| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Disposition****(Completed by Principal Editor)** |
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| 1-4 | 1.4 |  | ed | Sections 1.4.5 through 1.4.13 are in numerical order, but the Annex names associated are not in alphabetical order | David S. Berry / NASA | Re-order the sections alphabetically by Annex name | Addressed with other comment |
| 1-5 | 1.5 |  | ed | Recommend moving current Ref [10] before current Ref [5]. Since these are a 2 volume set. | David S. Berry / NASA | Consider | Accept. Implemented. |
| 1-5 | 1.5 |  | ed | Should we have a reference to the CSTS Blue Book? | David S. Berry / NASA | Consider | Added as informative reference . It seems like it is not a direct reference for the standard?This works |
| Sec4 |  |  |  | Compare the TDM data type descriptions with the modifications to data type descriptions in the CDM version 2 draft that were made at Toulouse. Goal is to ensure that the new TDM document uses them. (See document attached with this CRM). | David S. Berry / NASA | Now that the CDM document has gone through Agency Review with these new requirements, we can add them to the other documents. Doing this for the TDM while it's still in development will be a painless way to incorporate the changes. For other docs we will need Corrigenda. | NOT ADDRESSEDUnsure which ones apply.David: not referring to data keyword. Look at section 4.3Added 8-byte integer). Changes to time representation and floating-point description text. |
| 5-1 | 5.1 |  | ed/te | I suggest we genericize the location of the TDM/XML schema, because that will keep us from having to perform corrigenda on the location. We can just list the SANA registries that contain all of the schemas, and they can find the TDM schema there, with the current NDM/XML version and TDM version listed. Since those numbers can (and do) change, we can avoid periodic corrigenda by just listing the location at the registry level. | David S. Berry / NASA | Consider.From: current location noted in the draftTo: https://sanaregistry.org/r/ndmxml\_qualified/andhttps://sanaregistry.org/r/ndmxml\_unqualified/ Look through the list for the TDM schema name. | Accept. Implemented. |
| 5-2 | 5.3.3.3 |  | ed/te | I suggest we genericize the location of the master schema in a fashion similar to that suggested for the TDM schema | David S. Berry / NASA | From: current location noted in the draftTo: https://sanaregistry.org/r/ndmxml\_qualified/andhttps://sanaregistry.org/r/ndmxml\_unqualified/Look through the list for the "master" schema name. | Implemented something similar. |
| 5-3 | 5.3.3.6.2 | 1 | ed/te | Change TDM version number in the XML message (there are 2 instances in this paragraph) | David S. Berry / NASA | From: 2.0To: 3.0  | Implemented here and in the examples for XML. |
| 5-3 | 5.3.3.6.2 | 6-7 | ed/te | Change TDM master schema name and number  | David S. Berry / NASA | From: "https://sanaregistry....xsd"To: "The current master schema name/number as found in the SANA Registry" | Used: <https://sanaregistry.org/files/ndmxml_unqualified/ndmxml-4.0.0-master-4.0.xsd>However, this is not the TDM master schema specifically. Is this what you were referring to?Genericize, per prior commentsImplemented something similar to prior comment |
| 5-3 | Between 5.3.4.2 and 5.3.4.3 | new | te | Add line for "CLASSIFICATION" keyword | David S. Berry / NASA | From: blankTo: "The TDM header may have a <CLASSIFICATION></CLASSIFICATION> tag pair.Also add the CLASSIFICATION keyword to the NOTE in 5.3.4.3. | Implemented |
| 5-3 | 5.3.4.3 |  | ed/te | Based on the addition of the MESSAGE\_ID keyword, the "NOTE" in 5.3.4.3 should be moved into 5.3.4.4  | David S. Berry / NASA | Add "MESSAGE\_ID" to the "NOTE", and then move the "NOTE" from section 5.3.4.3 to 5.3.4.4 immediately after the description of the MESSAGE\_ID.  | Implemented |
| 5-4 | 5.3.8 |  | te | No action needed at this time... I have not yet figured out how to code the "special" XML for the data quality indicators and system status parameters | David S. Berry / NASA | No action... the XML work is TBD. | KEEP HERE AS NOTE |
| 5-5 | 5.3.8.3 | 1 | ed/te | Awkward phrase | David S. Berry / NASA | From: 'The data type tag may be affixed an indicator, "ind" as an attribute, for the purpose...' To: 'An "ind" attribute may be affixed to a data type tag for the purpose..." Note to Juan: Seems like a fairly major change in the TDM schema. | Implemented.What is the expected impact?David: need to verify each possible value associated with “ind”.KEEP AS NOTE |
| 5-5 | 5.3.8.3 | 3 | ed | typo | David S. Berry / NASA | From: NDL/XMLTo: NDM/XML | Accept. Implemented. |
| 5-5 | 5.3.8.4 |  | te | I think there may be a way in XML to accomplish the change you have incorporated here, but I'm not positive. | David S. Berry / NASA | Be open to the potential that the "multiple data types per observation" may not work in XML. I'll have to experiment with that. | Appreciate the comment. I have seen an implementation like this for TDRS SGSS, where this was tested/used.No action |
| 5-5 | 5.3.9 |  | ed/te | We should probably add a statement that units are not displayed in the XML. | David S. Berry / NASA | Consider adding: "As in the TDM/KVN, units are not displayed in the TDM/XML. | Accept, makes sense. Implemented |
| 5-5 | 5.4 | 1 | ed | Double occurrence of "Figure" | David S. Berry / NASA | From: "Figure Figure G-21" To: "Figure G-21" | I need to fix the references, this is an artifact of printing to pdf.CORRECTED |
| A-1 | A1.1 | 2 | ed/te | Document version number | David S. Berry / NASA | From: CCSDS 503.0-B-2To: CCSDS 503.0-B-3 | This appears to be a field that automatically updates in the word version of the document.Updated field name, correct all references.CORRECTED |
| A-1 | A1.2 | 3 | ed | The names of the features should be underlined (See ODM V.3 pages A-1 and A-2 https://public.ccsds.org/Pubs/502x0b3e1.pdfand ADM V.2 p.A-1 and A-2 for examples https://public.ccsds.org/Pubs/504x0b2.pdf | David S. Berry / NASA | Underline the ICS feature headers. | Implemented |
| A-2 | A1.2 |  | ed/te | "Reference Column" paragraph has incorrect document number | David S. Berry / NASA | From: CCSDS 503.0-B-2To: CCSDS 503.0-B-3 | This appears to be a field that automatically updates in the word version of the document.Same as beforeCORRECTED |
| A-4 | A2.1.4 |  | ed/te | First row of table has incorrect document number | David S. Berry / NASA | From: CCSDS 503.0-B-2To: CCSDS 503.0-B-3 | This appears to be a field that automatically updates in the word version of the document.Same as beforeCORRECTED |
| A-6 | A2.1.5, row 28 |  | ed/te | Can multiple ephemerides for a single participant be used? | David S. Berry / NASA | If yes, From: "ephemeris file"To: "ephemeris file(s)" | This is a good question. Do we want more than one file? If so, would we have to provide rules such as what happens when there is overlap in ephemeris files overlapping in time?The simplest is to have it as a single file?No action |
| A-10 | A2.1.5, row 59 |  | ed | ANGLE\_1 and ANGLE\_2 are lacking their indexers. | David S. Berry / NASA | From: ANGLE\_1, ANGLE\_2 To: ANGLE\_1\_n, ANGLE\_2\_n | Implemented |
| Annex A | 2.1.5 |  | ed/te | There are a few keywords not in this table: DIFF\_FREQ, CORRECTIONS\_n, OBS\_COVARIANCE | David S. Berry / NASA | Add as applicable. | Added these, are there more?**CHECKED with new keywords.** |
| B-1 |  |  | te | Contradictory instructions to the TDM developer. Paragraph B1 says that values for the keywords "should come from the SANA Registry" (no specific registries), but B2 and B3 say that the values "must be selected from" specific registries. | David S. Berry / NASA | Choose "should" for all paragraphs or "must" for all paragraphs. | Changed all to “should”. “Must” appears to be very restrictive. |
| C-1 to C-2 |  |  | ed/te | Note that we got significant pushback from the CESG over the lack of specific security information in the analogous CDM annex. | David S. Berry / NASA | Copy Section C1 of the CDM V.2 (once published) into the TDM V.3 Section C.1 and confirm wording consistent with the TDM. | Need update from CDM. I am assuming we do not want to copy from the pink book?Brian will provide when complete, before publicationImplemented per 2024-12-02b - 508x0p12\_CDM2.docx and floating-point-text-for-navwg-standards-final\_w\_reference.docx |
| D-2 |  |  | ed | Could add UUID to the acronym list, though it's only used in the document once (currently) and it's spelled out there, so perhaps not necessary. | David S. Berry / NASA | Editor's choice. | Perhaps add when there are two or more instances. The document was not checked for consistency on this.**Added UUID, checking for consistency, easier to implement. Checked doc and added some.****Did not add** TDRS, DRTS, COMETS from Annex I |
| E-2 | E-1-8 |  | ed/te | Consider a potential issue with the requirement as stated. | David S. Berry / NASA | From: ODM and ADM formatTo: ODM and/or ADM formatRegardless of the choice, you may want to change "location" to "location and/or orientation" in the Rationale | Using “and/or” could result in providing orientation and not location. Do we envision that as a valid scenario? Or should we indicate we should have position or position and orientation?Implement this last suggestion.Implemented |
| E-3 | Table E-1 | E-1-13 | ed | Missing trace entry | David S. Berry / NASA | Add Table 3-7 to existing trace values | added |
| E-4 | Table E-3 | E-3-6 | ed/te | I wonder if this requirement is necessary (?). It seems to be a duplicate of E-1-2. | David S. Berry / NASA | Delete E-3-6. Duplicate. | Addressed already |
| E-4 | Table E-3 | E-3-7 | te | If this is the "main goal of the TDM standard", then it should be in Table E-1 | David S. Berry / NASA | Move requirement to Table E-1 | Addressed already |
| E-4 | Table E-3 | E-3-8 | ed | I think "avoiding" would be a better word than "detering" (which is, in any case, misspelled). | David S. Berry / NASA | Either (a) replace "detering" with "avoiding", or (b) change "detering" to "deterring". | Used “avoiding”. It would be nice if this word document could have a spell checker enabled. |
| E-4 | Table E-3 | E-3-10 |  | Redundant word | David S. Berry / NASA | From: redundant key keywordsTo: redundant keywords | Accept. Implemented |
| F-2 | F3.1 | 1 | te | It might be better to re-phrase the first line | David S. Berry / NASA | From: existingTo: "The DOPPLER\_COUNT keywords added in TDM V.2 have been removed in this version (TDM V.3). These keywords were intended..." | Similar comment to Julie’s. I could update with this language.Went over text earlier.No action |
|  |  |  |  | I'M STILL WORKING ON ANNEX F | David S. Berry / NASA |  | No Action |