

Commercial-Off-the-Shelf (COTS) Obsolescence Management

At ARINC, we know effective obsolescence management hinges on planning ahead and reducing total ownership costs. The earlier you begin to plan for obsolescence, the more effectively you'll be able to navigate the challenges of today's performance based logistics (PBL) and life cycle support environment.

Our obsolescence mitigation programs are designed to provide unbiased consulting services and processes—utilizing the latest available tools and techniques, including screening for lead-free or lead-based electronic components. We help you minimize the impact of obsolescence by working with you to develop and implement a sound management program—before sustainability and operational availability problems arise.

ARINC's expertise in every phase of the obsolescence life cycle will prepare your operations to handle the inevitable optimally.

ARINC's Obsolescence Management Program

- ▶ Evaluate alternative strategies for component replacement
- ▶ Determine future component availability
- ▶ Prepare component and material solution cost analyses
- ▶ Validate if elemental lead (Pb) is present or not by using XRF technology carefully optimized for solder analysis
- ▶ Prepare a Business Case Analysis (BCA) to determine total ownership cost and Return on Investment (ROI)
- ▶ Counterfeit parts mitigation
- ▶ Inventory management and long term storage of lifetime buys
- ▶ Prepare budget inputs

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DEDICATION BEYOND EXPECTATION



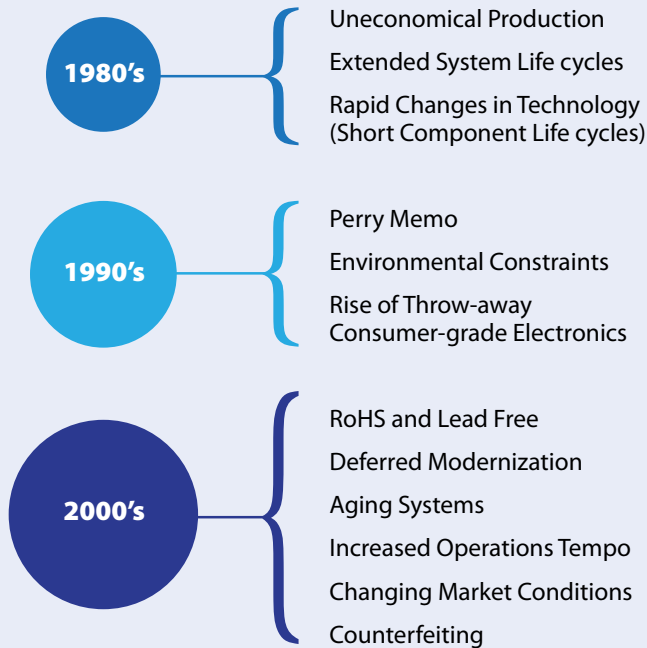
Award Winning Processes

- ▶ Develop and implement an obsolescence program for your entire bill of materials—both electronic and mechanical
- ▶ Identify all potentially affected items and help implement solutions
- ▶ Accurately determine spares depletion with our Operational Impact Analysis (OIA)
- ▶ Model operational availability and reliability impacts factoring in obsolescence
- ▶ Determine status of mechanical parts with ARINC Logistics Assessment & Risk Management System (ALARM)
- ▶ Determine optimized mix of spares providing the highest operational availability (Ao) over the life cycle
- ▶ Combined with the OIA, ARINC analyzes life cycle management costs to justify budgetary expenditures and help forecast optimal times for a technical refresh



Causes of Obsolescence

Each decade, the causes of obsolescence are being filled with more enablers.



ARINC, a portfolio company of The Carlyle Group, provides communications, engineering and integration solutions for commercial, defense and government customers worldwide. Headquartered in Annapolis, Maryland with regional offices in London and Singapore, ARINC is ISO 9001:2008 and AS9100 certified.

To learn more log onto arinc.com/dmsms or email dmsms@arinc.com

Operational Impact Analysis

Assembly Name	Initial Qty Spares	2010	2011	2012	2013	2014	2015	2016
Control Unit	3	G 2	G 1	Y 0	R -2	R -4	R -6	R -8
VHF Radio	5	G 5	G 5	G 5	G 4	G 4	G 4	G 3
Display Unit	2	Y 0	R -1	R -1	R -2	R -3	R -3	R -4
Power Supply	2	G 2	G 1	G 1	G 1	G 1	Y 0	Y 0
GPS	3	R -2	R -5	R -8	R -11	R -15	R -18	R -21

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