

**ARCHITECTURAL AND
TRANSPORTATION BARRIERS
COMPLIANCE BOARD**

36 CFR Part 1191

[Docket No. ATBCB–2022–0004]

RIN 3014–AA44

**Americans With Disabilities Act
Accessibility Guidelines for Buildings
and Facilities; Architectural Barriers
Act Accessibility Guidelines; Self-
Service Transaction Machines and
Self-Service Kiosks**

AGENCY: Architectural and
Transportation Barriers Compliance
Board.

ACTION: Advance Notice of Proposed
Rulemaking.

SUMMARY: The Architectural and
Transportation Barriers Compliance
Board (“Access Board” or “Board”) is
issuing this Advance Notice of Proposed
Rulemaking (ANPRM) to begin the
process of supplementing its
accessibility guidelines for buildings
and facilities covered by the Americans
with Disabilities Act of 1990 and the
Architectural Barriers Act of 1968 to
address access to various types of self-
service transaction machines (SSTMs),
including electronic self-service kiosks,
for persons with disabilities. By this
ANPRM, the Access Board invites
public comment on the planned
approach to supplementing its ADA
Accessibility Guidelines and ABA
Accessibility Guidelines with new
scoping and technical provisions for
SSTMs and self-service kiosks. The
Board will consider comments received
in response to this ANPRM in its
development of these guidelines for
SSTMs and self-service kiosks in a
future rulemaking.

DATES: Submit comments by November
21, 2022.

ADDRESSES: You may submit comments,
identified by docket number (ATBCB–
2022–0004), by any of the following
methods:

- *Federal eRulemaking Portal:*
<https://regulations.gov>. Follow the
instructions for submitting comments.
 - *Email:* docket@access-board.gov.
- Include docket number ATBCB–2022–
0004 in the subject line of the message.
- *Mail:* Office of Technical and
Information Services, U.S. Access
Board, 1331 F Street NW, Suite 1000,
Washington, DC 20004–1111.

Instructions: All submissions must
include the docket number (ATBCB–
2022–0004) for this regulatory action.
All comments received will be posted
without change to <https://>

www.regulations.gov, including any
personal information provided.

Docket: For access to the docket, to
read background documents or public
comments received, go to: [https://
www.regulations.gov/docket/ATBCB-
2022-0004](https://www.regulations.gov/docket/ATBCB-2022-0004).

FOR FURTHER INFORMATION CONTACT:

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SUPPLEMENTARY INFORMATION:

I. Legal Authority

The Americans with Disabilities Act
(ADA) of 1990 charges the Access Board
with developing and maintaining
minimum guidelines to ensure the
accessibility and usability of the built
environment in new construction,
alterations, and additions. *See* 42 U.S.C.
12101 *et seq.*; *see also* 29 U.S.C.
792(b)(3)(B) & (b)(10). The Access
Board’s ADA Accessibility Guidelines
(ADAAG) address buildings and
facilities covered under Title II of the
ADA (state and local government
facilities) and Title III of the ADA
(places of public accommodation and
commercial facilities). The ADAAG
serve as the basis for legally enforceable
accessibility standards issued by the
Department of Justice (DOJ) and the
Department of Transportation (DOT),
which are the federal entities
responsible for implementing and
enforcing the ADA’s non-discrimination
provisions related to buildings and
facilities in new construction,
alterations, and additions.

The Access Board has a similar
responsibility under the Architectural
Barriers Act (ABA) of 1968, which
requires that buildings and facilities
designed, built, or altered with certain
federal funds or leased by federal
agencies be accessible to people with
disabilities. *See* 42 U.S.C. 4151 *et seq.*
The ABA charges the Access Board with
developing and maintaining minimum
guidelines for covered buildings and
facilities. The Board’s ABA
Accessibility Guidelines (ABAAG) serve
as the basis for enforceable standards
issued by four standard-setting agencies:
the Department of Defense, the General
Services Administration, the
Department of Housing and Urban
Development, and the U.S. Postal
Service.

**II. Need for Accessibility Guidelines for
SSTMs**

Kiosks and other types of SSTMs are
now a common feature in places of
public accommodation, government

offices, and other facilities. They allow
users to conduct an expanding range of
transactions and functions
independently. SSTMs serve as point-
of-sales machines for self-checkout in a
growing number of retail facilities,
grocery stores, and drug stores. Self-
service kiosks at airports and hotels
provide check-in services. Restaurants
are providing touchscreens for
customers to place orders, and health
care providers, including doctors’
offices and hospitals, allow patients to
check-in at kiosks. SSTMs and self-
service kiosks are also found at state and
local government facilities, such as
motor vehicle departments.

SSTMs and self-service kiosks have
long posed accessibility barriers to
people with disabilities, particularly
those who are blind or have low vision.
Robust speech output is necessary to
provide access for users unable to see
display screens. It is increasingly
common for information and
communication technology (ICT),
including kiosks, to have touchscreens
without a physical keypad or other
tactile controls. This results in the
screen being an obstacle for the user to
both receive information, if the
information is not provided audibly,
and to enter information, as the input
“buttons” are the flat touchscreen
which have no tactile markers. In
addition, SSTMs and self-service kiosks
frequently pose barriers for users who
are deaf or hard of hearing by failing to
provide captioning and text equivalents
for audible information.

These devices also must be accessible
to people with physical impairments,
including those who use wheelchairs
and other mobility devices, have limited
dexterity, or who are of short stature.
Sufficient clear floor space at the device
is necessary to accommodate wheeled
mobility aids. For usability, controls
and keys must be within accessible
reach ranges and screens or other
displays must be viewable from a seated
position. Controls and features must not
require delicate motor movements or
fine dexterity.

On May 19, 2021, the Access Board
conducted a virtual public forum on the
accessibility of SSTMs that featured
panel presentations by invited speakers.
One panel addressed usability issues
and barriers that people with sensory,
cognitive, physical, or multiple
disabilities encounter using kiosks,
point-of-sales machines, and other
SSTMs. Speakers included
representatives from the Blinded
Veterans Association, the Coleman
Institute for Cognitive Disabilities, the
Deaf and Hard of Hearing Consumer
Advocacy Network, and the United

Spinal Association. They called attention to common access barriers, such as the lack of speech output and tactilely discernable input keys and controls for users who are blind or who have low vision. People who use wheelchairs and scooters encounter display screens that are difficult to see and controls that are out of reach. Further, correction and time-out features can impact usability for persons with cognitive disabilities. (See “Panel Discussions on Inclusive Interfaces: Accessibility to Self-Service Transaction Machines” available at: <https://www.access-board.gov/news/2021/05/24/u-s-access-board-conducts-panel-discussions-on-self-service-transaction-machines>.)

A second panel discussed efforts by research and industry to improve access to SSTMs. Panelists included representatives from the Kiosk Manufacturer Association (KMA) and the Trace Research and Development Center who addressed the need for accessibility standards for SSTMs, provided an overview of relevant requirements and resources, and discussed strategies for accessibility. They were joined by representatives from software and hardware developer NCR, which has created a Universal Navigator interface for SSTMs, and Vispero, a company that has created a kiosk interface that integrates screen-reading software. *Id.*

According to the KMA, the lack of accessibility to kiosks is due in large part to the absence of complete and uniform standards. The lack of detailed requirements has led to a common misconception that physical accessibility or an audio jack alone is sufficient. In addition, some states have implemented their own unique requirements for SSTMs, which led to complications in ensuring compliance with varying standards. Some kiosk manufacturers serve global markets, and they have stressed the importance of consistency of U.S. standards with requirements issued by other countries and international organizations. *Id.*

III. Existing Guidelines

A. The ADA and ABA Accessibility Guidelines

The Access Board has issued accessibility guidelines for the built environment. The Access Board’s ADA and ABA Accessibility Guidelines, which were jointly updated in 2004, require only ATMs and fare machines to provide speech output so that displayed information is communicated to users who are blind or who have low vision. The guidelines also address braille

instructions, privacy, input controls, display screens, operable parts, and clear floor space. See 36 CFR part 1191, 69 FR 44084.

When the Board promulgated the ADA and ABA Accessibility Guidelines in 2004, it noted in the preamble that it had chosen to not broaden the application of the guidelines to address other types of SSTMs such as point-of-sale machines and information kiosks. However, the Board noted that it intended to consider a future update to these guidelines after monitoring the application of accessibility standards it had issued under Section 508 of the Rehabilitation Act (36 CFR part 1194) in 2000 for information and communication technology (ICT), including electronic kiosks, in the federal sector. See 69 FR 44083, 44455 (July 23, 2004).

In March of 2010, the Board issued an Advanced Notice of Proposed Rulemaking (ANPRM) indicating that it was considering a supplemental rulemaking to address in ADAAG access to SSTMs used for ticketing, check-in or check-out, seat selection, boarding passes, or ordering food in restaurants and cafeterias. See Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Telecommunications Act Accessibility Guidelines; Electronic and Information Technology Standards, ANPRM, 75 FR 13457 (Mar. 22, 2010). However, the Board later postponed this effort due to rulemaking it was conducting on information and communication technology in the federal sector under the Rehabilitation Act. See Electronic and Information Technology Accessibility Standards, ANPRM, 76 FR 76640 (Dec. 8, 2011).

B. Section 508 Accessibility Standards

Section 508 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794d (hereafter, “Section 508”) requires access to ICT in the Federal sector. The law applies to ICT developed, procured, maintained, or used by federal agencies, including SSTMs and self-service kiosks, as well as computers, telecommunications equipment, software, websites, and electronic documents. The Board is responsible for issuing accessibility standards for ICT covered by Section 508. The Board published its original Section 508 Standards in 2000 (65 FR 80499) and updated them with the Revised 508 Standards in January 2017 (82 FR 5790). The Federal Acquisition Regulatory Council and federal agencies incorporate these standards into their respective acquisition regulations and

procurement policies and directives. See 86 FR 44229 (Aug. 11, 2021).

The Revised 508 Standards apply to hardware in the federal sector that transmits information or has a user interface, such as self-service kiosks provided by federal agencies for use by customers in post offices and social security field offices. See 36 CFR part 1194, App. A, E206. The Section 508 Standards address biometrics, privacy, operable parts, data connections, display screens, status indicators, color coding, audible signals, two-way voice communication, closed captioning, and audio description. *Id.* at App. C, Ch. 4.

C. DOT Regulations for Self-Service Kiosks in Airports

In 2013 the Department of Transportation (DOT) supplemented its regulations under the Air Carrier Access Act (ACAA) of 1986, as amended, and the Rehabilitation Act to address access to airport self-service kiosks used for checking in, printing boarding passes, and other passenger services. 78 FR 67882 (Nov. 12, 2013). DOT’s rule applies requirements based on the provisions for ATMs and fare machines in the ADA Standards and provisions for self-contained closed products in the Board’s Original Section 508 Standards. *Id.* New airport kiosks must meet the DOT standards until at least a quarter of all kiosks at each airport location are accessible. The rule applies to U.S. and foreign air carriers that own, lease, or control automated airport kiosks at U.S. airports with at least 10,000 enplanements a year. *Id.*

III. Planned Approach to the NPRM and Questions for Public Comment

The Access Board intends to propose supplementary provisions for SSTMs and self-service kiosks in a future rulemaking that are based on both the technical requirements for ATMs and fare machines in the ADA and ABA Accessibility Guidelines (36 CFR part 1191) as well as relevant provisions for hardware in the Revised Section 508 Standards (36 CFR part 1194). In addition, the Board intends to address the types of SSTMs and self-service kiosks to be covered under both the ADA and the ABA and the number or percentage required to comply. The Board invites public comment on this planned approach for this rulemaking generally, and on the specific questions posed below.

Application

The Access Board’s authority under the ADA and ABA to set minimum guidelines for buildings and facilities is limited to those elements that are built-

in or that are fixed to buildings and sites. DOJ and other agencies have authority to regulate moveable furniture and equipment under the ADA or ABA. Thus, the Board's ADA and ABA Accessibility Guidelines apply only to ATMs and fare machines that are fixed or built-in, but not to those that are moveable. Similarly, the Board intends that only SSTMs and self-service kiosks that are fixed or built-in will be covered by this supplementary rule.

SSTMs and self-service kiosks are now commonplace in many different types of businesses and establishments and are used to conduct a growing range of transactions and services. One of the most common types of SSTMs that people encounter on a routine basis are self-checkout kiosks in grocery stores, drug stores, and retail chains. SSTMs and self-service kiosks are also being provided in settings where only information is being exchanged, such as unattended checking in for an appointment, checking out of a hotel, or ordering food in a restaurant. Touchscreens and tablets are now being incorporated into many different types of SSTMs and self-service kiosks. For example, some SSTMs and self-service kiosks use touchscreen interfaces for delivery of goods and services, such as pairing online ordering with pickup from an automated electronic locker at a local retail location. The customer does not interact directly with any employees of the retail store.

Additionally, many vending machines are now essentially SSTMs, offering a wide-array of choices via a video display, and utilizing touch-screen input to navigate those choices. The current ADA and ABA Accessibility Guidelines address physical access to vending machines by requiring at least one of each type to comply with criteria for operable parts, but the guidelines do not address access for users who are blind or who have low vision. 36 CFR part 1191, App. D, 228 and 309.

Question 1. In this rulemaking, the Board intends to cover fixed or built-in electronic devices that are designed for unattended operation by customers (*i.e.*, "self-service") to conduct a transaction. It also intends to address fixed or built-in self-service kiosks, including those used to check-in, place an order, obtain a product, or retrieve information. Are there capabilities, functions, or other objective criteria that should define the types of devices covered as SSTMs or self-service kiosks?

Question 2. Are there other types of electronic devices providing unattended interaction that should be addressed by this rulemaking? If so, what are they?

Question 3. Are there types of self-service electronic devices that should not be covered by this rulemaking? If so, why not?

Minimum Number

In its rulemaking, the Board intends to address the minimum number of SSTMs and self-service kiosks required to be accessible. Currently, the ADA and ABA Accessibility Guidelines require at least one of each type of ATM or fare machine provided at each location to comply. See 36 CFR part 1191, App. B 220 and App. C F220. This may be insufficient in high traffic locations where many SSTMs or self-service kiosks of the same type are provided such as self-checkout devices in grocery stores and big-box retailers. Further, it can be difficult for users who are blind or who have low vision to locate which self-service devices are accessible, especially in areas where many devices are provided. DOT's airport kiosk rule requires compliance for all new kiosks until at least 25% of all kiosks at each airport location are accessible. The 508 Standards require that all SSTMs and self-service kiosks be accessible.

Question 4. Should the Board's rule require all fixed or built-in SSTMs and self-service kiosks in each location to be accessible? If not, why, and what should the number be? Are there some facilities or locations that should have a higher number of accessible devices than others?

Technical Requirements

ADA and ABA Accessibility Guidelines

The Board intends to apply the technical requirements from the ADA and ABA Accessibility Guidelines for ATMs and fare machines to SSTMs and self-service kiosks. Currently, these Guidelines address clear floor or ground space, operable parts, speech output, input controls, and display screens.

Clear floor or ground space is required so that people with disabilities, including those who use wheeled mobility aids, can approach and position at ATMs or fare machines in a forward or parallel direction. 36 CFR part 1191, App. D 707.2 and 305.5. This clear space generally must be at least 30 inches wide and at least 48 inches deep. *Id.* at 305.3. Additional space is required for maneuvering where this clear space is obstructed on both sides for more than half the depth. *Id.* at 305.7.

Operable parts for ATMs and fare machines must be located within accessible reach ranges. *Id.* at 707.3, 309.3, 308. They must be usable with one hand, and not require tight

grasping, pinching, or twisting of the wrist, or more than 5 pounds force to operate. *Id.* at 707.3, 309.4. Users must be able to differentiate each operable part by sound or touch without activation; touch activation is permitted if a key to clear or correct input is provided. *Id.* at 707.3.

ATMs and fare machines must provide speech output (recorded or digitized human or synthesized) through a mechanism that is readily available to all users, such as an industry standard connector or telephone handset. *Id.* at 707.5. The speech function must have volume control and allow users to repeat or interrupt output. Braille instructions for initiating the speech are required. *Id.* at 707.8. ATM speech output must provide an equal degree of privacy. *Id.* at 707.4.

Additionally, ATM and fare machines must provide tactilely discernible input controls for each function. *Id.* at 707.6. Numeric keys must be arranged in a 12-key ascending or descending telephone keypad layout, and the number five key shall be tactilely distinct from the other keys. Key surfaces not on active areas of display screens must be raised above surrounding surfaces. Where membrane keys are the only method of input, each shall be tactilely discernible from surrounding surfaces and adjacent keys. Visual contrast (either light-on-dark or dark-on-light) is required between function keys and background surfaces and between function key characters and symbols and key surfaces. Tactile symbols are required for certain function keys including enter or proceed, clear or correct, cancel, add value, and decrease value. *Id.*

The Guidelines also require that display screens be visible from a point located 40 inches above the center of the clear floor space in front of the machine. *Id.* at 707.7. Display screen characters must have a cap height of at least 3/16 inch, be in a sans serif font, and contrast from the background either light-on-dark or dark-on-light.

Section 508 Standards

The Board is also considering incorporating into the proposed rule certain requirements in the Revised 508 Standards for hardware that transmits information or has a user interface. 36 CFR part 1194, App. C, Ch. 4. In particular, the Board is considering including those requirements that specifically pertain to hardware that by its design does not support a user's assistive technology other than personal headsets or other audio couplers. Such hardware is referred to as having "closed functionality." The Revised 508 Standards require hardware with closed

functionality to provide speech output for all information displayed on-screen or needed to verify transactions. *Id.* at 402. Like the requirements in the ADA and ABA Accessibility Guidelines, speech output must be delivered through a mechanism readily available to all users, such as an industry standard headphone jack or telephone handset, and the interface must allow users to repeat or pause output. Other specifications in this section of the 508 Standards which are harmonized with those in the ADA and ABA Guidelines address braille instructions for activating speech and volume control, privacy, operable parts, including input controls, and the visibility of display screens. *Id.* at 402.2.5, 402.3, 405, 407, and 408. Display screen characters must have a cap height of at least 3/16 inch unless there is a screen enlargement feature, be in a sans serif font, and contrast from the background either light-on-dark or dark-on-light. *Id.* at 402.4.

The Revised 508 Standards, which are much more recent than the ADA and ABA Accessibility Guidelines, contain additional specifications including provisions that address biometrics, use of color and non-speech audio to convey information, status indicators, and captioning. *Id.* at 403, 409, 410, 411, and 413. The Revised 508 Standards also provide specifications for volume control for private listening (*e.g.*, through a headphone jack) and non-private audio (*i.e.*, speakers) and require tickets and farecards used with kiosks to have an orientation that is tactilely discernible if a particular orientation is needed for use. *Id.* at 402.3 and 407. Other unique provisions in the Revised 508 Standards address the display screen not blanking automatically when the speech-output mode is activated, alphabetic keys, timed responses, and flashing elements that can trigger photosensitive seizures. *Id.* at (405.1, 407.3.2, 407.5, and 408.3.

The Board intends to propose provisions for SSTMs and self-service kiosks based on those for ATMs and fare machines in the ADA and ABA Accessibility Guidelines and additional criteria relevant to SSTMs and self-service kiosks from the Revised 508 Standards. This approach is similar to that taken by DOT in its rule on airport self-service kiosks.

The Board has prepared a side-by-side comparison of these requirements in the ADA and ABA Guidelines, the Revised 508 Standards, and the DOT rule on airport kiosks. This matrix is available in the rulemaking docket at www.regulations.gov/docket/ATBCB-2022-0004.

Question 5. The Board seeks comment on this planned approach for the proposed supplementary guidelines for SSTMs and self-service kiosks outlined in this ANPRM.

The Revised 508 Standards contain requirements not included in the ADA and ABA Accessibility Guidelines that may pertain to ATMs or fare machines. These include a provision that biometrics, where provided, not be the only means of user identification or control. They also require that tickets, fare cards, or keycards, where provided, have an orientation that is tactilely discernible when necessary for use.

Question 6. Should requirements for ATMs and fare machines in the current ADA and ABA Accessibility Guidelines be updated as part of this rulemaking to address additional features covered in the Revised 508 Standards and the DOT rule pertinent to the accessibility of ATMs and fare machines?

Question 7. The Board seeks comment from users and manufacturers of self-service transaction machines and self-service kiosks on their experiences in using or designing accessible machines and the benefits and costs associated with the proposed requirements.

Question 8. The Board seeks comments on the numbers of small entities that may be affected by this rulemaking and the potential economic impact to these entities; these include small businesses, small non-profits and governmental entities with a population of fewer than 50,000. The Board also seeks feedback on any regulatory alternatives that may minimize significant economic impacts on small entities.

Question 9. Should SSTM and self-service kiosk which accept credit and debit cards be required to accept contactless payment systems?

Approved by notational vote of the Access Board on June 10, 2022.

Christopher Kuczynski,

General Counsel.

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Chapter I

[EPA-HQ-OPPT-2022-0593; FRL-9987-01-OCSPP]

Toxic Substances Control Act (TSCA) Section 21 Petition for Rulemaking Under TSCA Section 6; Reasons for Agency Response; Denial of Requested Rulemaking

AGENCY: Environmental Protection Agency (EPA).

ACTION: Petition; reasons for Agency response.

SUMMARY: This action announces the availability of EPA's response to a petition received on June 16, 2022, from Daniel M. Galpern on behalf of Donn J. Viviani, John Birks, Richard Heede, Lise Van Susteren, James E. Hansen, Climate Science, Awareness and Solutions, and Climate Protection and Restoration Initiative (the petitioners). The petitioners request that EPA in general phase out the anthropogenic manufacture, processing, distribution, use, and disposal of greenhouse gas (GHG) emissions, fossil fuels, and fossil fuel emissions. They also request multiple actions under TSCA, and actions pursuant to the Clean Air Act (CAA), the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and the Independent Offices Appropriations Act (IOAA). EPA has determined that the request for risk management rulemaking under TSCA is within the ambit of a petition under TSCA's provision for a citizen petition. EPA is treating the other actions requested as petitions under the Administrative Procedure Act (APA), which this notice does not address. EPA shares the petitioners' concerns regarding the threat posed by climate change, and the Biden Administration will continue to combat the climate crisis with a whole of government approach. Nonetheless, after careful consideration, EPA has denied the petition for the reasons set forth in this notice.

DATES: EPA's response to this TSCA section 21 petition was signed September 14, 2022.

ADDRESSES: EPA has established a docket for this TSCA section 21 petition under docket identification (ID) number EPA-HQ-OPPT-2022-0593 and available online at <https://www.regulations.gov>. Additional instructions on visiting the docket, along with more information about