

Dated: June 24, 2025.

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*Deputy Commissioner for Policy, Legislation,
and International Affairs.*

[FR Doc. 2025-11961 Filed 6-26-25; 8:45 am]

BILLING CODE 4164-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2021-D-1158]

Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions; Guidance for Industry and Food and Drug Administration Staff; Availability

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice of availability.

SUMMARY: The Food and Drug Administration (FDA or Agency) is announcing the availability of a final guidance entitled “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions.” This guidance updates the previous version of the guidance, of the same title, issued on September 27, 2023, and finalizes the draft guidance entitled “Select Updates for the Premarket Cybersecurity Guidance: Section 524B of the FD&C Act” issued on March 13, 2024. This guidance provides FDA’s recommendations to industry regarding cybersecurity device design, labeling, and the documentation that FDA recommends be included in premarket submissions for devices with cybersecurity risk. Additionally, this guidance has been updated to identify the information FDA generally considers to be necessary for cyber devices to support obligations under the new amendments to the Federal Food, Drug, and Cosmetic Act (FD&C Act) for ensuring cybersecurity of devices.

DATES: The announcement of the guidance is published in the **Federal Register** on June 27, 2025.

ADDRESSES: You may submit either electronic or written comments on Agency guidances at any time as follows:

Electronic Submissions

Submit electronic comments in the following way:

- *Federal eRulemaking Portal:* <https://www.regulations.gov>. Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to <https://www.regulations.gov> will be posted to

the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as medical information, your or anyone else’s Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on <https://www.regulations.gov>.

- If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see “Written/Paper Submissions” and “Instructions”).

Written/Paper Submissions

Submit written/paper submissions as follows:

- *Mail/Hand Delivery/Courier (for written/paper submissions):* Dockets Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852.

- For written/paper comments submitted to the Dockets Management Staff, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in “Instructions.”

Instructions: All submissions received must include the Docket No. FDA-2021-D-1158 for “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions.” Received comments will be placed in the docket and, except for those submitted as “Confidential Submissions,” publicly viewable at <https://www.regulations.gov> or at the Dockets Management Staff between 9 a.m. and 4 p.m., Monday through Friday, 240-402-7500.

- **Confidential Submissions—**To submit a comment with confidential information that you do not wish to be made publicly available, submit your comments only as a written/paper submission. You should submit two copies total. One copy will include the information you claim to be confidential with a heading or cover note that states “THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION.” The Agency will review this copy, including the claimed confidential information, in its consideration of comments. The second copy, which will have the claimed confidential information redacted/blacked out, will be available for public viewing and posted on

<https://www.regulations.gov>. Submit both copies to the Dockets Management Staff. If you do not wish your name and contact information to be made publicly available, you can provide this information on the cover sheet and not in the body of your comments and you must identify this information as “confidential.” Any information marked as “confidential” will not be disclosed except in accordance with 21 CFR 10.20 and other applicable disclosure law. For more information about FDA’s posting of comments to public dockets, see 80 FR 56469, September 18, 2015, or access the information at: <https://www.govinfo.gov/content/pkg/FR-2015-09-18/pdf/2015-23389.pdf>.

Docket: For access to the docket to read background documents or the electronic and written/paper comments received, go to <https://www.regulations.gov> and insert the docket number, found in brackets in the heading of this document, into the “Search” box and follow the prompts and/or go to the Dockets Management Staff, 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852, 240-402-7500. You may submit comments on any guidance at any time (see 21 CFR 10.115(g)(5)).

An electronic copy of the guidance document is available for download from the internet. See the **SUPPLEMENTARY INFORMATION** section for information on electronic access to the guidance. Submit written requests for a single hard copy of the guidance document entitled “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions” to the Office of Policy, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, Rm. 5441, Silver Spring, MD 20993-0002. Send one self-addressed adhesive label to assist that office in processing your request.

FOR FURTHER INFORMATION CONTACT: Suzanne Schwartz, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, Rm. 5410, Silver Spring, MD 20993-0002, 301-796-6937; or Phillip Kurs, Center for Biologics Evaluation and Research, Food and Drug Administration, 240-402-7911.

SUPPLEMENTARY INFORMATION:

I. Background

Section 3305 of the Food and Drug Omnibus Reform Act of 2022, enacted on December 29, 2022, added section 524B “Ensuring Cybersecurity of Medical Devices” to the FD&C Act. Under section 524B(a) of the FD&C Act

(21 U.S.C. 360n–2(a)), a person who submits a 510(k), premarket approval application (PMA), product development protocol (PDP), De Novo, or humanitarian device exemption (HDE) for a device that meets the definition of a cyber device, as defined under section 524B(c) of the FD&C Act, is required to submit information to ensure that cyber devices meet the cybersecurity requirements under section 524B(b) of the FD&C Act.

FDA has updated the final guidance “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions” to identify the cybersecurity information FDA considers to generally be necessary to support obligations under section 524B of the FD&C Act for cyber devices. Specifically, the new section in this guidance discusses who is required to comply with section 524B, the devices subject to section 524B, and the documentation recommendations for applicable premarket submissions. Additionally, FDA provides recommendations regarding premarket submissions for changes to cyber devices that had been previously authorized by FDA through 510(k), PMA, PDP, De Novo, and HDE submission pathways, and that require premarket submission. The new section also discusses FDA’s review of whether there is a reasonable assurance that the device and related systems are cybersecure for marketing authorizations submitted for cyber devices. The new section of the guidance provides recommendations specifically for cyber devices, however, the recommendations throughout the guidance may help manufacturers of

cyber devices meet their obligations under section 524B of the FD&C Act.

This guidance updates the final guidance “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions.” This guidance also finalizes the draft guidance entitled “Select Updates for the Premarket Cybersecurity Guidance: Section 524B of the FD&C Act.” FDA considered the applicability of Executive Order 14192, per OMB guidance in M–25–20, and finds this action to be deregulatory in nature.

A notice of availability of the draft guidance appeared in the **Federal Register** of March 13, 2024 (89 FR 18421). FDA considered comments received and revised the draft guidance as appropriate in response to the comments, including providing additional examples to help clarify new terminology used as a result of the requirements in section 524B of the FD&C Act. Additionally, FDA has provided additional clarity regarding the recommended documentation manufacturers should submit when submitting a premarket submission for a device modification that is unlikely to impact the cybersecurity of the device.

This guidance is being issued consistent with FDA’s good guidance practices regulation (21 CFR 10.115). The guidance represents the current thinking of FDA on Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions. It does not establish any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations.

II. Electronic Access

Persons interested in obtaining a copy of the guidance may do so by downloading an electronic copy from the internet. A search capability for all Center for Devices and Radiological Health guidance documents is available at <https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/guidance-documents-medical-devices-and-radiation-emitting-products>. This guidance document is also available at <https://www.regulations.gov>, <https://www.fda.gov/regulatory-information/search-fda-guidance-documents> or <https://www.fda.gov/vaccines-blood-biologics/guidance-compliance-regulatory-information-biologics>. Persons unable to download an electronic copy of “Cybersecurity in Medical Devices: Quality System Considerations and Content of Premarket Submissions” may send an email request to CDRH-Guidance@fda.hhs.gov to receive an electronic copy of the document. Please use the document number GUI00001825 and complete title to identify the guidance you are requesting.

III. Paperwork Reduction Act of 1995

While this guidance contains no new collection of information, it does refer to previously approved FDA collections of information. The previously approved collections of information are subject to review by the Office of Management and Budget (OMB) under the Paperwork Reduction Act of 1995 (PRA) (44 U.S.C. 3501–3521). The collections of information in the following table have been approved by OMB:

21 CFR part or guidance	Topic	OMB Control No.
807, subpart E	Premarket notification	0910–0120
814, subparts A through E	Premarket approval	0910–0231
814, subpart H	Humanitarian Use Devices; Humanitarian Device Exemption	0910–0332
812	Investigational Device Exemption	0910–0078
860, subpart D	De Novo classification process	0910–0844
“Requests for Feedback and Meetings for Medical Device Submissions: The Q-Submission Program”.	Q-submissions and Early Payor Feedback Request Programs for Medical Devices.	0910–0756
800, 801, 809, and 830	Medical Device Labeling Regulations; Unique Device Identification.	0910–0485
820	Current Good Manufacturing Practice (CGMP); Quality System (QS) Regulation.	0910–0073

Dated: June 20, 2025.

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[FR Doc. 2025–11669 Filed 6–26–25; 8:45 am]

BILLING CODE 4164–01–P