

Appendix A

PRAMS Integrated Data Collection System (PIDS) Overview

CDC began developing the PRAMS Integrated Data Collection System (PIDS) in 2011. CDC PRAMS entered into a multiple phase project of documenting requirements, identifying a contract vendor, and developing and testing the new system with CDC PRAMS and state input. The PIDS system integrates two different Commercial Over the Shelf (COTS) packages; SugarCRM and IBM SPSS Data Collection. The company Science Application International Corporation (SAIC), later named Leidos was awarded the contract to develop the single integrated software solution for PRAMS. PIDS combines all aspects of the PRAMS data collection process into a single web-based system. Functions include management of contact information, data entry, phone data collection, and a web data collection component. It replaces the previous independent PRAMS software systems that were used for data collection up until 2012; these systems were PRAMTrac (tracking contact information), QDS (data entry), WebCATI (phone data collection), Comment (records mom's miscellaneous comments) and AdHoc (reporting program). Additionally, the SDN (Secure Data Network) and FTP (File Transport Protocol) have been replaced by SAMS (Secure Access Management System).

A goal for PIDS is to add the capability to allow for technological advances and adaptations of the PRAMS surveillance system in the future. For example, the system will have the capability to employ web surveys, in addition to the existing Mail and Phone capture modes. PIDS uses a centralized and integrated data repository that is housed at CDC, at CDC's Mid-tier Data Center, which is a highly secure environment. This centralized approach has many benefits including:

- Data encryption – provides increased data security.
- Role based security - only appropriate state users will have access to data.
- Integrated platform - survey response data does not have to be sent to CDC. See the Data Management (section six) for a more detailed explanation of sharing data with the CDC.
- Mid-tier Data Center - central data back-ups freeing the states from this task.

PIDS is also an integrated system, meaning that the various components have been designed and programmed to communicate status and share data. The benefits of this approach include:

- PIDS automatically updates the Mom status based on real-time information as she takes a survey from any of the three modes. This is especially relevant for Web surveys.
- PIDS is primarily a browser based solution, which means that the states don't have to perform software installations and upgrades (see list of requirements).
- States will find it easier to monitor batches as the solution will have dashboards, alerts and reports.

PIDS deployment began in November of 2012 and continued through February 2014 when all PRAMS sites were approved to conduct live operations through PIDS.