

Consumer Reports PrivacyCon 2018 submission

Consumer Reports proposes to present to PrivacyCon its evaluation of the privacy and security aspects of connected televisions. Consumer Reports is a nonprofit organization dedicated to the unbiased and scientific evaluation of consumer goods and services. Since 1936, we have published a monthly periodical—and later, regular online content—comparing a broad range of products on various dimensions that may be important to prospective buyers.

In March of last year, Consumer Reports announced the launch of the the Digital Standard, an effort to begin measuring consumer products on new metrics such as privacy, security, governance, and ownership. As more and more consumer devices contain smart or connected functionality, these devices may collect or share information in ways consumers may not expect—or otherwise limit or compromise a consumer's control over their purchases (such as a smart printer that prohibits use of third-party ink cartridges). However, there is currently a dearth of pre-purchase information about these aspects of consumer products. Consumer Reports' goal in publishing the Digital Standard is to fill that gap, by providing a framework by which Consumer Reports and others can test and evaluate products for these increasingly vital characteristics. Thus, if a consumer values privacy as a feature of a certain product, they can make an informed decision when considering among the offerings of different manufacturers. We were pleased to present the initial stages of this framework at PrivacyCon 2017.

As its first practical application of the Digital Standard, Consumer Reports and partners including Disconnect.me, Ranking Digital Rights, and the Cyber Independent Testing Lab evaluated several smart televisions for privacy and security considerations. In all, our testers looked at more than 200 separate indicators for two dozen criteria, including transparency about data collection, user controls, third-party data sharing, and the use of encryption.

Some of the issues that we intend to highlight include:

- Disclosures during initial install
- Disclosure in privacy policies and Terms of Service
- Use of automated content recognition and related technologies to detect viewing content
- Data flows to manufacturers and third parties
- User choices during initial install
- Ease and efficacy of privacy settings
- Use of encryption and other security best practices

The results of the television study will be published in Consumer Reports Online before the end of the calendar year. While we will not be scoring the televisions using traditional Consumer Reports ratings, we will indicate which televisions performed generally better or worse according to our metrics. As our evaluation processes mature, we expect to be able to incorporate many of the criteria contained in the Digital Standard into our formal rating processes.

We believe that this research is complementary to the important work that the FTC has done around smart TVs, including the FTC's December 2015 workshop on connected entertainment systems, and the enforcement action against Vizio over the collection and sharing of sensitive viewing data without consumer consent. We hope to highlight what has changed in just the past two years with regard to smart TVs, and to discuss how we are evolving our testing protocols to incorporate the values laid out in the Digital Standard.

The Standard

Below is the current version of the Digital Standard. You can click on the Test Name to view and comment on a section on Github. There you can propose a change, run a test and report results, or start a conversation about how to tackle one of the open questions. **Please note that you will need to be logged into your GitHub account to see the GitHub pages.**

Each criteria has been color-coded to help direct your contribution and participation.

: Well understood with a developed testing approach in place.

: Under development with some outstanding questions.

: Under discussion, usually due to the sensitivity and complexity of the issue.

Test Name	Criteria	Indicators	Procedure Overview
-----------	----------	------------	--------------------

Security - is it safe?

Build Quality

Test Name	Criteria	Indicators	Procedure Overview
<div data-bbox="260 261 331 321" style="border: 1px solid green; width: 34px; height: 37px; display: inline-block; vertical-align: middle;"></div> <div data-bbox="338 269 499 350" style="display: inline-block; vertical-align: middle;"> <p>Best Build Practices</p> </div>	<p>The software was built and developed according to the industry's best practices for security.</p>	<p>The product was built with effectively implemented safety features.</p> <p>The software does not make use of unsafe functions or libraries.</p> <p>The software is not overly complex.</p>	<p>Run static analysis software to determine what application armoring features are present.</p> <p>Are there Stack Guards, and if so, are they effectively implemented?</p> <p>Are all safety features available in the pertinent OS enabled? (e.g., ASLR, CFI, RELRO, DEP, etc.)</p> <p>Are those safety features well implemented and/or enabled with optimal settings? (E.g., High Entropy ASLR, rather than just Dynamic Base on Windows 10)</p> <p>Are the binaries 32 or 64 bit?</p> <p>Pull out data from the binary that speaks to developer hygiene.</p> <p>Do they use strcpy and</p>

Test Name	Criteria	Indicators	Procedure Overview
			<p>other historically unsafe functions?</p> <p>Did the developers use older, less historically safe functions, or newer, safer replacements for those functions?</p> <p>What risks are introduced via the libraries that the binary links to, either directly or indirectly?</p> <p>Pull out data from the binary that speaks to code complexity.</p> <p>What is the branch density?</p> <p>How many stack adjusts, function calls, etc are there?</p> <p>How complex is the code?</p>

Test Name	Criteria	Indicators	Procedure Overview
 Product stability	The software is reliable.	<p>The software is not susceptible to crashes.</p> <p>If the program is forced to unexpectedly terminate, it shuts down in a safe and responsible fashion.</p> <p>The software is not vulnerable to algorithmic complexity attacks.</p>	<p>Fuzz software to see if and how it crashes.</p> <p>Under appropriate fuzz testing, what was the code coverage, number of crashes, and type(s) of crashes.</p> <p>Are crashes exploitable, or do they simply allow a disruption of service?</p> <p>Perform modified fuzzing to determine the software's vulnerability to algorithmic complexity attacks.</p>
Data security			

Test Name	Criteria	Indicators	Procedure Overview
 Bug bounty program	The company is willing and able to address reports of vulnerabilities.	<p>The company has a mechanism through which security researchers can submit vulnerabilities they discover.</p> <p>The company discloses the timeframe in which it will review reports of vulnerabilities.</p> <p>The company commits not to pursue legal action against security researchers.</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
 Encryption	Information I provide is encrypted so that it can't be easily read or used by attackers.	<p>Transmission of user communications is encrypted by default.</p> <p>Transmission of user communications is encrypted using unique keys.</p> <p>Users can secure their content using end-to-end encryption.</p> <p>End-to-end encryption is enabled by default.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p>Inspect traffic to determine if SSL encryption is used.</p>

Test Name	Criteria	Indicators	Procedure Overview
 Known Exploit Resistance	The product is protected from known software vulnerabilities that present a danger from attackers.	The software is secure against known bugs and types of attacks.	<p>Browsers:</p> <p>Identify publicly known vulnerabilities for each browser.</p> <p>Use the original proof of concept code (if known) or devise custom code where necessary, to test the browser for the issue identified in the vulnerability notice.</p> <p>Check if the browser is now protected from the identified vulnerabilities.</p> <p>Apps:</p> <p>Root/jailbreak the device, configure web proxy and network traffic monitor.</p> <p>Launch target app, create accounts, sign-in, launch any activities available from user interface.</p>

Test Name	Criteria	Indicators	Procedure Overview
			<p>Monitor communication between the application on the device and any backend services.</p> <p>Examine file system, database, and logs on the mobile device to determine if sensitive information is stored in a way that could lead to compromise of user data.</p> <p>Connected Devices:</p> <p>Check if using latest version of software.</p> <p>Configure web proxy and network traffic monitor.</p> <p>Create account and sign-in to the installed "out of the box" applications.</p> <p>Launch any activities available from the user interface.</p>

Test Name	Criteria	Indicators	Procedure Overview
			<p data-bbox="1455 269 1766 448">Monitor communication between the applications on the device, the device itself, and any backend services.</p> <p data-bbox="1455 496 1759 753">Examine file system, database, and logs to determine if sensitive information is stored in a way that could lead to compromise of user data."</p>

Test Name	Criteria	Indicators	Procedure Overview
 Password	A product which uses a password requires the user to set a good password.	<p>A product which requires password access must have a user-defined or unique password in order to function.</p> <p>Passwords are required to be of a certain length.</p> <p>Passwords are required to be of a certain complexity.</p> <p>The existing password is needed to change the password.</p>	<p>Set up the product and, if a password is used, note whether a password must be selected by the user or the quality of a default password if provided.</p> <p>"Note if there are requirements for the password to be at least a certain length.</p> <p>Note if there are limitations on how long the password can be."</p> <p>Note if the product requires the password to be of a certain complexity (types of characters, prohibiting repeated characters, etc.)</p> <p>Note if the product requires knowledge of the existing password in order to execute a password change.</p>

Test Name	Criteria	Indicators	Procedure Overview
 Security oversight	The company is a responsible caretaker of my data.	<p>The company has systems in place to limit and monitor employee access to user information.</p> <p>The company has an internal security team that conducts security audits on the company's products and services.</p> <p>The company commissions third-party security audits on its products and services.</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
 Security over time	The product is kept protected with software updates.	<p>Automatic software updates</p> <p>Notification of software updates</p> <p>Ease of installation of software updates</p> <p>Software can be kept up-to-date for security issues.</p>	<p>Examine software settings and product documentation to determine if automatic software updates are enabled by default or can be enabled by the user.</p> <p>If updates are not automatic, examine software settings and product documentation to determine if the product notifies the user if a software update is available, and if that notification is persistent, or if the user can easily determine if a software update is available.</p> <p>Execute the procedure to install a software update and evaluate the ease of installation by comparing against established references.</p> <p>Check if a later version of software exists but the product cannot be</p>

Test Name	Criteria	Indicators	Procedure Overview
			updated to it (e.g. Android devices with pre-KitKat versions).
User Safety			
<input data-bbox="260 553 323 610" type="checkbox"/>	Personal safety	The company helps me protect myself from grief, abuse, and harassment.	

Privacy (Is it private?)

Access and Control			

Test Name	Criteria	Indicators	Procedure Overview
<div data-bbox="260 258 333 319" style="border: 1px solid green; width: 35px; height: 38px; display: inline-block; vertical-align: middle;"></div> Data control	<p data-bbox="697 266 1003 370">I can see and control everything the company knows about me.</p>	<p data-bbox="1077 266 1339 370">Users can control the collection of their information.</p> <p data-bbox="1077 418 1350 483">Users can delete their information.</p> <p data-bbox="1077 532 1381 636">Users can control how their information is used to target advertising.</p> <p data-bbox="1077 685 1398 831">Clear explanation of how users can control whether their information is used for targeted advertising.</p> <p data-bbox="1077 880 1377 945">Users can obtain a copy of their information.</p> <p data-bbox="1077 993 1367 1097">Disclosure of what user information users can obtain</p> <p data-bbox="1077 1146 1362 1250">Users can obtain their information in a structured data format.</p> <p data-bbox="1077 1299 1388 1445">Users can obtain all public-facing and private user information the company hold about</p>	<p data-bbox="1455 266 1776 483">Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p data-bbox="1455 532 1776 789">Look in the product's user interface to see what privacy controls exist and what the options are. If relevant, analyze network traffic to see if they are effective.</p>

Test Name	Criteria	Indicators	Procedure Overview	
		them. Privacy controls exist and are effective.		

Data retention

Test Name	Criteria	Indicators	Procedure Overview
<div data-bbox="262 259 331 321" style="border: 1px solid green; width: 33px; height: 38px; display: inline-block; vertical-align: middle;"></div> <div data-bbox="336 267 640 349" style="display: inline-block; vertical-align: middle;"> <p>Data retention and deletion</p> </div>	<p>My account and information are deleted when I leave the service.</p> <p>I know how long the company keeps my information.</p>	<p>All user information is deleted after users terminate their account or remove service from a device.</p> <p>Disclosure of timeframe in which user information is deleted after users terminate their account</p> <p>Disclosure of how long each type of user information is retained</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p>Terminate a test account, remove service from a device, or perform a factory reset on the device.</p> <p>Determine whether any information from the test account is still available. (Readiness flag: 3)</p> <p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>

Overreach - Collecting Too Much Data

Test Name	Criteria	Indicators	Procedure Overview
<input type="checkbox"/> Data benefits	<p>Every piece of data I share brings me a benefit; it doesn't just help the company.</p>		
<input type="checkbox"/> Data collection	<p>I know what user information this company is collecting.</p>	<p>Disclosure of the type of user information collected</p> <p>Disclosure of how user information is collected</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>
<input type="checkbox"/> Minimal data collection	<p>The only information the company requests from me is what's needed to make the product or service work correctly.</p>	<p>The user information collected is only that which is directly relevant and necessary for the service.</p> <p>Product still works when all permissions not relevant to product's functionality are declined.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p>Decline permissions not relevant to the product's functionality, verify that product is still functional</p>

Test Name	Criteria	Indicators	Procedure Overview
<input data-bbox="260 261 331 316" type="checkbox"/> Privacy by default	<p>The default settings in this product prioritize my privacy; to give up privacy, I actually need to change the settings.</p>	<p>Targeted advertising is off by default.</p> <p>Transmission of user communications is encrypted by default.</p> <p>End-to-end encryption is enabled by default</p> <p>User interface settings which are optimal for privacy are set by default.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p>Review settings available from the user interface, and determine which options would be optimal for privacy considerations.</p> <p>Determine whether those options are selected by default.</p>
<p>Third Party Tracking - Data Sharing</p>			

Test Name	Criteria	Indicators	Procedure Overview
<input type="checkbox"/> Data use	<p>The company explicitly discloses every way in which it uses my data.</p>	<p>Disclosure of what user information is shared</p> <p>Disclosure of the types of third parties with which user information is shared</p> <p>Disclosure whether user information could be shared with government or legal authorities</p> <p>Third party domains contacted by the product are named in the privacy policy.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p> <p>Analyze network traffic to see if any third party domains are contacted by the product, investigate privacy policy to see which companies, if any, they name.</p>

Governance & Compliance (Are they good?)

Business Model			
<input type="checkbox"/> Business model	<p>I understand how the company earns its revenue.</p>		

Test Name

Criteria

Indicators

Procedure Overview

Human Rights & Corporate Social Responsibility

Test Name	Criteria	Indicators	Procedure Overview
<div data-bbox="260 258 333 319" style="border: 1px solid green; width: 35px; height: 38px; display: inline-block; vertical-align: middle;"></div> Governance	<p data-bbox="695 266 1014 488">The company or organization publicly commits to respect users' human rights to freedom of expression and privacy.</p> <p data-bbox="695 532 993 792">The company or organization's senior leadership exercises oversight over how its policies and practices affect freedom of expression and privacy.</p> <p data-bbox="695 836 1018 1096">The company or organization should have mechanisms in place to implement its commitments to freedom of expression and privacy internally.</p> <p data-bbox="695 1140 1024 1442">The company or organization implements due diligence processes, such as human rights impact assessments, to identify how all aspects of its activities affect freedom of expression</p>	<p data-bbox="1075 266 1394 451">Explicit and clearly articulated policy commitment to human rights, including freedom of expression and privacy</p> <p data-bbox="1075 495 1388 716">The board of directors exercises formal oversight over how company practices affect freedom of expression and privacy.</p> <p data-bbox="1075 760 1377 1024">An executive-level committee, team, program or officer oversees how company practices affect freedom of expression and privacy.</p> <p data-bbox="1075 1068 1377 1328">A management-level committee, team, program or officer oversees how company practices affect freedom of expression and privacy.</p> <p data-bbox="1075 1372 1373 1442">Provides employee, volunteers or other staff</p>	<p data-bbox="1451 266 1770 483">Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>

Test Name	Criteria	Indicators	Procedure Overview	
	<p>and privacy and to mitigate any risks posed by those impacts.</p> <p>The company or organization engages with a range of stakeholders on freedom of expression and privacy issues.</p> <p>The company or organization should have grievance and remedy mechanisms to address user's freedom of expression and privacy concerns.</p>	<p>training on freedom of expression and privacy issues</p> <p>Maintains a whistleblower program through which employees, volunteers or other staff can report concerns related to how the company treats its users' freedom of expression and privacy rights</p> <p>As part of its decision-making, considers how laws affect freedom of expression and privacy in jurisdictions where it operates</p> <p>Regularly assesses free expression and privacy risks associated with existing products and services</p> <p>Assesses free expression and privacy risks associated with a new activity, including the</p>		

Test Name	Criteria	Indicators	Procedure Overview	
		<p>launch and/or acquisition of new products or services or entry into new markets</p> <p>Assesses free expression and privacy risks associated with the processes and mechanisms used to enforce its Terms of Service</p> <p>Conducts in-depth due diligence wherever the company's risk assessments identify concerns</p> <p>Senior executives and/or members of the company's board of directors review and consider the results of assessments and due diligence in decision-making for the company</p> <p>Conducts assessments on a regular schedule</p>		

Test Name	Criteria	Indicators	Procedure Overview	
		<p>The company initiates or participates in meetings with stakeholders that represent, advocate on behalf of, or are people directly and adversely impacted by the company's business</p> <p>Clear disclosure of processes for receiving complaints</p> <p>Process includes complaints related to freedom of expression and privacy</p> <p>Clear disclosure of process for responding to complaints</p> <p>The company reports on the number of complaints received.</p> <p>The company provides evidence that it is responding to complaints.</p>		

Test Name	Criteria	Indicators	Procedure Overview
-----------	----------	------------	--------------------

Open

<input data-bbox="260 383 327 440" type="checkbox"/>	Open Innovation	The company works to advance all technology and innovation, not just its own interests.		
<input data-bbox="260 592 327 649" type="checkbox"/>	Open Source	The product's software is publicly available.	Software is open source.	Determine if code is available. Determine type of open source license.

Privacy Policy & Terms of Service

--	--	--	--	--

Test Name	Criteria	Indicators	Procedure Overview
<p data-bbox="262 261 331 321"><input type="checkbox"/></p> <p data-bbox="338 261 625 399">Terms of Service and Privacy Policy documents</p>	<p data-bbox="695 261 968 407">I can easily find, read, and understand the privacy policy and/or terms of service.</p>	<p data-bbox="1073 261 1346 334">The Terms of service (ToS) are easy to find.</p> <p data-bbox="1073 375 1398 529">The ToS are available in the language(s) most commonly spoken by the company's users.</p> <p data-bbox="1073 570 1388 675">The ToS are presented in an understandable manner.</p> <p data-bbox="1073 716 1377 789">The privacy policies are easy to find.</p> <p data-bbox="1073 829 1398 1016">The privacy policies are available in the languages(s) most commonly spoken by the company's users.</p> <p data-bbox="1073 1057 1388 1179">The privacy policies are presented in an understandable manner.</p>	<p data-bbox="1451 261 1776 480">Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>

Test Name	Criteria	Indicators	Procedure Overview
 ToS & Privacy Policy change notification	The company provides clear notification when it changes its privacy policy and/or terms of service.	<p>Commitment to notify users about changes to the terms of service</p> <p>Disclosure of how users will be directly notified of changes to the terms of service</p> <p>Disclosure of timeframe for notification prior to changes to the terms of service coming into effect</p> <p>Maintains a public archive or change log of the terms of service</p> <p>Commitment to notify users about change to the privacy policy</p> <p>Disclosure of how users will be directly notified of changes to the privacy policy</p> <p>Disclosure of timeframe for notification prior to changes to the privacy policy coming into effect</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
		Maintains a public archive or change log of the privacy policy	
Transparency			

Test Name	Criteria	Indicators	Procedure Overview
 3rd party requests for user data	The company complies only with legal and ethical third-party requests for user information.	<p>The company explains its process for responding to non-judicial government requests.</p> <p>The company explains its process for responding to court orders.</p> <p>The company explains its process for responding to requests from foreign jurisdictions.</p> <p>The company explains its process for responding to requests made by private parties.</p> <p>The company's explanations include the legal basis under which it may comply.</p> <p>The company commits to carry out due diligence on requests before deciding how to respond and to push back on unlawful requests.</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview	
			The company provides guidance or examples of implementation of its process.	
 Identity policy	I can register using any name and identifying characteristics I wish, or keep my identity completely anonymous.	The company does not require users to verify their identity with their government-issued identification, or with other forms of identification that could be connected to their offline identity.	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.	

Test Name	Criteria	Indicators	Procedure Overview
 Threat Notification	The company notifies appropriate authorities and those affected when a data breach occurs.	<p>The company will notify the relevant authorities without undue delay when a data breach occurs.</p> <p>The company clearly discloses its process for notifying data subjects who might be affected by a data breach.</p> <p>The company clearly discloses what kinds of steps it will take to address the impact of a data breach on its users.</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
 Transparency reporting	The company is transparent about its practices for sharing user data with the government and other third parties.	<p>The company lists the number of requests it receives by country.</p> <p>The company lists the number of requests it receives for stored user information and for real-time communications access.</p> <p>The company lists the number of accounts affected.</p> <p>The company lists whether a demand sought communications content or non-content or both.</p> <p>The company identifies the specific legal authority or type of legal process through which law enforcement and national security demands are made.</p> <p>The company includes requests that come from</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
		court orders.	
		The company list the number of requests it receives from private parties.	
		The company lists the number of requests it complied with, broken down by category of demand.	
		The company lists what types of government requests it is prohibited by law from disclosing.	
		The company reports this data at least once per year.	
		The data reported by the company can be exported as a structured data file.	

Test Name	Criteria	Indicators	Procedure Overview
 User notification about third-party requests for user information	<p>The company tells me if the government or other third parties ask for my information.</p>	<p>The company notifies users when government entities (including courts or other judicial bodies) request their user information.</p> <p>The company notifies users when private parties request their user information.</p> <p>The company clearly discloses situations when it might not notify users, including a description of the types of government requests it is prohibited by law from disclosing to users.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>

Ownership (Is it mine?)

Ownership

Test Name	Criteria	Indicators	Procedure Overview
 Interoperability	The company does not prohibit use of the product with other, complementary, products.	The manufacturer does not use software, copyright, or other devices to restrict the use of products and services that would otherwise be possible to use with your existing products (e.g., set-top boxes, third party applications, etc.).	
 Ownership	When I buy a product, I own every part of it.	The company does not retain any control or ownership over the operation, use, inputs, or outputs of the product after it has been purchased by the consumer.	

Test Name	Criteria	Indicators	Procedure Overview
 Resale	I can resell the product to someone and it will still work.	If a consumer sells the product on the private market, the new owner has access to the full functionality of the original product.? Or does the company restrict the transfer of ownership The company does not restrict the transfer of ownership.	
Permanence			

Test Name	Criteria	Indicators	Procedure Overview
 Functionality Over Time	The company will continue to maintain the intended functionality of the product over the product's expected life cycle.	<p>Every feature of the product will continue to work for as long as I can reasonably expect; that is, the manufacturer will not 'brick' certain parts of the product during that time frame.</p> <p>The manufacturer will not cease to support the functionality I come to expect.</p> <p>Replacement services will exist if the manufacturer ceases to support the functionality.</p>	

Test Name	Criteria	Indicators	Procedure Overview
 Process for terms of service enforcement	I know how, when, and why the company or organization unilaterally closes user accounts.	<p>The company or organization clearly explains what types of activities it does not permit.</p> <p>The company or organization clearly explains why it may restrict a user's account.</p> <p>The company or organization clearly discloses the mechanisms it uses to identify accounts that violate the rules.</p> <p>The company or organization clearly discloses whether any non-government and non-judicial entities receive priority consideration when identifying accounts to be restricted for violating the company's rules, and if so, how that priority status is conferred.</p>	Investigation and analysis of publicly available documentation to determine what the company clearly discloses.

Test Name	Criteria	Indicators	Procedure Overview
		<p>The company or organization clearly explains its process for enforcing its rules.</p> <p>The company or organization provides clear examples to help the user understand what the rules are and how they are enforced.</p>	

Test Name	Criteria	Indicators	Procedure Overview
 Transparency about Terms of Service enforcement	<p>I know how often the company or organization unilaterally closes user accounts</p>	<p>The company or organization publishes data about the number of accounts it restricts or closes on its own initiative.</p> <p>The company or organization publishes data about the number of accounts it restricts or closes as a result of a government request.</p> <p>The company or organization publishes data about the number of accounts it restricts or closes as a result of a request from private third-parties.</p> <p>The company or organization clearly discloses that it notifies users when it restricts or closes user accounts.</p>	<p>Investigation and analysis of publicly available documentation to determine what the company clearly discloses.</p>
<p>Right to Repair</p>			

Test Name	Criteria	Indicators	Procedure Overview
 Repair Accessibility	<p>The product can be fixed by parties other than the manufacturer.</p>	<p>The company does not use technical, feature-level, or legal means to block a consumer's ability to get a device repaired.</p> <p>There is a competitive market of repair shops.</p> <p>Repair shops, other than the manufacturer's, are supported by the original manufacturer.</p>	
 Repair Penalty	<p>I am not penalized for getting the product properly repaired by a third party or for repairing it myself.</p>	<p>The company does not penalize consumers (voided warranty, etc.) if they get the product repaired by someone other than the original manufacturer or their authorized representatives.</p>	