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Obsolescence Issues for LHC Electronics

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Parts Obsolescence, Diminishing Manufacturing Sources and Material Shortages (DMSMS), and End of Life (EOL) are used interchangeably to describe a variety of sustainability problems. They range from being unable to purchase or procure parts, components, or subcomponents, to being unable to sustain major, complex systems due to a lack of component availability or may result in excessive cost. Unresolved DMSMS issues can cause loss of functionality, and reduced availability of a system which could delay valuable experiments.

There are several causes of DMSMS issues, most are out of the control of the user. I will describe how DMSMS problems affect the Defense and Aerospace Industries. I will show how our DMSMS issues and those of the Large Hadron Collider (LHC) maybe similar and why our proven solutions to them offer great promise for sustainment of the LHC. I will share lessons we have learned over the last 10 years in sustaining complex War-Fighter equipment, and how these lessons have been strategically applied to proactively resolve DMSMS problems. I will illustrate various ways our industry provides our customers maximum availability of the equipment through good DMSMS management practices, processes, tools and experienced DMSMS engineering analysis.

I will explain the complexities and subtleties of finding optimal, best-value solutions to DMSMS problems, that maximize the availability of the LHC and minimize unexpected costs.
Through various types of analysis, I will demonstrate how we evaluate multiple solutions for the best-value to the program and how to go about achieving these same results for the LHC.

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