

# Arkansas APCD Data Validation Dependency Check Reporting Instructions

This document illustrates how to read the data validation summary report for fields with dependency checks. The fields MC036 and MC018 are used for examples.

## Example 1: MC036 – Type of Bill – institution

| Data Element ID | Data Element                 | Description  | Type    | Format | Length | Threshold           |
|-----------------|------------------------------|--|---------|--------|--------|---------------------|
| MC036           | Type of Bill - Institutional | Bill type for institutional claims. Set to blank for professional claims | Integer | Char   | 3      | 100% if MC094 = 002 |

File Quantity: 159,232

| Report Heading  | Value    | Description  |
|---|----------|--|
| <b>Data Type Failures</b>   | 7        | This quantity represents the unique number of records from the <b>Total Records For Calculation (55,675)</b> that failed because of a data type error. In this example, the value is required to be 3 byte integer. The values in 7 records contained the letter X. Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive.  |
| <b>Data Length Failures</b>   | 0        | This quantity represents the unique number of records from the <b>Total Records For Calculation (55,675)</b> that failed because of data length issues. No records failed because of the length of the data values. Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive.  |
| <b>Data Value Failures</b>  | 3791     | This quantity represents the unique number of records from the <b>Total Records For Calculation (55,675)</b> that failed because of data value issues. Of this quantity, all failed because the values were not on the Bill Type lookup table (including 3784 records with values that were formatted correctly but were not on the Bill Type look-up table and 7 that contained the character X). Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive. |
| <b>Did not meet Dependency Check Criteria (Dependency Check Failures)</b> | 103,587  | This quantity represents the unique number of records that did not meet dependency check criteria. In other words, MC094 <> 002. It could have been 001, 003, null or blank.   |
| <b>Dependency Flag</b>  | TRUE     | This flag is set if the column has a dependency check per the Arkansas APCD DSG.   |
| <b>Failed Dependency Non Empty</b>  | 0        | This quantity represents the unique number of records that did not have a dependency check (MC094 <> 002) but contained data in MC036. MC036 should only be populated when MC094 = 002. Had MC036 been populated and MC094 <> 002, the quantity in this column would be incremented for each occurrence.   |
| <b>Optional Column Flag</b>   | Required | This column indicates if the data element was required or optional   |

## Arkansas APCD Data Validation Dependency Check Reporting Instructions

| Report Heading                       | Value  | Description  |
|--------------------------------------|--------|--|
| <b>Total Records For Calculation</b> | 55,675 | This column represents the unique number of records that met dependency check criteria and had values in the data element. This quantity represents the entire universe for calculation. Records without qualifying dependencies are not included so that the threshold calculation represents qualified data. |
| <b>Total Unique Records Failed</b>   | 3791   | The total unique number of records with correct dependency criteria but failed the data type, data length, and/or data value validation check  |
| <b>Req Threshold</b>                 | 100    | The required threshold based on the Arkansas APCD DSG after exceptions have been applied.  |
| <b>Calc Threshold</b>                | 93.19  | The threshold of the qualifying data. For this example: $55,675 - 3791 / 55,675 = 93.19$<br>If the quantity for <b>Failed Dependency Non Empty</b> > 0, Calc Threshold would be set to 0.  |
| <b>Data Validation Result</b>        | Fail   | Because the required threshold was 100 and the calculated threshold was lower, this submission file failed.  |

## Arkansas APCD Data Validation Dependency Check Reporting Instructions

### Example 2: MC018 – Admission Date

| Data Element ID | Data Element   | Description                     | Type | Format     | Length | Threshold  |
|-----------------|----------------|---------------------------------|------|------------|--------|--|
| MC018           | Admission Date | Date of the inpatient admission | Date | YYYY-MM-DD | 10     | 100% if MC036 begins with 11, 12 and MC094 = 002 |

File Quantity: 159,232

| Report Heading  | Value    | Description  |
|---|----------|--|
| <b>Data Type Failures</b>   | 0        | This quantity represents the unique number of records from the <b>Total Records For Calculation (529)</b> that failed because of a data type error. For this example, no records failed. Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive.                         |
| <b>Data Length Failures</b>   | 0        | This quantity represents the unique number of records from the <b>Total Records For Calculation (529)</b> that failed because of a data length error. For this example, no records failed. Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive.                       |
| <b>Data Value Failures</b>  | 0        | This quantity represents the unique number of records from the <b>Total Records For Calculation (529)</b> that failed because of a data value error. For this example, no records failed. Data Type Failures, Data Length Failures, and Data Value Failures are not mutually exclusive.                        |
| <b>Did not meet Dependency Check Criteria (Dependency Check Failures)</b> | 158,733  | This quantity represents the unique number of records that did not meet dependency check criteria. In other words, MC036 did not begin with 11 or 12 and/or MC094 <> 002.  |
| <b>Dependency Flag</b>  | TRUE     | This flag is set if the column has a dependency check per the Arkansas APCD DSG.   |
| <b>Failed Dependency Non Empty</b>  | 158,733  | This quantity represents the unique number of records that did not have a dependency check (MC036 did not begin with 11 or 12 and/or MC094 <> 002) but contained data in MC018. MC018 should only be populated when MC036 begins with 11 or 12 and MC094 = 002.  |
| <b>Optional Column Flag</b>   | Required | This column indicates if the data element was required or optional   |
| <b>Total Records For Calculation</b>                                      | 529      | This column represents the unique number of records that met dependency check criteria and had values in the data element. This quantity represents the entire universe for calculation. Records without qualifying dependencies are not included so that the threshold calculation represents qualified data. |
| <b>Total Unique Records Failed</b>  | 0        | The total unique number of records with correct dependency criteria but failed the data type, data length, and/or data value validation check  |
| <b>Req Threshold</b>  | 100      | The required threshold based on the Arkansas APCD DSG.   |
| <b>Calc Threshold</b>   | 0        | The threshold of the qualifying data. For this example: $529-0/529 = 0$ . If the quantity for <b>Failed Dependency Non Empty</b> > 0, Calc Threshold would be set to 0. The calculation result = 0 by coincidence.   |

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| Report Heading                | Value | Description   |
|-------------------------------|-------|---|
| <b>Data Validation Result</b> | Fail  | Because the required threshold was 100 and the calculated threshold was lower, this submission file failed. |