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1 General

The IEEE and SAE Joint Development Procedure [1] provides guidance on the joint development of market-relevant standards. There are some differences in the IEEE and SAE processes; this document outlines the differences and aligns the processes for the joint development of a standard.

2 Process

2.1 Starting a joint project

Figure 1 shows the approval of a project in both IEEE and SAE. The project has been approved in IEEE and SAE as IEEE P802.1DP and SAE AS6675.

Figure 1 – Flow diagram for beginning a joint project

2.2 Drafting documents

The IEEE 802.1 process to progress the draft standard from the Task Group to the Working Group and then to the IEEE SA ballot level is mapped to the SAE process as shown in Figure 2. There are no known inconsistencies that need to be resolved.
IEEE 802.1 process

SAE AS process

IEEE 802.1 PAR created; if SAE also agreed => JWG

JWG meetings

SAE WIP created; if IEEE 802.1 agreed => JWG

Draft D1.n (TG Draft)

TG review
Min 14 days

Comment disposition

Work on D1.n

No TG review done?

Yes

n:=n+1

initial n=0

Draft D2.n (WG Draft)

WG ballot
Min 30 days

Comment disposition

WG ballot >=75%

Work on D2.m

 WG recirculation ballot on changes in D2.m min 15 days

Comment disposition

No Substantial changes

 initial m=n+1 Yes

m:=m+1

Yes

IEEE 802.1 WG ballot and SAE AS ballot done

IEEE 802.1 forward to Sponsor ballot

No

Yes

SAE EC forward to Sponsor ballot

No

Yes

Check Point

initial m=1

n:=n+1

initial n=0

initial n=0

initial m=n+1

Committee decides To go next stage

Yes

Figure 2 – Draft Development
The SAE committee ballot shall be synchronized with the IEEE SA ballot. The comments from both SAE and IEEE SA ballots shall be discussed and resolved in a joint SAE/IEEE meeting. The comments resolution will use respective SAE and IEEE tools resulting in separate comment resolution documents. The SAE comment resolution document will be submitted to SAE. The IEEE resolution document will be submitted to IEEE.

IEEE SA and SAE shall continue with recirculation ballots until the comment resolution is complete.

The IEEE SA Approval stage and SAE Ballot/Final Approval stage is described in Figure 3. Once balloting has been completed in SAE, the document is approved and ready for publication. In IEEE SA, final approval is achieved upon approval of the document as a standard by the IEEE SA Standards Board.
IEEE/SAE cooperation on TSN

SAE AS process

IEEE 802.1 process

IEEE 802.1 WG ballot and SAE AS ballot done

Draft D3.n+1 (IEEE SA draft)

IEEE SA ballot 30 days respectively 10 day recirc.

Comment disposition

Substantial changes

Yes

No

In Scope new Negatives

Yes

No

Check Point

No

>=75%

Yes

No

802.1 forward to RevCom

Yes

802 EC forward to RevCom

End of Draft Updates synchronized.

Resulting D3.n+1 after recirculation ballots.

Check Point

No

SASB approval

Yes

No

RevCom review

RevCom recommendation

Final draft

Publication preparation

SAE IEEE Dual Logo Standard

Start maintenance to match the stability date

Ballot Result Positive

Yes

No

IEEE 802.1 project

IEEE 802.1 WG ballot and SAE AS ballot done

Draft D3.0

SAE Aerospace Council ballot 28 Days

Comment disposition

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

Figure 3 – IEEE SA and SAE Ballot/Final Approval
3 Differences between IEEE 802 and SAE AS-1

3.1 General
The tables in Clause 0 provide on the right hand column the conclusions of the differences. An em-dash indicates that there are no impacts or requirements to change existing processes.

3.2 Decorum

<table>
<thead>
<tr>
<th></th>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photography</td>
<td>Photography or recording by permission only (2020 SASB Op Manual 5.3.3.4)</td>
<td>Photography or recording is not permitted</td>
<td>Photography or recording will not be permitted in the joint meeting</td>
</tr>
<tr>
<td>Press notification</td>
<td>Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (5.3.3.5)</td>
<td>SAE permits press participation without explicit announcement. Press is therefore treated same as any participant.</td>
<td>Joint meeting will follow IEEE rules on Press participation</td>
</tr>
</tbody>
</table>

3.3 Reflector and Web

<table>
<thead>
<tr>
<th></th>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscribe</td>
<td>To subscribe to the 802.1 reflector, send an email to:</td>
<td>Notification on documents is through Mobilus. To subscribe to SAE Mobilus, go to <a href="https://saemobilus.sae.org/">https://saemobilus.sae.org/</a></td>
<td>—</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:ListServ@ieee.org">ListServ@ieee.org</a> with the following in the body of the message (do not include &quot;&lt;&gt;&quot;): subscribe stds-802-1-L &lt;yourfirstname&gt; &lt;yourlastname&gt; end</td>
<td>Notification on meetings and document development is sent to the SAE AS-1 mailing list. To subscribe to SAE AS-1 email list, one must be on the committee roster. To get added to the roster, email Dorothy Lloyd (<a href="mailto:dlloyd@sae.org">dlloyd@sae.org</a>) with “AS-1A2 Participation Request” as the subject. Lisa Brown (<a href="mailto:lisa.brown@sae.org">lisa.brown@sae.org</a>)</td>
<td>—</td>
</tr>
<tr>
<td>Send</td>
<td>Send IEEE 802.1 &gt;&gt; reflector messages to: <a href="mailto:stds-802-1-L@listserv.ieee.org">stds-802-1-L@listserv.ieee.org</a></td>
<td>To send emails to the SAE AS-1 mailing list, one must use the SAE portal: <a href="https://www.sae.org/servlets/works/committeeMail.do?comtID=TEAAS1A">https://www.sae.org/servlets/works/committeeMail.do?comtID=TEAAS1A</a></td>
<td>—</td>
</tr>
<tr>
<td>WG web page URL</td>
<td>WG web page URL for example:</td>
<td>SAE AS-1A web page URL:</td>
<td>Each organization to post working documents on</td>
</tr>
</tbody>
</table>
### 3.4 Private area

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>each organization’s website.</td>
</tr>
</tbody>
</table>

The private area is used to store the draft, and on an exception basis, other copyrighted material shared through a liaison. The password will be verbally announced during the meeting.

*Document work area is available to all participants listed on the committee roster as a voting member or Liaison.*

### 3.5 Ground rules

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>

*Committee Code of Conduct During the Meeting (based on SAE Aerospace Council Organization and Operating Procedures)*

Following are general items for committee conduct:

- No Commercialism – Stick to the Technical Issues and never endorse or belittle specific products.
- Only one person speaking at any given time (presenter has the floor).
- Attack the issue, not the person.
- Be on time for the beginning of the meeting and in returning from breaks/lunch.
- Set all electronic devices to silent mode
- Respect all ideas and comments.
- No silent scepticism -- be candid.
- Do not dominate discussions.
- Stay focused on the meeting.
- Avoid unauthorized or “private” meetings. Discussions should be open and follow the agenda or other legitimate direction agreed upon by consensus of the committee.
- Never participate in discussions of cost, pricing plans, pricing policies, product usage surveys, marketing plans or any related topics. Be aware of and follow ITAR and EAR rules and regulations governing export control.*
3.6 Attendance

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance record must be done electronically using IMAT. The 75% attendance is needed to maintain the voting rights. Additional rules apply about substituting a plenary by an interim etc.</td>
<td>Attendance is secured from either the WebEx meeting report or the registration to face-to-face meeting.</td>
<td>—</td>
</tr>
</tbody>
</table>

3.7 Participation in IEEE 802 Meetings

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis (Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <a href="http://www.ieee802.org/devdocs.shtml">http://www.ieee802.org/devdocs.shtml</a>)</td>
<td>Participation in any SAE AS-1 meeting is on an individual basis</td>
<td>—</td>
</tr>
<tr>
<td>• Participants in the IEEE standards development individual process shall act based on their qualifications and experience.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(<a href="https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf">https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf</a> section 5.2.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (Subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)</td>
<td>Technical committees consist of technical experts from government, industry, regulatory agencies, and academia (Participate as individuals and not as agents or representatives of any organization).</td>
<td>—</td>
</tr>
</tbody>
</table>
IEEE 802 | SAE AS-1 | Harmonization/ Exception needed
---|---|---
• Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders. | Participate as individuals and not as agents or representatives of any organization. | —

• Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x. By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate. | No granting of Proxies or participation in any committee meeting decisions, actions or votes by proxy is allowed. Members unable to attend in person have the option of attending virtually or sending an alternate. A strict one person – one vote policy shall be followed. (based on SAE Aerospace Council Organization and Operating Procedures) | —

### 3.8 IEEE and SAE high level structures

**Table 1 – Differences in the IEEE and SAE high level structures**

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voting is done by personal individuals that gained voting rights by participation in meetings.</td>
<td>Voting is done by individuals who are voting members of the AS-1A committee. Voting rights are gained by attending 3 consecutive AS-1 meetings.</td>
<td>—</td>
</tr>
</tbody>
</table>

### 3.9 Important Bylaws and Rules

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
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</thead>
<tbody>
<tr>
<td>IEEE 802</td>
<td>SAE AS-1</td>
<td>Harmonization/Exception needed</td>
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<tr>
<td>----------</td>
<td>----------</td>
<td>--------------------------------</td>
</tr>
</tbody>
</table>
| IEEE-SA Standards Board Operations Manual  
http://standards.ieee.org/guides/opman/sb-om.pdf | SAE Executive Standards Committee Governance Policy  
| IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures  
| IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual  
| IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures  

### 3.10 Instructions for the WG Chair

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/Exception needed</th>
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</thead>
</table>
| The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:  
- Show slides #1 through #4 of this presentation  
- Advise the WG attendees that:  
  - The IEEE’s patent policy is described in Clause 6 of the IEEE-SA Standards Board Bylaws;  
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;  
  - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.  
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:  
| SAE International strongly recommends that at the beginning of each committee meeting, the chair or a designee show and review:  
- Anti-Trust Statement  
- Patent Disclosure Statement  
- Intellectual Property Policy  

The secretary or designee shall record the minutes of each meeting.  

At SAE International, patents are disclosed prior to approval of a project.  

It does not harm the SAE people hearing the policy of IEEE. | — |
IEEE 802

- That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
- That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
- Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
  - The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
  - It is recommended that the WG chair review the guidance in IEEE-SA Standards Board Operations Manual 6.3.5 and in FAQs 12 and 12a on inclusion of potential Essential Patent Claims by incorporation or by reference.

NOTE: WG includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

<table>
<thead>
<tr>
<th>Other Guidelines for IEEE WG Meetings:</th>
<th>See ground rules above.</th>
<th>Harmonization/Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don’t discuss the interpretation, validity, or essentiality of patents/patent claims.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don’t discuss specific license rates, terms, or conditions.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical considerations remain primary focus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don’t discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Don’t discuss the status or substance of ongoing or threatened litigation.</td>
<td></td>
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<tr>
<td>Don’t be silent if inappropriate topics are discussed ... do formally object.</td>
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</tbody>
</table>

See ground rules above.

It does not harm the SAE people hearing the policy of IEEE.
### 3.11 Starting a new project

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>In IEEE 802.1 a new project can be started after presentations of a new work item in the TG and WG that results in sufficient WG interest (as indicated by a motion) to develop a PAR.</td>
<td>At SAE International, a new project can be started after presentations of a new work item to the AS-1 chair and at a AS-1 committee meeting has been approved (indicated by a motion and noted in the minutes of that meeting).</td>
<td>—</td>
</tr>
<tr>
<td>In IEEE 802.1 a new project is started after a WG motion to develop a PAR has passed. The development of the new project is typically handled by a TG, but a SG may be created on an exceptional basis.</td>
<td>At SAE International, a new project is started after approval by the AS-1 committee and assigned a sponsor. Development of the new project is handled by the designated AS-1 committee.</td>
<td>—</td>
</tr>
<tr>
<td>The 802 Executive committee (EC) occasionally will form the Study Group (SG) under the WG to create the PAR and CSD PAR &amp; CSD approval is by the WG but is circulated beforehand to all 802 WGs for comments. Comments of the 802 WGs can come until Wednesday morning, so that the comment resolution can be integrated before the closing plenary of the WG on Thursday afternoon. The WG shall vote on the PAR and CSD. If one of these multiple motions fails, then rest in peace. The PAR shall also be approved by the 802 EC and confirmed by the NESCOM and approved by the IEEE SASB. The PAR is assigned to a TG can start their drafting work on the next interim after the plenary.</td>
<td>N/A</td>
<td>—</td>
</tr>
</tbody>
</table>

### 3.12 Drafting a document

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>The TF works on the 1st draft D1.0. The TF ballot period is 4 weeks. The commenting phase can be repeated.</td>
<td>The AS-1A committee works on the draft. The ballot period is 28 days. The commenting phase can be repeated as many times as necessary until consensus is reached. Document then goes to Aerospace Council for</td>
<td>The joint project will use the IEEE document for drafting the standard. Balloting is done in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### IEEE 802  |  SAE AS-1  |  Harmonization/ Exception needed
---|---|---

|  | a 28-day ballot. Any disapprovals need to be resolved and the document may need to be balloted to the committee again dependent on the nature of the Aerospace Council comments. | parallel in both organizations as specified in section 2.2. |

### 3.13 Collecting fees to attend a joint meeting

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is usual in IEEE 802 interim and plenary meetings to collect money for paying the meeting venue, organizing WiFi access, refreshments, etc.</td>
<td>It is usual in SAE face-to-face meetings to collect money for paying for meeting venue, audio visual and food &amp; beverage if the meeting is hosted at a commercial venue. If the meeting is hosted at the SAE headquarters, no fees are collected. If the meeting is hosted by a company at the company facility, the company can decide if they need to collect registration fees to cover the cost of the meeting.</td>
<td>—</td>
</tr>
</tbody>
</table>

### 3.14 Terminology

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session: one or more days of coming together face to face to hold several meetings or adhocs. Meeting: coming together for a couple of hours during a day of a session. Some WGs strictly organize a day by dividing the day in 4 elements: am1, (coffee break), am2, (lunch break), pm1, (coffee break), and pm2. Also evening meetings can be scheduled after a short for dinner.</td>
<td>Session: one or more days of coming together face-to-face to hold document work sessions. Meetings: virtual meetings can be held for a couple of hours during a day for working sessions between face-to-face meetings if needed.</td>
<td>—</td>
</tr>
</tbody>
</table>

### 3.15 Documents repositories

<table>
<thead>
<tr>
<th>IEEE 802</th>
<th>SAE AS-1</th>
<th>Harmonization/ Exception needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>The IEEE 802.1 web site allows to store documents in a public or a restricted member area.</td>
<td>The SAE International Standards Work website allows to store document in a restricted member area only. Working documents are not made public.</td>
<td>—</td>
</tr>
</tbody>
</table>
## Annex A

### List of Acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Meaning</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSD</td>
<td>Criteria for standards development</td>
<td>IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual, Clause 14</td>
</tr>
<tr>
<td>EC</td>
<td>Executive committee</td>
<td>IEEE 802</td>
</tr>
<tr>
<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers</td>
<td>IEEE, see <a href="http://www.IEEE.org">www.IEEE.org</a></td>
</tr>
<tr>
<td>JWG</td>
<td>Joint working group</td>
<td>IEEE, SAE</td>
</tr>
<tr>
<td>LMSC</td>
<td>LAN/MAN Standards Committee</td>
<td>IEEE</td>
</tr>
<tr>
<td>NESCOM</td>
<td>New standards committee</td>
<td>IEEE, see IEEE-SA Standards Board: NesCom</td>
</tr>
<tr>
<td>NP</td>
<td>New work item proposal</td>
<td>SAE</td>
</tr>
<tr>
<td>PAR</td>
<td>Project authorization request</td>
<td>IEEE SA</td>
</tr>
<tr>
<td>RevCOM</td>
<td>Standards review committee</td>
<td>IEEE, see IEEE-SA Standards Board: RevCom</td>
</tr>
<tr>
<td>SG</td>
<td>Study Group</td>
<td>IEEE 802</td>
</tr>
<tr>
<td>TG</td>
<td>Task group</td>
<td>IEEE 802.1</td>
</tr>
<tr>
<td>TSN</td>
<td>Time sensitive networking</td>
<td>IEEE 802.1, see IEEE802.1 TSN web site</td>
</tr>
<tr>
<td>WG</td>
<td>Working group</td>
<td>IEEE</td>
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</tbody>
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## Annex B

### History of this document

<table>
<thead>
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<th>Author/Contributor</th>
<th>Status</th>
<th>Comment</th>
<th>Date</th>
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</thead>
<tbody>
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<td>Rev 1</td>
<td>Glenn Parsons / Ludwig Winkel</td>
<td>Early Draft</td>
<td>Initial version based on IEC/IEEE document</td>
<td>2021-04-21</td>
</tr>
<tr>
<td>Rev 2</td>
<td>Abdul Jabbar</td>
<td>Draft</td>
<td>Initial IEEE- SAE version</td>
<td>2021-11-03</td>
</tr>
<tr>
<td>Rev 3</td>
<td>Abdul Jabbar/Dorothy Lloyd</td>
<td>Draft</td>
<td>Mostly complete version</td>
<td>2022-08-10</td>
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Bibliography