Alerta Joven ICT System Release Notes

(Version 1.0.0)

# Overview

Alerta Joven, is an initiative that promotes opportunities for Dominican At- Risk Youth. Alerta Joven gives youth a chance to discover their talents, to regain their lives and be productive people who contribute positively to our society. The Information and Communication Technology group at RTI designed and implement the Alerta Joven database, web site and reporting to support this initiative. To learn more about the project visit the official web site at <www.alertajoven.com>.

# Components

For more details about the system components refer to the ArchitectureGuide.docx. The following components were implemented.

* Database
* Web site
* Providers, programs, activities management
* Extract, Transform, Load (ETL) programs
* Reporting
* Utilities

# Features

This section list the features that have been released. It’s important to note that all user accessible components are role-based. For example, Program Evaluators can access data for all providers, however users with role Provider Manager, Case Manager or Data Entry can only access data belonging to their organizations.

## Database

The following data entry forms were implemented for data entry. The forms were implemented using CouchDB database and JavaScript.

* Participants entry form
* Survey entry form
* Participants list with actions
* Exit form
* Participants activity form
* Most at Risk Participants (MARP) form
* Participants and surveys export to CSV

## Web Site

* The pages under Database menu
* User roles and roles-based access
* Providers drop down list for user
* Drupal modules to integrate CouchDB-based entry forms

## Providers, Programs and Activities Management

These feature were implemented on Drupal-based web site using the Drupal entity module. The management actions include add/delete/update and view entities. The management of the following entities have been implemented:

* Providers/organizations
* Programs
* Activities/services
* Program names
* Activity types
* Users

## Extract, Transform and Load (ETL)

For the reporting component the data from CouchDB had to be integrated with provider/programs/activities data stored into Drupal MySQL database. For the data integration between the CouchDB and the Drupal MySQL databases the following Drupal modules have been implemented and run nightly as scheduled Drupal jobs (cron jobs):

* Activities attendees loading module
* Participants exit data loading module
* Registrations loading module
* Surveys loading module
* Error and messages log module (used by all other loading modules)

## Reporting

Flexible, easily extendable and low-cost reporting solution has been implemented by using Forena Drupal module. All reports might be exported to CSV or PDF files. Note, complex sql queries have been built to generate these reports. The following reports have been released:

* Intake Report
* Overdue Intake Report
* Risk Screening Report
* Active Participants Report by Provider
* Active Participants Report by Provider and Barrio/Comunidad
* Services by Program
* Program unique Participants
* Participants Health Services Received

## Utilities

For data cleaning and automated data entry requests the following utilities have been released:

* Clean duplicate registrations
* Clean duplicate survey
* Incomplete to complete registrations conversion
* Incomplete to complete surveys conversion
* Create participants from a CSV input file
* Assign participants to activities from a CSV input file
* Process incomplete registrations from input a CSV file
* Updating documents based on corrections from an Excel spreadsheet

# Enhancements

* Re-designed the database export component to resolve the performance issues. Developed registrations and surveys Drupal cron modules to export role-based CouchDB data nightly. This allows instant role-based access.
* Added the participant date of birth to Participants Health Services Received report
* Added export to CSV capability to the Participants Health Services Received
* MARP ETL Drupal module was implemented to integrate MARP data from CouchDB to Drupal MySQL database.

# Fixes

* Fixed problem with ETL modules when processing forms with future data. When finding entities like that the loading modules stopped the processing and thus did not import all data. To fix that we added check for future date.
* Fixed an issue into the “Services by Program” report where the database query was assuming the service name is unique and was generating inconsistent data.

# Known Issues and Problems

None