



UL 1998

STANDARD FOR SAFETY

Software in Programmable Components

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UL Standard for Safety for Software in Programmable Components, UL 1998

Third Edition, Dated December 18, 2013

Summary of Topics

This revision of ANSI/UL 1998 dated November 16, 2022 includes the following:

- Removal of limitation to non-networked software; [1.5](#) and [1.7](#)***
- Update of definitions; [2.27](#) and Appendix [B](#)***
- Clarification of risk analysis scope and requirements; [3.1](#), [3.5](#) and [3.6](#)***
- Clarification of software development process requirements; [2.52A](#), [4.1](#), [4.6](#) and [4.7](#)***
- Clarification of tool requirements; [5.1](#)***
- Clarification of software design requirements; [6.8](#) – [6.10](#) and [12.2.3](#)***
- Clarification of measures to address systematic microelectronic hardware failures; [8.4](#)***
- Clarification of change management and document control requirements; [14.4](#) and [14.5](#)***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated August 8, 2022 and October 7, 2022.

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DECEMBER 18, 2013
(Title Page Reprinted: November 16, 2022)



ANSI/UL 1998-2022

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UL 1998

Standard for Software in Programmable Components

First Edition – January, 1994
Second Edition – May, 1998

Third Edition

December 18, 2013

This ANSI/UL Standard for Safety consists of the Third Edition including revisions through November 16, 2022.

The most recent designation of ANSI/UL 1998 as an American National Standard (ANSI) occurred on November 16, 2022. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

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