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| **Item #** | **Type** | **Page #** | **Line #** | **Section** | **Comment (with rationale)** | **Suggested Change/Modification** |
| 1 | E |  |  |  | Our primary technical challenge includes maximizing data protection through security and privacy engineering. Interrelatedness could be further expressed as cross-sectional or fabric or simply at this stage as interrelatedness—allowing the field to mature before defining further.  It is the interrelatedness that is the most important not that there are 4 or 5 or X segments. | “[A] definition of Big Data can be constructed by considering the essential technical characteristics in the field of study. These characteristics tend to cluster into the following interrelated segments in which data protection is maximized through security and privacy engineering: |
|  |  |  |  |  |  | 1. Irregular or heterogeneous data structures, their navigation, query, and data-typing (i.e., variety) while maximizing data protection through security and privacy engineering; |
|  |  |  |  |  |  | 2. The need for computation and storage parallelism and its management during processing of large data sets (i.e., volume) while maximizing data protection through security and privacy engineering; |
|  |  |  |  |  | Real-time decision-making has not been defined. I recommend striking for now. | 3. Descriptive data and self-inquiry about objects for decision-making (i.e., validity/veracity) while maximizing data protection through security and privacy engineering; |
|  |  |  |  |  |  | 4. Documenting the rate of arrival of the data (i.e., velocity) while maximizing data protection through security and privacy engineering; |
|  |  |  |  |  |  | 5. Aggregation and presentation of such data sets (i.e., visualization) while maximizing data protection through security and privacy engineering; |
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