

CUSTOMER BENEFITS

- ◆ One-stop, single point of focus to resolve complex obsolescence management issues
- ◆ Creative, cost effective engineering solutions across a broad spectrum of component and system technologies: Same Design, Redesign, New Design; Your Choice
- ◆ Flexible, tailored solutions that fit a customer's schedule, budget, and program phase
- ◆ Customer product lifetimes are extended through Team utilization of obsolescence forecasting, emulation, technology insertion, and Design for Test (DFT)
- ◆ Sarnoff is a "Trusted Resource" of the U.S. Government having fabrication capabilities that reduce risk by ensuring Government acceptance
- ◆ Obsolescence management tools provide proactive, comprehensive, and accurate sustainment planning services for technology and budgets over a program's life-cycle
- ◆ Cross platform obsolescence management services allow multiple customers to pool funding resources to solve common problems
- ◆ Comprehensive, component to system level, reverse engineering services facilitate the resolution of obsolescence issues in the absence of data
- ◆ Customer's investment in legacy support equipment is preserved by ensuring backwards compatibility with legacy test methodologies and test interfaces

CONTACT INFORMATION

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TEAMING FOR OBSOLESCENCE PROTECTION



The MTI - Sarnoff Team was created to provide a comprehensive, integrated set of tools, services and products to rapidly identify and cost effectively facilitate single point solutions for obsolescence. The Team works with you to customize services to meet your budget, schedule and technical requirements.

“Questions we can answer for you include”:

- ◆ What is the viable service life of my system?
- ◆ What are the obsolescence issues impacting the service life of my system?
- ◆ What will be my sustainment budget for each remaining year of system service?
- ◆ What is the most economical approach to sustaining my system?
- ◆ Is my documentation sufficient and accurate enough to sustain my system?
- ◆ What are specific solutions for correcting and/or regenerating system data?
- ◆ What are specific solutions for replacing obsolete components and subsystems?
- ◆ What other systems or programs have similar obsolescence issues so that I can pool my budget and resources to solve common issues?

MTI is a leader in providing obsolescence prediction roadmaps, system level redesign, software upgrades, and subsystem manufacturing. The MTI AVCOM tool is the preferred obsolescence management tool of the USAF.

Sarnoff provides design and manufacturing services for F³I replacements of obsolete microcircuits and has been providing component replacement solutions for over 19 years. Its QML certified, US based wafer foundry is a “Trusted Resource” of the U.S. Government, supporting the semiconductor industry for over 30 years.

Many organizations provide limited services, but few offer the broad range of capabilities from system analysis to system solution. Together, the MTI-Sarnoff Team has the experience, know-how and proven track record to identify, evaluate and proactively solve your obsolescence from system design through deployment and sustainment.

PRODUCTION

Components: BICMOS, CMOS, BCDMOS, BIPOLAR, SOS, SOI, MEMS, & CCD technologies, laser trimmed thick film hybrids, and programmable logic (FPGAs, CPLDs)

CCAs: SMD, BGA, through-hole, wire-wrap, lead and lead-free, with associated in-circuit test, system test & alignment, burn-in, and environmental stress screening

Precision metal components

Military and commercial systems including support equipment systems

Technical data packages

Tamper proof encapsulation of IC products

VALIDATION, QUALIFICATION & TEST

Special test equipment development for production verification support

Environmental stress screening

Full environmental qualification (EMC/EMI, vibration, temperature, altitude, shock, particulate, submersion, HALT)

In-situ system validation

DESIGN/REDESIGN

Simulation of multi-level circuit (Digital, Analog/RF, and Mixed Signal)

Finite element method (FEM/FEA) based mechanical and thermal simulations

Development of FPGA, CPLD, and ASIC using VHDL modeling

DFT using boundary scan & other methodologies

Microcircuit emulation up to 1/2 million transistor products

LEGACY SYSTEMS

- ◆ Military air, land, and naval systems
- ◆ Power generation systems
- ◆ Medical systems
- ◆ Commercial aircraft

OBSOLESCENCE MANAGEMENT

Provision of AVCOM, the preferred obsolescence management tool of the USAF, and OASIS Tools

Acquisition, verification, and configuration management of component and IPB data

Identification and forecast of obsolete components at any level of indenture

Performance of legacy technology assessments

Identification of all possible alternate component sources (DLA inventory, after market sources, re-manufacturers, and alternate vendors)

Provision of Parts Discontinuation Notices & Life-of-Type Buy Decisions

Performance of obsolescence density analyses and prioritization of obsolescence issues

Decision support to identify “best” replacement solutions (technical and financial)

REVERSE ENGINEERING

Verification of legacy data

Regeneration of legacy data

Deconstruction and Characterization of components

Characterization of component systems at any level

Reverse engineering of components and systems

Generation of system specific solutions

