PREDICT  
Portal Evolution and System Testing

# PREDICT Portal Evolution

Since the launch of the PREDICT portal in March 2008 we have had three major refinements of functionality that automated data collection processes and increased efficiency of the work flow. , which is excerpted from the PREDICT baseline tracking matrix, shows the dates and system versions of these changes.

Table : PREDICT Timeline of New Releases.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date** | **Baseline** | **Event** | **DNN Framework** | **.NET** | **System** |
| 12/6/04 | Predict v1.0 | Pilot system |  |  |  |
| 3/5/08 | Predict v2.0 | Launch | v2.1.2 | v1.1 | v2.1.3 |
| 2/25/09 | Predict v3.0 | Upgrade | v4.7.0 | v2.0 | v3.0 |
| 11/2009 | Predict v3.1 | Upgrade | v4.7.0 | v2.0 | v3.1 |
| 1/27/10 | Predict v4.0 | Upgrade | v5.1.x | v3.5 | v4.0 |

## Web Site

The main enhancement to data collection via web pages is that the three pages originally used to add a dataset (DHS Form 10030) and update data provider and host information (DHS Forms 10033 and 10034, respectively) were consolidated into one form, the My Datasets Page (DHS Form 10033 – requested by DHS Forms Management Office to utilize 1 of the 3 existing form numbers for the new consolidated form). The information collected on these pages was not changed but the ease of use was greatly increased.

Also, the proposed Annotate Dataset form (DHS Form 10031), which was never implemented, was officially deprecated from the requirements. There are no plans to implement this form.

## Legal Documents

The main legal documents, which are sent to PREDICT Portal users via system emails, have been updated since the launch but the information collected (signature and contact information) remains unchanged.

Original legal documents delivered by the system include Sponsorship and Authorization letters associated with account requests, a Memorandum of Agreement (MOA) associated with a dataset request and MOAs associated with the roles of data provider and data host.

In version 4.x, we will be adding extension requests, MOA amendment and a data destruction certificate.

shows the web site and legal data collection artifacts and their changed status for renewal.

Table : PREDICT Data Collection Artifacts.

| **Form** | **Current Number (expires 8/31/2010)** | **Status for Renewal** | **Artifact** |
| --- | --- | --- | --- |
| Account Request Form | DHS Form 10029 (12/07) | active | Web page |
| Add a New Dataset Form | DHS Form 10030 (12/07) | deprecated | Web page |
| Annotate Dataset Form | DHS Form 10031 (12/07) | deprecated | Web page |
| Request a Dataset Form | DHS Form 10032 (12/07) | active | Web page |
| Update Host Data Form | DHS Form 10033 (12/07) | deprecated | Web page |
| Update Provider Data Form | DHS Form 10034 (12/07) | deprecated | Web page |
| My Datasets Page (contains forms) | DHS Form 10033 (12/07) | consolidation of previously approved 10030, 10033,10034 | Web page |
| Memorandum of Agreement PREDICT (PCC) Coordinating Center and Researcher/User | DHS Form 10035 (12/07) | active | PDF |
| Memorandum of Agreement PCC and Data Provider (DP) | DHS Form 10036 (12/07) | active | PDF |
| Memorandum of Agreement PCC and Data Host (DH) | DHS Form 10037 (12/07) | active | PDF |
| Authorization Letter for Data Host | DHS Form 10038 (12/07) | active | PDF |
| Authorization Letter for Data Provider | DHS Form 10039 (12/07) | active | PDF |
| Sponsorship Letter | DHS Form 10040 (12/07) | active | PDF |
| Notice of Dataset Access/Application Expiration | DHS Form 10041 (12/07) | New in v4.x; did not exist before then | PDF |
| Certificate of Data Destruction to be used for the collection of information | DHS Form 10042 (12/07) | New in v4.x; did not exist before then | PDF |
| Notice of Amendment to R-MOA | DHS Form 10060  (04/10) | New in v4.x; did not exist before then | PDF |
| Notice of Data Access Expiration | DHS Form 10061  (04/10) | New in v4.x; did not exist before then | PDF |

# PREDICT Testing

All changes to the PREDICT system are fully tested before release to the production website. Testing is performed under a defined System Development Life Cycle for the project (PSP 09303-013), which requires a test plan, test scripts and test summary report for all releases. In addition, these changes were tested by the PREDICT program PIs to evaluate the usability and effectiveness of the updates.

The website also undergoes thorough testing for compliance with Section 508 (29 U.S.C. ‘794d) of the Rehabilitation Act of 1998.

Testing records include a traceability matrix that maps each requirement to the design specification and the test cases designed to verify it has been built. shows an excerpt of the matrix for the Website changes associated with forms 10030, 10033 and 10034.

Table : PREDICT Traceability Matrix Excerpt.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | Requirements | | Design | | Testing |
| Date Added | Requirement | Ver | Functional Area | Functional Req | Doc Section | User Action | Test Case | |
| 2/11/08 | A data provider page will display dataset details and associated providers, in addition to start and expiration dates for data requests. | 3.0 | 3.2.6 | PR5 | 2.4 |  | DPT\_TS1\_TC1\_Provider DPT\_TS1\_TC2\_Provider DPT\_TS1\_TC3\_Provider DPT\_TS1\_TC4\_Provider DPT\_TS1\_TC5\_Provider | |
| 2/11/08 | A data host page will display details associated with hosts, including a listing of researchers who have been approved for data transfers from each host. | 3.0 | 3.2.6 | PR6 | 2.5 |  | DHT\_TS1\_TC1\_Host DHT\_TS1\_TC2\_Host | |
| 2/11/08 | A Bulk Upload page will display a summary page that lists details for the uploaded file. | 3.0 | 3.2.6 | PR7 | 3 | 3.2 | DS\_TS1\_TC1\_Provider DS\_TS1\_TC2\_Provider DS\_TS1\_TC3\_Provider DS\_TS1\_TC4\_Provider DS\_TS1\_TC5\_Provider | |
| 2/11/08 | The Bulk Upload page will add a “self-hosted” field to upload schema to note that the provider who uploads a dataset also wishes to host it. | 3.0 | 3.2.6 | PR8 | 3 | 3.5 | DS\_TS1\_TC1\_Provider | |