Kinesis Producers

Partition Key = Device Id

Same partition key = Same shard

111222333 → Hash function

2BD12A930...

799FBAD53...

IoT Devices

Device Id
111222333

111222333

Data Blob
(up to 1 MB)

Device Id
444555666

444555666

Data Blob
(up to 1 MB)

444555666

1 MB/sec
or 1000 records/sec
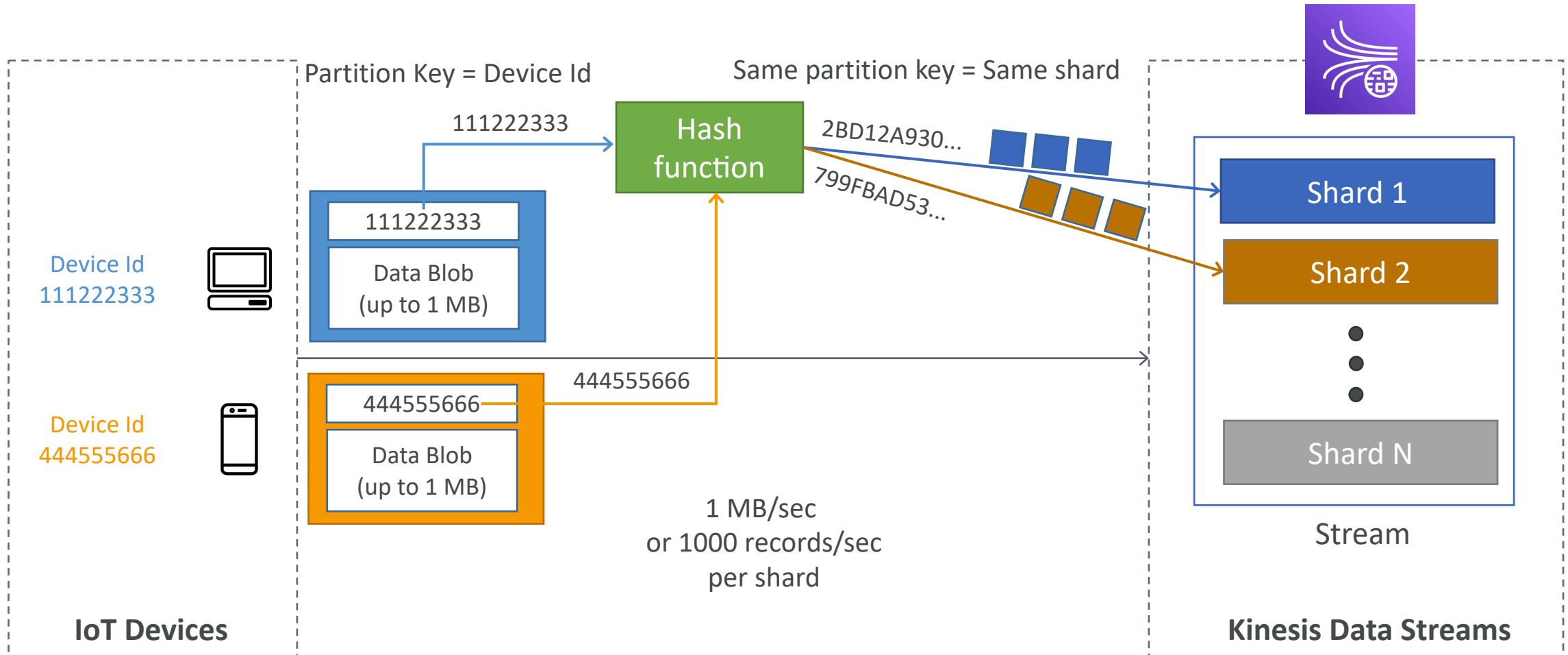per shard

Kinesis Data Streams

Shard 1

Shard 2

Shard N

Stream

Use highly distributed partition key to avoid "hot partition"