# Bluetooth Records

This data set defines when a Probe was detected at a Site. The sample data contains 1 week of records from 8 June 2017 to 14 June 2017 inclusive.

It has three columns:

* LogTime – The time to the nearest second at which the Probe was last detected as they passed through the Site
* SiteId – The Site Id to define the location that the Probe was detected. Cross reference this value with the Id column in the Bluetooth Sites data to get the location.
* ProbeId – The identifier of the Probe. You can search for the same ProbeId within this table to find any other sites that this Probe travelled through and you can measure the difference between the record LogTime values to measure travel time.

# Glossary

**Probe** – A probe is the term used to describe a Bluetooth device that is travelling around the road network that is captured by the Addinsight system field capture stations. The stations capture the device’s Bluetooth MAC address which is a unique identifier assigned by the device manufacturer. Typically Addinsight picks up about 15% of vehicles that have discoverable Bluetooth devices. Up to 140,000 devices a day are captured. The probes are typically electronic devices such as car stereos, hands-free kits, GPS navigators and older mobile phones. Smartphones are generally not picked up by Addinsight because they are not in discovery mode.

**ProbeId** – Instead of storing the MAC address, Addinsight assigns an integer value to a Probe for storing the data. As long as the MAC address is discovered at least once every hour by one of the field capture stations, the ProbeId will continue to be used. A secondary system check prevents a ProbeId from being used for longer than 24 hours for Probes that continuously travel around the network (e.g. Taxi). As soon as it has been more than an hour since the MAC address was last discovered or it has been tracked for more than 24 hours, the MAC address / ProbeId relationship is deleted. The probe data is retained, but there is no way to know what MAC Address was assigned to the ProbeId. The next time the MAC Address is discovered it will be assigned a new ProbeId. For typical commuters this means that they will be assigned at least two ProbeIds every day – one for the trip to work and one for the trip home. This prevents the system from tracking a Probe’s movements from day to day.

**Site** – A site is a location that has a Bluetooth capture device. These are primarily located at signalised intersections / pedestrian crossings, major unsignalised intersections and along key motorways. Each Site has a unique Id for cross-referencing it to other data.

**SiteId / OriginId / DestId** – Each Addinsight Site is assigned a unique integer identifier that is used for storing the data. The Probe data will use these terms to define the Site at which they were discovered. These identifiers need to be cross referenced with the Site Id to determine the locations being referenced