Traceability Matrix

# Traceability Matrix: mrgmisc 0.1.0

## Scope

This Traceability Matrix links test results to specific user stories for the proposed software release. User stories, including requirements and test specifications, are listed in the Requirements Specification.

## Traceability Matrix

| **User Story ID** | **User Story** | **Test ID** |
| --- | --- | --- |
| ASNM-S001 | As a user, I want to be able to read and write control files for NONMEM. | MRG-ASNM-001 MRG-ASNM-002 |
| AUCI-S002 | As a user, I want to calculate the area under the curve across an infinite range. | MRG-AUCI-001 MRG-AUCI-002 MRG-AUCI-003 |
| AUCP-S001 | As a user, I want to perform a simple area under the curve calculation over a discrete range. | MRG-AUCP-001 |
| CHNK-S001 | As a user, I want to group elements in vectors and lists with easily customizable grouping rules. | MRG-CHNK-001 MRG-CHNK-002 MRG-CHNK-003 |
| CKDF-S001 | As a user, I want to create easily customizable groups within a dataframe. | MRG-CKDF-001 MRG-CKDF-002 |
| CPNM-S001 | As a user, I want to easily capitalize the column names of my tibble. | MRG-CPNM-001 |
| IDPL-S001 | As a user, I want to split IDs within a data set into appropriate groups for subplots. | MRG-IDPL-001 |
| MMAX-S001 | As a user, I want to find the maximum value found up to each index of the input. | MRG-MMAX-002 MRG-MMAX-003 |
| MMIN-S001 | As a user, I want to find the minimum value found up to each index of the input. | MRG-MMAX-001 MRG-MMAX-003 |
| NASM-S001 | As a user, I want to quickly find the total number of NA values in each column. | MRG-NASM-001 |
| ORBI-S001 | As a user, I want to expand a single column to the appropriate number of binary flag columns. | MRG-ORBI-001 MRG-ORBI-002 |
| PADL-S001 | As a user, I want to add a customizable prefix to every element in a vector. | MRG-PADL-001 |
| POOL-S001 | As a user, I want to determine which elements are shared or unique between two vectors. | MRG-POOL-001 |
| PRNS-S001 | As a user, I want to add parenthesis to a given element. | MRG-PRNS-001 |
| PSMT-S001 | As a user, I want to coerce a matrix to be positive definite. | MRG-PSMT-001 MRG-PSMT-002 |
| RDOT-S001 | As a user, I want to easily convert dots in a vector to NA. | MRG-RDOT-001 MRG-RDOT-002 |
| RESM-S001 | As a user, I want to resample a dataframe with determined stratifications in the data. | MRG-RESM-001 MRG-RESM-002 MRG-RESM-003 |
| SBDF-S001 | As a user, I want to create bins for data frame columns with optionally customizable bin ranges. | MRG-SBDF-001 MRG-SBDF-002 MRG-SBDF-003 MRG-SBDF-004 MRG-SBDF-005 MRG-SBDF-006 |
| SNAP-S001 | As a user, I want to coerce values to nearest of given candidates. | MRG-SNAP-001 |
| SPAC-S001 | As a user, I want to easily summarize any given quantile. | MRG-SPAC-001 |
| SQUN-S001 | As a user, I want to summarize any quantile from a column in a data frame. | MRG-SQUN-001 MRG-SQUN-002 |
| STBN-S001 | As a user, I want to create bins from a column of data with optionally customizable bin ranges. | MRG-STBN-001 MRG-STBN-002 MRG-STBN-003 MRG-STBN-004 MRG-STBN-005 |
| WRNM-S001 | As a user, I want to be able to create csv files that are compatible with NONMEM. | MRG-WRNM-001 MRG-WRNM-002 |

## Signature Page:

**Authored by:**

**Reviewed by:**

**Quality Assurance Approved by:**