

AERONAUTICAL TELECOMMUNICATION NETWORK PANEL

Working Groups 1 and 2

**ATNP Configuration Control Board (CCB)
Configuration Management (CM) Procedures**

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SUMMARY

This paper proposes detailed procedures for the configuration management aspects of the ATN Panel Configuration Control Board change control process. This paper also defines formats to be used for submission of Validation Report Configuration Items (VRCIs), including Defect Reports, Change Requests and Change Proposals, and defines the e-mail tools to be used for the exchange of these VRCIs among the cognizant members of the ATNP CCB.

REVISION HISTORY

Section	Date	Issue	Reason for Change
	13 December 1994	Issue 1.0	Document Creation
	22 December 1994	Issue 1.1	Update to forms and procedures.

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ATNP Configuration Control Board (CCB) Configuration Management (CM) Procedures

1. Scope and Purpose of this Paper

This paper proposes detailed procedures for the configuration management aspects of the ATN Internet Configuration Control Board (CCB) change control process. This paper also defines formats to be used for submission of Validation Report Configuration Items (VRCIs), including Defect Reports, Change Requests and Change Proposals, and defines the electronic mail (e-mail) tools to be used for the exchange of these VRCIs among the active members of the ATN Internet CCB.

Supporting material in this paper has been derived and adapted from ATNP/WG2-WP/2, and from the final meeting report of the First Meeting of ATNP WG2.

This document will be revised and updated based on agreements among members of the ATN Internet CCB, and based on the instructions of ATNP WG2.

2. Definitions

2.1 ICAO ATN Manual 2nd Edition

This term is used to refer to the document that ICAO will publish in the near future based on SICASP/5 Recommendation 3/1. This document is the result of ICAO applying changes agreed at SICASP/5 (SICASP/5-WP/55) to the draft 1 September 1993 version of the Manual text that was presented to SICASP/5 as SICASP/5-WP/7. It is understood that ICAO will make additional changes to these in order to make the material suitable for publication as an ICAO Manual. A draft version of the ICAO ATN Manual (2nd Edition) was presented to ATNP/1 as ATNP/1-WP/4.

2.2 ATN Manual Validation Copy (19 November 1993)

Recognizing that ICAO would require a certain time to finalize the "ICAO ATN Manual (2nd Edition)" as an official ICAO publication, an ad-hoc group of experts from the SICAS Panel delegations created (during the SICASP/5 meeting) the "ATN Manual Validation Copy (19th November 1993)". This was created by applying the SICASP/5 agreed changes (SICASP/5-WP/55) to the draft 1 September 1993 version of the Manual text that was presented to SICASP/5 as SICASP/5-WP/7. This validation copy has been the basis of ATN validation activities that are in progress within various States and Organisations. ATNP/1 noted a number of differences between the "Validation Copy" and ATNP/1-WP/4, and was informed that the ICAO Secretariat will resolve any differences between these two documents by applying appropriate modifications to ATNP/1-WP/4 prior to publication of the official second edition of the ATN Manual.

2.3 Version n.m ATN SARPs

Each version of draft SARPs and Guidance Material is explicitly referenced as "n.m". In this usage, "n" represents the major revision level associated with agreements reached during a meeting of ATNP Working Group 2, and where "m" represents minor revisions applied between WG2 meetings based on interim agreements by appropriate experts, subject to WG2 approval.

2.4 Version 0.0 ATN SARPs

This version of the draft ATN SARPs and Guidance Material is functionally and technically equivalent to the ATN Manual Validation Copy described above.

2.5 Validation Report Configuration Item (VRCI)

This is the general term used to refer to the group of ATN Internet Configuration Control Board working documents (i.e. validation forms) comprising the Defect Report, the Change Request and the Change Proposal.

3. Acronyms

CCB	Configuration Control Board
VACM	Validation Archive Configuration Manager
CM	Configuration Management
VRCI	Validation Report Configuration Item
DR	Defect Report
CR	Change Request
CP	Change Proposal

4. Overview of ATN Internet CCB Validation Forms

4.1.1 Defect Report (DR)

Defect Report forms will record and describe any editorial and/or technical defect that has been identified in the text of a Version n.m draft of the ATN SARPs & Guidance Material document.

The format for a Defect Report is defined in this paper. Any defects found in the current version of the draft ATN SARPs and Guidance Material are to be reported by submitting a defect report. Identified defects may be the result of a paper analysis, simulation activities or implementation activities. A defect report may be submitted by any ATNP Member or Advisor (with his Member's approval).

4.1.2 Change Request (CR)

Change Request forms will record and describe a "high-level" requirement (e.g. specific performance requirement change in terms of routing stability, etc.) which is proposed to be added or modified in the text of a Version n.m draft ATN SARPs & Guidance Material. Such Change Requests might be issued from external inputs (such as ATNP/WG1 Working Papers) and may result in the creation of new Defect Reports if the new requirement cannot be met with based on other related technical requirements contained in the Version n.m draft ATN SARPs document.

The format for a Change Request is defined in this paper. The intent of the CR is to provide a means of allowing ATNP Members/Advisors to identify and define new requirements or functionalities that are not reflected in the current version of the draft n.m ATN SARPs and Guidance Material. A CR may either be directly presented to WG2 or result in a Defect Report which is then presented to WG2.

4.1.3 Change Proposal (CP)

Change Proposals will typically be created to propose a solution to defects or specification changes identified in Defect Reports and Change Requests. They should include the proposed modifications, additions, and/or deletions to the draft n.m ATN SARPs and Guidance Material in a format that will facilitate their direct implementation once approved by the Working Group.

The format for a Change Proposal is defined in this paper. Change Proposals will be provided in conjunction with or in response to a Defect Report or an Change Request that requires resolution, and will be indexed to the appropriate DR(s) and/or CR(s). In the interest of supporting the timely resolution of

proposals, DR or CR originators are encouraged to submit CPs concurrently with the submission of proposed DRs or CRs.

5. Change Control Process Flow

ATNP Working Group 2 has agreed on a process flow which outlines the procedure to be followed to record, process, and trace all Defect Reports (DRs), Change Requests (CRs), and Change Proposals (CPs) which will be generated in the context of the ATN Manual validation work.

5.1 Initiation of a Change

In order to ensure that Defect Reports and Change Requests represent relatively mature proposals, it is recommended that the technical issues contained in defects or changes formally proposed using these forms be first discussed using the "atn-internet-technical" mailing list among interested ATN experts (the use of this facility is described later in this paper). Once a common understanding of the issue raised in the discussion is reached, a mature DR or CR may be submitted. These submissions must be made using the appropriate electronic forms, and are sent to the "ATN Validation Archive" Configuration Manager who is in charge of assigning an identifying number to the report, storing the form in the proper Archive Directory, and posting an information message reporting the submission of the new report or proposal in the "atn-internet-technical" mailing list. This posting will mark the beginning of the period of formal consideration of the proposed defect or change by the ATN Internet CCB.

5.2 Change Control Decision Making Process

Working Group 2 (via the CCB) will decide whether the submitted DR or CR, optionally supported by submitted CP(s), documents an appropriately mature and necessary change to the Version n.m draft SARPs and Guidance Material document. If the defect or requirements change is deemed to be sufficiently abstract or complex, CCB members may opt to take this decision after reviewing the DR or CR in conjunction with submitted CP(s). Subsequent to the acceptance of the validity of the proposed defect or requirements change, each reviewed DR and CR will then be updated accordingly (i.e. new Status field, and possibly completion of the "Recommended Action" field).

5.3 Detailed Change Proposals

Either at the time of submission of a DR or CR, or following the acceptance of the DR or CR, the DR/CR author and/or other interested parties will develop one or more Change Proposals to describe required elements of the solution and/or change text.

The elaboration of proposed detailed changes will consist of:

- a) applying the WG recommended action (analysis, simulation, and/or implementation) in order to elaborate and validate a solution to the reported defect or change request.
- b) submitting a Change Proposal (CP) for CCB review once the solution to fix the defect or satisfy the change request has been validated.

Change Proposal forms are used to record and describe all editorial and/or technical modification to the text of the Version n.m draft ATN SARPs and Guidance Material document. Such forms trace the origin of the proposed change (DR or CR), describe the change itself, and explain how the proposed change has been validated. CPs should also be discussed in the "atn-internet-technical" mailing list before being issued through the same process as DRs and CRs (i.e. request CP number to Archive Configuration Manager, send the CP, store it in the Archive and post an information message).

All submitted CPs will be reviewed by the ATN Internet CCB, which may assign a status of Accepted, Rejected, Pending or Withdrawn. If several CPs are proposed as a solution to one or several DR(s) or CR(s), the ATN Internet CCB must reach consensus on a single solution and associated Change Proposal. Accepted CPs will then be proposed to the WG2 for formal agreement and will then be considered as

Agreed Changes, with WG2 agreed Change Proposals also being reported to the ATN Panel Secretary for application to the current baseline version of the ATN Manual.

5.4 ATN Internet CCB Meetings

In general, ATN Internet CCB proceedings will be conducted using the email tools documented later in this paper. However, when considered necessary by the WG, a CCB meeting may be convened for review of outstanding DRs, CRs, and CPs, in order to formulate recommendations to the WG. CCB meetings may be convened between WG2 meetings, or concurrently with WG2 meetings, as is deemed necessary. In this case, DRs, CRs, and CPs to be reviewed by the ATN Internet CCB should be made available to its members 2 weeks before the associated meeting, if possible.

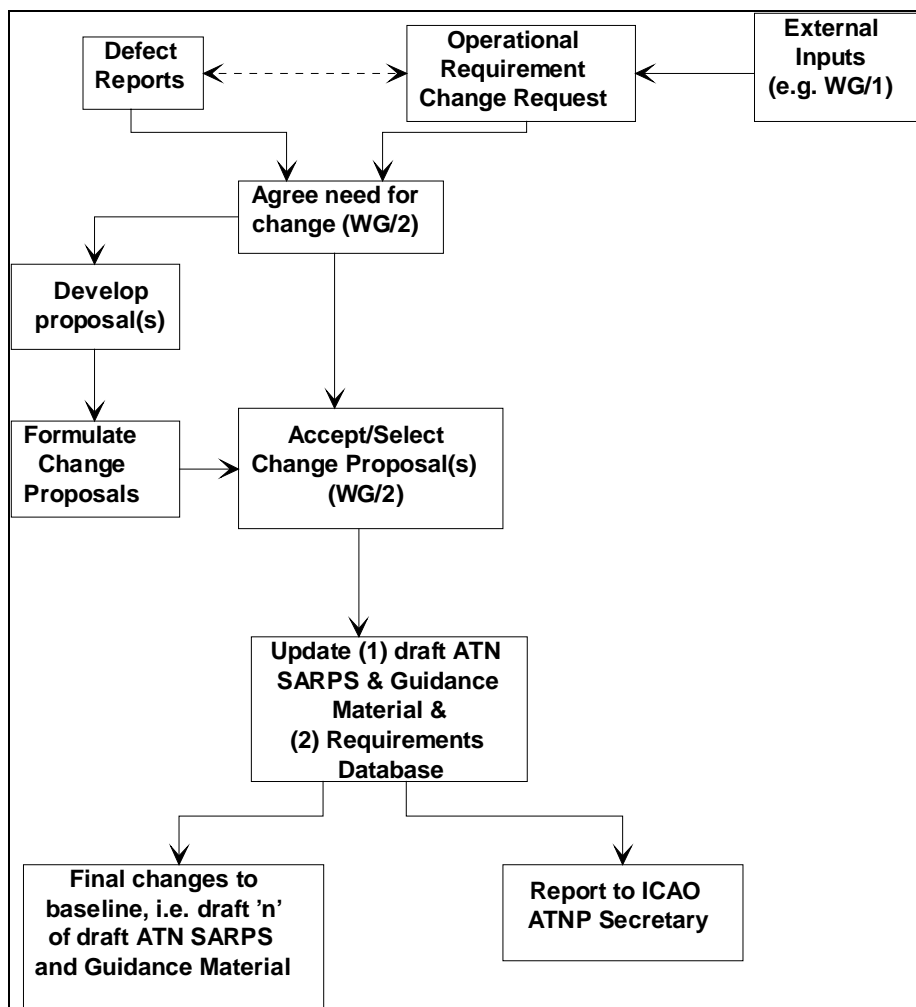


Figure 1: Change Control Procedure for ATN SARPs and Guidance Material

6. ATN Internet CCB Report Forms

Forms to be used by the ATN Internet CCB are contained in the following sections.

6.1 Defect Report

6.1.1 Defect Report Form

An ATN Internet CCB Defect Report form shall have the format described in the following sub-sections.

6.1.1.1 "TO" Address

atn-internet-cm@cenatls.cena.dgac.fr

Note: This address will be open for reception of reports effective 30 December 1994.

6.1.1.2 "SUBJECT" Field

DR <dd/mm/yy> <descriptor>

6.1.1.3 Message Body

Defect Report Reference:

Change Proposal Reference(s):

Status: <SUBMITTED/PENDING/REJECTED/ACCEPTED/WITHDRAWN>

Defect Report Revision Date: <dd/mm/yy>

Defect Report Format Revision Date: 22 December 1994

Defect Report Submission Date: <dd/mm/yy>

Submitting State/Organization: <Panel Member/Observer>

Submitting Author Name: <Last Name, First Initial>

Submitting Author E-mail Address: <Internet EMAIL Address>

Submitting Author Supplemental Contact Information:

ATN SARPs & Guidance Material Draft Version:

SARPs/GM Document Reference: <requirement number, section, page number, figure or table number, as appropriate>

Summary of Defect:

Discussion:

Impact on Requirements:

CCB Decision Date:

CCB Recommended Action:

6.1.2 Defect Report Form Legend

Field	Format	Comments
Defect Report Reference:	IDENTIFIER	Unique identifier assigned by the Configuration Manager
Change Proposal Reference(s):	IDENTIFIER	Unique identifier(s) assigned by the Configuration Manager. This is the list of submitted change proposals which propose solutions to this problem.
Status:	SUBMITTED/PEN	Status assigned by the Configuration Manager:

	DING/REJECTED/ ACCEPTED/WITH DRAWN	<p>SUBMITTED, i.e. the report has been submitted but has not yet been reviewed yet by the Change Control Board;</p> <p>PENDING, i.e. the report has been reviewed by the Change Control Board, but for certain reasons (i.e. typically, the need to provide additional information), has not yet been formally accepted or rejected;</p> <p>REJECTED, i.e. the CCB did not recognize the content of the report as being a defect or required change;</p> <p>ACCEPTED, i.e. the CCB recognized that the report documents an actual defect or required change (see then recommended action); or,</p> <p>WITHDRAWN, the problem needed further investigation and when clarifications are possible, a new defect report will be issued.</p>
Defect Report Revision Date:	DATE (dd/mm/yy)	Latest revision date at which for the report, using 2 digit numeric representation for day, month and year, assigned by the Configuration Manager
Defect Report Format Revision Date:	22 December 1994	Version identification for the report format, assigned by the Configuration Manager
Defect Report Submission Date:	DATE (dd/mm/yy)	Date at which the report is sent to the configuration manager, using 2 digit numeric representation for day, month and year.
Submitting State/Organization:	TEXT	ICAO ATNP Member/Observer
Submitting Author Name:	TEXT	<Last Name, First Initial>
Submitting Author E-mail Address:	TEXT	Internet EMAIL Address
Submitting Author Supplemental Contact Information:	TEXT	Postal Address, Telephone, FAX
ATN SARPs & Guidance Material Draft Version:	TEXT	Version n.m
SARPs/GM Document Reference:	TEXT	Related or affected requirement number, section, page number, figure or table number, as appropriate.
Summary of Defect:	TEXT	Brief presentation of the problem.
Discussion:	TEXT	Detailed description of the problem and impacts on other requirements.
Related Requirements:	TEXT	List of database entries (Requirements, recommendation, options, etc.) which are involved or affected.

CCB Decision Date	DATE (dd/mm/yy)	Date action is formally taken by the CCB to close this report.
CCB Recommended Action:	TEXT	Action recommended by the CCB in order to find a solution or validate solutions for this problem.

6.2 Change Request

6.2.1 Change Request Form

An ATN Internet CCB Change Request form shall have the format described in the following subsections.

6.2.1.1 "TO" Address

atn-internet-cm@cenatls.cena.dgac.fr

Note: This address will be open for reception of reports effective 30 December 1994.

6.2.1.2 "SUBJECT" Field

CR <dd/mm/yy> <descriptor>

6.2.1.3 Message Body

Change Request Reference:

Change Proposal Reference(s):

Status: <SUBMITTED/PENDING/REJECTED/ACCEPTED/WITHDRAWN>

Change Request Revision Date: <dd/mm/yy>

Change Request Format Revision Date: 22 December 1994

Change Request Submission Date: <dd/mm/yy>

Submitting State/Organization: <Panel Member/Observer>

Submitting Author Name: <Last Name, First Initial>

Submitting Author E-mail Address: <Internet EMAIL Address>

Submitting Author Supplemental Contact Information:

ATN SARPs & Guidance Material Draft Version:

SARPs/GM Document Reference: <requirement number, section, page number, figure or table number, as appropriate>

Summary of Change:

Discussion:

Impact on Requirements:

CCB Decision Date:

CCB Recommended Action:

6.2.2 Change Request Form Legend

Field	Format	Comments
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Change Request Reference:	IDENTIFIER	Unique identifier assigned by the Configuration Manager
Change Proposal Reference(s):	IDENTIFIER	Unique identifier(s) assigned by the Configuration Manager. This is the list of submitted change proposals which propose solutions to this problem.
Status:	SUBMITTED/PENDING/REJECTED/ACCEPTED/WITHDRAWN	Status assigned by the Configuration Manager: SUBMITTED , i.e. the report has been submitted but has not yet been reviewed yet by the Change Control Board; PENDING , i.e. the report has been reviewed by the Change Control Board, but for certain reasons (i.e. typically, the need to provide additional information), has not yet been formally accepted or rejected; REJECTED , i.e. the CCB did not recognize the content of the report as being a defect or required change; ACCEPTED , i.e. the CCB recognized that the report documents an actual defect or required change (see then recommended action); or, WITHDRAWN , the problem needed further investigation and when clarifications are possible, a new Change Request will be issued.
Change Request Revision Date:	DATE (dd/mm/yy)	Latest revision date at which for the report, using 2 digit numeric representation for day, month and year, assigned by the Configuration Manager
Change Request Format Revision Date:	22 December 1994	Version identification for the report format, assigned by the Configuration Manager
Change Request Submission Date:	DATE (dd/mm/yy)	Date at which the report is sent to the configuration manager, using 2 digit numeric representation for day, month and year.
Submitting State/Organization:	TEXT	ICAO ATNP Member/Observer
Submitting Author Name:	TEXT	<Last Name, First Initial>
Submitting Author E-mail Address:	TEXT	Internet EMAIL Address
Submitting Author Supplemental Contact Information:	TEXT	Postal Address, Telephone, FAX
ATN SARPs & Guidance Material Draft Version:	TEXT	Version n.m
SARPs/GM Document Reference:	TEXT	Related or affected requirement number, section, page number, figure or table number, as appropriate.

Summary of Change:	TEXT	Brief presentation of the change.
Discussion:	TEXT	Detailed description of the change and impacts on other requirements.
Related Requirements:	TEXT	List of database entries (Requirements, recommendation, options, etc.) which are involved or affected.
CCB Decision Date	DATE (dd/mm/yy)	Date action is formally taken by the CCB to close this report.
CCB Recommended Action:	TEXT	Action recommended by the CCB in order to find a solution or validate solutions for this problem.

6.3 Change Proposal

6.3.1 Change Proposal Form

An ATN Internet CCB Change Proposal form shall have the format described in the following sub-sections.

6.3.1.1 "TO" Address

atn-internet-cm@cenatls.cena.dgac.fr

Note: This address will be open for reception of reports effective 30 December 1994.

6.3.1.2 "SUBJECT" Field

CP <dd/mm/yy> <descriptor>

6.3.1.3 Message Body

Change Proposal Reference:

Defect Report or Change Request Reference:

Status: <SUBMITTED/PENDING/REJECTED/ACCEPTED/WITHDRAWN>

Change Proposal Revision Date: <dd/mm/yy>

Change Proposal Format Revision Date: 22 December 1994

Change Proposal Submission Date: <dd/mm/yy>

Submitting State/Organization: <Panel Member/Observer>

Submitting Author Name: <Last Name, First Initial>

Submitting Author E-mail Address: <Internet EMAIL Address>

Submitting Author Supplemental Contact Information:

ATN SARPs & Guidance Material Draft Version:

SARPs/GM Document Reference: <requirement number, section, page number, figure or table number, as appropriate>

Summary of Proposal:

Discussion:

Impact on Requirements:

CCB Decision Date:

CCB Recommended Action:

6.3.2 Change Proposal Form Legend

Field	Format	Comments
Change Proposal Reference:	IDENTIFIER	Unique identifier assigned by the Configuration Manager
Defect Report or Change Request Reference(s):	IDENTIFIER	Unique identifier(s) assigned by the Configuration Manager. This is the list of submitted change proposals which propose solutions to this problem.
Status:	SUBMITTED/PENDING/REJECTED/ACCEPTED/WITHDRAWN	Status assigned by the Configuration Manager: SUBMITTED , i.e. the report has been submitted but has not yet been reviewed yet by the Change Control Board; PENDING , i.e. the report has been reviewed by the Change Control Board, but for certain reasons (i.e. typically, the need to provide additional information), has not yet been formally accepted or rejected; REJECTED , i.e. the CCB did not recognize the content of the report as being an appropriate solution to the related defect or required change; ACCEPTED , i.e. the CCB recognized that the report documents an appropriate solution to the actual defect or required change (see then recommended action); or, WITHDRAWN , the proposal needed further investigation and when clarifications are possible, a new Change Proposal will be issued.
Change Proposal Revision Date:	DATE (dd/mm/yy)	Latest revision date at which for the report, using 2 digit numeric representation for day, month and year, assigned by the Configuration Manager
Change Proposal Format Revision Date:	22 December 1994	Version identification for the report format, assigned by the Configuration Manager
Change Proposal Submission Date:	DATE (dd/mm/yy)	Date at which the report is sent to the configuration manager, using 2 digit numeric representation for day, month and year.
Submitting State/Organization:	TEXT	ICAO ATNP Member/Observer
Submitting Author Name:	TEXT	<Last Name, First Initial>
Submitting Author E-mail Address:	TEXT	Internet EMAIL Address

Submitting Author Supplemental Contact Information:	TEXT	Postal Address, Telephone, FAX
ATN SARPs & Guidance Material Draft Version:	TEXT	Version n.m
SARPs/GM Document Reference:	TEXT	Related or affected requirement number, section, page number, figure or table number, as appropriate.
Summary of Proposal:	TEXT	Brief presentation of the solution.
Discussion:	TEXT	Detailed description of the solution and impacts on other requirements.
Related Requirements:	TEXT	List of database entries (Requirements, recommendation, options, etc.) which are involved or affected.
CCB Decision Date	DATE (dd/mm/yy)	Date action is formally taken by the CCB to close this report.
CCB Recommended Action:	TEXT	Action recommended by the CCB in order to find a solution or validate solutions for this problem.

7. ATN Mailing Lists and the ATN Validation Archive

ATNP Configuration Management validation tools have been established at CENA/Toulouse (France), and are available for use by ATN validation staff having access to the Internet. These tools comprise the ATN Validation Archive, and the two ATN-Internet electronic mail distribution lists.

These tools are intended for use to support the communication and decision-making processes described in the preceding sections.

7.1 ATN Validation Archive

The ATN Validation Archive is an enhanced-functionality password-protected **ftp** server, located at the address:

manix.cenatls.cena.dgac.fr
(IP Address: 143.196.1.34)

The archive is accessed via the following ftp log-in procedure:

Name: atnvalid
Password: upplval

After log-in is complete, the user sees several subdirectories, described in the following paragraphs. The “**incoming**” subdirectory is read/write; the other directories are read-only. A file “**dir.txt**” is located at this level in the directory structure to indicate the contents of the directory system as of the time/date stamp indicated on that file.

The general principle for use of the archive is that if a submission is desired to be made available to other validators, that submission (document file, spreadsheet file, database file, etc.) is uploaded to the “**incoming**” subdirectory of the ATN Validation Server, using binary file transfer mode. This upload should be in the form of a ZIP archive file containing:

- a) the file or files of interest, and

- b) an explanatory "README" file detailing the content of the ZIP archive, its source, and relevant contact information for the submitter of the ZIP archive.

The VACM is automatically notified of the arrival, and places the ZIP archive file into one of the other three subdirectories, as is appropriate. If a ZIP archive file is submitted lacking the README file noted above, the configuration manager, at his discretion, may delay archiving this file until such time as the ZIP archive is deemed to be complete (i.e. until the README file is supplied). Following successful transfer of the incoming file to the appropriate archive subdirectory, the configuration manager will then send an email message via the "**atn-internet-general**" mailing list (described later in this document) to announce the presence of the new file. It is assumed that all interested parties are members of this mailing list, and that in general, administrative communications related to the ATN Validation Archive will be conducted via this mailing list.

Note: The operation of this archive is essentially mechanical, i.e. the VACM makes no judgement regarding the content of the files, other than to try to detect files corrupted during the upload transfer. Further, it is assumed that once the procedures for decision-making are agreed within the validation community, the VACM will maintain the archive in a manner supporting the decisions coming from that process, i.e. making approved versions available, clearly delineating draft material from approved material, etc.

7.1.1 Content of "val-db"

This subdirectory contains the current draft version of the ATN Validation Database, and associated documentation files.

The database files are in Microsoft Access 2.0 format, and the documents are in Microsoft Word for Windows 6.0 format.

7.1.2 Content of "doc-gen"

This subdirectory is provided for the archiving of draft and final documents of a general nature relating to the validation and technical analysis process.

7.1.3 Content of "draftsrp"

This subdirectory is provided to archive the draft versions of the ATN SARPs and Guidance Material produced by the ATN Panel Working Group. This archive contains zip file archives of the name format "srp-n\$m.zip", where "n" is replaced by the appropriate major revision index and "m" is replaced by the appropriate minor revision index.

7.1.4 Content of "incoming"

This subdirectory is a buffer directory, for deposit of files uploaded to the archive as previously described.

7.1.5 Content of "tools"

The subdirectory "**tools**" of the ATN Validation Group contains the compression and decompression tools to be used on all the files stored in the archive. Executables stored in "**tools/unix**" may be run on the unix operating system. Those in "**tools/msdos**" may be run on the MS-DOS operating system.

7.1.5.1 Content of "tools/unix"

These utilities are executable files that run on the unix operating system. Their operation is compatible with that of the MS-DOS tools that can be found in "**tools/msdos**".

zip	ZIP File Compression Utility (Version 2.01)
unzip	ZIP Decompression Utility (Version 5.1)

7.1.5.2 Content of "tools/msdos"

These utilities are executable files that run on the MS-DOS operating system. Their operation is compatible with that of the the unix tools that can be found in "tools/unix".

pkz204g.exe	PKZIP (Version 5.04g: compression and decompression)
zip20x.zip	compression of zip.exe (Version 2.01)
unzip51x.exe	self-extracting compression of unzip.exe (Version 5.1)

7.2 ATN Electronic Mailing Lists

7.2.1 Overview

Two email forwarding lists have been established to support technical interchange and validation activities regarding the ATN Internet:

atn-internet-general@cenatls.cena.dgac.fr

atn-internet-technical@cenatls.cena.dgac.fr

If electronic mail (email) is sent to either of these list addresses, that email will be forwarded to all subscribers to the list to which the email is addressed.

7.2.2 Conventions for List Usage

In general, certain conventions for use of the two ATN Internet mailing lists apply.

The **atn-internet-general** list should be used, for example, for the exchange of:

1. information of an administrative nature,
2. information concerning the ATN validation process and associated decision-making,
3. announcements concerning ATN implementation and demonstration activities, standards activities, related meetings, etc.

The **atn-internet-technical** list should be used, for example, for:

1. dissemination of DRs, CRs, and CPs,
2. detailed technical exchanges among ATN implementors and validators, and
3. detailed discussion of proposed solutions to problems identified during the validation process.

7.2.3 Subscription Procedure

To subscribe to either of these lists, send an email request to:

majordomo@cenatls.cena.dgac.fr

The email should contain the following text, in the message body, with **<list name>** replaced by the actual list name:

```
subscribe <list name>  
end
```

More than one subscribe command may be contained in one email message. The address from which the email subscription request was sent will be added to the requested list(s), and a response telling the user how the list operates will be sent as a confirmation of the new subscription(s).