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Information Technology

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Per Recommendation 7 of the JTC 1 IT Ad hoc (JTC 1 N 5179),

the editor has incorporated the Electronic Document Tip and

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JTC 1 N 5709

TITLE: Tips and techniques for JTC1 web-based distribution

SOURCE: JTC1 AD-HOC GROUP ON STRATEGY FOR IMPLEMENTING IT

DATE: 1998-12-25

This paper is provided in two sections:

- 1. Guidance on how to create and maintain web pages for JTC1 and its subcommittees. The intended audience is people responsible for the implementation of the JTC1 web policies, such as committee secretariats, and their helpers. For this information see <u>Web Pages Tips and Techniques</u>
- Guidance on creation, submission and use of documents stored on JTC1 web sites in a variety of non-HTML formats as specified in section <u>4.1</u> of JTC1 N 5180 "JTC1 Policy on Electronic Document Distribution using the World Wide Web". The intended audience is people responsible for the creation and update of committee documents in these formats and those who wish to review, print or create contributions based on them. For this information see <u>Document Tips and</u> <u>Techniques</u>

Web Pages Tips and techniques

This section provides guidance on how to create and maintain web pages for ISO/IEC JTC 1 standardization committees. It also contains a proposal for a stucture of the pages and prototype pages. The scope only applies to ISO/IEC JTC 1 and its subcommittees, in the following named "committees", but WGs within the JTC 1 and other ISO or IEC committees may also benefit from the tips in the paper. This section is an implementation guide for JTC 1 N 5180 "ISO/IEC JTC 1 policy on electronic document distribution using the world wide web".

Creation of web pages

The pages should be made so it is straightforward to generate it out of existing TC or SC material, combined with the produced prototype web pages. The prototype pages have been made in a HTML-utilitities independent, portable and strictly conforming (to HTML 2.0) way, so they should be easy to use for integration. Basically what is needed is the scope of the committee in question, the chairman's or secretariat report to the parent body, or the business plan, the membership and liaisons lists, and then possibly descriptions of standards for example as text from the originating NP. Keld Simonsen, keld@dkuug.dk has offered to help in merging the committee materials with the HTML sources, as well as offered hosting of the pages.

The committee web pages should be structured so that they are readable, also as a freestanding paper submission, of which these pages here are also an example. Normal style guidelines for good web documents, many available on the net, should be adhered to.

The structure of the prototype pages are:

- <u>index</u> with overall description and shortkeys
- <u>news</u> with individual articles
- <u>faq</u> frequently asked questions page
- standards description of published standards
- projects programme of work chair report
- <u>documents</u> document register
- <u>meetings</u> including next meeting
- contacts officers, membership, liaisons, related areas
- <u>WGs</u> organization structure of the committee, including WGs
- internals for the work of the committee: access to ftp archive, emails
- <u>ballots</u> balloting information
- procedures rules governing the work
- <u>design</u> file names and anchors usable for outside referencing

The "internals" section is for confidential information, such as standards and other copyrighted work, ballot information, committee documents and email, and other documents that the committee wants to restrict access to. The information then needs to be accessible only via appropriate password protection.

The rest of the information scheduled as per this proposed web structure has been checked with the current ISO guidelines for document distribution, with special permissions for JTC 1, and should be OK for general distribution, as the following document types are classified for "open" distribution: Document register, secretariat report, programme of work, meeting notice, meeting agenda, meeting report, meeting resolutions, together with procedural information. As NPs are project related, these are also permitted for open distribution, under the one year trial period granted by the ISO TMB.

Committees may chose to make another division of the distinction between public and restricted pages.

For restricted access, the password protection of most web servers can be used. For FTP protection, one can use a non-anonymous ftp account, or a hidden directory.

For mirroring web pages, it is advisable to only use ftp mirroring, as there are a number of problems with web mirroring using the HTTP protocol.

A number of resources are drawn upon, including the ISO and IEC web servers.

A number of guidelines for each of the documents is given below.

The structure of the web pages most likely will differ somewhat from committee to committee and will also necessarily develop over time, but some structure should be kept common, also for use in general ISO-wide text retrieval and web systems.

A specification in a web page indicating which documents are available and the naming conventions and reference conventions should be explained for people wanting to create links to the documents, and should not be changed lightly.

The complete web pages should be registered so they can be used, amongst other places at the ISO web pages.

Maintaining web pages

The standardization committee should appoint maintainers for each of the documents, in many cases the pages will be maintained by the same person.

It is important that the web pages are well maintained. A way to do this is to have a direct relation to information already being generated by the committee, such as chairman's, or secretariat reports, project status, membership lists, ftp archives etc. As the web pages are advised to be readable clear text, the web document could be the same as the normal official document (or said in another way: the official document could be the web page).

Some of the information needed may be automatically updated, like ftp archive contents and e-mail subject list, and some may be done already by other sources, such as updated standards lists from ISO.

You should check your document for correct HTML before releasing it. A syntax checking service is available at http://www.webtechs.com/html-val-svc/mirror_sites.html

You should also check the set of pages for links that are erroneous.

Tools and template web pages will be produced or collected, and made available for JTC 1 use. Please contact the author, Keld Simonsen for suggestions.

Template web pages

A number of template web pages have been produced, to ease the production of ISO and IEC web pages,

and to get a consistent feel across these web pages

In the following the contents of each of the pages will be described, along with some guidance on the contents. Not all pages have been described in this document, but information will be furnished in a later version.

The index page

The "index" page has general information for a casual interested person, while still being adequate also for work within the committee.

A user can find:

- a short introduction to the committee (scope),
- a list of Frequently Asked Questions, and their answers (FAQ)
- a list of standards from the committee

For further reference there is references to:

- a more elaborate description of projects,
- reference to paper titles,
- *meeting information*,
- contact points,
- and overall organization of the committee.

The HTML formatting requirements are very straightforward HTML. No complex capabilities are required for creating or viewing such pages. Also it is advised that a minimum of graphics be employed, as these may take a long time to download and thus may irritate the user, possibly to the extent of not getting the information.

There should be backpointers in the beginning of the text to the parent bodies on the homepage. On pages other than the home page, the committee name points back to the committee home page.

For the ISO and IEC bodies their logos are used, as also done on published specifications and committee documents etc. In addition, an ISO/IEC background could be given, so that a reader will know whenever official JTC 1 documentation will be read (and note when a pointer to non JTC 1 documentation is followed).

The items Contacts, etc. in the body are links to other pages with particular recommended formats (see subsequent pages of this document). Subitems are pointers to the headings within those pages.

If there are no items for an information topic, the item (e.g., "News") may be omitted from this list and no corresponding page need be generated. If a category name is not required (e.g., "Projects"), it may be omitted as well.

The page is designed to give a fair description about the committee at a first reading. The intended audience is users of the standards produced by the committee, that could be programmers, software architects, consultants, and other standardizers. That is a fairly technical audience - but these are the people that pay for the standards and pay attention to the work.

An emphasis is made on the products of the committee - what can be used by a broader audience.

For people that use the page as a way of looking up information there are hotlinks at the very beginning of the page. The same links are explained and hotlinked later, for more novice users.

The text is rather short, to convey the information to the user without having to look thru a lot of pages. The client user screen is normaly quite limited in size, so it is avoided to use a lot of graphics. The ISO/IEC logos are only about 5 k in total. The use of paragraph headings and paragraph numbers should be minimized, to make the page less formal and to conserve space.

For newcomers there is an initial statement indicating that this is an international standardization working committee.

The user is referred to the member body for further info. There are no long references to ISO, IEC etc., but hotlinks are provided. The casual user should not be tired by ISO administration, but get access to the products (the standards cannot be provided but maybe we can provide some interesting material to him/her).

Project numbers should be avoided on the index page, as they are quite formal and do not tell people outside the standardization committee anything. They may be included on followup pages. ISO is now using the final standards numbers as project numbers, eg JTC1.22.14652.

For the committee member use there should be hotlinks in the very beginning of the homepage, making use snappy and easy. and also meeting information for upcoming meetings.

There is provision for restricted access to committee and ISO documents.

There is a news button in the hotlist which is not referred to in the rest. The news section should be first - but then writing "read all about the interesting news" as the first sentence would be overkill, and the news button is first anyway. And there may not be that much news anyway.

A "stop press" entry as the first part of the index page could be included, given that the news warrants it.

The news page

This contains news concerning the committee. It may be considered as an easy way of making press releases.

The newest news should be listed first.

All news should be retained, as a history stack.

ISO 8601 dates should be used, in the form of the format 1996-01-19, to faciliate easy searching on dates, in millenium-safe form, and intervals should use the notation 1996-01-19/24, using a "/" to indicate the interval.

Approved standards and other specifications page

This section should contain an overview of the standards produced by the committee. This could be just a list, but it could also include abstracts of each standard, possibly in the form of the scope of the standard. There could also be technical overviews produced specifically for the web. The standards themselves cannot be put here, except in cases where the ISO council specifically has decided to permit it.

The projects page

This page contains information to the user which is more interested in the work of the committee, and what specifications are coming. It should thus be of a more technical nature than the standards page. The page should hopefully give a reader interest in becoming active in the committee.

The page should have a list of the projects assigned to the committee, and their status.

If there are no publications, the Publications section should contain merely "None."

The categories ("Committee Drafts", "Standards", "Technical Reports", etc.) are pointers to descriptions of the nature of these categories.

Pointers from the document should include all and only the public documents (active Standards, Committee Drafts available for review, Technical Reports, etc.) which have been produced by this committee.

The documents page

The documents page contains a list of committee documents.

It might be convenient to have a newest document list, or latest mailing list separate from the full register.

The newest documents should be listed first to attact attention, so the list should be in reverse order.

Long tables should be avoided as the display of the table will only begin when all of the table is transferred. A list may better serve quick access to the information.

As minimum the document number, date, and title should be available in the main document register, and due date when applicable. Other document information could be available in a separate cover page.

There could be links to the actual documents here, with limited access to the restricted documents. The document number could point to a directory with different format versions of the document and cover pages, and the title could point to the most accessible document.

The meetings page

This page contains information on the future and past meetings.

Past meeting information should point to a working committee document, if any, containing the

resolutions and minutes of the meeting. (Information about the meeting logistics, attendance, documents considered, etc. may be obtained from the minutes, which may itself contain hypertext pointers to home pages of representative bodies and committee documents.)

Future meeting information should point to a committee document containing details of the meeting plans and agenda, if available. Tentative meetings should be indicated as such.

Provisions should be made for signing up for the meeting easily - remembering that committee meeting is only open to member body representatives, committee officers and liaisons of the committee.

Information on meeting venue, hotels etc. should be available

Internal documents

Here a number of things internal to the committee can be given:

- access to restricted documents
- access to standards etc. and drafts
- access to document ftp services
- *services to provide ballot comments*
- registrations for meetings
- access to email archive
- confidential information such as membership list
- useful links for committee work

The information should be accessible via a group userid and password.

The contacts page

This page should list the officers of the committee, (chairman, secretariat, editors etc.), the members of the committee (as national bodies) and the liaisons, and the a number of links to related areas.

Contact information for both individuals and organizations might be "mailto:..." or conventional home page URLs.

Liaison information should only be provided for formal (committee-recognized) relationships.

Liaison can be listed with separate reference to liaisons from other committee to the committee, and to other committee from the committee. The name of the liaison can be listed, when explicit permission has been obtained from the person.

"name"-entries with the same name should be available for the following roles: chairman, secretariat, secretary, project editors, webmaster, postmaster, ftpmaster; project editors with the prefix "editor-" before the ISO number, for example "editor-99999-2".

Welcome to the official home of

	JTC1/S

97-06-22: <u>news</u> / <u>faq</u> / <u>standards</u> / <u>projects</u> / <u>documents</u> / <u>meetings</u> / <u>contacts</u> / <u>procedures</u> / <u>WGs</u> / <u>protoweb</u> / <u>internals</u>

<u>ISO/IEC JTC1/SC</u> is the international standardization subcommittee for programming languages, their environments and system software interfaces. SC22 is oftentimes called the "portability subcommitee".

The scope of the SC is to

To obtain the international standards from the SC, please contact your national member body.

The SC has the following working groups:

- WG5 Fortran
- <u>WG14 C</u>
- <u>WG15 POSIX</u>
- WG20 Internationalization
- JSG Java Study Group

In addition SC22 has a prototype WG web page

In addition the SC is responsible within ISO/IEC JTC1 for the following projects:

ISO/IEC 11756:1992 MUMPS

Other information available is:

The SC secretariat report

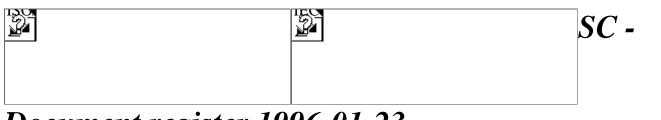
The SC programme of work

The SC document register Internal information

Information on SC plenary meetings Contacts: membership, liaisons and related work

If you want further information, or want to participate, please contact your national member body or one of the contact addresses.

Comments are welcome! We can be reached at webmaster@dkuug.dk



Document register 1996-01-23

ISO/IEC JTC1/SC documents in reversed document number order:

- N426 Meeting announcement SC22 meeting April 1996
- N425 Acknowledgments Contributors IS 11404 and IS 13886
- N424 First CD of LIA-2
- N423 Final Text of IS 13886 LIPC
- N422 Editor's Notes to the Final IS LID draft
- N421 Recommendations on JTC1 Document Formatting Guidelines
- N420 Minutes WG11 Meeting September 1995
- N397 WG11 Convenor Report to SC22; ref: email 355
- N389 Comments from Barkmeyer on LID DIS, and following email messages

<u>SC index: news / faq / standards / projects / documents / meetings / contacts / WGs / procedures / internals</u>

	<i>SC</i> -
Meetings	

The following meetings are planned:

April 15-19, 1996 - Copenhagen, Denmark The <u>call and draft agenda for the meeting</u> and <u>meeting place information</u> are available. SC members and liaisons should send a message to <u>the convener and local host</u> on their plans to participate.

Past meetings were:

September 25-27, 1995 - Gaithersburg (MD), U.S.A.<u>meeting report and resolutions</u> May 29 - June 1, 1995 - Amsterdam (Netherlands) January 30 - February 3, 1995 - Maynard (MA), U.S.A.

<u>SC index: news / faq / standards / projects / documents / meetings / contacts / WGs / procedures / internals</u>

HTML design by Keld Simonsen

	<i>SC</i> -
Contacts	

ISO/IEC JTC1/SC contacts:

The personal information in the following is given with permission of the respective persons.

administration

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Danmark

Tel: +45 3122-6543

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Email: <u>keld@dkuug.dk</u>

membership

P-members of the SC

Australia	Austr	ria	Belgium	Brazil
Bulgaria	Canada	China	<u>Denmark</u>	
Finland	France	Germany	Greece	
Japan	Netherlands	New Zealand	Romania	

Slovenia Sweden Switzerland Ukraine

United Kingdom United States

O-members of the SC



SC22 Liaisons

Formal liaisons, working relations or cooperation agreements exist with the following:

ISO/IEC JTC1/SC24 - Graphics

ISO/IEC JTC1/SC26 - Microprocessors

Related work

Other related work that the SC follows are:

SC2 - Characters

<u>SC index: news / faq / standards / projects / documents / meetings / contacts / WGs / procedures / internals</u>

HTML design by Keld Simonsen

Welcome to the official home of



- PROTO

97-06-22: <u>news / faq / standards / projects / documents / meetings / contacts / procedures /</u> internals

ISO/IEC JTC1/SC22/WG99 is the international standardization working group for the programming language PROTO. PROTO is a fake language project that is used as the prototype example for making SC22 WG web pages. WG5, WG11 and WG16 data is used sometimes for example data. The overall design and specific guidelines are given in a separate page._

Approved international standards and other specifications

produced include:

ISO/IEC TR 12345:1999 - Guide to Programming Language PROTO

ISO/IEC 12345-1:1999 - Programming Language PROTO

ISO/IEC 12345-1:1999 AM1 - Programming Language PROTO - Amendment 1

ISO/IEC 12345-1:1999 TCOR1 - Programming Language PROTO - Technical Corrigendum number 1

ISO/IEC 12345-2:1999 - Programming Language PROTO binding to Language Independent Datatypes

To obtain these international standards, please contact your national member body.

Work on projects and their milestones include:_

Defect Reports and Record of Response

WI 12345-3: PROTO binding to POSIX New work item proposal on PROTO binding to internationalization

Other information available is:

The WG document register WG internal information

Information on WG meetings Contacts: administration, membership, liaisons and related work

If you want further information, or want to participate, please contact your national member body or one of the contact addresses of the WG.

HTML design by Keld Simonsen

Comments are welcome! We can be reached at webmaster@dkuug.dk

Document tips and techniques

This Tips and Techniques Section is an aid to those involved in the creation submission, distribution and use of electronic documents on web-based JTC1 and SC sites. It contains guidance on documents in many of the formats specified in section 4.1 of JTC1 N5134 "JTC1 Policy on Electronic Document Distribution using the World Wide Web" in order to minimize the impact of problems experienced in the process. Any participant can, and is encouraged to contribute tips and information. Please send such contributions to the editor of this document, Keld Simonsen, keld@dkuug.dk.

The information contained in this section is furnished on a "best efforts" basis and any errors or omissions are regretted. Where reference is made to a product or name to which copyright or a trade mark applies, the appropriate reference, where known, is made on the first occurrence of that term in the text.

General Considerations for Electronic Document Distribution

Minimizing change in the distribution process

In order to minimize change in the distribution process and thus increase the chances of error-free distribution of documents, the following aspects should be observed:

Submit the document in the word processing package, platform and release version in which it was originally prepared, provided that the format is one of the permitted formats.

When submission in another platform, release or word-processing package is necessary, then minimize the number of such changes and attempt to make them in the following order of preference:

- Change the computer platform whilst keeping the word processor and equivalent release level the same
- Change the release version of the word processor package
- Change the word processor package

Where possible, submit the document using one of the provided templates (Word)/ styles (Word Perfect). For many document types, a suitable template or sample document is to be found in JTC 1 N4737. Guidance on the choice of an appropriate format is contained in <u>Annex E</u> of ISO/IEC JTC1 N5180: JTC1 Policy on Electronic Document Distribution Using the World Wide Web, 1998-02.

In instances where a sample document is insufficient, change can be minimized by maintaining the original document in the form submitted by the originator and generating a separate cover page at the secretariat. To assist in this process, the document originator should supply their own template/style with the document. File naming considerations for this approach are documented in 4.4.2 of ISO/IEC JTC1 N5180: JTC1 Policy on Electronic Document Distribution, February 1998. Several examples, covering both simple and complicated cases, are contained in Annex B to JTC 1 N5180. It is important to note that the ability to leave the submitter's document unchanged will often outweigh the disadvantage of a document being a composite of more than one file.

Information to be provided by the originator of a document

Document originators should provide any relevant information they consider might be useful to the recipient of a document in order to enhance the recipient's chances of viewing the document in the way intended by the originator. Examples of information that might be of value to the recipient includes:

- Word processing package and version used for creation of the document (e.g. Microsoft Word for Macintosh Version 5.1)
- Operating system and version
- Hardware platform
- Graphics usage
- Language version, if more than one involved.

This information should be added to the preamble of the document.

Font and Character Set Guidance

There are many factors which result in discrepancies from the originator's layout being experienced by a receiver of a document. One contributory factor is the occurrence of font substitution in the recipient's

machine environment. Font substitution results in different kerning and vertical spacing characteristics being used which upsets the original document format. In order to limit the occurrence of this phenomenon, it is recommended wherever possible, that the usage of fonts be limited to those shown in the table below:

Font Type Apple Macintosh and other environments Microsoft Windows environment

Non-serif	ITC Helvetica	Arial TT (TrueType)
Serif	ITC Times Roman	Times New Roman TT
Fixed pitch fon	t Courier	Courier New TT

Note 1. Other environments means any environment where Adobe Type Manager (for example IBM *PC/DOS* or equivalent) or Apple TrueType fonts are used.

It is recognized that observation of this recommendation may not always be possible in complex documents with specific font requirements (e.g. use of ASN.1 or test notations).

The character set used in text documents should be encoded according to ISO 8859-1 as defined in <u>Annex D</u> of ISO/IEC JTC1 N5180: "JTC1 Policy on Electronic Document Distribution Using the World Wide Web".

Page-size considerations

Adherence to the common printable area of A4 and 8.5" x 11" defined in <u>Annex A</u> of ISO/IEC JTC1 N5180: "JTC1 Policy on Electronic Document Distribution Using the World Wide Web" will reduce, but not necessarily eliminate, difficulties caused by the use of different paper sizes in North America from the ISO 216 standard sizes elsewhere. Particular attention needs to be paid to page layout in landscape format to ensure that the common area is utilized.

Particular care needs to be taken in the preparation of documents which require both portrait and landscape orientation. In order not to inconvenience recipients who may have widely different printing environments, the use of separate sections in a document for each orientation should be utilized. If, for some reason, this can not be accomplished, consideration should be given to making the parts of the document with separate orientations into separate documents.

Graphics

As defined in ISO/IEC JTC1 N5180: "JTC1 Policy on Electronic Document Distribution Using the World Wide Web", February 1998, simple graphics may be embedded in revisable documents provided they are editable by the graphics applications of the accepted word processing packages. For other graphics the following approach should be considered:

In general, figures in documents (of certain types, especially developing standards) should be developed as separate files, using whatever application software is available and appropriate for the task.

Then, final figures should be converted into files using ISO/IEC 10918-1 (JPEG). Finally, the individual files are inserted into the word processing document at the appropriate points using, for example,

Word's JPEG filter. Even when the figures are inserted into the document, it is important to consider the provision of the figures/graphics files as separate files in the original image file format.

There are several reasons for this approach.

Most commercial publication firms prefer separate text and figures files. This also can ease the conversion of the document to other formats.

There is a wide variety of application software for generating graphical figures. This approach allows the most appropriate software to be used for each figure, and yet requires that the figures in the final deliverable form will not require support of more than one standard file format. It must be emphasized that JPEG files can be very compact representations of bitmaps, but are still bitmaps. So the original files in the native format of the production application should be kept for future maintenance editing.

The figures and the text document can be worked by different editors in parallel. Having text place-holders in the document instead of the inserted figures can make the text editing task easier, since the file is smaller and graphics do not need to be rendered. The figures can be inserted only when a draft must be presented for consideration.

(There is a possibility of using other file formats during the transition: TIFF, GIF and EPSF are generally acceptable.)

Word Processor Considerations

General Word Processor considerations

In the JTC1 Policy on Electronic Document Distribution Using the World Wide Web (ISO/IEC JTC1 N5180) the release versions of acceptable word processor software are stated as, for example, "Microsoft Word Version 2.0 - 6.0" or "Word Perfect Version 5.1 - 7.0". Clearly, difficulties can arise if one user is at a lower level of the software and another user utilizes a higher version which either stores the file in an incompatible format or uses functions which are unique to the higher version. However, the acceptable formats have been defined in this way in order to encourage a move towards the highest common factor of software use, rather than expressly limiting it to the perceived lowest common denominator. Two types of software can also be extremely useful in bridging the gap between different releases of word processor packages. They are in addition to the built-in capability of many word processor to convert from and save in many formats:

Converters which permit the conversion of earlier or even later versions of the same software. These are usually available form the software vendor, often at no extra charge. Examples are the availability of converters so that Microsoft Word 6.0/95 documents can be read by Word for Windows 2.0 software and, more recently, the provision of converters for the Word 97 format. With this capability a user may both read and revise a document from a different release.

Viewers which permit a user, usually at no charge, to read and print, but not modify, a document in a word processor form, without that user needing to have the word processing package itself. No charge Microsoft Word viewers are, again, an example.

Rich Text Format (RTF) considerations

RTF is one of the formats as defined in ISO/IEC JTC1 N5180: "JTC1 Policy on Electronic Document Distribution Using the World Wide Web". Care should be taken to ensure that the content of the document is such that fidelity of transfer can be expected when the document is transferred in RTF form. If the document contains aspects which are unlikely to be transferred with integrity in RTF, then distribution in a permissible word-processor should be considered. Guidance on format choice is given in Annex E of JTC1 N5180. Examples of technical aspects which may not be transferred with integrity in RTF are:

The use of revision marking such as the strike-out and underline approach for deleted and inserted text respectively. The strikeout and underlining may be lost in RTF, rendering the document unreadable.

The use of other than trivial graphics. For guidance see the section on Graphics.

Another aspect to be aware of when RTF is used as a transfer format is the possibility of losing space characters in the text. Many gateways, usually for performance reasons, are configured so that trailing blanks (i.e. space characters) at the end of each line are treated as nulls and stripped off before forwarding. This has no effect on transfer of ordinary ISO 646 data streams but can cause the loss of space characters between words in RTF data streams. As RTF data streams are a composite of control and text characters, the omitted spaces may occur anywhere in the document. If a user frequently experiences this phenomenon, it is likely that the source of the difficulty is close to that user (e.g. at the user's gateway) and it may be possible to arrange for the option of stripping trailing blanks to be suppressed.

Since RTF can be processed by many word processors, it is highly desirable to avoid the use of features which may not translate directly in another (or possibly the same) word processor environment. Examples of such features are:

- The use of printer's quotes (known as smart quotes in Microsoft Word)
- Bullets, en- and em-dashes
- The Symbol character set

Microsoft Word specific section

General Word considerations

The following are some of the areas which may affect the ability to reproduce a document with content and layout fidelity:

When moving between different platforms, font substitution may take place. Since this may result in the substitution of a font with different kerning characteristics, reformatting and re-pagination may well take place. This is particularly true when Macintosh fonts such as New York and Monaco are present in the incoming document. Word set-up can be varied to select a more appropriate font.

Similar to font substitution, style formatting alterations may take place. A typical problem is the substitution of 18-point for the "spacing before" paragraph attribute instead of the more typical settings of "single-space", zero point, or a point size equal to the point size being used in the paragraph. A global change to the document will help.

Submitters should try, wherever possible, to limit the size of an object such as a table or a diagram to a

size which is equal to or less than the size of the common printable area of A4 and 8.5" x 11". The dimensions of this area are defined in <u>Annex A</u> of ISO/IEC JTC1 N5180: "JTC1 Policy on Electronic Document Distribution Using the World Wide Web", 1998-02. It is important to note that the sensitivity of word processors to changes in a document is such that changes of as little as 0.3mm can be sufficient to cause re-pagination of the document. Attempts to keep within the common printable area may therefore not be sufficient to prevent re-pagination taking place. If it is deemed to be of great importance to maintain the same pagination over different paper sizes, then consideration should be given to using the PDF file format as specified in 4.1 of JTC 1 N5180.

Many of these factors, as well as other important considerations associated with both moving to Microsoft Word and from one computer platform to another within Microsoft Word, are treated in detail in the on-line Microsoft Office webpages to be found at <u>http://www.microsoft.com/office/ork/021/021.htm</u>. Converters and viewers are available from the

<u>http://www.microsoft.com</u> site.

MS Word version considerations

- 1. If an originator of a document uses Word 7 (Word 95), then the document should be saved in Word 6.0 format before submission so that problems associated with the use of Word 7, particularly in a Macintosh environment, can be minimized.
- 2. If an originator of a document uses Word 97, they should save the document in the Word 6.0 format before submission. They should pay particular attention to the fact that substantial amounts of formatting are converted to text when this process takes place. Examples include loss of auto paragraph numbering and the conversion of numbered lists to regular text. There are many other examples, for a complete list see http://www.microsoft.com/office/word/. Because of this difficulty, originators of documents which contain any significant formatting are not recommended to use Word 97 for distribution within the JTC1 community. Note that this restriction will not apply to the Word 97 version of the template for standards production produced by the ITTF. The formatting in that template is accomplished by Word macros and should not suffer from the drawback described above.
- 3. When a user of a document is merely verifying the content of the document (e.g. viewing it prior to the creation of a cover page and further distribution), the use of Word Viewer should be strongly considered. Since the viewer is not capable of changing the source document, difficulties encountered through opening and closing a document in higher levels of Word may well be avoided.

Word for the Macintosh 5.1 considerations

Preparers of documents using Word for the Macintosh 5.1 should pay specific attention to the following points in order to increase the probability of trouble-free document distribution to other environments.

Word for the Macintosh 5.1 contains a filter which enables pictures generated on a MAC to be saved in PC Word format. The equivalent filter is not present in Word for Windows 2 or Word 6 in a PC Windows environment. Accordingly MAC Word 5.1 documents containing MACDRAW graphics should be saved as Word for Windows documents before attempting to export them to a PC environment.

Fonts used in drawing objects may not be preserved when moving from a MAC to a PC platform. Although it may be possible to edit the drawing and change the fonts, doing so on a PC may cause links to be lost. This difficulty can be minimized by a judicious choice of fonts at drawing creation time (see the font section). There is a Truetype (TT) font for the MAC which is identical (from an identifier standpoint) to the Windows fonts (e.g. Arial TT). The easiest way of ensuring, in a MAC environment, that font conversion problems are minimized is to use the MAC version of the Windows fonts. These fonts are distributed with PowerPoint, but may also be purchased separately.

If conversion cannot be avoided, then the non-graphics fonts convert as defined in the <u>font</u> section, but the fonts in pictures convert to printer fonts which may well cause editing difficulties where Adobe Type Manager is not used. Printing difficulties may also occur where the printer fonts (PostScript Type 1 or 2) are not available.

WordPerfect specific section

There are a number of considerations on the preparation of documents created in WordPerfect 5.x (5.1, 5.2 or 5.2+) to be imported into Word 2 and Word 6. The character sets which can be successfully translated from and to WordPerfect and Word are the common sets of characters found in ASCII, Multinational 1 & 2, Box Drawing, Iconic Symbols, Math/Scientific Basic and Extension sets and Greek characters.

The website mentioned in the Microsoft Word specific section above <u>http://www.microsoft.com/office/ork/021/021.htm</u> is a useful source of information to use in minimizing difficulties when moving from one word processor package (or platform) to another.

Text format considerations

When documents are intended to be distributed in text format, particular attention should be paid to the following considerations:

- *Preservation of layout may mean that the text should be saved with line breaks to prevent wrapping from destroying the layout*
- Tab characters may not be preserved with fidelity
- Quote marks and lists should utilize ordinary characters available in the intended character set

Page Image Considerations

Portable Document Format (PDF) specific section

Acrobat specific section

Adobe Acrobat software permits access to documents in their original form, independent of computer platform. With the Acrobat Reader, it is possible to view, navigate, print and present any Portable Document Format (PDF) file.

Acrobat Reader is distributed as a no-charge, licensed product and the latest version (3.0 at time of writing), maybe accessed from the Adobe homepage on the World-Wide-Web at <u>http://www.adobe.com</u>

It is permissible to re-distribute the Acrobat Reader program provided that the Read-Me file containing the license agreement is also re-distributed. The Read Me file contains installation instructions and product information for the Acrobat Reader program. There is also an On-line Guide (help_r.pdf)

which provides essential information to help a user to begin using Acrobat Reader 3.0.

If redistributing Acrobat Reader, users should place the Read Me file standalone in the directory with the acroread.exe file to assist the end user with installation of the program. This file contains the following topics:

- 1) New features in Acrobat Reader 3.0
- 2) Installing Acrobat Reader
- 3) System requirements
- 4) Using the Weblink tool with Acrobat Reader
- 5) Known Problems
- 6) Creating your own PDF documents
- 7) Technical support
- 8) Electronic End User License Agreement

It should be noted that the ability to create PDF documents (in contrast to viewing and printing) requires the use of other at-a-charge software available from Adobe Systems Inc. More information can be found on the Adobe homepage at http://www.adobe.com

Compression and encoding

Recommended Compression/ De-Compression approach

The recommended Compression/ De-Compression mechanism is to use PKZIP or PKZIP-compatible software. An uncompressed file or message should state which files are compressed and to indicate if any optional aspects of PKZIP have been used. Note that compression is an optional capability which is used for efficiency reasons and its use should be considered when a file in excess of 500KB.

Useful software for encoding/decoding

The following software packages, in addition to those mentioned above, have been found to be of use for encoding/decoding in a Windows environment.

WinZip

WinZip will zip and unzip files in the usual PKZIP form but also in LZH and ARJ formats. The latest version, WinZip 6.2, was released in October of 1996. This version allows the opening and extraction of UUencoded, XXencoded, BinHex, and MIME files. These files can be opened via the File/Open dialog or via drag and drop. WinZip 6.2 includes WinZip Self-Extractor Personal Edition. Both 32-bit (Windows 95 and Windows NT) and 16-bit (Windows 3.1 and Windows for Workgroups) versions are available. More information, including downline purchase and upgrade availability, is available from the WinZip home page: http://www.winzip.com

The mail address is Nico Mak Computing, Inc., P.O. Box 919, Bristol, CT 06011, U.S.A..

National considerations

Editors in countries with national alphabetical extenders should be aware of how this might impact the JTC1 distribution and filing of the documents in electronic form.

When using national versions of word processing software in fixed set layouts, etc. text in the national language could be passed on, for instance, in headers or footers.

Document originators should also may attention to whether the text preparation software uses any national characters as control characters, etc. as their use can produce unexpected formatting results.

Acknowledgements

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