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| **Item #** | **Type** | **Page #** | **Line #** | **Section** | **Comment (with rationale)** | **Suggested Change** | **Disposition** |
| 1 | E | 48 |  | 7 | While Management Fabric [and SnP Fabric] is mentioned in the Keywords section, there is no further mention of the concept anywhere in the rest of the document. Personally, the fabric concept seems very closely intertwined with data integration, with some overlap into data governance. | Consider the following notes on the fabric concept and improve on it; or create all new content defining ‘fabric’ and put the new content into section 7.2, or create a new section 7.3 to treat the definition separately. Maintain consistency with Vol. 4 of course. Notes: In 2014 Cisco published a report on technology which declared that big data fabric is essentially made up of Hadoop frameworks, NoSQL databases, and “Other big data tech.” This definition is certainly not comprehensive enough. As presented in their 2016 Wave for Big Data Fabric Vendors, fabric functions involve: “access, discovery, transformation, integration, security, governance, lineage, and orchestration of big data sources to support big data workloads and use cases.” Unfortunately, some of the other descriptions for Fabric features coming out of this report sound a little vapor-ware-ish, however the 2014 Forrester Wave for MDM does provide some additional, realistic definition: [For vendors p, q, r, s and t]… “MDM exists within a comprehensive portfolio of products to help… create a fabric to integrate data and application infrastructure.” This definition of fabric keeps it in line with the concept of a quilt, in essence a scaffolding to support integration, which seems comprehensive enough and yet easy to grasp. | Modify  Add paragraph describing fabric to 6 S&P, add in a definition, and then mention fabric in 7 wrt management |
|  |  |  |  |  |  | Unfortunately we are now presented with another term that is not defined in Vol. 1, “application infrastructure.”  One could start by describing an App Infrastructure as basically a platform for building applications or ensuring that different apps work together. | Reject  Common usage long before big data |
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**Nancy Grady proposed the following text as an inclusion for fabric:**

Volume 1

Insert Line 1049

Security and Privacy concerns are present throughout any big data system. In the past, security focused on a perimeter defense, but now it is well-understood that defense-in-depth is critical. Security standards define a number of controls at each interface and for each component. Likewise, privacy is a concern for big data systems that can create privacy concerns through the fusion of multiple datasets, or the granularity of the data being collected. The term security and privacy fabric in the context of NIST Big Data Reference Architecture (ref. Vol. 6 Section 3) describes the presence of security and privacy concerns in every part of a big data system.

*Fabric represents the presence of activities and components through-out a computing system*

Volume 1

Insert after Line 1058

Given the presence of management concerns and activities throughout any big data system, management is represented in the NIST reference architecture as a fabric, similar to its usage for security and privacy.

NOTE:

Volume 4 and 6 may also need to add in a clarifying description of fabric.