

Service Indicator Standard VITA 40-2002

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Overview

Document is now out for ballot ...

- Review of features
- Description of changes since the last presentation to VSO
- Future planned activities

Recommended Standard

Review: Focus is on consistency and simplicity...

- 5 colors
- 6 states or behaviors
- Consistent placement and spacing
- Tests 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 100 ms ON followed by 2900 ms OFF)
- Slow Blink (1 Hz)
- Fast Blink (4 Hz)
- Feedback Flash (ON with brief periods of OFF commensurate with activity)

Change 1 - Standby Blink Rate

Designed to make blink pattern more intuitive ...

- Conducted usability tests with S/W prototypes
- Users preferred longer cycle of 3 sec. vs 2 sec.
- Users wanted minimum ON time and maximum OFF time
- Final recommended timing:
repeating 100 ms ON, 2900 ms OFF

Change 2 - Definitions

To improve document usability ...

- Changed symmetrical blink names to “Slow” and “Fast” to be more descriptive
- Developed operational definition for white (users say it is “white”)
- Rationalized colors based on just noticeable differences on CIE 1931 chromaticity diagram

Change 3 - Fast Blink Change

For better noticeability ...

- Changed FAST BLINK to 4 Hz from 3 Hz
- Helps distinguish “Locate” from other blinking lights

Change 4 - Document Format

Made more complete and more readable ...

- Was in ascii text
- Now fully formatted with integrated TOC, figures, and tables
- Added appendixes for glossary and references

Future Plans

Ballot period closes November 25th ...

- Talley ballots to establish level of support and identify issues
- Will begin e-mail communication to work through issues