



Online Behavioural Tracking

This information leaflet aims to highlight to organisations what they should consider before deployment of online tracking on their websites. It explains the relationship between online behavioural tracking, personal data and the Personal Data (Privacy) Ordinance (“the Ordinance”).

What is Online Tracking?

Website operators/owners often collect information regarding their users’ online interaction with the websites. Information such as user’s identity, display and/or language preference, web pages visited, items purchased, and transactions performed may be collected and recorded.

The purposes of collecting such information vary and may include:

- remembering a user’s preference (e.g. on language, font size, colour scheme) so that the look and feel of a website is kept for a user upon his/her subsequent visits;
- analysing how users navigate a website with a view to optimising its design;
- establishing and maintaining a user’s logged-on identity so that he/she can move around the website without being asked to log on again; or
- tracking the behaviour and preferences of an online user with a view to building detailed profiles of the user for serving marketing information or advertisements to him/her.

It is this last category of online behavioural tracking that has aroused public concerns. Online behavioural advertisers often use sophisticated algorithms to analyse the collected data, build detailed profiles of the website users, and categorise them accordingly. The user categories are then targeted by the website operators/owners or a third party for the presentation of marketing material or advertisements considered to be relevant to them.

Means of Online Tracking

There are a number of means by which organisations may track and record the online behaviour of website users. It is important to note that this information leaflet applies to online tracking in general and is not limited to any specific means of online tracking. While the following examples are some common tools of tracking, rapid developments in online technology mean that other tools may be developed that would serve the same purpose.

- At the webserver end, by recording and retaining an authenticated user's dealings and behaviour on the website, such as information searched, transactions conducted, and his/her purchasing history;
- At the webserver end, by using techniques such as placing web beacons or bugs¹ on webpages; and/or
- At the user-end, by downloading cookies², files or programmes from websites to browser devices, and having the user's browsing behaviour towards the website recorded in these downloaded files/programmes.

It is worth noting that, by deploying techniques such as third-party cookies³ or web bugs⁴, a third-party website which a user has not directly accessed can still track the user's behaviour.

Concerns with Online Behavioural Tracking

Online behavioural tracking may be a concern for website users because of the following main reasons:

- (a) Website users' information or browsing habits are often collected by the website operator/owner without website users' knowledge or consent;
- (b) Website users' information or browsing habits may even be collected by a third party without website users' knowledge or consent;
- (c) The collected information may be transferred to other parties by the website operators/owners or the third party without website users' knowledge or consent;
- (d) Information about a website user collected from one website may be combined with information collected from other websites or sources about that user, thus building his/her profile without his/her knowledge;
- (e) The purpose of collecting the information is not made clear to the website users. Even if this has been made clear, website users are not offered the option to opt out of the use.

¹ Web beacons or bugs are small and invisible (to the eyes) image files placed on a central webserver. When a browser visits webpages that contain links to the image files and have the image files downloaded, the central webserver can interact with the browser to keep a log. These logs record such information as the

² A cookie is a small computer file that is sent from a website to the computer or mobile phone (referred to here as a "device") browser and stored in that device. Each website can send its own cookies to the browser but the browser only permits a website to access the cookies it has sent to the browser previously.

³ If a third-party provider places contents, such as advertisements, on a website, anyone visiting that website will have a cookie downloaded from this third-party. If this third-party places many such contents across multiple websites, it can (by virtue of the same third-party cookie) track the online behaviour of the website user across these multiple websites.

⁴ When web bug links to the same central server are placed in multiple websites, all users visiting these websites will have their online behaviour collated by the central server.

Online Behavioural Tracking, Personal Data and the Ordinance

Whether behavioural information collected constitutes personal data must be judged on a case by case basis. It depends on whether the information satisfies all of the three conditions below:-

- (a) relating directly or indirectly to a living individual;
- (b) from which it is practicable for the identity of the individual to be directly or indirectly ascertained; and
- (c) in a form in which access to or processing of the information is practicable.

If it is reasonably practicable to ascertain the identity of the individual directly or indirectly from the behavioural tracking information collected (for instance, the information contains a unique identifier e.g. an account name or number), then such information would most likely be regarded as “personal data” under the Ordinance.

In other cases where the information collected does not contain unique identifiers, organisations must carefully assess if such information taken in its totality can be used to directly or indirectly identify an individual. Organisations should bear in mind that often they collect a complex set of such identifiers which, when combined together, may themselves be sufficient to ascertain the identity of an individual.

What Organisations Should Do

Following requirements under the Ordinance when personal data is involved

1. If organisations deploy online tracking on their websites which involve the collection of “personal data” of website users, they must observe the requirements under the Ordinance including the six Data Protection Principles⁵ (“DPPs”) regarding the collection, holding and use of the personal data. Specifically, such data users must ensure that the following requirements are met:

(a) Purpose and Manner of Collection	Online tracking must be conducted in a lawful and fair manner. The purpose(s) of online tracking must be related to a function or activity of the data user. Information collected must be adequate but not excessive. A Personal Information Collection Statement outlined under DPP1(3) must be provided to data subjects;
(b) Accuracy and Duration of Retention	Online tracking information held by data users should be accurate and should not be kept longer than necessary;
(c) Use of Personal Data	Online tracking information can only be used for the original purposes stated at the time of collection. Data users must obtain data subjects’ express and voluntary consent for any change to the purpose of use;

⁵ Available at www.pcpd.org.hk/english/ordinance/ordglance.html

(d) Security of Personal Data	Data users must ensure that reasonably practicable steps are taken to protect the collected information from unauthorised or accidental access, processing, erasure, loss or use;
(e) Information to be Generally Available	Data subjects must be made aware of the personal data privacy policy and practices of the data user, including the kinds of online tracking information held by the data user and the purpose for which the data is to be used;
(f) Access to Personal Data	Data subjects are entitled to ask a data user to ascertain whether it holds his/her personal data and to request for a copy of the personal data held. Data subjects also have the right to make a request to correct an inaccurate record;
(g) Direct Marketing	If personal data is collected via online tracking for direct marketing purposes, data users must follow the requirements under Part VI A of the Ordinance. For detailed guidance on direct marketing activities, please see the publication <i>New Guidance on Direct Marketing</i> ⁶ ;
(h) Outsourcing Personal Data Processing	Data users may engage contractors (such as firms providing analytics on website visits) when carrying out online behavioural tracking. If personal data is involved, data users should comply with the requirements under the Ordinance to safeguard that personal data. For detailed guidance on engaging contractors (referred as data processors under the Ordinance), please see the publication <i>Outsourcing the Processing of Personal Data to Data Processors</i> ⁷ .

Recommended practice on fair and transparency when there is uncertainty

2. In case organisations are uncertain as regards whether the behavioural information they collected for advertising/marketing purposes would constitute “personal data”, they are strongly advised to adopt fair and transparent practices outlined below in order to promote consumer trust in their online activities.

- (a) To inform users what types of information are being collected or tracked by them, the purpose of collecting the information, how the information is collected (including what tools are used), whether the information would be transferred to third-parties (and if so, the classes of such third-parties and purpose of transfer), whether the information will be combined with other information to track/profile users and for how long the information will be kept;
- (b) To inform users whether any third-party is collecting or tracking their behavioural information. As the organisation is the entity which engages the third-party to collect or track user behaviour, it is the organisation’s responsibility to understand from the third-party what information is being collected and the means by which the information is collected. Organisations should inform users of the nature of such third-parties, purpose and means of collection, retention period and whether such information collected would be further transferred to other parties by the third party;

⁶ See www.pcpd.org.hk/english/publications/files/GN_DM_e.pdf for more details.

⁷ See www.pcpd.org.hk/english/publications/files/dataprocessors_e.pdf for more details.

- (c) To respect users' wish not to be tracked or to offer users a way to opt out of the tracking (especially if this is conducted by third-parties) and inform them of the consequence of opting out. If it is not possible to opt out of tracking while using the website, explain why this is not possible so that website users can decide whether to continue using the website.

The above measures should be carried out in a user-friendly manner ensuring that they are easily accessible and comprehensible to the website users, including teenagers/children.

Recommended practices on using cookies

Where cookies are used to collect behavioural information, the following additional best practices are recommended:

- (d) To pre-set a reasonable expiry date for cookies;
- (e) To encrypt the contents of cookies whenever appropriate; and
- (f) Not to deploy techniques such as Flash/zombie/super cookies⁸ that ignore browser settings on cookies unless organisations can offer an option to website users to disable or reject such cookies.

Recommended practices for non advertising/marketing related tracking

3. Even if organisations are not carrying out such online tracking for advertising/marketing purposes, they should also consider adopting the best practices in items 2(a) to 2(f) above that are applicable in their circumstances.

⁸ Flash/zombie/super cookies are cookies that ignore the browsers' setting on whether to accept cookies and store themselves in users' devices (Flash cookies), or are stored in obscure places and/or would recreate themselves by various 'secret' techniques even if they are deleted by users (zombie/super cookies).

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