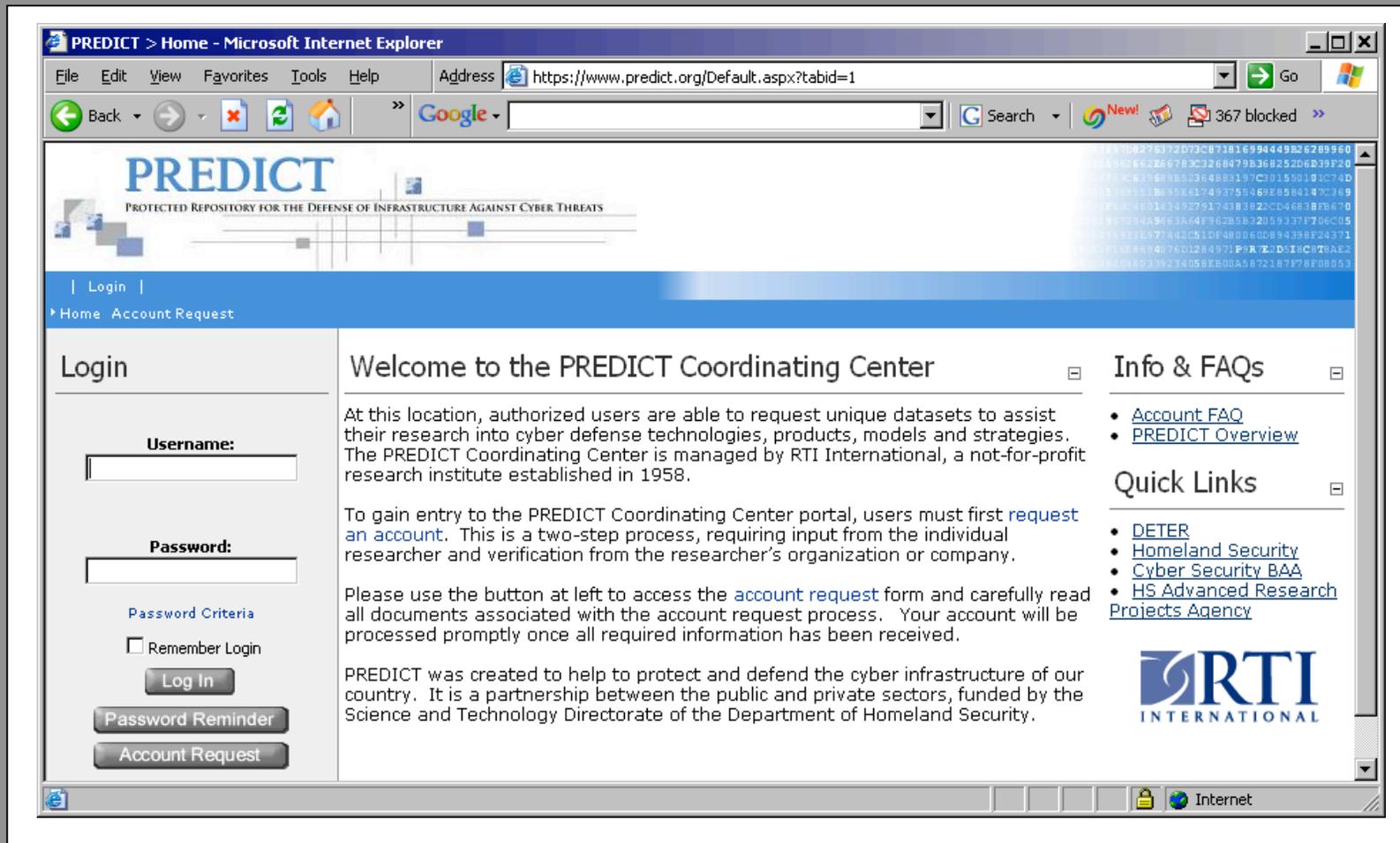
- Application Process FAQ
- Researcher Procedure
- Application Review Board Overview
- Application Review Procedure
- PREDICT Overview

The screenshot displays the PREDICT web application interface. At the top, the PREDICT logo is visible with the tagline "PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS". Below the logo is a navigation bar with links for "Test Researcher", "Logout", and "Help". A secondary navigation bar includes "Home", "IssueTracker", "Dataset Catalog Access", "Research Products", "Account Request", "Reports", "MessageCenter", and "My Account". The main content area is divided into three columns. The left column, titled "Message Count", shows "Private Messages" with "0 Unread Messages" and "0 Read Messages". The middle column, titled "Welcome to the PREDICT community", contains a welcome message and a paragraph of text: "We value your membership and appreciate any feedback you may have to improve the PREDICT Coordinating Center. Using the links above, navigate to the meta-data catalog of available datasets. Review the catalog listings to determine the most applicable dataset for your research. Information on the type of data, time frame for the data snapshot, requirements and restrictions for using the data, as well as criteria for transmission are provided for each dataset." The right column, titled "Info & FAQs", lists several links: "Application Process FAQ", "Researcher Procedure", "Application Review Board Overview", "Application Review Procedure", and "PREDICT Overview".

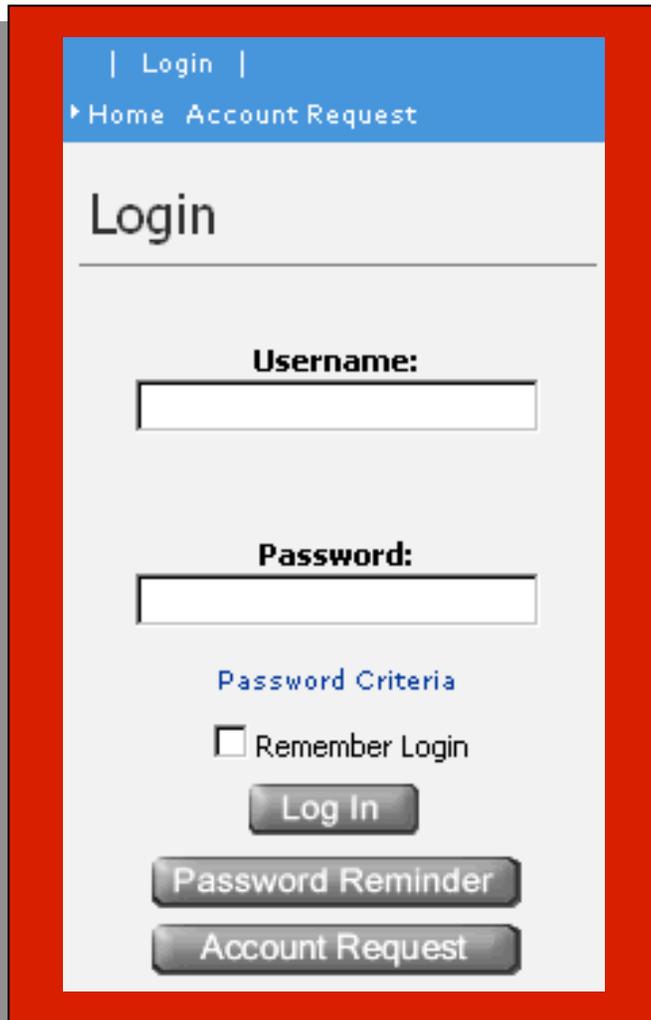
Researcher Functions

- Apply for an account using the **Account Request** form
- Provide a **Sponsorship Letter** from your employer
- Apply for access to datasets using the **Request a dataset** form
 - Execute a **Memorandum of Agreement** (MOA) with the PCC for each dataset request
- Share comments about datasets with other researchers using the **Annotate Dataset** form
- Submit research products using **Submit Research Product** form
- Use **IssueTracker** tool to
 - Provide **Feedback** to the PCC about PREDICT
 - Track and facilitate **Application Review** processing
 - Track and facilitate Research Products processing

PREDICT Home Page – <https://www.predict.org>



Apply for an Account – Process



The screenshot shows the PREDICT login interface. At the top, there is a blue navigation bar with the text '| Login |' and a dropdown menu showing 'Home' and 'Account Request'. Below this is the 'Login' section. It features two input fields: 'Username:' and 'Password:'. Below the password field is a link for 'Password Criteria' and a checkbox for 'Remember Login'. At the bottom of the form are four buttons: 'Log In', 'Password Reminder', and 'Account Request'.

- Go to the **PREDICT Home Page**.
- Click **Account Request** from either the menu or the button
- Read the **MOA** for an understanding of the terms of use for PREDICT data.
- Read and print the **Sponsorship Letter** and have it completed and returned via US mail or fax to the PCC by your employer.
- **Complete and submit** the account request form.
- The PCC **Application Review Board** (ARB) will review your application and will notify you via **email** when your account has been activated.

Apply for an Account – Form

Request an account - Microsoft Internet Explorer
Address: https://www.predict.org/default...
Back Forward Home Google

Account Request

ROLE REQUIRED

Note: Researchers must submit a Sponsorship Letter with this account request. All roles will need to complete a Memorandum of Agreement to fully participate in PREDICT. Documents are provided here for your information. Do not take any action at this point, but complete the documents delivered in the email you will receive after you click Submit.

Researcher Host Provider
View Sponsorship Letter View Memo of Agreement View Sponsorship Letter View Memo of Agreement

USER INFORMATION

Required fields are marked with *

* First Name: My * Last Name: Name
* E-mail: Me@My.Org.Com Home Phone:
Work Phone: Cell Phone:
If you have a **Non-US** address, [click here](#)
* Address 1: My Street Address 2:
* City: MyCity * State: California
* Zip Code: 90210
 Receive weekly updates when new datasets are added/updated to the catalog

ORGANIZATION

Type in organization name. Click Submit. If your organization is not registered with the PCC, you will be asked to provide more information.

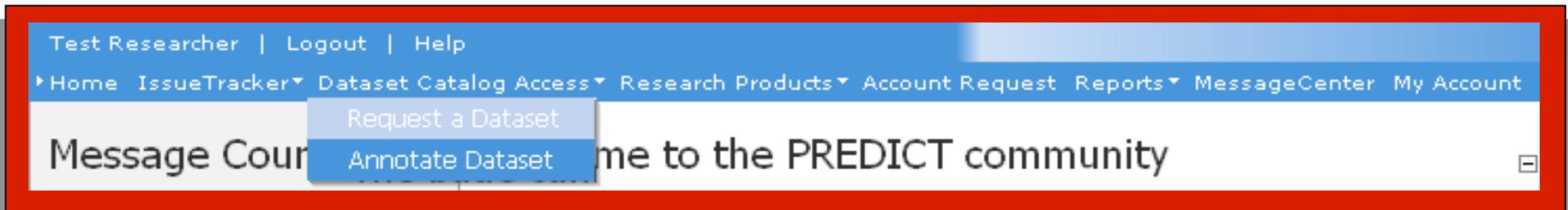
* Organization Name: My Org

Submit Cancel

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- Note that **Researcher** is checked
- Four required fields:
 1. First Name
 2. Last Name
 3. Email
 4. **Organization**
- If organization is not in the PREDICT list of 'approved' organizations, you will need to provide **organization information**.
- You will receive an **email** notifying you that your account request is being considered
- You will receive email notification of **account name and password** once the application review board approves the account.

Access the Dataset Catalog



- Log in to PREDICT with your new credentials.
- You will see several new menu items:
 - **IssueTracker**
 - **Dataset Catalog Access**
 - **Research Products**
 - Account Request
 - **Reports**
 - **MessageCenter**
 - **My Account**

Request a Dataset - Form

- Choose **Dataset Catalog Access** -> **Request a dataset**
- Select the table row(s) that contains the dataset(s) you want to access
- Click **Add** to request list
- Briefly describe your proposed project and how the selected datasets will be used
- Click **SUBMIT** to submit your application to the Application Review Board (ARB)
- You will receive a confirmation email containing a customized **MOA - Read, print, sign and FAX it to the PCC**
- The **ARB will review your application** and provide **access information** when your request has been approved

Apply for access to a dataset - Microsoft Internet Explorer

Address: https://www.predict.org/Default.aspx?tabid=94

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Test Researcher | Logout | Help

Home | IssueTracker | Dataset Catalog Access | Research Products | Account Request | Reports | MessageCenter | My Account

Request a dataset

Administer previous requests:

New Request

Keyword: Topology Search: Go Reset

Name	Short Description
<input type="checkbox"/> Active Topology Measurements with Skitter	Ongoing Active Topology Measurements
<input checked="" type="checkbox"/> April 2003 Internet Topology Data Kit (ITDK)	4/2003 routing and topology data
<input type="checkbox"/> internet_router_map_planetlab-20030412	Router-level map of the Internet.
<input type="checkbox"/> internet_router_map_planetlab-20030412	Router-level map of the Internet.

All fields marked with an asterisk (*) are required.

Add to request list

Request List:

Description	Click here
<input type="checkbox"/> April 2003 Internet Topology Data Kit (ITDK)	Use Agreement

Remove from request list

Request Reason: Investigating topology issues.

Date Needed: 10/28/2005

You will need to sign a Memo of Agreement to complete this request. The MOA will be delivered in the email you receive after you click Submit.

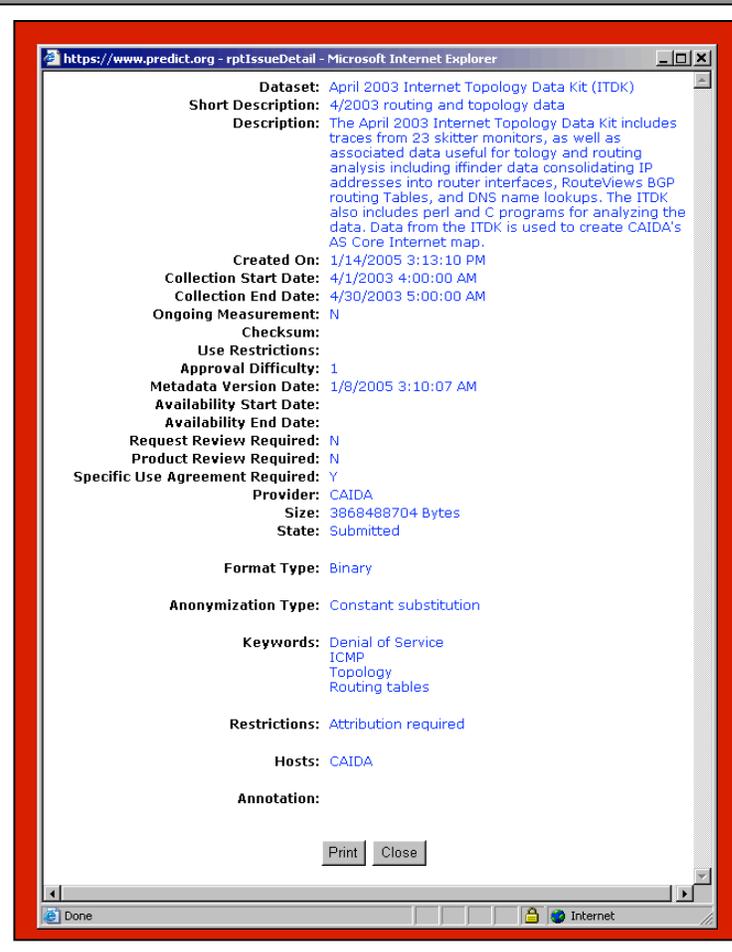
Submit Reset Form

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Request a Dataset - Detail

Dataset Detail

- Accessed by clicking on the dataset name in the catalog listing



The screenshot shows a web browser window with the URL <https://www.predict.org-rptIssueDetail>. The page displays the following details for the dataset:

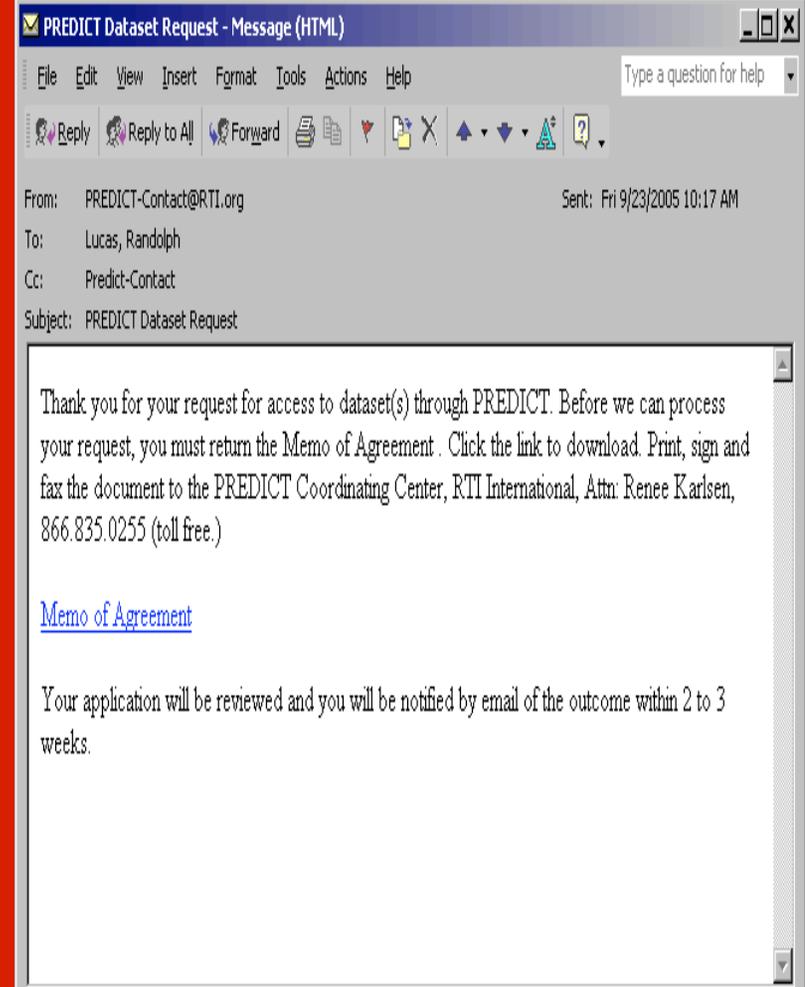
- Dataset:** April 2003 Internet Topology Data Kit (ITDK)
- Short Description:** 4/2003 routing and topology data
- Description:** The April 2003 Internet Topology Data Kit includes traces from 23 skitter monitors, as well as associated data useful for tology and routing analysis including iffinder data consolidating IP addresses into router interfaces, RouteViews BGP routing Tables, and DNS name lookups. The ITDK also includes perl and C programs for analyzing the data. Data from the ITDK is used to create CAIDA's AS Core Internet map.
- Created On:** 1/14/2005 3:13:10 PM
- Collection Start Date:** 4/1/2003 4:00:00 AM
- Collection End Date:** 4/30/2003 5:00:00 AM
- Ongoing Measurement:** N
- Checksum:**
- Use Restrictions:**
- Approval Difficulty:** 1
- Metadata Version Date:** 1/8/2005 3:10:07 AM
- Availability Start Date:**
- Availability End Date:**
- Request Review Required:** N
- Product Review Required:** N
- Specific Use Agreement Required:** Y
- Provider:** CAIDA
- Size:** 3868488704 Bytes
- State:** Submitted
- Format Type:** Binary
- Anonymization Type:** Constant substitution
- Keywords:** Denial of Service, ICMP, Topology, Routing tables
- Restrictions:** Attribution required
- Hosts:** CAIDA
- Annotation:**

At the bottom of the page, there are buttons for [Print](#) and [Close](#).

Request a Dataset - Email

Email message

- Sent immediately on dataset request submission
- **Confirms** your dataset request has been received
- Contains a customized **MOA** for printing, signing and faxing to PCC



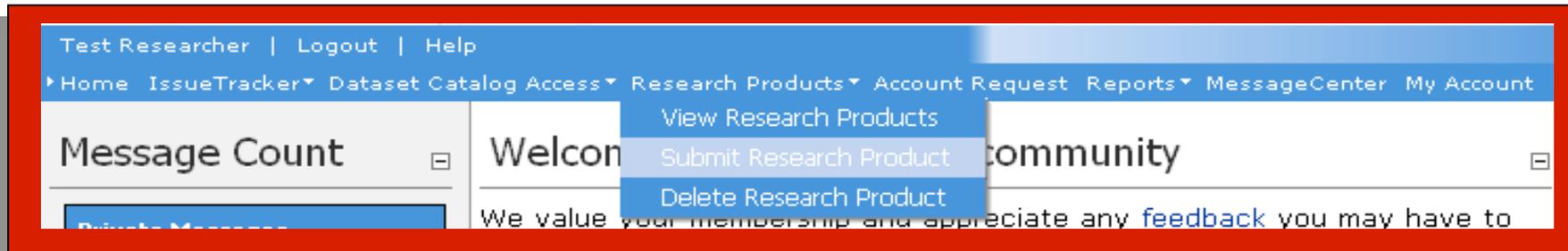
Annotate a Dataset

- Choose Dataset Catalog Access -> Annotate Dataset
- Filter catalog in drop-down box as needed
- Select desired dataset
- Type comment in Annotation text box
- Click Save

When you click View Details of a dataset, the annotations appear at the bottom of the window.

The screenshot displays the PREDICT web application interface. At the top, the logo 'PREDICT' is visible, followed by the tagline 'PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS'. Below this is a navigation bar with links for 'Test Researcher | Logout | Help' and a breadcrumb trail: 'Home IssueTracker Dataset Catalog Access Research Products Account Request Reports MessageCenter My Account'. The main heading is 'Annotate Dataset'. Below the heading is a search section with a 'Keyword:' dropdown menu set to '-- None --', a 'Search:' input field, and 'Go' and 'Reset' buttons. A table with two columns, 'Name' and 'Short Description', is shown below the search section. A red note states 'All fields marked with an asterisk (*) are required.' Below this is a large text area labeled '* Annotation:' with a vertical scrollbar. At the bottom of the form are 'Save' and 'Reset Form' buttons. A blue bar at the very bottom of the form is labeled 'Annotation'.

Research Products



- Log in to PREDICT
- You will see the following menu items:
 - IssueTracker
 - Dataset Catalog Access
 - **Research Products**
 - Account Request
 - Reports
 - MessageCenter
 - My Account

Research Products – Submission Form

- Choose **Research Products** -> **Submit Research Product**
- **View existing** research products by **type**
- **Add** new Research Product
- Associate the Research Product with a **dataset request**
- Provide a **title** for the product
- Specify the product **type**
- Indicate the product **sensitivity**
- Upload the product to **PREDICT**
- Click **Submit**

The screenshot shows a web browser window titled "Submit Research Product - Microsoft Internet Explorer". The address bar shows the URL "https://www.predict.org/Default.aspx?tabid=168". The page content includes a navigation menu with links for "Home", "IssueTracker*", "Dataset Catalog Access**", "Research Products*", "Account Request", "Reports*", "MessageCenter", and "My Account". The main heading is "Submit Research Product".

Under "Existing Research Products:", there is a "Type:" dropdown menu set to "All". Below this is a table with columns "File", "Date", "Type", and "Title". The table is currently empty.

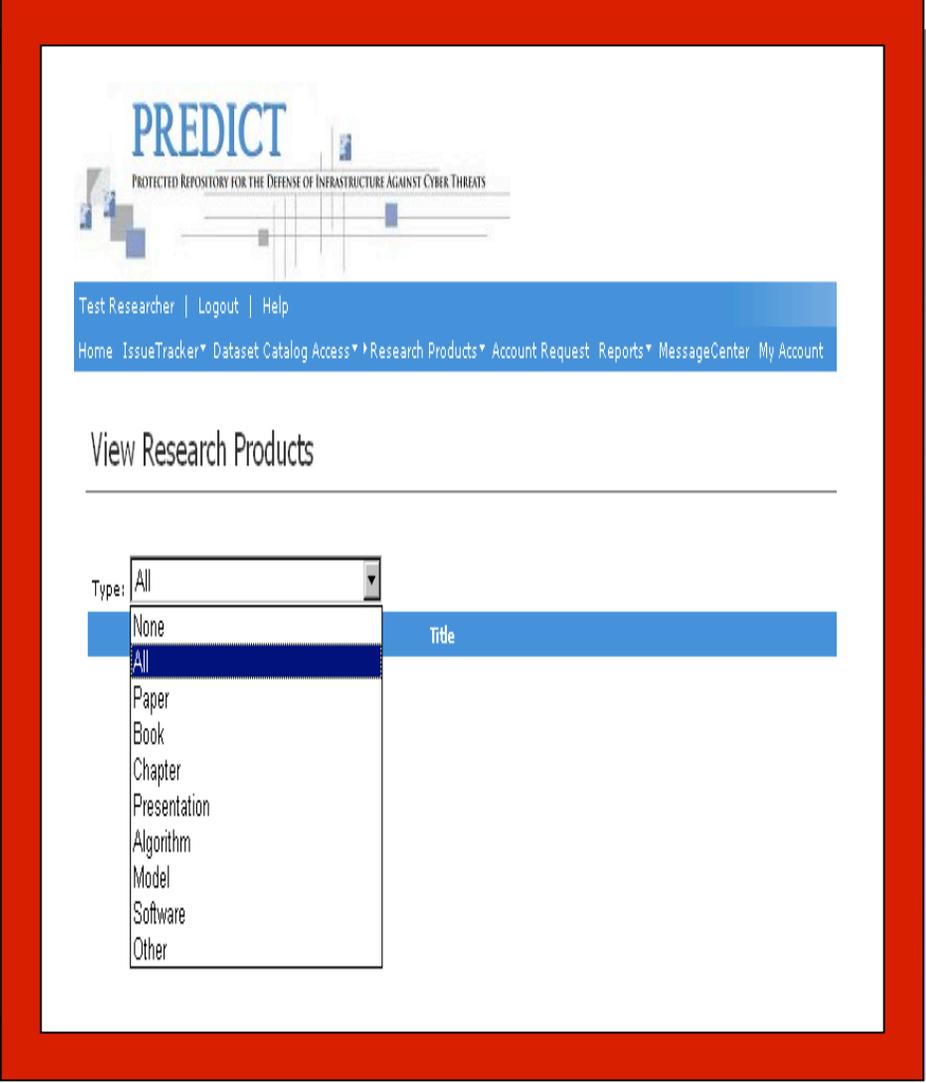
Under "New Research Product:", there are several input fields and dropdown menus:

- "Associated Dataset Request" (dropdown menu)
- "Title" (text input field)
- "Description" (text area)
- "Type" (dropdown menu, currently set to "Paper")
- "Sensitivity" (dropdown menu, currently set to "No Restriction")
- "Product File" (text input field) with a "Browse..." button next to it.

At the bottom of the form are "Submit" and "Reset Form" buttons. The footer of the page contains copyright information: "Copyright 2002-2005 RTI International. All rights reserved. | Terms Of Use | Privacy Statement | Contact Us".

Research Products – View

- Choose **Research Products -> View Research Products**
- Specify the **type** of product or **'All'**
- The **list** of research products by type specified are displayed



The screenshot displays the PREDICT web application interface. At the top, the logo reads "PREDICT" with the tagline "PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS". Below the logo is a navigation bar with links for "Test Researcher", "Logout", and "Help". A secondary navigation bar contains links for "Home", "IssueTracker", "Dataset Catalog Access", "Research Products", "Account Request", "Reports", "MessageCenter", and "My Account". The main content area is titled "View Research Products". Below this title is a "Type:" dropdown menu currently set to "All". The dropdown menu is open, showing a list of options: "None", "All", "Paper", "Book", "Chapter", "Presentation", "Algorithm", "Model", "Software", and "Other". To the right of the dropdown menu, a blue header bar for a table is visible, with the word "Title" partially shown.

IssueTracker

IssueTracker is the work-flow management tool used to track:

- **Account Requests**
- **Dataset Requests**
- **Research Product Submissions**

Feedback

**Use the IssueTracker Feedback Tab to provide input on
PREDICT system and processes**



Feedback – List

Choose Issue Tracker -> Feedback

- To see a **listing** of feedback items you have created.
- To view the **status** of items previously submitted.
- To create a **new** feedback item.

The screenshot displays the PREDICT IssueTracker web application. The header includes the PREDICT logo and the tagline "PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS". Below the header is a navigation bar with links for "Test Researcher", "Logout", and "Help". The main content area is titled "IssueTracker" and contains a sub-section for "Feedback". A "Create New Issue" button is visible. Below the button are search filters: "View Issues: Relevant to You in Feedback", "Priority: All", "Milestone: Pending", and "Category: All". A table lists the feedback items with columns for ID, Issue (click title to view details), Category, Needed By Milestone, Priority, Assigned, Creator, and Owner. The first row shows ID 1599, Issue "This is a test bug report - no action necessary", Category "Comment", Needed By Milestone "9/23/2005", Priority "Initiated", Assigned "low", Creator "Renee Karlsen", and Owner "Test Researcher". A "Select Columns" link and a note "(Sort the results by clicking the column headings)" are also present.

ID	Issue (click title to view details)	Category	Needed By Milestone	Priority	Assigned	Creator	Owner
1599	This is a test bug report - no action necessary	Comment	9/23/2005	Initiated	low	Renee Karlsen	Test Researcher

Feedback – Form

- Click **Create New Issue**
- Input a **Title** that summarizes the issue you are reporting
- Select **Category**
- Enter a **Comment**
- Click **Save**

The screenshot shows a web form titled "Project Feedback" with a red border. At the top right are "Print", "Save", and "Cancel" buttons. The form fields are as follows:

- Title:** "This is a test bug report - no action necessary"
- Category:** "Comment" (dropdown menu)
- Date Created:** "Friday, September 23, 2005 11:06 AM"
- Assigned To:** "Renee Karlson" (dropdown menu)
- Owned By:** "Randy Lucas" (dropdown menu)
- Priority:** "low" (dropdown menu)
- Created By:** (empty field)
- Milestone:** "Initiated" (dropdown menu)
- Needed By:** "09/23/2005" (calendar icon) and "Export to Calendar" (checkbox, checked)
- Level of Effort:** "0" (input field)

Below the form fields are tabs for "Comments", "History", "Notifications", "Sub Issues", "Parent Issues", and "Related Issues". The "Comments" tab is active, showing a rich text editor for "Current Comments" (which is empty) and a "New Comment" section with a rich text editor containing the text "I am just testing the feedback mechanism."

Application Review - List

Choose Issue Tracker -> Application Review

- To see a **listing** of your dataset requests
- To view the **status** of your dataset requests
- To **respond to comments** from the ARB regarding your dataset requests

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Test Researcher | Logout | Help

Home | IssueTracker | Dataset Catalog Access | Research Products | Account Request | Reports | MessageCenter | My Account

IssueTracker

Issues

Application Review

Create New Issue

View Issues: Relevant to You in Application Review

Priority: All Milestone: Pending Category: All

ID	Issue (click title to view details)	Category	Needed By Milestone	Priority Assigned	Creator	Owner
1593	1592 - Dataset Request MOA for netflow-site1	MOA	10/24/2005 Dataset Request - MOA Received	medium Renee Karlsen	Test Researcher	Randy Lucas
1592	1592 - netflow-site1	Dataset Access Request	11/3/2005 Dataset Request - Released to committee	medium Renee Karlsen	Test Researcher	Randy Lucas

< >

Select Columns (Sort the results by clicking the column headings)

Application Review – Form

- Click on the **title** of an issue to access the update form
- **View** the status and comments
- Enter a **Comment**
- Click **Save**

The screenshot shows a web-based form titled "Project Application Review" for "Issue 1593". At the top right are buttons for "Print", "Save", and "Cancel". The form fields are as follows:

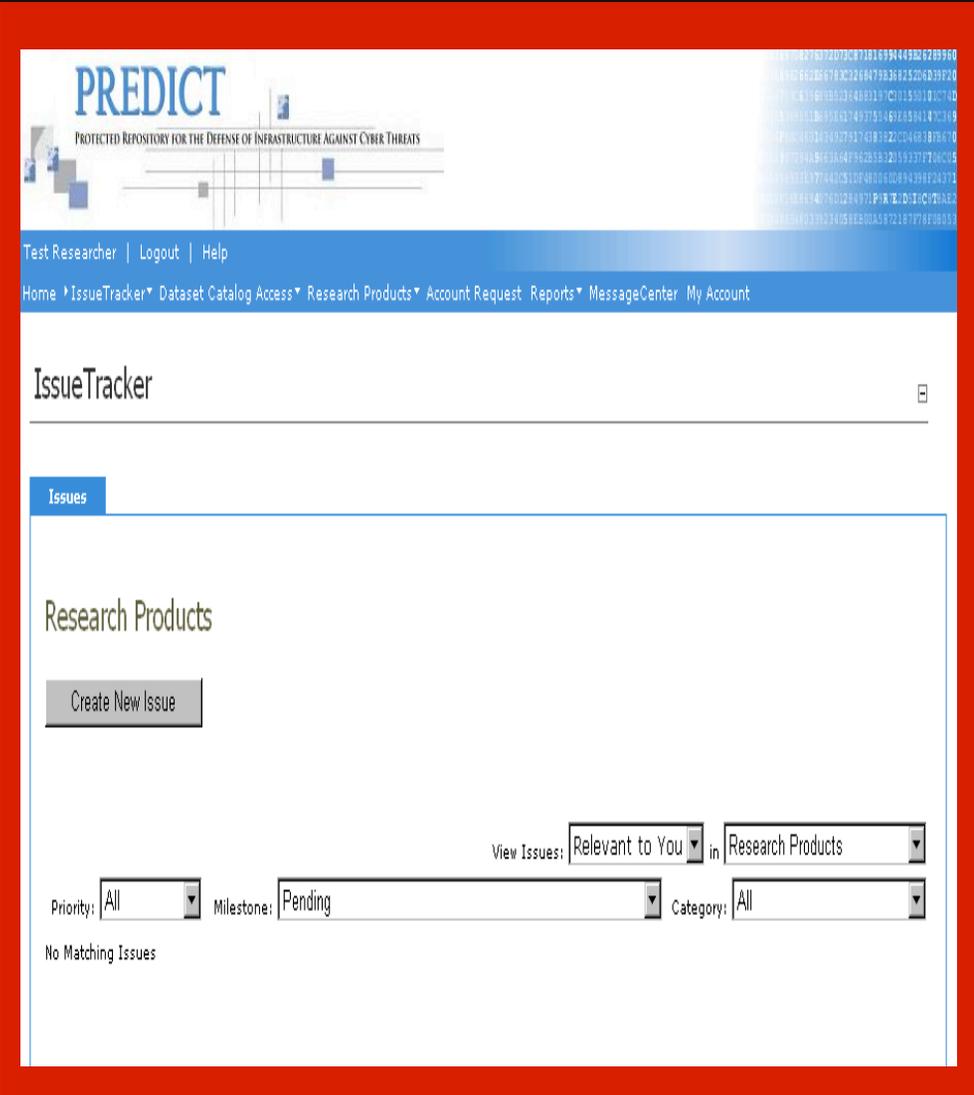
- Title:** 1592 - Dataset Request MOA for netflow-site1
- Category:** MOA (dropdown)
- Date Created:** Monday, September 19, 2005 10:39 AM
- Assigned To:** Renee Karlisen (dropdown)
- Owned By:** Randy Lucas (dropdown)
- Priority:** medium (dropdown)
- Created By:** Test Researcher
- Milestone:** Dataset Request - MOA Received (dropdown)
- Needed By:** 10/24/2005 (calendar icon) Export to Calendar
- Level of Effort:** 0

Below the form fields are tabs for "Comments", "History", "Notifications", "Sub Issues", "Parent Issues", and "Related Issues". The "Comments" tab is active, showing a "Current Comments" section with a rich text editor toolbar and a comment by Renee Karlisen from Monday, September 19, 2005 2:19 PM, stating "This is a test case for the research products." Below this is a "New Comment" section with another rich text editor toolbar and an empty text area.

Research Product - List

Choose Issue Tracker -> Research Products

- To see a **listing** of your research product submissions
- To view the **status** of your product submissions
- To **respond to comments** from the PRB regarding your submissions



The screenshot displays the PREDICT IssueTracker web application. At the top, the PREDICT logo is visible, along with the tagline "PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS". Below the logo, there is a navigation bar with links for "Test Researcher", "Logout", and "Help". A breadcrumb trail shows the current path: "Home > IssueTracker > Dataset Catalog Access > Research Products > Account Request > Reports > MessageCenter > My Account".

The main content area is titled "IssueTracker" and features a sub-section for "Research Products". A "Create New Issue" button is prominently displayed. Below this, there are several filter options: "View Issues: Relevant to You in Research Products", "Priority: All", "Milestone: Pending", and "Category: All". The interface currently shows "No Matching Issues".

Reference Documents

- Application Process FAQ
- Researcher Procedure
- Application Review Board Overview
- Application Review Procedure
- PREDICT Overview

The screenshot displays the PREDICT web application interface. At the top, the PREDICT logo is visible with the tagline "PROTECTED REPOSITORY FOR THE DEFENSE OF INFRASTRUCTURE AGAINST CYBER THREATS". Below the logo is a navigation bar with links for "Test Researcher", "Logout", and "Help". A secondary navigation bar includes "Home", "IssueTracker", "Dataset Catalog Access", "Research Products", "Account Request", "Reports", "MessageCenter", and "My Account".

The main content area is divided into three sections:

- Message Count:** A sidebar section showing "Private Messages" with "0 Unread Messages" and "0 Read Messages".
- Welcome to the PREDICT community:** A central message stating: "We value your membership and appreciate any feedback you may have to improve the PREDICT Coordinating Center. Using the links above, navigate to the meta-data catalog of available datasets. Review the catalog listings to determine the most applicable dataset for your research. Information on the type of data, time frame for the data snapshot, requirements and restrictions for using the data, as well as criteria for transmission are provided for each dataset."
- Info & FAQs:** A sidebar section containing a list of links: "Application Process FAQ", "Researcher Procedure", "Application Review Board Overview", "Application Review Procedure", and "PREDICT Overview".

PCC Contact Information

At any time that you have questions or comments you can send email to

PREDICT-CONTACT@publistsrv.rti.org

This mailbox is monitored by three PCC staff. You will receive a response to most inquiries within 24 hours.

Thank you!

Thanks for your participation in

PREDICT