

Service Indicator Standard VITA 40-2002

Craig Hartley
Sun Microsystems

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Overview

Document is in an advanced draft stage ...

- Review of features
- Description of changes since the last presentation to VSO
- Open issues (or potential issues)
- Future planned activities

Recommended Standard

Review: Focus is on consistency and simplicity...

- 5 colors
- 6 states or behaviors
- Consistent placement and spacing
- Test for minimum luminance and viewing angle is specified
- Standard labels and icons
- Application strategy recommended

Five Colors

Each has a specific meaning...

- Red = “out of service”
- White = “here I am” or “Unit ID”
- Blue = “service action allowed”
- Amber = “service action required”
- Green = “normal” or “OK”

Six States or Behaviors

Each with specific ON/OFF timing...

- Off
- Steady On
- Standby Blink (repeating 250 ms ON followed by 1750 ms OFF)
- Slow Blink (1 Hz)
- Normal Blink (3 Hz)
- Feedback Flash (ON with brief periods of OFF commensurate with activity)

Change 1 - Mounting Options

Allows board designers more flexibility...
















- Relaxed requirement that LEDs be mounted in the middle of the short dimension
- Allows LEDs to be mounted on solder side OR component side of the board
- Change suggested by Michael Franco

Change 2 - Proposed Icons

Some things borrowed, some things new...

Standard VITA 40 Icons

Figure A.1

	<u>Normal</u>	<u>Inverse</u>	<u>Black Background</u>	<u>Indicator Color</u>
"Out of Service", "Major Fault", or "Critical Fault"				Red
"Here I am", " This Is The Item Being Sought" "Unit ID"				White
"Service Action Allowed"				Blue
"Attention", or "Service Action Required"				Amber
"OK", "Normal", "Satisfactory Operation", " Active", or "In Service"				Green

Issue 1 - Timing of Standby Blink

Based on human factors research...

- Need a working prototype to test the standby display timing to verify it is usable
- Repeating cycle of 250 ms ON followed by 1750 ms OFF

Issue 2 - VSO Consistency

For consistency...

- Need to be sure VITA40 and PICMG3 agree with one another:
 - Color
 - Behavior
 - Meaning
 - Icons
 - Placement Order
 - Spacing
 - etc.

Future Plans

Now released to group for review ...

- D1.0 version released for review today
- Includes ASCII text file, pdf summary table, and pdf figures
- Plan to seek ballots on D1.0 to establish level of support and identify issues
- Will begin regular e-mail communication to work through issues