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|  | BSH | Item 1 | Table of additional vertical datums | ge | The proposed extensions have a direct impact on the S-102 Ed. 2.0.0 clause 12.7.4. The product specification must be adapted by the proposed change. It cannot be ruled out that other product specifications that use S100\_VerticalAndSoundingDatum will also need to be adapted. | Postpone the proposal until a concrete impact analysis is available from the proposer. |  |
|  | BSH | Item 1 | Table of additional vertical datums | te | The adding of further vertical datums to the enumeration leads to mandatory changes in all S-1xx product specifications that are based on the HDF5 format (e.g. S-102) (cf. S-100 Part 10c). For the implementation of an enumeration in HFD5 it is necessary to specify all possible values of the enumeration at the respective attribute. A change of the enumeration therefore has direct effects on all already implemented software products that allow the creation of S-100 products based on HDF5 (e.g. BSH own software, Caris HPD, NOAA S100py-API). Furthermore, additional vertical datums lead to a larger amount of data due to the implementation type of enumerations in HDF5. | Restrict all further extensions to the enumerations and S100\_Codelist's in S-100.Further extensions to enumerations and S100\_Codelist's should only be possible after prior analysis of all HDF5-based product specifications in collaboration with the respective PT. |  |
|  | BSH | Item 2 | Codelist value “other” | ge | A vertical datum that does not need to be processed by the software has no advantages and should be converted into a datum that must be processed. The introduction of a value "other" would only serve a niche market. However, the impact of the implementation is significant and, in our view, does not justify the benefit. | The introduction of the value "other" should be omitted. This would also eliminate the need to switch from enumeration to S100\_Codelist. |  |
|  | BSH | Item 2 | Switch to Codelist | te | The change from an enumeration to an S100\_Codelist has a direct impact on all S-100 products that are based on the HDF5 format. An S100\_Codelist is implemented in HDF5 in a fundamentally different way to an enumeration (see S-100 Ed. 4.0.0 Part 10c Table 10c-1) (enumeration vs. Compound (Enumeration, variable-length string)). Due to the change all HDF5 reading and writing software products have to be adapted (e.g. BSH own software, Caris HPD, 7Cs software, NOAA S100py). No particular benefit from the change to S100\_Codelist and the introduction of the "other" value is apparent. | We recommend rejecting the change from an enumeration to the S100\_Codelist. |  |