

## Contents

|   |           |
|---|-----------|
| Preface.....  | Preface-1 |
| 1. Introduction.....  | 1-1       |
| 1.1 Background and Motivation.....  | 1-1       |
| 1.2 Purpose and Scope.....  | 1-4       |
| 1.3 Reasons for Reissue.....  | 1-4       |
| 1.4 Target Audience.....  | 1-5       |
| 1.5 Structure and Use of This Document.....   | 1-5       |
| 1.6 Requirements Terminology.....   | 1-6       |
| 1.7 Requirement Labeling Conventions.....   | 1-7       |
| 1.7.1 Numbering of Requirement and Related Objects.....                                 | 1-7       |
| 1.7.2 Requirement, Conditional Requirement, and Objective Object<br>Identification..... | 1-7       |
| 2. General SPM Processing Requirements.....   | 2-1       |
| 2.1 AMADNS Overview.....  | 2-1       |
| 2.2 AMADNS Support of Specialized Processing.....                                       | 2-2       |
| 2.2.1 Pre-Processing/Preparing for SPM Pre-Processing.....                              | 2-2       |
| 2.2.2 Processing and Transfer Profiles.....   | 2-3       |
| 2.2.3 Miscellaneous.....  | 2-4       |
| 2.3 General AMADNS SPM Functional Requirements.....                                     | 2-4       |
| 2.3.1 Functionality.....  | 2-4       |
| 2.3.1.1 Record Inputting.....   | 2-4       |
| 2.3.1.2 Record Processing Environment.....  | 2-5       |
| 2.3.1.2.1 Processing Schedule.....  | 2-5       |
| 2.3.1.2.2 Data Dictionary Accessibility.....  | 2-5       |
| 2.3.1.2.3 Determination of the Format of Input<br>Records.....                          | 2-6       |
| 2.3.1.2.4 Erroneous AMA Records.....  | 2-6       |
| 2.3.1.3 Year 2000 Functionality.....  | 2-7       |
| 2.3.2 Operations.....   | 2-8       |
| 2.3.2.1 Administration of SPM-Specific Parameters.....                                  | 2-8       |
| 2.3.2.1.1 General Procedures for Administering SPM<br>Parameters.....                   | 2-8       |
| 2.3.2.1.2 SPM Audit Parameters.....   | 2-9       |
| 2.3.2.2 Auditing.....   | 2-10      |
| 2.3.2.3 Management.....   | 2-11      |
| 2.3.2.3.1 SNMP MIB Management.....  | 2-11      |
| 2.3.2.3.2 Local Alarms.....   | 2-12      |
| 2.3.2.4 Maintenance.....  | 2-13      |
| 2.3.2.5 Security.....   | 2-13      |
| 2.3.2.6 Reliability.....  | 2-13      |
| 2.3.2.7 Performance.....  | 2-14      |
| 3. SPM Data Dictionary Requirements.....  | 3-1       |

|           |  |      |
|-----------|--|------|
| 3.1       | Overview .....   | 3-1  |
| 3.2       | Data Dictionary Requirements.....                        | 3-3  |
| 3.2.1     | Structure of Format Definitions .....                    | 3-3  |
| 3.2.2     | Year 2000 Functionality .....                            | 3-5  |
| 3.3       | Administrative Interface .....                           | 3-5  |
| 4.        | Format Conversion.....                                   | 4-1  |
| 4.1       | Problem/Opportunity .....                                | 4-1  |
| 4.2       | Solution Attributes.....                                 | 4-2  |
| 4.3       | Format Conversion SPM Functional Requirements.....       | 4-3  |
| 4.3.1     | Functionality .....                                      | 4-4  |
| 4.3.1.1   | Record Processing.....                                   | 4-4  |
| 4.3.1.1.1 | Translation of the Format of the AMA<br>Record.....      | 4-4  |
| 4.3.1.1.2 | Construction of the Output Record .....                  | 4-7  |
| 4.3.1.2   | Post-Processing .....                                    | 4-7  |
| 4.3.1.2.1 | Delivery of the Output Record.....                       | 4-8  |
| 4.3.1.2.2 | Disposition of the Input Record .....                    | 4-8  |
| 4.3.2     | Operations .....   | 4-9  |
| 4.3.2.1   | Administration of Format Mappings.....                   | 4-9  |
| 4.4       | SPM Interaction Considerations .....                     | 4-10 |
| 4.4.1     | Surveillance .....                                       | 4-11 |
| 4.4.2     | Aggregation.....   | 4-11 |
| 4.4.3     | Correlation.....   | 4-11 |
| 4.4.4     | Validation.....  | 4-11 |
| 4.4.5     | Error Correction .....                                   | 4-12 |
| 4.4.6     | Expansion .....  | 4-12 |
| 4.4.7     | Reduction.....   | 4-12 |
| 4.4.8     | Formatting.....  | 4-12 |
| 5.        | Surveillance.....  | 5-1  |
| 5.1       | Problem/Opportunity .....                                | 5-1  |
| 5.2       | Solution Attributes.....                                 | 5-2  |
| 5.3       | Surveillance SPM Functional Requirements .....           | 5-4  |
| 5.3.1     | Functionality .....                                      | 5-4  |
| 5.3.1.1   | Record Processing Environment.....                       | 5-4  |
| 5.3.1.1.1 | Interpretation of the Format of the Input<br>Record..... | 5-5  |
| 5.3.1.1.2 | Sampling of Input Records.....                           | 5-5  |
| 5.3.1.2   | Record Processing.....                                   | 5-6  |
| 5.3.1.2.1 | Time Periods .....                                       | 5-8  |
| 5.3.1.2.2 | Lag Interval and Analysis Time Periods .....             | 5-9  |
| 5.3.1.2.3 | Time Zone Correction.....                                | 5-10 |
| 5.3.1.2.4 | Properties of Surveillance Analyses .....                | 5-11 |
| 5.3.1.2.5 | Selecting Input Records By Data<br>Characteristics ..... | 5-13 |
| 5.3.1.2.6 | Processing Of Selected Input Records .....               | 5-14 |
| 5.3.1.2.7 | Statistical Standards .....                              | 5-15 |

|            |  |      |
|------------|--|------|
| 5.3.1.2.8  | Determination of Applicable Statistical Standards..... | 5-17 |
| 5.3.1.2.9  | Comparison to Statistical Standard .....               | 5-17 |
| 5.3.1.3    | Post-Processing .....                                  | 5-18 |
| 5.3.1.3.1  | Delivery of the Output Record.....                     | 5-19 |
| 5.3.1.3.2  | Reporting.....   | 5-19 |
| 5.3.2      | Operations .....                                       | 5-21 |
| 5.3.2.1    | Administration of SPM-Specific Parameters .....        | 5-21 |
| 5.4        | SPM Interaction Considerations.....                    | 5-23 |
| 5.4.1      | Format Conversion.....                                 | 5-23 |
| 5.4.2      | Aggregation.....                                       | 5-24 |
| 5.4.3      | Correlation.....                                       | 5-24 |
| 5.4.4      | Validation.....  | 5-24 |
| 5.4.5      | Error Correction .....                                 | 5-24 |
| 5.4.6      | Expansion .....  | 5-25 |
| 5.4.7      | Reduction.....   | 5-25 |
| 5.4.8      | Formatting.....  | 5-25 |
| 6.         | Aggregation.....                                       | 6-1  |
| 6.1        | Problem/Opportunity .....                              | 6-2  |
| 6.2        | Solution Attributes.....                               | 6-3  |
| 6.3        | Aggregation SPM Functional Requirements.....           | 6-4  |
| 6.3.1      | Functionality .....                                    | 6-4  |
| 6.3.1.1    | Record Processing.....                                 | 6-4  |
| 6.3.1.1.1  | Interpretation of Format of an Input Record.....       | 6-5  |
| 6.3.1.1.2  | Time Periods .....                                     | 6-5  |
| 6.3.1.1.3  | Lag Interval and Grouping Periods .....                | 6-7  |
| 6.3.1.1.4  | Time Zone Correction.....                              | 6-8  |
| 6.3.1.1.5  | Grouping of Input Records by Time .....                | 6-9  |
| 6.3.1.1.6  | Properties of Aggregation Analyses.....                | 6-10 |
| 6.3.1.1.7  | Matching Input Records with Aggregation Analyses.....  | 6-12 |
| 6.3.1.1.8  | Processing of Selected Input Records: Summing.....     | 6-15 |
| 6.3.1.1.9  | Processing of Selected Input Records: Counting .....   | 6-15 |
| 6.3.1.1.10 | Processing of Selected Input Records: Mapping .....    | 6-15 |
| 6.3.1.1.11 | Scheduled and Unscheduled Closings.....                | 6-17 |
| 6.3.1.1.12 | Formatting of the Aggregate Record .....               | 6-18 |
| 6.3.1.1.13 | Input Records That Cannot Be Grouped... ..             | 6-19 |
| 6.3.1.2    | Post-Processing .....                                  | 6-20 |
| 6.3.1.2.1  | Delivery of Output Records .....                       | 6-20 |
| 6.3.1.2.2  | Aggregate Reports.....                                 | 6-21 |
| 6.3.1.2.3  | Disposition of Input Records.....                      | 6-21 |
| 6.3.1.3    | Activity Reports.....                                  | 6-22 |
| 6.3.2      | Operations .....                                       | 6-23 |

|           |  |      |
|-----------|--|------|
| 6.3.2.1   | Administration of SPM-Specific Parameters .....                | 6-24 |
| 6.3.2.2   | Performance.....   | 6-27 |
| 6.4       | SPM Interaction Considerations.....                            | 6-27 |
| 6.4.1     | Format Conversion.....   | 6-27 |
| 6.4.2     | Surveillance .....   | 6-27 |
| 6.4.3     | Correlation.....   | 6-27 |
| 6.4.4     | Error Correction .....   | 6-28 |
| 6.4.5     | Validation.....  | 6-28 |
| 6.4.6     | Expansion.....   | 6-28 |
| 6.4.7     | Reduction.....   | 6-28 |
| 6.4.8     | Formatting.....  | 6-28 |
| 7.        | Correlation.....   | 7-1  |
| 7.1       | Problem/Opportunity .....                                      | 7-1  |
| 7.2       | Solution Attributes.....                                       | 7-3  |
| 7.3       | Correlation SPM Functional Requirements.....                   | 7-4  |
| 7.3.1     | Record Inputting .....   | 7-5  |
| 7.3.2     | Record Processing Environment.....                             | 7-5  |
| 7.3.2.1   | Interpretation of the Format of an AMA Record.....             | 7-6  |
| 7.3.2.2   | Erroneous AMA Records.....                                     | 7-6  |
| 7.3.3     | Correlation Analyses .....                                     | 7-7  |
| 7.3.3.1   | Properties of a Correlation Analysis.....                      | 7-7  |
| 7.3.3.2   | Activating an Analysis.....                                    | 7-8  |
| 7.3.4     | Record Processing.....   | 7-8  |
| 7.3.4.1   | Interpreting the Generalized Correlation Key .....             | 7-9  |
| 7.3.4.2   | Creating Correlation Groupings Within An Analysis..            | 7-9  |
| 7.3.4.3   | Matching Records with Correlation Groupings.....               | 7-10 |
| 7.3.4.4   | Input Records That Cannot Be Grouped.....                      | 7-11 |
| 7.3.5     | Processing of Correlation Groupings.....                       | 7-11 |
| 7.3.5.1   | Criteria for Closing Correlation Groupings.....                | 7-12 |
| 7.3.5.2   | Determining Early Completion of Correlation<br>Groupings ..... | 7-13 |
| 7.3.5.3   | Determining the Order of Companion Records.....                | 7-14 |
| 7.3.5.4   | Creation of Output Record.....                                 | 7-14 |
| 7.3.5.4.1 | Successfully Closed Groups.....                                | 7-14 |
| 7.3.5.4.2 | Unsuccessfully Closed Groups .....                             | 7-16 |
| 7.3.6     | Date/Time Processing .....                                     | 7-17 |
| 7.3.6.1   | Time Zone Correction.....                                      | 7-17 |
| 7.3.7     | Post-Processing.....   | 7-18 |
| 7.3.7.1   | Delivery of Output Record .....                                | 7-18 |
| 7.3.7.2   | Disposition of Input Records.....                              | 7-19 |
| 7.3.7.3   | Desired Destination of Output Record .....                     | 7-19 |
| 7.3.7.4   | Error Indicators.....  | 7-20 |
| 7.3.7.5   | Reports.....   | 7-20 |
| 7.4       | Correlation SPM Operational Requirements.....                  | 7-22 |
| 7.4.1     | Administration of Correlation Analyses .....                   | 7-22 |
| 7.4.2     | Administration of SPM-Specific Parameters.....                 | 7-25 |

|           |   |      |
|-----------|---|------|
| 7.4.3     | Performance.....                                      | 7-25 |
| 7.5       | SPM Interaction Considerations.....                   | 7-26 |
| 7.5.1     | Format Conversion.....                                | 7-26 |
| 7.5.2     | Surveillance.....                                     | 7-26 |
| 7.5.3     | Validation.....                                       | 7-26 |
| 7.5.4     | Aggregation.....                                      | 7-26 |
| 7.5.5     | Error Correction.....                                 | 7-27 |
| 7.5.6     | Expansion.....  | 7-27 |
| 7.5.7     | Reduction.....  | 7-27 |
| 7.5.8     | Formatting.....                                       | 7-27 |
| 8.        | Validation.....                                       | 8-1  |
| 8.1       | Problem/Opportunity.....                              | 8-1  |
| 8.2       | Solution Attributes.....                              | 8-2  |
| 8.3       | Validation SPM Functional Requirements.....           | 8-3  |
| 8.3.1     | Functionality.....                                    | 8-3  |
| 8.3.1.1   | Record Processing.....                                | 8-3  |
| 8.3.1.1.1 | Properties of Validation Analysis.....                | 8-4  |
| 8.3.1.1.2 | Matching AMA Records with Validation<br>Analyses..... | 8-4  |
| 8.3.1.1.3 | Validation Processing.....                            | 8-6  |
| 8.3.1.2   | Post-Processing.....                                  | 8-9  |
| 8.3.1.2.1 | Delivery of Passed Records.....                       | 8-9  |
| 8.3.1.2.2 | Delivery of Errored Records.....                      | 8-9  |
| 8.3.1.2.3 | Disposition of Erroneous AMA Records.....             | 8-10 |
| 8.3.1.3   | Activity Reports.....                                 | 8-10 |
| 8.3.2     | Operations.....                                       | 8-11 |
| 8.3.2.1   | Administration of SPM-Specific Parameters.....        | 8-11 |
| 8.3.2.2   | Performance.....                                      | 8-14 |
| 8.4       | SPM Interaction Considerations.....                   | 8-14 |
| 8.4.1     | Format Conversion.....                                | 8-14 |
| 8.4.2     | Surveillance.....                                     | 8-15 |
| 8.4.3     | Aggregation.....                                      | 8-15 |
| 8.4.4     | Correlation.....                                      | 8-15 |
| 8.4.5     | Formatting.....                                       | 8-15 |
| 8.4.6     | Error Correction.....                                 | 8-15 |
| 8.4.7     | Expansion.....  | 8-16 |
| 8.4.8     | Reduction.....  | 8-16 |
| 9.        | Formatting.....                                       | 9-1  |
| 9.1       | Problem/Opportunity.....                              | 9-1  |
| 9.2       | Solution Attributes.....                              | 9-2  |
| 9.3       | Formatting SPM Functional Requirements.....           | 9-3  |
| 9.3.1     | Functionality.....                                    | 9-4  |
| 9.3.1.1   | Record Processing.....                                | 9-4  |
| 9.3.1.1.1 | Determination of the Format of Input<br>Records.....  | 9-5  |
| 9.3.1.1.2 | Interpretation of Format of an Input Record.....      | 9-5  |

|            |  |       |
|------------|--|-------|
| 9.3.1.1.3  | Translation of the Input Records to the Target Format.....     | 9-6   |
| 9.3.1.1.4  | Format Grouping.....   | 9-7   |
| 9.3.1.1.5  | Grouping Input Records for Formatting Analyses.....            | 9-9   |
| 9.3.1.1.6  | Time Zone Correction.....                                      | 9-10  |
| 9.3.1.1.7  | Successful and Unsuccessful Format Grouping Closings.....      | 9-11  |
| 9.3.1.1.8  | Unscheduled Format Grouping Closings .....                     | 9-11  |
| 9.3.1.1.9  | Formatting of the Output Record.....                           | 9-12  |
| 9.3.1.2    | Post-Processing .....  | 9-13  |
| 9.3.1.2.1  | Delivery of Output Records .....                               | 9-14  |
| 9.3.1.2.2  | Disposition of Input Records.....                              | 9-14  |
| 9.3.1.3    | Activity Reports.....  | 9-15  |
| 9.3.2      | Operations .....   | 9-17  |
| 9.3.2.1    | Administration of SPM-Specific Parameters .....                | 9-17  |
| 9.3.2.2    | Performance.....   | 9-20  |
| 9.4        | SPM Interaction Considerations.....                            | 9-20  |
| 9.4.1      | Format Conversion.....   | 9-21  |
| 9.4.2      | Surveillance .....   | 9-21  |
| 9.4.3      | Aggregation.....   | 9-21  |
| 9.4.4      | Correlation.....   | 9-21  |
| 9.4.5      | Validation.....  | 9-21  |
| 9.4.6      | Error Correction .....   | 9-21  |
| 9.4.7      | Expansion .....  | 9-21  |
| 9.4.8      | Reduction.....   | 9-22  |
| 10         | Error Correction .....   | 10-1  |
| 10.1       | Problem/Opportunity .....                                      | 10-1  |
| 10.2       | Solution Attributes.....                                       | 10-2  |
| 10.3       | Error Correction SPM Functional Requirements .....             | 10-3  |
| 10.3.1     | Functionality .....  | 10-3  |
| 10.3.1.1   | Record Processing.....   | 10-3  |
| 10.3.1.1.1 | Determination of the Format of AMA Records .....               | 10-4  |
| 10.3.1.1.2 | Properties of an Automated Error Correction Analysis.....      | 10-4  |
| 10.3.1.1.3 | Matching Errors with Automated Error Correction Analyses ..... | 10-4  |
| 10.3.1.1.4 | Automated Error Correction Processing ..                       | 10-6  |
| 10.3.1.1.5 | Manual Error Correction Processing.....                        | 10-8  |
| 10.3.1.2   | Post-Processing .....  | 10-9  |
| 10.3.1.2.1 | Delivery of Corrected AMA Records .....                        | 10-10 |
| 10.3.1.2.2 | Delivery of Errored AMA Records .....                          | 10-10 |
| 10.3.1.3   | Error Correction Activity Reports.....                         | 10-11 |
| 10.3.2     | Operations .....   | 10-12 |
| 10.3.2.1   | Administration of SPM-Specific Parameters .....                | 10-12 |

|            |   |       |
|------------|---|-------|
| 10.4       | SPM Interaction Considerations .....                    | 10-15 |
| 10.4.1     | Format Conversion.....                                  | 10-15 |
| 10.4.2     | Surveillance .....                                      | 10-15 |
| 10.4.3     | Aggregation.....  | 10-15 |
| 10.4.4     | Correlation.....  | 10-15 |
| 10.4.5     | Formatting .....  | 10-16 |
| 10.4.6     | Validation.....   | 10-16 |
| 10.4.7     | Expansion .....   | 10-16 |
| 10.4.8     | Reduction.....  | 10-16 |
| 11.        | Expansion.....  | 11-1  |
| 11.1       | Problem/Opportunity .....                               | 11-1  |
| 11.2       | Solution Attributes.....                                | 11-2  |
| 11.3       | Expansion SPM Functional Requirements .....             | 11-3  |
| 11.3.1     | Functionality .....                                     | 11-3  |
| 11.3.1.1   | Record Processing.....                                  | 11-3  |
| 11.3.1.1.1 | Properties of Expansion Analyses .....                  | 11-3  |
| 11.3.1.1.2 | Matching Input Record with Expansion<br>Analyses .....  | 11-4  |
| 11.3.1.1.3 | Creation of Single Expansion Record.....                | 11-7  |
| 11.3.1.1.4 | Creation of Multiple Expansion Records ..               | 11-7  |
| 11.3.1.1.5 | Mapping Data Elements.....                              | 11-7  |
| 11.3.1.2   | Post-Processing .....                                   | 11-9  |
| 11.3.1.2.1 | Delivery of Expansion Records.....                      | 11-9  |
| 11.3.1.2.2 | Disposition of Input Records.....                       | 11-10 |
| 11.3.1.2.3 | Expansion Reports.....                                  | 11-11 |
| 11.3.2     | Operations .....  | 11-12 |
| 11.3.2.1   | Administration of SPM-Specific Parameters .....         | 11-12 |
| 11.4       | SPM Interaction Considerations .....                    | 11-15 |
| 11.4.1     | Format Conversion.....                                  | 11-15 |
| 11.4.2     | Surveillance .....                                      | 11-15 |
| 11.4.3     | Correlation.....  | 11-15 |
| 11.4.4     | Error Correction .....                                  | 11-15 |
| 11.4.5     | Validation.....   | 11-16 |
| 11.4.6     | Aggregation.....  | 11-16 |
| 11.4.7     | Reduction.....  | 11-16 |
| 11.4.8     | Formatting .....  | 11-16 |
| 12.        | Reduction.....  | 12-1  |
| 12.1       | Problem/Opportunity .....                               | 12-1  |
| 12.2       | Solution Attributes.....                                | 12-2  |
| 12.3       | Reduction SPM Functional Requirements.....              | 12-3  |
| 12.3.1     | Functionality .....                                     | 12-3  |
| 12.3.1.1   | Record Processing.....                                  | 12-3  |
| 12.3.1.1.1 | Properties of Reduction Analyses.....                   | 12-3  |
| 12.3.1.1.2 | Matching Input Records with Reduction<br>Analyses ..... | 12-4  |
| 12.3.1.1.3 | Processing of Selected Input Records.....               | 12-6  |

|                                |   |       |
|--------------------------------|---|-------|
| 12.3.1.2                       | Post-Processing .....                           | 12-7  |
| 12.3.1.2.1                     | Delivery of Reduction Records.....              | 12-7  |
| 12.3.1.2.2                     | Disposition of Input Records.....               | 12-8  |
| 12.3.1.2.3                     | Reduction Reports.....                          | 12-9  |
| 12.3.2                         | Operations .....                                | 12-11 |
| 12.3.2.1                       | Administration of SPM-Specific Parameters ..... | 12-11 |
| 12.4                           | SPM Interaction Considerations .....            | 12-13 |
| 12.4.1                         | Format Conversion.....                          | 12-13 |
| 12.4.2                         | Surveillance .....                              | 12-13 |
| 12.4.3                         | Correlation.....                                | 12-13 |
| 12.4.4                         | Error Correction .....                          | 12-13 |
| 12.4.5                         | Validation.....                                 | 12-14 |
| 12.4.6                         | Aggregation.....                                | 12-14 |
| 12.4.7                         | Expansion .....                                 | 12-14 |
| 12.4.8                         | Formatting.....                                 | 12-14 |
| Appendix A:                    | SPM MIB .....                                   | A-1   |
| A.1                            | Format Conversion MIB Objects: Overview.....    | A-1   |
| A.2                            | Surveillance MIB Objects: Overview .....        | A-1   |
| A.3                            | Aggregation MIB Objects: Overview .....         | A-2   |
| A.4                            | Correlation MIB Objects: Overview .....         | A-2   |
| A.5                            | Validation MIB Objects: Overview.....           | A-2   |
| A.6                            | Formatting MIB Objects: Overview .....          | A-2   |
| A.7                            | Error Correction MIB Objects: Overview .....    | A-2   |
| A.8                            | Expansion MIB Objects: Overview.....            | A-3   |
| A.9                            | Reduction MIB Objects: Overview .....           | A-3   |
| A.10                           | ASN.1 MIB Representation for GR-2966-CORE ..... | A-3   |
| Appendix B:                    | Specialized Processing Module Traps.....        | B-1   |
| Appendix C:                    | Local Alarms.....                               | C-1   |
| References.....                | References-1                                    |       |
| Glossary.....                  | Glossary-1                                      |       |
| Requirement-Object Index ..... | ROI-1   |       |



## List of Figures

|             |                               |     |
|-------------|-------------------------------|-----|
| Figure 2-1. | AMADNS Architecture . . . . . | 2-1 |
|-------------|-------------------------------|-----|



## List of Tables

|            |   |      |
|------------|---|------|
| Table 3-1. | Data Dictionary Example .....           | 3-2  |
| Table 5-1. | Example of a Statistical Standard ..... | 5-16 |
| Table B-1. | Format Conversion Traps .....           | B-1  |
| Table B-2. | Surveillance Traps.....                 | B-1  |
| Table B-3. | Aggregation Traps .....                 | B-2  |
| Table B-4. | Correlation Traps .....                 | B-2  |
| Table B-5. | Validation Traps .....                  | B-3  |
| Table B-6. | Formatting Traps.....                   | B-3  |
| Table B-7. | Error Correction Traps.....             | B-3  |
| Table B-8. | Expansion Traps.....                    | B-4  |
| Table B-9. | Reduction Traps .....                   | B-4  |
| Table C-1. | Format Conversion Local Alarms .....    | C-1  |
| Table C-2. | Surveillance Local Alarms.....          | C-1  |
| Table C-3. | Aggregation Local Alarms .....          | C-2  |
| Table C-4. | Correlation Local Alarms .....          | C-2  |
| Table C-5. | Validation Local Alarms .....           | C-2  |
| Table C-6. | Formatting Local Alarms.....            | C-3  |
| Table C-7. | Error Correction Local Alarms.....      | C-3  |
| Table C-8. | Expansion Local Alarms.....             | C-3  |
| Table C-9. | Reduction Local Alarms .....            | C-4  |