**ANONYMYZATION UNDERSTANDING**

**Step 1:** Identify the SPI (Sensitive Personal Information) column.

Ex: Number is identified as the SPI column.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MNO | Number | Tower Location | Device Type | Date |
| DIAL | 123555 | Chennai | Android | 1-Jun |
| DIAL | 345667 | Mumbai | Iphone | 1-Jun |
| DIAL | 44455 | TVM | GSM | 2-Jun |
| DIAL | 886 | Cochin | GSM | 2-Jun |
| DIAL | 345667 | Delhi | Iphone | 3-Jun |
| DIAL | 123555 | Chandigargh | Android | 4-Jun |
| DIAL | 44455 | CBE | GSM | 5-Jun |

**Step 2:** Generate Unique random values/ID for identified SPI values.

* Each SPI value should have only one unique random id (URI)

Case 1: Re-occurrence on same day

The URI should not change with re-occurrence of a particular SPI on the same day. In the below table, whenever the number 123555 is repeated the URI remains the same as ABC123

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MNO | Number | Tower Location | Device Type | Date | URI |
| DIAL | 123555 | Chennai | Android | 1-Jun | ABC123 |
| DIAL | 345667 | Mumbai | Iphone | 1-Jun | XYZ345 |
| DIAL | 44455 | TVM | GSM | 1-Jun | IUY112 |
| DIAL | 886 | Cochin | GSM | 1-Jun | RYB121 |
| DIAL | 345667 | Delhi | Iphone | 1-Jun | XYZ345 |
| DIAL | 123555 | Chandigargh | Android | 1-Jun | ABC123 |
| DIAL | 44455 | CBE | GSM | 1-Jun | IUY112 |

Case 2: Re-occurrence on a different date.

The URI should remain the same even if a particular SPI occurs again on a different date. In the below table, the number 123555 is repeated on 24- June with the same URI generated.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MNO | Number | Tower Location | Device Type | Date | URI |
| DIAL | 235484897 | Chennai | Android | 12-Jun | CBC123 |
| DIAL | 330003 | Mumbai | Iphone | 12-Jun | XYZ305 |
| DIAL | 2200011 | TVM | GSM | 22-Jun | IUZ112 |
| DIAL | 1100222 | Cochin | GSM | 22-Jun | RYB121 |
| DIAL | 345667 | Delhi | Iphone | 23-Jun | XYZ345 |
| DIAL | 123555 | Chandigargh | Android | 24-Jun | ABC123 |
| DIAL | 44455 | CBE | GSM | 25-Jun | IUY112 |

**Step 3:** Place original data and anonymized date in different paths and archive original data.

Ex: The SPI column will reflect the URI generated.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MNO | Number | Tower Location | Device Type | Date |
| DIAL | CBC123 | Chennai | Android | 12-Jun |
| DIAL | XYZ305 | Mumbai | Iphone | 12-Jun |
| DIAL | IUZ112 | TVM | GSM | 22-Jun |
| DIAL | RYB121 | Cochin | GSM | 22-Jun |
| DIAL | XYZ345 | Delhi | Iphone | 23-Jun |
| DIAL | ABC123 | Chandigargh | Android | 24-Jun |
| DIAL | IUY112 | CBE | GSM | 25-Jun |