TEAM C8TEK

Submission Overview
April 17, 2017

Submission Overview

The **TeamCBTek_Submission.zip** archive contains the following items:

Item	Description
rstats_binary	RAT-STATS executable files
rstats_source	C++ source code
rstats_help	Additional PDF documents
rstats_overview.pdf	This document

Binary Folder Description

- RAT-STATS 2017 implements a "micro-service" approach to developing the four target RAT-STATS functions. As a result the binary folder contains multiple executables, each representing a distinct isolated piece of functionality. This differs from RAT-STATS 2007/2010 "monolithic" approach which puts all functionalities into a single executable. This is explained further in the **rstats_development.pdf** document.

Binary Folder Contents

The other files in this folder are for support and configuration of the above modules

Name	Executable File
RAT-STATS Main Menu	rstats.exe
Single Stage Random Number function	module_rn_single_stage_random_numbers.exe
Unrestricted Attribute Appraisal function	module_aa_unrestricted.exe
Stratified Variable Appraisal function	module_va_stratified.exe
Unrestricted Variable Appraisal function	module_va_unrestricted.exe

Source Folder Description

- RAT-STATS 2017 was created with C++ utilizing the QtSDK for its user interface and CMake as the build system. All primary dependencies are embedded in the source code and are provided by TeamCBTek.

- Please see the "**rstats_development.pdf**" document for a step by step guide on building RAT-STATS.

Source Folder Contents

Item	Description
CMakeLists.txt	Primary (top-level) CMake project configuration for all source code
common	Folder containing source code for support libraries used by RAT-STATS
products	Folder containing source code for all applications related to RAT-STATS
cmake	Support modules for CMakeLists.txt that provide build options and flags for RAT-STATS

Source Folder Contents (cont.)

The products/RAT-STATS folder contains all source code projects related to RAT-STATS development

Item	Description
CMakeLists.txt	CMakeLists project that imports in the sub-projects below
rstats_config	Contains template settings that are deployed with RAT-STATS
rstats_contrib	Contains third-party executables that are used by RAT-STATS. Please see "**rstats_contrib.pdf**" for more information.
rstats_launcher	This program is used by rstats_main to show output during launch.
rstats_main	The main menu for RAT-STATS
rstats_modules	This folder contains the source code for all 4 functions required
rstats_resx	Resource files (images, themes, etc) that are used throughout RAT-STATS
rstats_ui	This project holds all utilities/ commonly used interfaces that require access to the QtSDK libraries.
rstats_utils	This project holds all utilities that do not require access to the QtSDK libraries.

Help Folder Description

- The help folder contains additional documentation for building, running and extending RAT-STATS 2017.

Help Folder Contents

The products/RAT-STATS folder contains all source code projects related to RAT-STATS development

Item	Description
rstats_development.pdf	Step-by-Step guide for setting up a development environment for RAT-STATS 2017.
rstats_contrib.pdf	Explains both internal and external libraries/executables used with RAT-STATS.
rstats_pal_code.pdf	Further description of project layout.
rstats_module_extensions.pdf	Explains how to use both internal/external modules for extended RAT-STATS 2017