

# Post 3PCD Debugging Proposals Feedback

## Aggregate Debug Reporting

- Allows measuring counts of various debug events + auxiliary information
- Similar flow to current Summary Reports
- Plan to support all the same verbose debug reports currently supported plus some additional ones
- Requires using Aggregation Service
- Separate contribution budget (65,536) and Aggregation Service epsilon of 1
- Potential increase in null reports

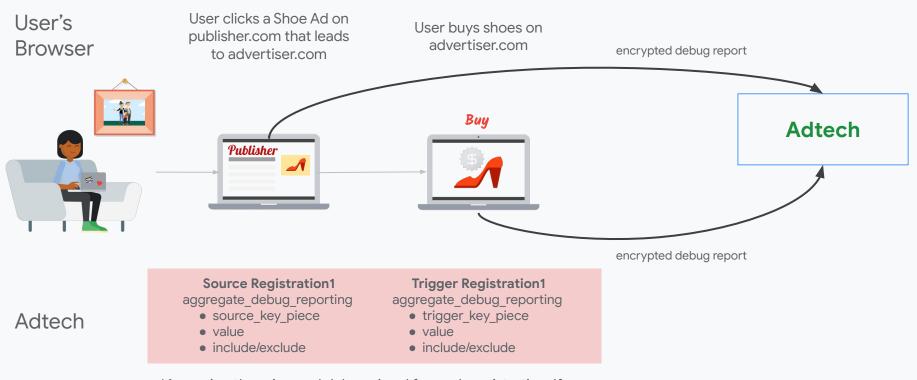
#### **Sample Source & Trigger Registration**

```
"aggregate_debug_reporting": {
    "key_piece": "0xFFF000",
    "value": 128,
    // Use integers for the reserved 12 bits.
    "include_debug_codes": [1], // optional
    "exclude_debug_codes": [2], // optional
    // Source registration only
    "aggregation_coordinator_origin": "https://aws.example"
    },
}
```

#### Sample Payload Structure

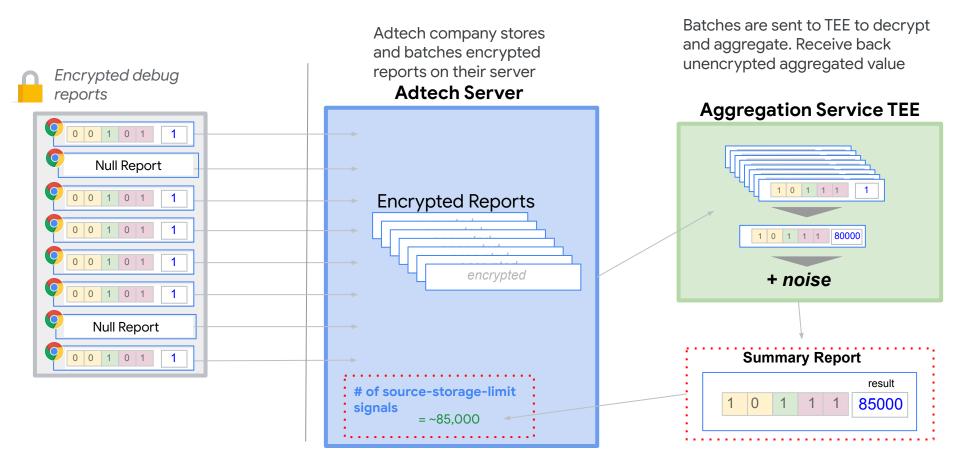
**key**: source key\_piece | trigger key\_piece | debug code key\_piece **value**: value

# Aggregate Debug Reporting Cont.



<sup>\*</sup>Assuming there is a real debug signal for each registration. If there is no real debug report then a null report will be sent

# Aggregate Debug Reporting Cont.



## Local DP Debug Reporting

- Allows measuring counts of various debug events
- Debug reports can be sent per registration
- Plan to support all the same verbose debug reports currently supported plus some additional ones
- One sided debug keys
- Does not require Aggregation Service
- Data can be aggregated based on ad-tech's schedule
- Aggregated data can be de-noised

#### **Sample Source & Trigger Registration**

```
...
"local_aggregate_debug_reporting": {
    "debug_key": "123456789", //64 bit unsigned integer set by ad-tech
    "epsilon": 1 //default; TBD if this will be configurable
    }
}
```

### Sample Debug Report

## Local DP Debug Reporting Cont.

