Software Quality Assurance Plan

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1.) Overview

This Software Quality Assurance plan details how the Merit Implementation of IDRP controls it's testing of major functional releases, minor additions and bug fix releases. General software configuration and release procedures are listed in the Software Configuration Management Plan. A descriptions of these functions will not be replicated, but the appropriate sections of that document referenced. This referencing provides better documentation software control requiring only one document to contain the latest Configuration Version naming procedures, and methods of Software control.

2.) Configuration Identification

Please see section 1 in SCM plan document for the details on Configuration Identification. The first part of the SQA form is the SCM form. Please see the SCM plan document appendix A for an annotated SCM form. Appendix B in the SCM plan document contains an annotated SQA form.

3) Configuration Control System

IDRP sources are under CVS control. In addition the baseline code from Cornell on gated plus any NSFNet project documents are under CVS control.

Please see section 2 in the SCM plan document for description of the methods of software control, plus how often back-ups are done on each system.

4) Configuration Status

4.1) Where IDRP Version information is used

IDRP version information is repeated on all the following forms: SCM, SQA, Bug Fixes, and Testing.

The SQA forms also indicate which design documents have been changed. These documents include:
    1) IDRP protocol specification,
    2) IDRP PICS Proforma for this version,
    3) ANSI specifications,
    4) IETF specifications,
    5) IDRP Design document, and
    6) IDRP syntax document.

Alwso, please see the Annotated Bug report form in Appendix C of

the Software Configuration Management plan. The annotated Testing form is in Appendix D of The Software Configuration Management Plan.

4.2) Process of testing

Testing will be done with the equipment in various physical layouts. These layouts will be described in the testing layout section the Test plan form. Also listed on the document is the set of test sequences the software executed. Results are recorded in the testing form.

Suggestions for possible fixes to bugs found in testing are recorded on bug report forms.