

	What do manufacturers want to accomplish?	Why does this not happen? Because:	What happens when it is not fixed ?
1	Improved Accuracy and control over garbage input of BOM's into ERP	Multiple data sets are in multiple application instances. Master data standards are not implemented.	Performance to Budget is severely affected. Information gaps, "brick walls" and silos prevail. <ul style="list-style-type: none"> <li>Flat file ASCII DUMP imports have a history of difficulties: "garbage-in; garbage-out".</li> </ul>
2	Elimination of Labor & redundant data entry	Individual applications require specific File to file customization / manual efforts. Coordination of departmental group to conform fails.	Performance to Time is affected due to lack of unified access to ERP from various islands of automation. <ul style="list-style-type: none"> <li>Data managed in flat files is cumbersome to use and costly to manage</li> </ul>
3	Efficiency and High level of productivity	Double or Triple entry of metadata (boms, parts etc.). Error Validation at every stage of release missing.	Costly information gaps, Increased costs and time consuming tasks. The Cost of an Error: <ol style="list-style-type: none"> <li>An error that is caught during design: \$ 1</li> <li>Same error not caught in manufacturing: \$ 100</li> <li>Same error not caught until customer finds it: \$ 1000</li> </ol>
4	Effective Part Sourcing	Paper Catalog & References are untied to ERP	Lack of MFG/Vendor weblinks and data spec coordination.
5	Ability to Apply Business Rules Verification	Lack of checks & balances across aggregated applications	Lack of control of the quality from internal as well as external dept.
6	Ability to work with Any Outsourced vendor	Lack of template driven flexible schema architecture for varied data types in CSV /XLS	Goals of outsourcing not met (i.e decreased cost & flexibility)
7	Ability to work with Any application AS IS	Framework is missing to share logic and data among disparate applications	Inability to work with new & existing software systems without IT overhead and modification
8	Ability to work with Legacy	Lack of Legacy integration templates	Leveraging hidden data assets in Legacy files are lost.
9	BOM /JOB consolidation	Lack of structure merge functionality from different data streams prior to mfg	Increased downstream costs, coordination and administration
10	Material /QTY consolidation	Manually counting and referencing of like materials	Missed items. Requisitions and procurement not optimized
11	Cross-Reference MFG part#	Manual Lookups from ERP systems cumbersome	Poorly coordinated material cross-references to ERP items
12	Auto Part Substitutions	Inability to find or reuse items	Ineffective use of stock, vendor
13	Standards across multiple plants and corporate sites	Design to release processes are varied and defined differently by each site	Product cannot be shifted to lower cost manufacturing site without shifting process overhead
14	Visual drag/drop BOM editing, Visual Corrections	Lack of system to support BOM based design/drawing connection	Affects timeline from concept to prototype, preproduction, release
15	Consolidated shared Item and material Masters	Multiple Plants have no way to share BOMs, inventory for design	Poor Inventory & BOM management across sites
16	Auto Referencing ItemMaster for items and non-items classification	Can't determine if it is already in the system for buy out parts and raw materials	Introduces part add redundancies and poor usage of inventory items, higher procurement costs
17	Powerful Taxonomy Search- to define consistency	No consistent naming conventions across workgroups or plants	Difficulty to enforce common nomenclature, processes and control ballooning IT overhead
18	Instant Document Associations for quick compliance /reference	Lack of integration to EDM and PDM or homegrown systems	Lack of access to metrics that help comply with ISO and customer documented standards
19	Powerful One Space for aggregated data	Lack of shared design to manufacturing workspace	Inability to replicate or "re-use", documents, ideas, jobs, etc.
20	Flexible revisioning to facilitate change & rework	Engineering changes are handled haphazardly and manually.	Increased time to manually coordinate changes, input.

**DOES YOUR ASCII DUMP OF ENGINEERING BOM's to ERP SOLVE ANY OF THESE ISSUES ?**

