**Automated SSS Standardization**

**Evaluation & Test Tool (ASSETT)**

**User’s Manual**

**Summary**

Test procedures written in Word struggle to be updated timely and efficiently. This has led many procedure documents containing inputs, requirements, and expected outputs to be loosely connected by their System/Subsystem Specification (SSS). The Automated SSS Standardization Evaluation and Test Tool (ASSETT) aims to be an asset to testers, allowing them to standardize and compile testing criteria by TVM candidates and production SSDD requirements into one guiding chart.

**Procedure**

1. **Initial Setup**
   1. Retrieve ASSETT DVD from CM.
   2. Move ASSETT\_1.0.zip folder containing ASSETT.exe, MyAppInstaller\_mcr, readme, and splash to preferred location.
   3. Open MyAppInstaller\_mcr.exe and download the necessary MATLAB Runtime Compiler
      1. NOTE: Skip this step if you already have it downloaded. Check by looking for This PC -> Windows (C:) -> Program Files -> MATLAB -> MATLAB Runtime -> R2023a.
      2. An admin’s authorization is required for this step.
      3. NOTE: Admin may have to unblock the executable. Right click on the file -> Properties -> General -> Security -> Check Unblock.
2. **Files Setup**
   1. Make copies of procedures in Word.
   2. Remove comments from copied procedures.
      1. Review -> Delete -> Delete ALL Comments In Document
   3. Create a new Excel Workbook with column titles: “SSS” and “Requirement”.
   4. Copy and paste without formatting data from uncommented procedure.
      1. NOTE: Make sure cells are fully highlighted and other information is not selected.
      2. Ctrl + C -> Ctrl + Shift + V
   5. Save as “Requirements-FileName.xlsx” (Update FileName with your file name) in folder with ASSETT.exe.
   6. Create a new Excel Workbook with column titles: “Step”, “Station”, “Inputs”, “Expected Output”, and “SSS”.
   7. Copy and paste without formatting data from uncommented procedure.
      1. NOTE: Make sure cells are fully highlighted and other information is not selected.
      2. Ctrl + C -> Ctrl + Shift + V
   8. Save as “Outputs-FileName.xlsx” (Update FileName with your file name) in folder with ASSETT.exe.

**Steps i - l are optional:**

* 1. Make a local copy of the TCC-TVM workbook.
     1. Right click on the TVM sheet.
     2. Select Move or Copy.
     3. Select (new Book).
     4. Check create a copy.
     5. NOTE: Confirm that the production requirement column contains the keyword “Production”.
  2. Save new workbook as “TVM-FileName.xlsx” (Update FileName with your file name) in folder with ASSETT.exe.
  3. Create a new Excel Workbook and fill with copied SSDD data
     1. Ctrl + A in the SSDD sheet of the SSDD.xlsm
     2. Ctrl + Select row 1 to deselect it
     3. Ctrl + C -> Ctrl + V into new workbook
  4. Save new workbook as “SSDD-FileName.xlsx” (Update FileName with your file name) in folder with ASSETT.exe.

1. **Running ASSETT**
   1. Place all requirements, outputs, and optional files into the ASSETT folder.
   2. Open ASSETT.exe
      1. NOTE: The executable needs to be trusted the first time. Right click on the file -> Properties -> General -> Security -> Check Unblock.
   3. Select SSS type.
   4. Click Start.
   5. Click the Next button to continue.
   6. For each SSS and corresponding requirement enter the row number with the best expected output or enter your own expected output.
   7. Click the Next button to continue.
   8. Click the Save button to save all expected output changes.
   9. Click the Clear button to restart application.
      1. NOTE: Only after completing all SSSs for the select type will the master key be created.
2. **Review Data**
   1. Standardized files for requirements, outputs, and a master key will be saved in a folder marked by the timestamp.
   2. If there was an error matching the SSS, you will receive an error message.
      1. Fix the mismatching SSS in the requirements or outputs standardized spreadsheets.
   3. Program can be run again with saved files, new files, or a combination of both.