| **Page** | **Section** | **Line** | **Type** | **Comment/ Rationale** | **Source of Comment (Name/Agency)** | **Suggested Disposition** | **Disposition****(Completed by Principal Editor)** |
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| N/A | N/A | N/A | N/A | ALL PAGE/SECTION/LINE NUMBERS RELATIVE TO "CHANGES ACCEPTED" VERSION |  | N/A |  |
| 6.2 | Table 6.1 |  | ed | A single space object physical characteristics secton | Alain LAMY - CNES | Secton => section  |  |
| 6.4 | Table 6.2 |  | ed | Seems that the font used for CREATION\_DATE (in the “description” column) is not the same as for other keywords | Alain LAMY - CNES | Change font if necessary  |  |
| 6.5 | Table 6.3 |  | ed | TECH \_ORG, TECH \_POC, etc…: White space before “\_” in the keyword  | Alain LAMY - CNES | Remove white space |  |
| 6.7  | Table 6.3  |  | te | OBJECT\_DESIGNATOR : I think that it should be mentioned that this designator is the ID in the catalog whose name is “CATALOG\_NAME”  | Alain LAMY - CNES | Change if necessary |  |
| 6.8 | Table 6.3 |  | te | TIME\_SYSTEM: not only for EPOCH\_TZERO. Also for all time stamps | Alain LAMY - CNES | Change to: for all time stamps including EPOCH\_TZERO |  |
| 6.8 | Table 6.3 |  | te | SCLK\_EPOCH : is it really necessary ?  | Alain LAMY - CNES | For discussion  |  |
| 6.8 | Table 6.3 |  | te | SCLK\_SEC\_PER\_SI\_SEC : it seems to me that adding this keyword complicated the standard a little, without being general enough. So is it really needed ? Or at least say that is is an approximate value.  | Alain LAMY - CNES | For discussion |  |
| 6.9 | Table 6.3 |  | ge | TIME\_SPAN is defined as END\_TIME minus START\_TIME, so brings no new information. Do we have to keep it ?  | Alain LAMY - CNES | For discussion  |  |
| 6.9 | Table 6.3 |  | te | TCOEFF\_SOURCE : the definition does not seem completely clear to me. Which coefficients exactly ?  | Alain LAMY - CNES | Clarify  |  |
| 6.10 | 6.2.4.4 |  | ed | Bold characters used. I suppose this is not intentional. Note : check in all document  | Alain LAMY - CNES |  |  |
| 6.10 | 6.2.4.4 |  | ed | It may be a question of language (so I’m not sure), but I think it would be clearer if you said: Each orbit state data block should (or shall) differ from all others in at least one of the following respects : * the selected element set (ORB\_TYPE),
* etc…

Note : appear in other places in the document.  | Alain LAMY - CNES |  |  |
| 6.13 | Table 6.4 |  | ed | “Orbit time history line(s) shall be formatted asdescribed above”: you should mention which section exactly  | Alain LAMY - CNES |  |  |
| 6.14 | Table 6.5 |  | ed | OEB\_PARENT\_FRAME definition: You mention OEB\_ROLL and OEB\_YAW : but they don’t seem to exist any more  | Alain LAMY - CNES | Replace by correct names |  |
| 6.14 | Table 6.5 |  | te | SOLAR\_RAD\_AREA : Even if the definition is clear, the name is the same as in other ODM messages but does not mean the same thing | Alain LAMY - CNES | Find another name for SOLAR\_RAD\_AREA |  |
| 6.14 | Table 6.5 |  | te | SOLAR\_RAD\_SCALE: I would say that the actual value for the SRP coefficient is SOLAR\_RAD\_COEFF \* SOLAR\_RAD\_SCALE(seems less ambiguous)  | Alain LAMY - CNES |  |  |
| 6.14 | Table 6.5 |  | te | ATT\_CONTROL : Accuracy of attitude control ? (instead of ability to control attitude) : Seems more precise. Note : same for ATT\_POINTING  | Alain LAMY - CNES |  |  |
| 6.28 | 6.2.8.14 |  | ed | “The MAN\_COMPOSITION keyword shall specify the elements of information toe provided … “ | Alain LAMY - CNES | E -> be |  |
| 6.28 | Table 6.8 |  | te | DV\_X, DV\_Y …“The actual ΔV should be impulsively applied at a time of <time tag> +½ (MAN\_DURA).”If mass is not constant, the thrust in the second half is more efficient than in the first half, so that the DV should not be applied at mid – thrust time. Should this be always neglected ?  | Alain LAMY - CNES | For discussion  |  |
| 6.28 | Table 6.8 |  | te | THR\_DMASS: Additional mass change beyond …For information: what can it be for instance ?  | Alain LAMY - CNES |  |  |
| 6.28 | Table 6.8 |  |  | DEPLOY\_DV\_X, …I think it has already been discussed, but the DV applies to the child not to the parent. Because the ODM applies to the main spacecraft, and because we’re mainly interested in the impact on the main spacecraft (I suppose), wouldn’t it be more logical to give the DV resulting on the main spacecraft instead of the DV acting on the children ?  | Alain LAMY - CNES | For discussion |  |
| 6.28 | Table 6.8 |  |  | DEPLOY\_DV\_RATIO : Do the bars above the DV mean “vector” ? They should be replaced by arrows for less confusion.  | Alain LAMY - CNES |  |  |
| 6.28 | Table 6.8 |  |  | DEPLOY\_DV\_RATIO : It is said “as well as any rotationaltorque acted upon the host …” Question : How can you take this rotational impact into account using a multiplying factor ?  | Alain LAMY - CNES |  |  |
| 6.28 | Table 6.8 |  |  | DEPLOY\_DV\_CDA: Question : what is this keyword used for ?  | Alain LAMY - CNES | Add information if this keyword is really necessary |  |
| 6.29 | 6.2.8.15 |  |  | The example of time stamp is 2018-11-13T11:13:20.5ZIs the “Z” really allowed ?  | Alain LAMY - CNES |  |  |
| 6.29 | 6.2.8.15.1 |  |  | I don’t understand the link between “acceleration, impulsive ΔV, and thrust parameters shall not be additive” and “applied at a time tag of Tstart + ½ (MAN\_DURA)” | Alain LAMY - CNES |  |  |
| 6.33 | Table 6.10 |  |  | MAN\_CENTER\_NAME : Is this really necessary ? What is it used for ?  | Alain LAMY - CNES |  |  |
| 6.33 | Table 6.10 |  |  | GRAV\_ASSIST\_NAME: in the description (and the examples) can be the solar system barycenter. Seems strange ! In the the examples : EARTH\_SUN\_L2 : seems strange too !  | Alain LAMY - CNES |  |  |
| 6.38 | Table 6.11 |  |  | CENTRAL\_BODY\_ROTATION: I wonder if the “inertial” reference frame is precise enough (as the Z axis is not perfectly inertial). But this may be a negligible fact.  | Alain LAMY - CNES | Add something in the description.  |  |
| 6.38 | Table 6.11 |  |  | OBLATE\_FLATTENING : why specifying the inverse ? It prevents the user from using a spherical body (for simple cases)  | Alain LAMY - CNES |  |  |
| 6.46 | Table 6.11 |  |  | USER\_DEFINED : Maybe add the syntax allowed for these parameters: For instance (TBC) : * uppercase only
* A-Z + “\_” only and beginning with letter
 | Alain LAMY - CNES |  |  |