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|  | Question | Page(s) | Date | Answer/Confirmation | Date | Notes |
| **1** | **DB Alteration**: a column was added to JOB\_TRACKING to identify what is the data type being processed: CSV, SERD or data entry. | 11 | 2024-04-09 |  |  |  |
| 2 | Are there limitations of Job Types according to the data types?  JOB\_TRACKING. JOB\_TYPE\_NUMBER / MEDS\_ROCESSING\_JOB.DATA\_TYPE | 11 | 2024-04-09 | No. It’s up to the user to choose appropriate values. |  | v2 enhancements |
| 3 | Configurations were added to JOB\_LOOKUPS to set:   * the default JOB\_TRACKING.JOB\_STATUS * default interval for the QA Processing Target date, from the JOB\_TRACKING creation date | 11 | 2024-04-09 |  |  |  |
| **4** | **DB Alteration**: sequences were linked to JOB\_TRACKING.MEIC\_NUMBER and MEDS\_PROCESSING\_JOB.JOB\_NUMBER (respectively MEIC\_NUMBER\_SEQUENCE, JOB\_NUMBER\_SEQUENCE) | n/a | 2024-04-09 |  |  | Sequences were restarted with the highest current values for the columns. |
| 5 | When is it possible to delete a JOB\_TRACKING record?   * Deletion is possible in any status, including COMPLETED? * Should the linked MEDS\_PROCESSING\_JOB record be deleted as well? * What if there was a file uploaded? Would the upload change the job tracking status to COMPLETED, so no deletion is possible?? | 11 | 2024-04-09 | Never |  | v2 enhancements |
| 6 | The following fields are not consistent, how does job type works?   * JOB\_TRACKING.JOB\_TYPE\_NUMBER is populated by MEDS\_JOB\_TYPE.JOB\_TYPE\_NUMBER * MEDS\_PROCESSING\_JOB.DATA\_TYPE has three possible links using JOB\_LOOKUPS.DATATYPE = ‘Data Type’:   + Some records link via JOB\_LOOKUPS.DESCRIPTION   + Some records link via JOB\_LOOKUPS.USAGE   + Some records don’t link at all   This could be old data, so we would like to know how to proceed with new records. | 3001 | 2024-04-09 | There is no relationship between JOB\_TRACKING.JOB\_TYPE\_NUMBER and MEDS\_PROCESSING\_JOB.DATA\_TYPE |  |  |
| 7 | Confirm content equality:  job\_tracking.source = meds\_processing\_job.originator  Job\_tracking.classification = meds\_processing\_job.protection | 11  3001 | 2024-04-15 | Source: yes, except for SERD. SERD originator comes from content FILE\_CODE  Classification: yes |  |  |
| 8 | The content of the file 7173\_aquapack\_profile\_data.csv is different from the table aquapack\_profile\_data:   * the file has 17 columns * the table has 46 columns * could not find the correct field index key (FIELD\_LOOKUP table) | n/a | 2024-04-16 | Not all columns need to be populated. We may need to further clarify. |  |  |
| 9 | The content of the table FIELD\_LOOKUP for the structure of OMNI\_AMBIENT is different from the CSV file.  The four first columns in the file are:   * Date (date) * Time (time) * time (time) * month (number)   The four first fields in FIELD\_LOOKUP are:   * time (time) * month (number) * HZ\_3\_15 (number) * HZ\_4 (number) | n/a | 2024-04-16 | FIELD\_LOOKUP: FIELD\_POSITION is continuous across all destination tables, irrespective of which, so we should query “where  data\_type\_index = <?> order by field\_position” to get the target table.  FIELD\_LOOKUP:FIELD\_TYPE references DATA\_TYPES\_TABLE.TYPE\_INDEX, where DESCRIPTION may say “… as consecutive fields”, so that e.g. for OMNI\_AMBIENT data (DATA\_TYPE\_INDEX = 16), DATE\_RECORDED is a single column in the target table (OMNI\_AMBIENT\_OBSERVATION) to be populated by converting CSV columns 1 and 2 into an Oracle DATE |  |  |
| 10 | In the sample data sent, what is the content of the folder ADCP\_OS? |  |  | It’s CSV format data, where FIELD\_LOOKUP.FILE\_EXTENSION tells us that \*.hdr files populate ADCP\_DATA and ADCP\_OBSERVATION, whereas \*.dat files populate ADCP\_REPEAT |  |  |
| 11 | How can we relate a csv file with a table?  The sample *7173\_aquapack\_profile\_data.csv* is 'Aqua Shuttle Profile', 'Aqua Shuttle Track', '2081 Track', 'Biological CTD Profile Original' or 'Aqua Pack Job Table' (they all have ‘AQUA’ in job\_lookups.data\_type and none has .csv as extension)). |  |  | Confusion arises because we don’t have up-to-date JOB\_LOOKUPS and FIELD\_LOOKUP data. Action for Steve |  | New sample data sent |
| 12 | Define the JOB\_TRACKING.STATUS rules:   * Can we change status once the file is loaded? * Can we change status once the observation tables are loaded? * Any other rules? |  |  | The default is In Progress. There are no other rules. |  | v2 enhancements |
| 13 | In the case the application is building a generic CSV upload, how will it differentiate between job types that will generate data & observation only:   * GLIDER\_THREADED\_DATA * GLIDER\_THREADED\_OBSERVATION   and those that will generate more than those two, as in:   * EDDY\_SATELLITE\_DATA * EDDY\_SATELLITE\_OBSERVATION * EDDY\_SATELLITE\_REPEAT   Or even:   * MLO\_CETACEANS\_DATA * MLO\_CETACEANS\_OBSERVATION * MLO\_CETACEANS\_ENVELOPE * MLO\_CETACEANS\_TRACK |  |  | GLIDER\_THREADED\_DATA  GLIDER\_THREADED\_OBSERVATION  Driven by FIELD\_LOOKUP.DATA\_TYPE\_INDEX etc.  EDDY\_SATELLITE\_DATA  EDDY\_SATELLITE\_OBSERVATION  EDDY\_SATELLITE\_REPEAT  Import of EDDY data is out of scope. Steve to supply full out-of-scope list.  MLO\_CETACEANS\_DATA  MLO\_CETACEANS\_OBSERVATION  MLO\_CETACEANS\_ENVELOPE  MLO\_CETACEANS\_TRACK  Driven by DATA\_TYPE\_INDEX which for  CETACEANS is 25, and this excludes ENVELOPE and TRACK tables that are no longer to be populated but retained purely for visualisation. |  |  |
| 14 | Explain how and where the tables TAB\_COLUMNS, MLO\_DATATYPE and MLO\_COLUMNS are used.  Will we need it? |  |  | These are legacy tables that we will retain but can all be ignored, as can EVENT\_LOG and EVENT\_TYPE |  |  |
| 15 | ~~The SERD documentation implies that in the header, comments are from 217 to 847, and are sized 70 characters, which will give a max of 9 comments.~~  ~~However, the samples sent have much more comments per line that that.~~  ~~Could we have a updated rule for comments?~~ | ~~n/a~~ | ~~2024-04-18~~ |  |  |  |
| 16 | The following SERD fields are supposed to be numbers, but in some records the values are ‘+ ‘.   * Can it be fixed in the sources? * Can it happen in any numeric field? * It is an old sample, and the problem has been fixed? * Should we cater for it? * Could other values appear in different files?   Fields:   * temperature\_correction * salinity\_correction * sound\_velocity\_correction * data\_type\_code | n/a | 2024-04-18 | See specification of these in SERD\_format\_OFFICIAL.docx for explanation |  |  |
| 17 | The fields atmospheric\_pressure and min\_observation\_depth have ‘-‘inserted in the last line of the sample (6-54) :   * Can it be fixed in the sources? * Can it happen in any numeric field? * It is an old sample, and the problem has been fixed? * Should we cater for it? * Could other appear in different files? | n/a | 2024-04-18 | See specification of these in SERD\_format\_OFFICIAL.docx for explanation |  |  |
| 18 | The SERD documentation allow us to map the header, but there are more fields in the records type 2 and 3, and they are not described in the document. | n/a | 2024-04-18 | Column position 88 to 111 of a type 3 record are repeated n times. |  |  |
| 19 | Are SERD comments being sent currently? | n/a | 2024-04-18 | Yes |  |  |
| 20 | Once a file is uploaded, how do the user confirm it, so the job status can be updated? Do they verify the records somehow? | n/a | 2024-04-23 | Manual update of Job Tracking status |  |  |
| 21 | What is the table OBSERVATION, what is it used for, and do we need to populate it? | 3004 | 2024-04-23 | Users’ selection of date placed on the map. Probably not needed. |  |  |
| 22 | Why is the Generic Editor necessary? |  | 2024-04-23 | For form-based manual input. |  |  |
| 23 | Are there any file naming conventions for the SERD and CSV files we should be aware of / can make use of? | n/a | 2024-04-23 | No |  |  |
| 24 | What is the repeating part of the SERD records that is not in the documentation sent? | n/a | 2024-04-23 | See 18 |  |  |
| 25 | What JOB\_LOOKUPS.GENERIC means? Can we trust it and make use of it? | n/a | 2024-04-24 | To do with legacy menu positioning. Ignore. |  |  |
| 26 | SERD fields can be found in FIELD\_LOOKUP, as.CSV.. Should we worry about it? | n/a | 2024-04-23 | Ignore them |  |  |
| 27 | Could Steve confirm what these comments mean?   * S Data only * Output only (what is, confirm what we need to do) * Confirmation what is the red formatting |  |  | Covered. |  |  |
| 28 | More details are needed on the data types of DATATYPE\_TABLE | n/a | 2024-04-23 | Covered for now |  |  |
| 29 | What are the SDO\_GEOMETRY fields for? Do we need them in input, output, maps?   * To insert the LOCATION fields, we need SRID data. * To be able to have the fields populated in dev, so we can build exports as needed, we need SRID data | n/a | 2024-04-24 | Covered for now, explore later |  |  |
| 30 | Could Steve confirm the assumption that, at the table AQUAPACK\_PROFILE\_DATA, **PROFILE**\_**ID** is always also saved as **MEDS\_OBSERVATION\_NUMBER**? | n/a | 2024-04-25 | In principle, yes. To confirm when more data loaded |  |  |
| 31 | The table OMNI\_AMBIENT\_OBSERVATION has the fields:   * LATITUDE NUMBER(12,6) * LONGITUDE NUMBER(12,6)   However, in the sample sent, there are many rows with LONGITUDE with more decimals (ex: -0.0827778).  When parsing the csv, the value is being truncated by the DB.  What do we do?  (It might explain the reason of question 31 issue) | n/a | 2024-04-26 | Redefine lat and long columns as NUMBER |  |  |
| 32 | OMNI\_AMBIENT has more observations than data for the job sample sent. How is that possible? | n/a | 2024-04-26 | Steve will investigate |  |  |
| 33 | How can we get latitude and longitude from the SERD file field values? | n/a | 2024-04-30 | Steve to give us the algorithm |  |  |
| 34 | How do we get the fields MEDS\_SHIP\_NUMBER and MEDS\_CRUISE\_NUMBER from the SERD fields SHIPNUMBER, SHIPCODE and ORIGINATORCRUISE? | n/a | 2024-04-30 | Derived from CRUISE\_LAYER and PROFILE\_INDEX  SHIP\_DETAILS gets populated from SERD COUNTRY\_CODE and SHIP\_NUMBER, and VESSEL\_NAME from JOB\_TRACKING.SUPPLIER |  | Implemented |
| 35 | BIOLUMINESCENCE\_DATA.ARCHIVED (and probably on other tables) is a text field containing a text date. Is it used for anything? |  |  | Came from original Excel data.  No longer of interest |  |  |
| 36 | Could the job types be confirmed?   |  |  |  | | --- | --- | --- | | 0 | UNKNOWN |  | | 1 | SV Probes | SERD | | 2 | CTD | SERD | | 3 | XCTD | SERD | | 4 | VOS |  | | 5 | ARGO |  | | 6 | Seabed\_Samples\_H575 | CSV | | 7 | XSV | SERD | | 8 | XBT | SERD | | 9 | Omni\_Ambient | CSV | | 29 | Sub-bottom Profiler |  | | 11 | Directional |  | | 12 | Secchi\_Disk |  | | 13 | Biolumin\_H636 | CSV | | 14 | Marine\_Life\_H637 |  | | 28 | Beach\_data |  | | 16 | Sonar\_2081 |  | | 17 | Aquashuttle |  | | 31 | Glider |  | | 19 | Miscellaneous |  | | 20 | Exchange |  | | 21 | Fronts |  | | 22 | Sea\_Ice |  | | 23 | Internal\_Waves |  | | 24 | HOOD Update |  | | 32 | REMUS 100 ADCP |  | | 26 | ADCP |  | | 27 | Seasoar |  | | 30 | AIS Shipping |  | | 33 | REMUS 600 ADCP |  | | 34 | MLO\_Seabed\_Contacts |  | | 38 | Float |  | | 35 | Sonar\_2115 |  | | 36 | PAM |  | | 37 | Ecopuck |  | | n/a | 2024-05-01 | Sent by Steve on 2024-05-02   |  |  |  | | --- | --- | --- | | 0 | UNKNOWN | *None Loaded* | | 1 | SV Probes | SERD | | 2 | CTD | **SERD**/CSV | | 3 | XCTD | SERD | | 4 | VOS | SERD | | 5 | ARGO | SERD | | 6 | Seabed\_Samples\_H575 | *None Loaded* | | 7 | XSV | SERD | | 8 | XBT | SERD | | 9 | Omni\_Ambient | CSV | | 29 | Sub-bottom Profiler | *None Loaded* | | 11 | Directional | *Export only* | | 12 | Secchi\_Disk | CSV/Forms/H635 | | 13 | Biolumin\_H636 | CSV/Forms | | 14 | Marine\_Life\_H637 | CSV/Forms | | 28 | Beach\_data | *Export only* | | 16 | Sonar\_2081 | CSV | | 17 | Aquashuttle | *None Loaded* | | 31 | Glider | CSV/SERD | | 19 | Miscellaneous | CSV/Forms | | 20 | Exchange | CSV/SERD | | 21 | Fronts | CSV | | 22 | Sea\_Ice | *None Loaded* | | 23 | Internal\_Waves | *Export only* | | 24 | HOOD Update | *Export only* | | 32 | REMUS 100 ADCP | *None Loaded* | | 26 | ADCP | CSV | | 27 | Seasoar | *Export only* | | 30 | AIS Shipping | *Export only* | | 33 | REMUS 600 ADCP | *None Loaded* | | 34 | MLO\_Seabed\_Contacts | Forms | | 38 | Float | SERD | | 35 | Sonar\_2115 | CSV | | 36 | PAM | *None Loaded* | | 37 | Ecopuck | *None Loaded* | |  |  |  | |  |  |
| 36 | Could the structure of the table INSTRUMENT be explained?  OCEAN (instrument code?)  DESCRIPTION  NEBT  SERD  NODEF\_  DATA\_TYPE (values are 1, 2 or 3) | n/a | 2024-05-01 | SERD file instrumentcode = instrument.ocean, which is saed I the PROFILE\_INDEX tables.  Data type  1 = temperature only  2 = temperature salinity  3 = sound velocity |  | Implemented (both) |
| 37 | What is the format mask for the depth measurements temperature, salinity and sound velocity (ex: 15097 – 1,509.7/150.97/15097.00/?) | n/a | 2024-05-01 | Temperature  12.12  Salinity  35.481  Sound Velocity  1499.6 |  | Implemented |
| 38 | Confirm there is always one PROFILE\_HEADER, for each PROFILE\_INDEX. | n/a | 2024-05-01 | 1 to 1, confirmed. Mandatory |  | Implemented |
| 39 | Confirm that in the SERD files each main record is an observation | n/a | 2024-05-01 | Confirmed |  | Implemented |
| 40 | In the sample file *6601\_Temperature\_SV.srd* states the depth level numbering sometimes starts with 1, sometimes starts with 0. Does that matter? | n/a | 2024-05-01 | Confirmed, no practical effect |  |  |
| 41 | What is the field depth indicator code (position 848)? Do we need it? Where is it saved? | n/a | 2024-05-01 | Mapped |  | Implemented |
| 42 | Confirm SERD fields mapped to PROFILE tables. | n/a | 2024-05-01 | In progress |  | Implemented |
| 43 | Confirm PROFILE\_INDEX\_\*.MEDS\_CRUISE\_NUMBER comes from MEDS\_PROCESSING\_JOB. MEDS\_CRUISE\_NUMBER?  (If so, the filed will be mandatory when SERD) | n/a | 2024-05-01 | Cruise number comes from cruise table and also recorded at the upload |  | Document and confirm |
| 44 | Confirm SERD relationships:   |  |  |  | | --- | --- | --- | | **Job Type** | **Data Use** | **Tables** | | 8 (XBT) | 5 | PROFILE\_HEADER\_TONLY, PROFILE\_INDEX\_TONLY, PROFILE\_DATA\_TONLY | | 1 (SV Probes) | 4 | PROFILE\_HEADER\_SV, PROFILE\_INDEX\_SV, PROFILE\_DATA\_SV | | 2 (CTD) | 2 | PROFILE\_HEADER\_TS, PROFILE\_INDEX\_TS, PROFILE\_DATA\_TS | | n/a | 2024-05-01 | Use INSTRUMENT table, not JOB TYPE for the tables |  | Implemented |
| 45 | Data exports to a bespoke text format GPPDB format. | n/a | 2024-05-01 | Documentation sent by Steve on 2024-05-02 |  |  |
| 46 | Can a ship\_detail record be ICES and MIAS at the same time?  Could the correct algorithm to create the records be confirmed?  *If the ship in the SERD file exists for the country code, ship number, ship flag, mias code, mias flag and also the name informed in job tracking then*  *Get the oldest meds\_ship\_number found*  *Else*  *Create a new meds\_ship\_number*  What if there are more than one record for the ICES or MIAS ship number? | n/a | 2024-05-02 | Business rule: a new ship detail row will be created for every SERD upload.  MEDS\_PROCESSING\_JOBS will be updated once the SERD file is submitted to PROFILE, whit the newly created ship\_details records | 2024-05-08 | Implemented |
| 47 | Confirm we can always save the vessel name (ship) in uppercase. | n/a | 2024-05-02 | ok |  | Implemented |
| 48 | It appears the number of comments is not coherent with the fields as of 70 bytes parts. Are the comments separated somehow or should them be formatted (left, trim)? | n/a | 2024-05-02 |  |  |  |
| 49 | Confirm the mapping for the source of the fields:  profile header:  file\_filler  hood\_cruise\_id 66  ~~profile index:~~  ~~meds\_cruise\_number~~ | n/a | 2024-05-03 | File\_fille = 1  Hood\_druise = 66 |  |  |
| 50 | A SERD file can contain more than one SERD instrument code.  Could the instruments generate different kinds of profile data?  With that field, the procedure will get the DATA\_TYPE in the table INSTRUMENT to know which SERD tables to insert, and the field OCEAN, to save in them instead of what of the original alphanumeric content sent.  What do we do with MEDS\_PROCESSING\_JOB.INSTRUMENT\_CODE, considering that there are multiples?? | n/a | 2024-05-08 | The files should not have different data types even if they might have different instruments.  It would not be possible to update MEDS\_PROCESSING\_JOB.INSTRUMENT\_CODE if multiple instruments are found. |  | Implemented |
| 51 | Confirm business rules:   * New cruise   + As the processor is managing the job, he/she creates the cruise in a dedicated dialog, and assign to the job * Existing cruise   + As the processor is managing the job, he/she chooses the cruise in the list * ~~Error when cruise is different between SERD file and MED\_PROCESSING\_JOB~~ | n/a | 2024-05-08 | Confirmed as written beside |  | Implemented |
| 52 | The current application manual states that up to 255 SERD files can be uploaded at once.  Are those always from a continuous observation? They will be saved with the same job number | n/a | 2024-05-08 | If multiple files are uploaded, they will be in the same job, and obviously **same data type.**  Steve could not recall occasion for many files to be uploaded |  | Implemented |
| 52 | Could the business rules for IPR be clarified? | n/a | 2024-05-08 | Not in scope. |  |  |
| 53 | Are cruise and ship numbers informed for CSV or FORMS? | n/a | 2024-05-08 | Cruises are created/ populated for all data inputs. Ship details numbers are created by SERD upload only. |  | Implemented for CSV  Implemented for SERD |
| 54 | Returning to the OMNI\_AMBIENT\_DATA and OMNI\_AMBIENT\_OBSERVATION tables:   * Table definition does not alight with sample sent: * That might explain why there are different numbers of records in the tables (observations without data) | n/a | 2024-05-09 | See question 66 |  | Closed |
| 55 | **Selection of data for representation on a map**  Is it the case that all mapped data is to be restricted by both date and location?  If not, what are the exceptions, and what are the implications for the question 56? |  |  | OK |  |  |
| 56 | **Selection of data for representation on a map**  Excluding CRUISE\_LAYER, MLO\_CETACEANS\_TRACK, and IW (image) tables, the tables with both date and location are:  Does this list define   1. Exactly 2. Fewer than 3. More than   the tables that are to be mappable? If not Exactly, what tables need to be added, what can be discarded?  Can FRONT tables be discarded? (The only data we have is from the 1980s). |  |  | OK |  |  |
| 57 | The jellyfish form sent as sample looks identical to cetaceans. Is that correct? | n/a | 2024-05-14 | Forms can report different data types | 2024-05-15 |  |
| 58 | Could different forms be used to enter data for the same observation domain? | n/a | 2024-05-14 | Forms can report different data types | 2024-05-15 |  |
| 59 | Do we need to capture the field Archived in all input forms? | Input forms | 2024-05-15 | Ignore the field in the manual entry and reports | 2024-05-15 | Implemented |
| 60 | For the deep scattering form, what is the unit (if any) for sea state (0-9)? | 2131 | 2024-05-15 | It is a code from 0 to9, Steve might be able to get the labels for the values | 2024-05-15 | Implemented |
| 61 | Deep Scattering:  Confirm that for the END\_LAT\_LONG field, the minute decimals are just 2 digits, since sample data only has two rows. | 2131 | 2024-05-15 |  |  |  |
| 62 | Do we need to capture the fields below present in some DATA tables? It is always null in the sample data and not in the forms.   1. Record Number 2. Person Name 3. Heading 4. SST (jellyfish) 5. Speed | All | 2024-05-15 |  |  |  |
| 63 | Confirm the fields that should be in the UI for cetaceans, specially PISCES\_GENUS and PISCES\_SPECIES | 2141 | 2024-05-16 |  |  |  |
| 64 | Unable to create indexes for:  SI\_EDDYSATELLITE ON EDDY\_SATELLITE\_OBSERVATION  SI\_FRONTFWOC ON FRONT\_FWOC\_OBSERVATION  SI\_FRONTGRID ON FRONT\_GRID\_OBSERVATION  SI\_FRONTMEAN ON FRONT\_MEAN\_OBSERVATION  SI\_FRONTSATELLITE ON FRONT\_SATELLITE\_OBSERVATION  SI\_FRONTSURVEY ON FRONT\_SURVEY\_OBSERVATION  SI\_MLO\_CETACEANS\_ENVELOPE ON MLO\_CETACEANS\_ENVELOPE  SI\_MLO\_CETACEANS\_TRACK ON MLO\_CETACEANS\_TRACK  SI\_SEASOAR\_TOW ON SEASOAR\_TOW\_OBSERVATION  SI\_TIFF\_CHARTS ON TIFF\_CHAR | n/a | 2024-05-20 |  |  |  |
| 65 | Should the various fields capturing ship in the manual observations (ship/vessel/platform) be saved in SHIP\_DETAILS as SERD files (and get a MEDS ship #? | n/a | 2024-05-21 |  |  |  |
| 66 | OMNI\_AMBIENT\_DATA structure is different than the SQL sample sent (I added the extra columns, so could insert the data, then removed the columns) | n/a | 2024-05-21 |  |  |  |
| 67 | Confirm omni ambient has one observation/data per row in the CSV | n/a | 2024-05-21 |  |  |  |
| 68 | Explain the usage of the fields ID\_QUALITY and COUNT\_QUALITY | n/a | 2024-05-22 |  |  |  |