The new ETSI Standard on the “Cyber Security for Consumer Internet of Things”: some legal thoughts on privacy, consent and UX

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A matter of time?

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Good to have a **system** with **periodic checks** on IoT devices
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### Product Security lifecycle

**Provision 4.2-3:** Companies should *continuously monitor* [...] also with the help of CVD - Coordinated Vulnerability Disclosure

### Vulnerabilities

**Provision 4.2-2:** Disclosed vulnerabilities should be acted on in a timely manner. (Software fix)  
*De facto* standard for the vulnerability process to be completed: **90 days**

### Reg. EU 679/2016 ("GDPR") provisions on breaches

|  (If you are the controller) in the IoT system | Notify a personal data breach to the supervisory authority (Art. 33(1), GDPR) | “Without undue delay and, where feasible, **not later than 72 hours** after having become aware”. |
|  (If you are the processor) in the IoT system | Notify the controller (Art. 33(2), GDPR) | “Without undue delay after becoming aware of a personal data breach”. |

Communicate a personal data breach to the data subject/subjects (Art. 34, GDPR)  
When the personal data breach is **likely to result in a high risk**
4.8 Ensure that personal data is protected

Provision 4.8-1 Device manufacturers and service providers shall provide consumers with clear and transparent information about how their personal data is being used, by whom, and for what purposes, for each device and service. This also applies to third parties that can be involved, including advertisers.
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**Provision 4.8-2** Where personal data is processed on the basis of consumers' consent, this **consent shall be obtained in a valid way.**

“Obtaining consent "in a valid way" normally involves giving consumers a **free, obvious and explicit opt-in choice** of whether their personal data can be used for a specified purpose.”
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How to make sure that legal docs are “clear”, “transparent”, “obvious” and “explicit”?
Welcome

To get started, download the **Google Home app** on your phone or tablet

Or, visit [chromecast.com/setup](http://chromecast.com/setup) to set up with your desktop or laptop

[Chromecast0082](http://Chromecast0082)
Chromecast setup

Do you see the code on your TV?
The code “Z9P3” should be on your TV. This helps ensure you are setting up the right Chromecast.

I DON'T SEE IT     I SEE IT

Name your Chromecast

Bedroom

For example “Living Room”

Send Chromecast usage data and crash reports to Google.
Help us continue to improve the quality of your Chromecast experience.

Enable guest mode
This allows mobile devices in the same room to cast without being on your Wi-Fi network. It uses a combination of your Chromecast's location and Wi-Fi to find nearby devices.
Sign in for a better Chromecast experience

Link your device to your Google account to personalize your experience when using Google products.

SKIP  SIGN IN  

I DON'T SEE IT  I SEE IT  

CONTINUE  

Do you see the Chromecast setup?

The code “Z9P3” shown on the Chromecast setup screen helps ensure you are connecting to the correct Chromecast.
Proving that setup and legal docs acceptance was made by parents
Still a “smart” toy?

What if there is no UX to interact with but the toy is still connected in some way?
4.8 Ensure that personal data is protected

Provision 4.8-3 Consumers who gave consent for the processing of their personal data shall be given the opportunity to withdraw it at any time.

Consumers expect to be provided with means to preserve their privacy by means of configuring IoT device and service functionality appropriately.

“Setting” sections? Links or QR codes to a dedicated webpage?

What if there is no screen UX?
With **thousands and thousands** of IoT devices sold, come big headaches.

→ **Consent management softwares** ←
A summary of the documents that shall be drafted

→ Privacy Policy
  - + Various checkboxes
  - + Pages on Data Protection rights

→ Terms and Conditions:
  - Clauses on updates (Chapter 4.3);
  - Clauses on basic functioning of the device and minimum availability during updates;
  - Replacement plan and support;
  - End-of-life policy.

+ Q/A on security issues (e.g. ch. 4.4, 4.5, 4.9)
A summary on possible options for showing legal documents

1) **Offline**, before delivering the IoT product (**negotiation**);
2) **Offline**, in the **package**;
3) **Online**, thanks to a thoughtful in-app UX that guides the user step-by-step;
4) **Online**, **with a** QR code or link in the package that brings to a web page.