

# CALIFORNIA'S IOT LAW ON THE SECURITY OF CONNECTED DEVICES

Excerpted from Chapter 27 (Cybersecurity: Information, Network and Data Security)  
from the April 2020 updates to *E-Commerce and Internet Law: Legal Treatise with Forms 2d Edition*  
A 5-volume legal treatise by Ian C. Ballon (Thomson/West Publishing, [www.IanBallon.net](http://www.IanBallon.net))

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who is authorized to sue for civil penalties.<sup>12</sup>

The Act also broadened the scope of New York’s security breach notification statute, which is separately analyzed in section 27.08.

A copy of the SHIELD Act is set forth in section 27.09[35]. Guidance on how to conduct a risk assessment and draft a written information security program is set forth in section 27.13.

### **27.04[6][L] California’s IoT Law on the Security of Connected Devices**

California’s IoT data security law,<sup>1</sup> Cal. Civil Code §§ 1798.91.04 to 1798.91.06, which took effect on January 1, 2020, requires a manufacturer of a connected device to equip the device with a reasonable security feature or features that are appropriate to the nature and function of the device, appropriate to the information it may collect, contain, or transmit, and designed to protect the device, and any information it contains, from unauthorized access, destruction, use, modification, or disclosure. Specifically, the law requires that a manufacturer<sup>2</sup> of a connected device<sup>3</sup> equip the device with a reasonable security feature<sup>4</sup> or features that are all of the following:

- (1) Appropriate to the nature and function of the device.

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<sup>12</sup>N.Y. Gen. Bus. Law, § 899-bb(2)(d).

#### **[Section 27.04[6][L]]**

<sup>1</sup>The Internet of Things (IoT) is a broad term used to refer to connected devices—such as smart refrigerators, smart televisions, wearable exercise monitors, self-driving cars, home security systems, and home or office climate control systems, among other things—that collect, store, or transfer information to other devices and networked computers, including personal data. *See generally supra* § 27.03B (explaining IoT).

<sup>2</sup>*Manufacturer* means “the person who manufactures, or contracts with another person to manufacture on the person’s behalf, connected devices that are sold or offered for sale in California. For the purposes of this subdivision, a contract with another person to manufacture on the person’s behalf does not include a contract only to purchase a connected device, or only to purchase and brand a connected device.” Cal. Civil Code § 1798.91.05(c).

<sup>3</sup>*Connected device* means “any device, or other physical object that is capable of connecting to the Internet, directly or indirectly, and that is assigned an Internet Protocol address or Bluetooth address.” Cal. Civil Code § 1798.91.05(b).

<sup>4</sup>A *security feature* is “a feature of a device designed to provide security for that device.” Cal. Civil Code § 1798.91.05(d).

- (2) Appropriate to the information it may collect, contain, or transmit.
- (3) Designed to protect the device and any information contained therein from unauthorized access, destruction, use, modification, or disclosure.<sup>5</sup>

Subject to these requirements, if a connected device is equipped with a means for authentication<sup>6</sup> outside a local area network, it will be deemed a *reasonable security feature* under the statute if either:

- (1) The preprogrammed password is unique to each device manufactured; or
- (2) The device contains a security feature that requires a user to generate a new means of authentication before access is granted to the device for the first time.<sup>7</sup>

The statute also includes four express exclusions. It may not be construed “to impose any duty upon the manufacturer of a connected device related to unaffiliated third-party software or applications that a user chooses to add to a connected device.”<sup>8</sup>

It may not be construed “to impose any duty upon a provider of an electronic store, gateway, marketplace, or other means of purchasing or downloading software or applications, to review or enforce compliance . . .” with the statute.<sup>9</sup>

It may not be construed “to impose any duty upon the manufacturer of a connected device to prevent a user from having full control over a connected device, including the ability to modify the software or firmware running on the device at the user’s discretion.”<sup>10</sup>

And it may not be applied “to any connected device the functionality of which is subject to security requirements

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<sup>5</sup>Cal. Civil Code § 1798.91.04(a). *Unauthorized access, destruction, use, modification, or disclosure* means “access, destruction, use, modification, or disclosure that is not authorized by the consumer.” *Id.* § 1798.91.05(e).

<sup>6</sup>*Authentication* means “a method of verifying the authority of a user, process, or device to access resources in an information system.” Cal. Civil Code § 1798.91.05(a).

<sup>7</sup>Cal. Civil Code § 1798.91.04(b).

<sup>8</sup>Cal. Civil Code § 1798.91.06(a).

<sup>9</sup>Cal. Civil Code § 1798.91.06(b).

<sup>10</sup>Cal. Civil Code § 1798.91.06(c).

under federal law, regulations, or guidance promulgated by a federal agency pursuant to its regulatory enforcement authority.”<sup>11</sup>

California’s IoT security law, which was the first U.S. statute to specifically address the security of information shared by connected devices, has been either applauded by security experts for taking a step in the right direction or criticized for focusing on adding “good” features instead of removing bad ones that subject devices to attacks.<sup>12</sup> It seems likely that other states or the federal government will seek to enact IoT regulations in the coming years.

### 27.04[6][M] Insurance Industry Data Security Laws

An increasing number of states—including **Alabama**,<sup>1</sup> **Connecticut** (effective October 1, 2020),<sup>2</sup> **Delaware**,<sup>3</sup> **Michigan** (effective January 20, 2020 and January 20, 2021),<sup>4</sup> **Mississippi**,<sup>5</sup> **New Hampshire**,<sup>6</sup> **Ohio**,<sup>7</sup> and **South Carolina**<sup>8</sup>—have enacted variations of the National Association of

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<sup>11</sup>Cal. Civil Code § 1798.91.06(d).

<sup>12</sup>See Adi Robertson, *California just became the first state with an Internet of Things cybersecurity law*, The Verge, Sept. 28, 2018 (quoting Robert Graham); Edward Kovacs, *California IoT Cybersecurity Bill Signed into Law*, SecurityWeek, Oct. 1, 2018 (quoting Graham as stating that the law “will do little [to] improve security, while doing a lot to impose costs and harm innovation.”).

#### [Section 27.04[6][M]]

<sup>1</sup>Ala. Code §§ 27-62-1 to 27-62-12; *infra* § 27.09[2] (setting forth the statute).

<sup>2</sup>Connecticut’s Insurance Data Security Law, which is based on the National Association of Insurance Commissioners’ Model Insurance Data Security Law, takes effect on October 1, 2020, and replaces Conn. Gen. Stat. Ann. § 38a-999b. The statute is set forth in section 27.09[8][B].

<sup>3</sup>Del. Code Ann. tit. 18, §§ 8601 to 8611; *infra* § 27.09[9] (setting forth the statute).

<sup>4</sup>Mich. Comp. Laws Ann. §§ 500.550 to 500.565 (effective January 20, 2021); *infra* § 27.09[25][B] (setting forth the provisions).

<sup>5</sup>Miss. Code Ann. §§ 83-5-801 to 83-5-825; *infra* § 27.09[27] (setting forth the statute).

<sup>6</sup>N.H. Rev. Stat. Ann. §§ 420–P:1 to 420–P:14; *infra* § 27.09[32] (setting forth the statute).

<sup>7</sup>See Ohio Rev. Code Ann. §§ 3965.01 to 3965.11; *infra* § 27.09[38][B] (setting forth the statute).

<sup>8</sup>See S.C. Code Ann. §§ 38-99-30 to 38-99-100; *infra* § 27.09[44] (set-

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