

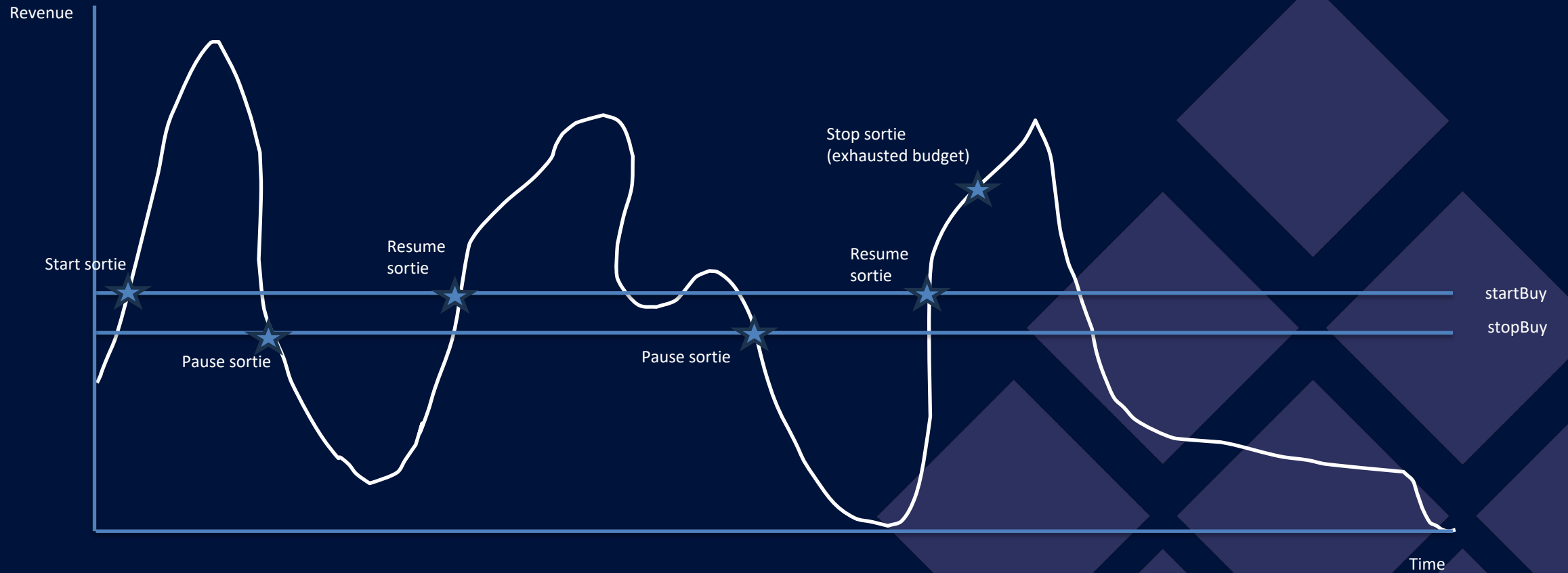


ParkLogic

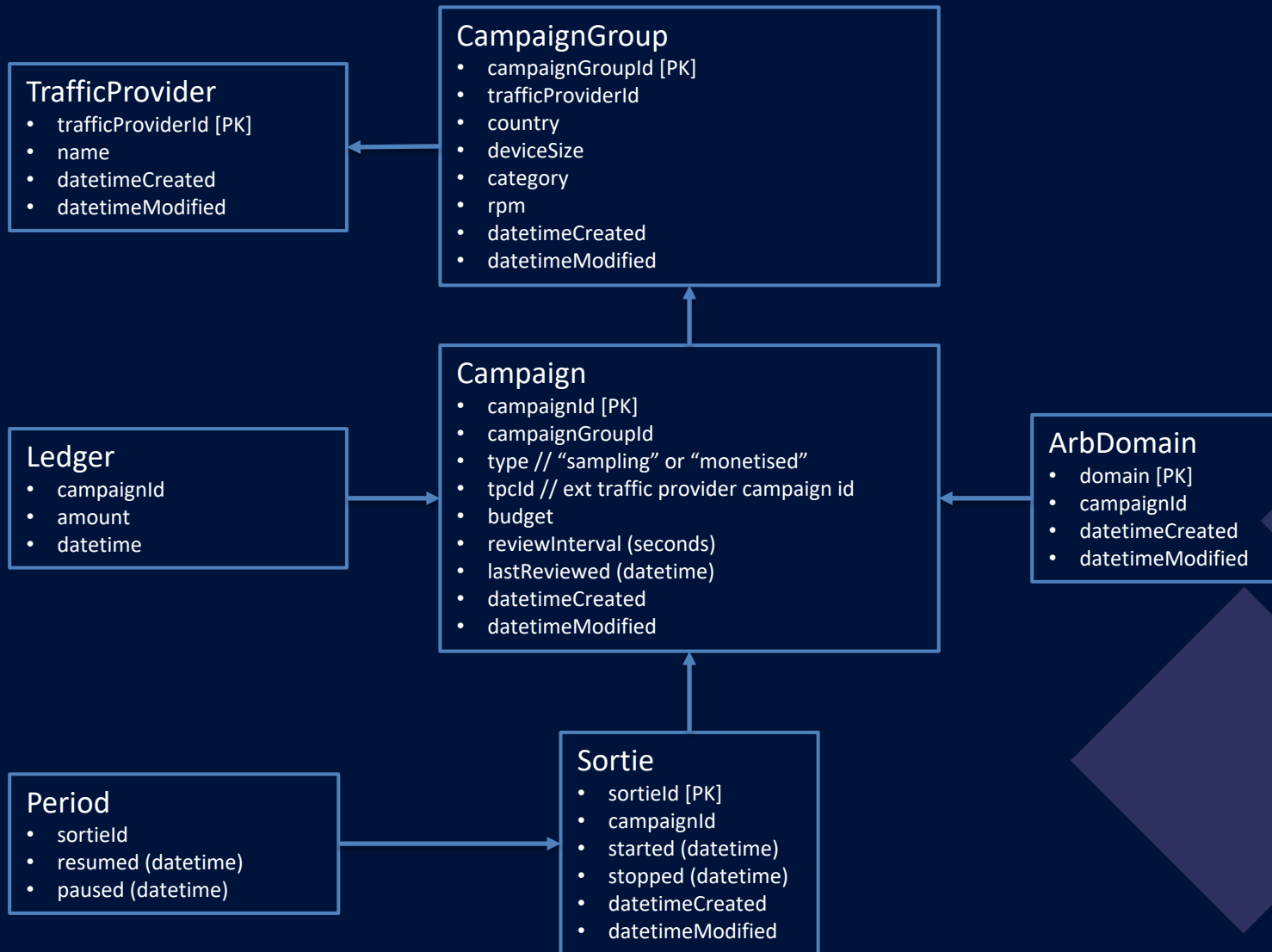
Changing the world together

Arbitrage System - Hackathon

Trend for a sampling campaign and responses



Database Tables



Campaign Notes

- Allocated Arb domains is based upon budget.
- We distribute traffic across multiple domains. The amount of revenue generated on an individual ArbDomain must be < \$20.
- ArbDomain allocated to a Campaign remain with that Campaign.
- Campaign balance is retrieved via an API call
- Campaign url is set/retrieved via API

Pseudo Code - Processes

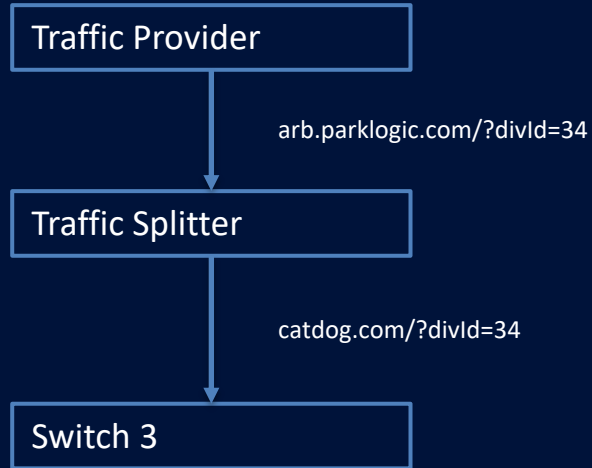
Sampling Campaign Review Process:

- Every minute: For all SampleCampaigns (SC)
 - If lastReviewed \geq SC.reviewInterval seconds ago then
 - balance = get current balance from TPC
 - If balance $<$ SC.budget then
 - Set balance to SC.budget
 - Record in Ledger table
 - SC. lastReviewed = NOW()

Monetised Campaign Review Process:

- Every minute:
- For all Monetised Campaigns (MC)
 - If no current sortie then
 - buyRPM = MC.rpm
 - sellRPM = select from CH DB average of last 5 winning bids where trafficProvider = PC.tpId and campaignId = MC.id
 - buyFactor = 1.2
 - If sellRPM $>$ buyRPM * buyFactor then
 - If MC.balance $<$ MC.budget then
 - Set MC.balance = MC.budget
 - Record in Ledger table
 - If successful set then
 - Start Sortie (max 1 per day)
 - Else // current sortie is running
 - depletedThreshold = 2 // US Dollar amount
 - If balance() $<$ depletedThreshold then
 - Stop Sortie
 - Else
 - If sortiePaused then
 - If sellRPM $>$ buyRPM * buyFactor then
 - Resume sortie
 - Else // sortie running
 - sellFactor = 1.0
 - If sellRPM $<$ buyRPM * sellFactor
 - Pause sortie

Traffic Flow



Questions

- How much to we add to the Traffic Provider balance.
- How much to we add to the Budget for each Campaign?
- Alerts for requiring additional funds for a Traffic Provider?

Traffic Splitter Process:

- Select a random domain from arbDomains where divId=?
- Send 302 redirect to domain/?divId=34
- (This will send the traffic through to the switch3.)

Interface

- CRUD Traffic Provider
- CRUD Campaign Group
- Reports (TBC)

Traffic Provider APIs

- TBC

Arbitrage - Right to left algorithm

Campaigns point to a single point that has multiple domains behind it.

