

W2.0 Introduction

Presenter: Sriram S C

An Updated Version of Current **VenAqua™** System

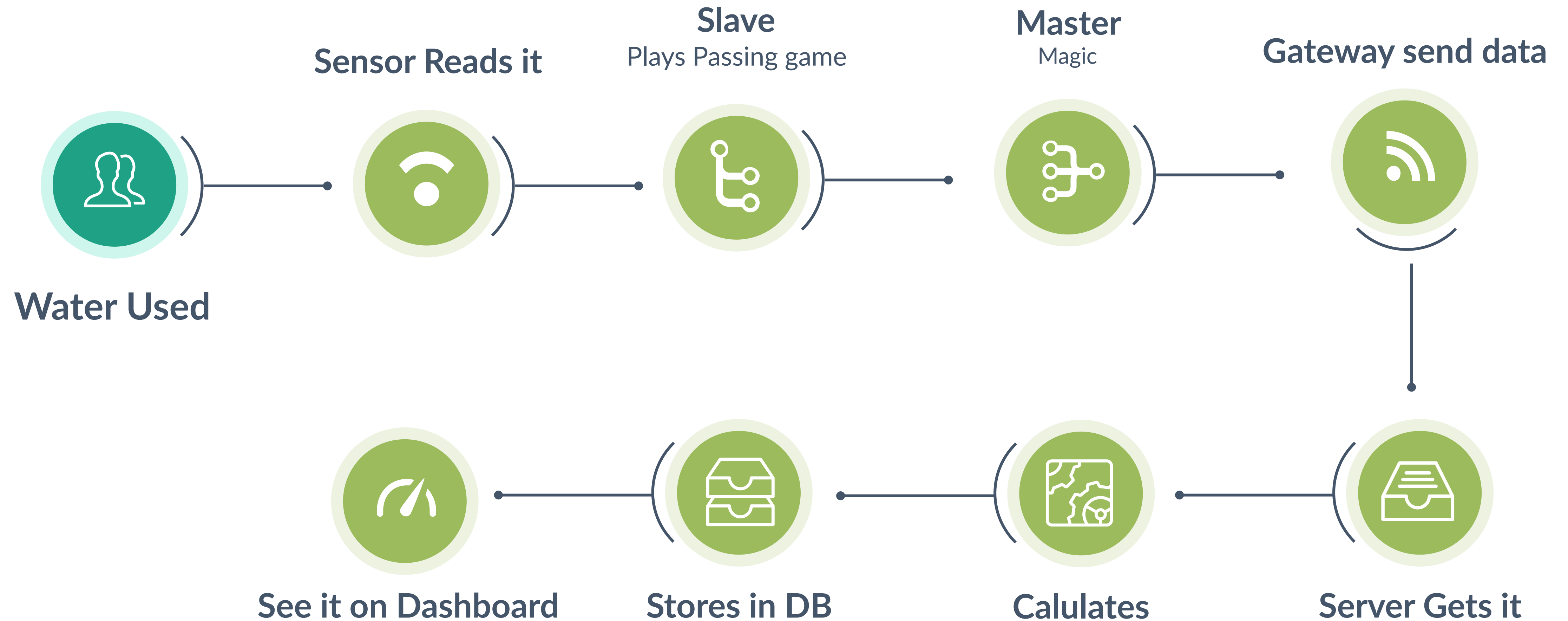
How it Works?

its Simple



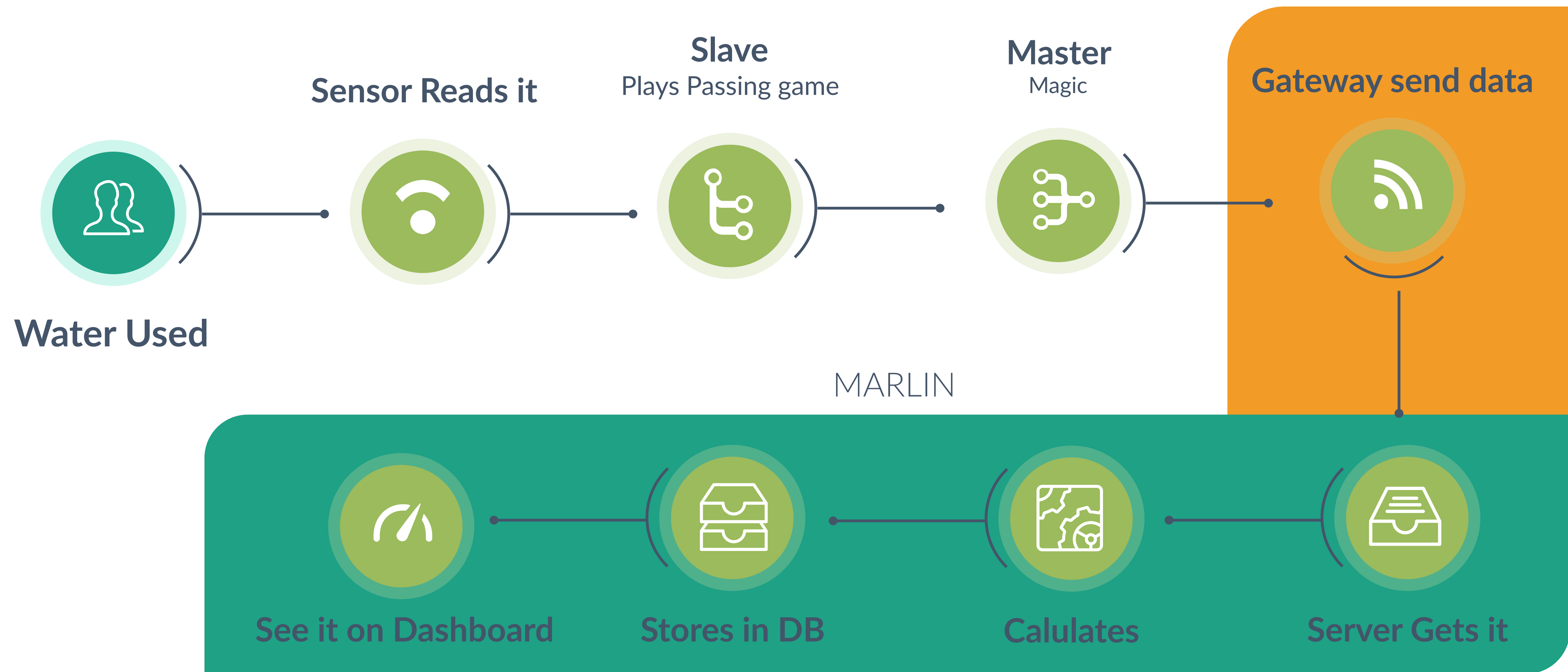
How it Really Works?

Not that simple.



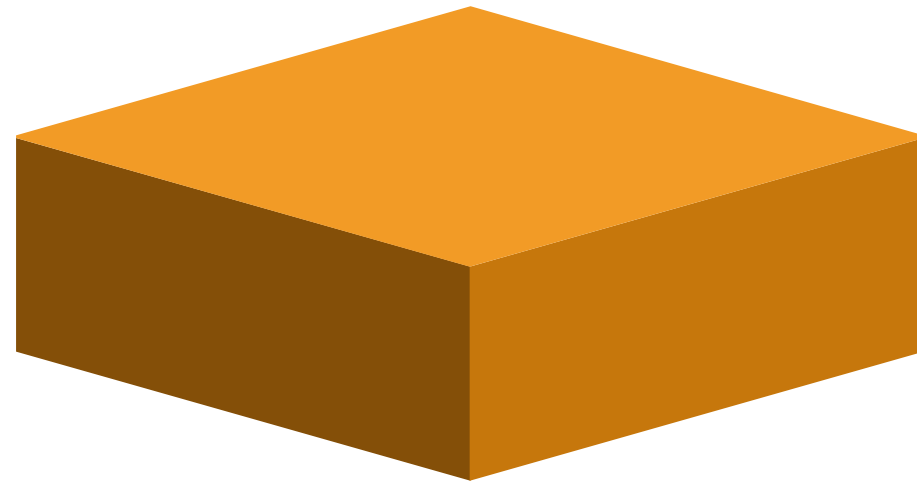
What is different now?

Not much



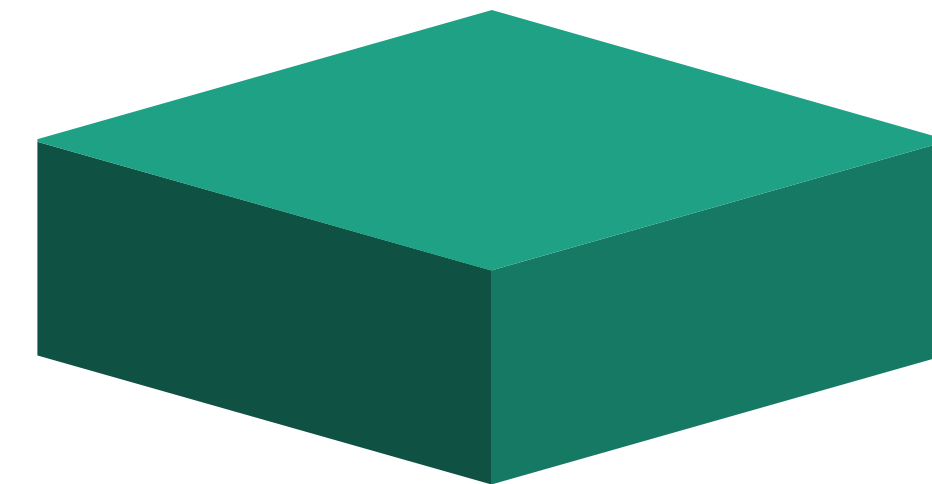
What is different now?

Not much



MQTT - Message Queuing Telemetry Transport

M - A - R - L - I - N



Before that

Missing Part



All Entities have a Unique ID



Door Number

Inlet ID

Unique ID

Little about it.

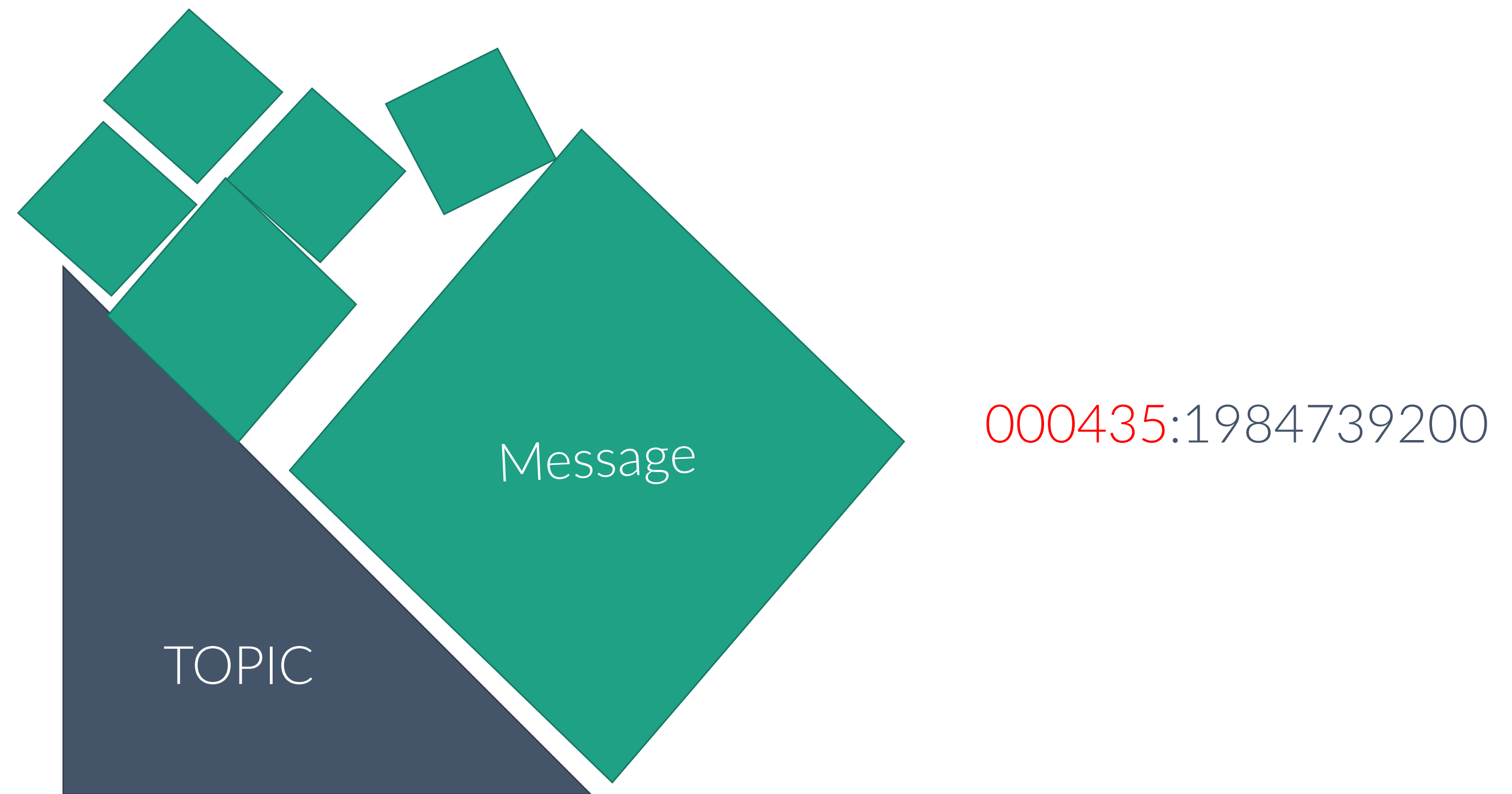
AGA371700001

12 Characters in Length - Always

AGA371700001 - Gateway ASE371700001 - Sensor



VA/FlowData/AGA371700001/ASE371700001



Data Flow

From gateway to Database



Data from Sensor Reaches Gateway

Passes through Salves and Masters to reach here.

Gateway Finds respective Entity ID

Goes through the mapping table to find the sensorIDs



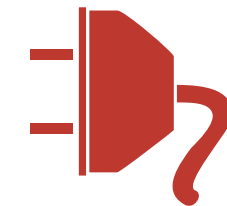


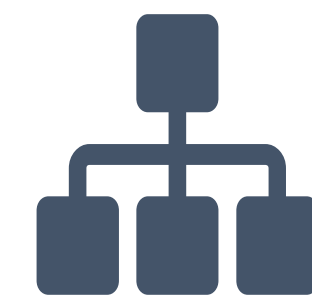
Builds and Sends MQTT Message

VA/FlowData/AGA371700001/ASE371700001

Listener Picks it up

MQTT listeners in MARLIN





Marlin Does Calculations

Goes through series of nodes to carry out all possible calculations with the data.

Stores in DB



What is Better

Almost Real-time
50ms – 10 sec Data Reflection

Modular

Faster Delivery & Testing

Features



Solenoid Controls

Pump Controls

Bwell Management

Future

MinTix™

EriKa™

End

NEXT: Site Admin Presentation
by Aishwarya

MARLIN

Technical Introduction

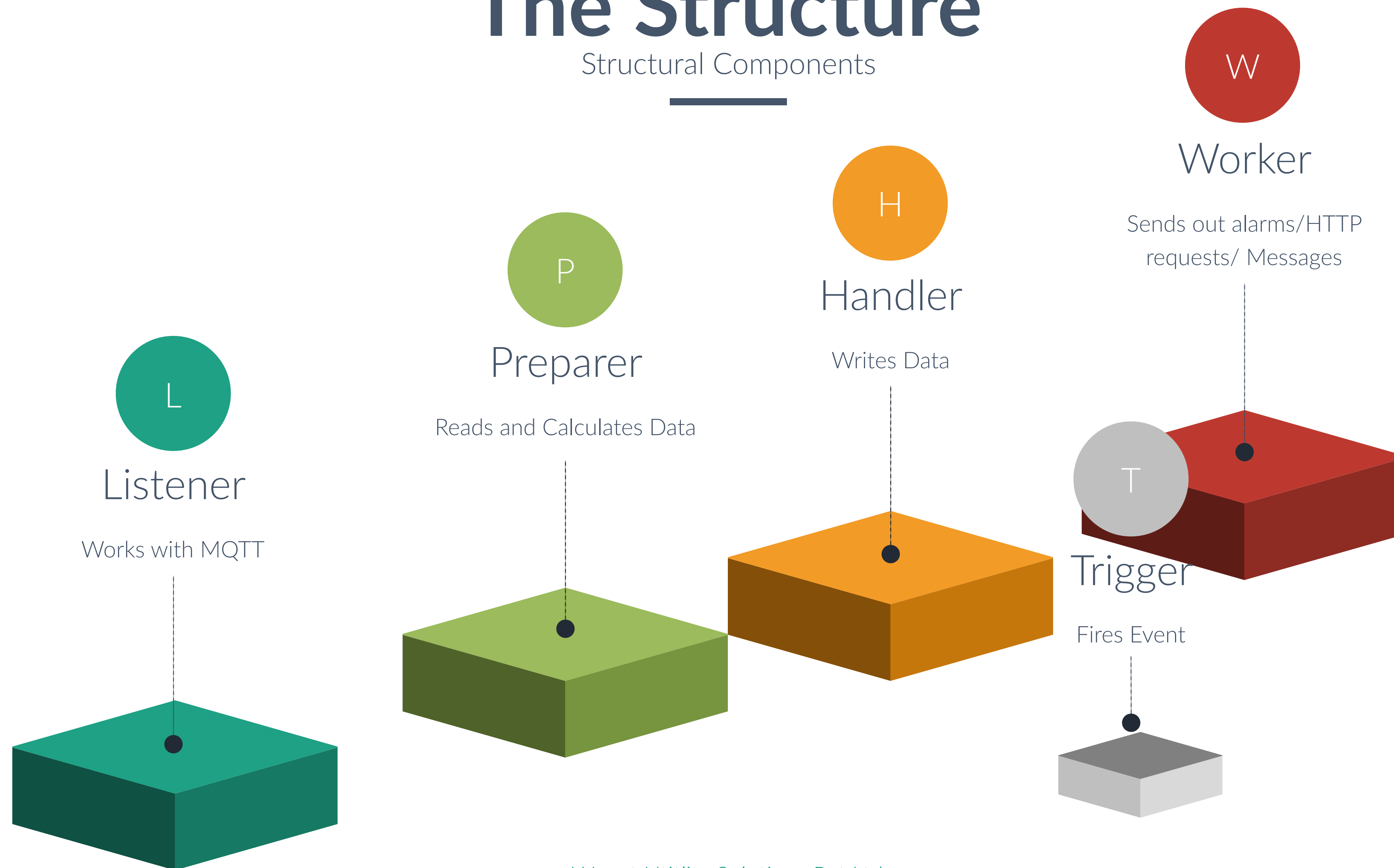
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The Stack

M	- Mongo, MySql
A	- Angular
R	- Redis
L	- Linux
I	- Influx
N	- Nodejs

The Structure

Structural Components



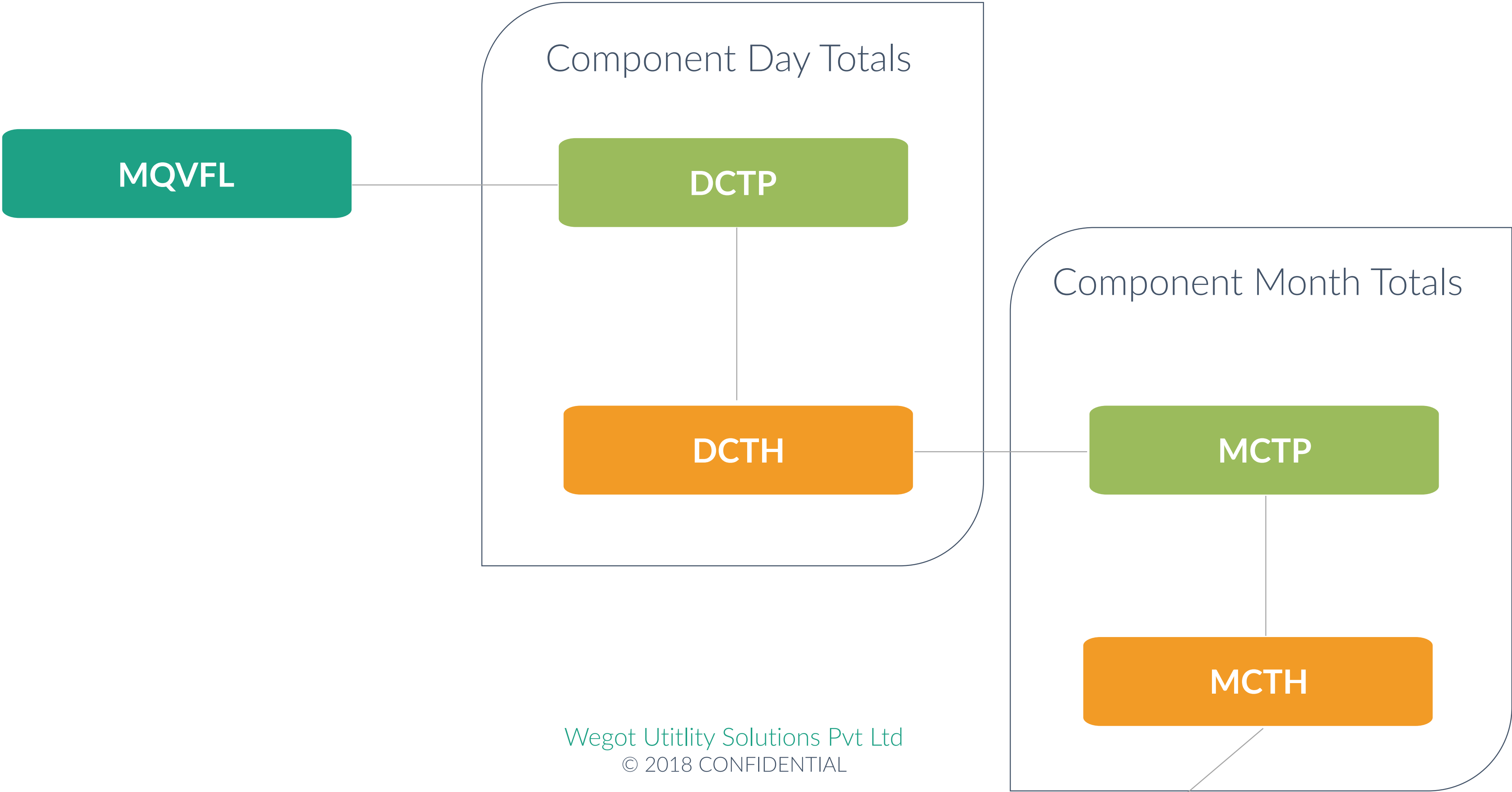
Skeleton

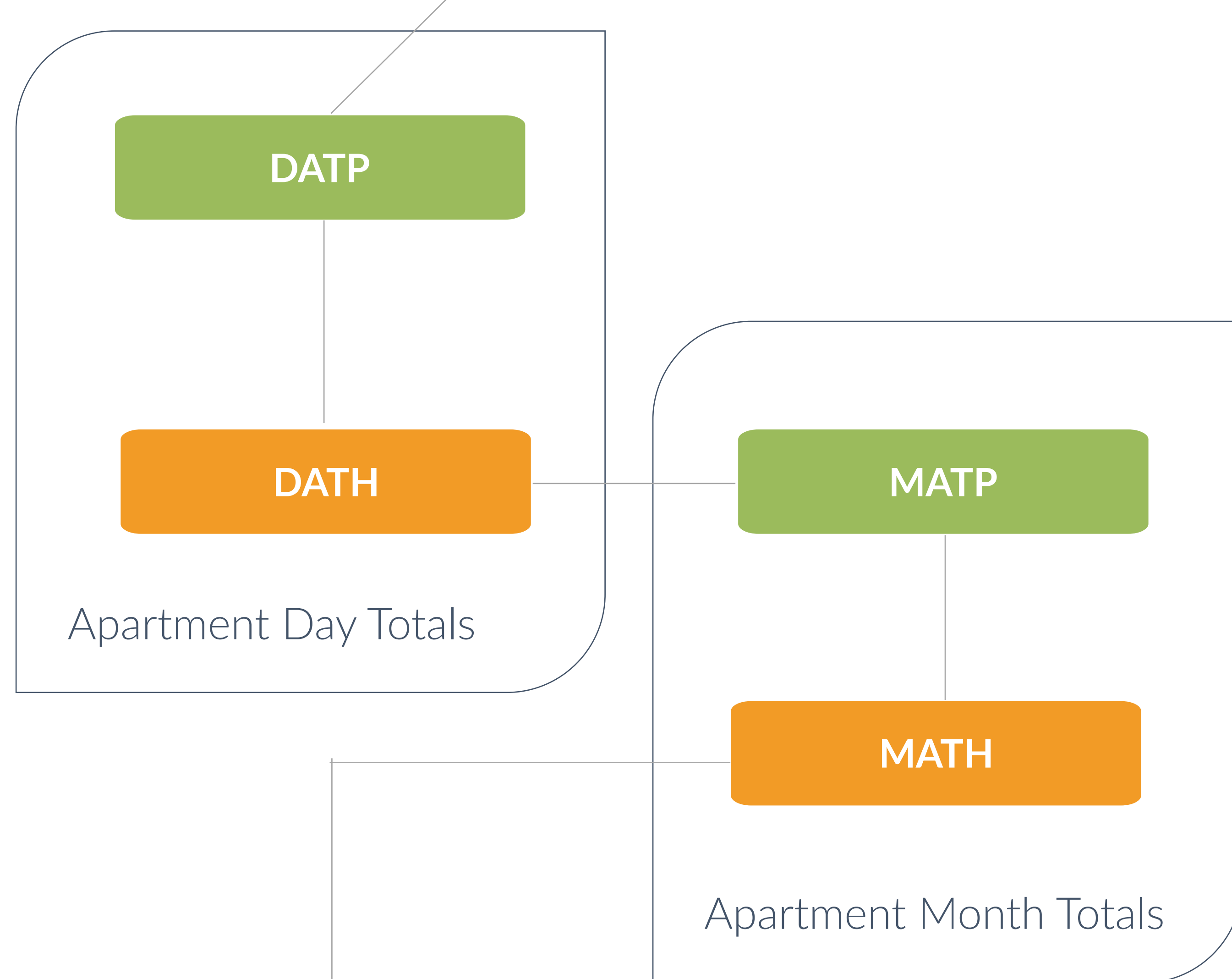
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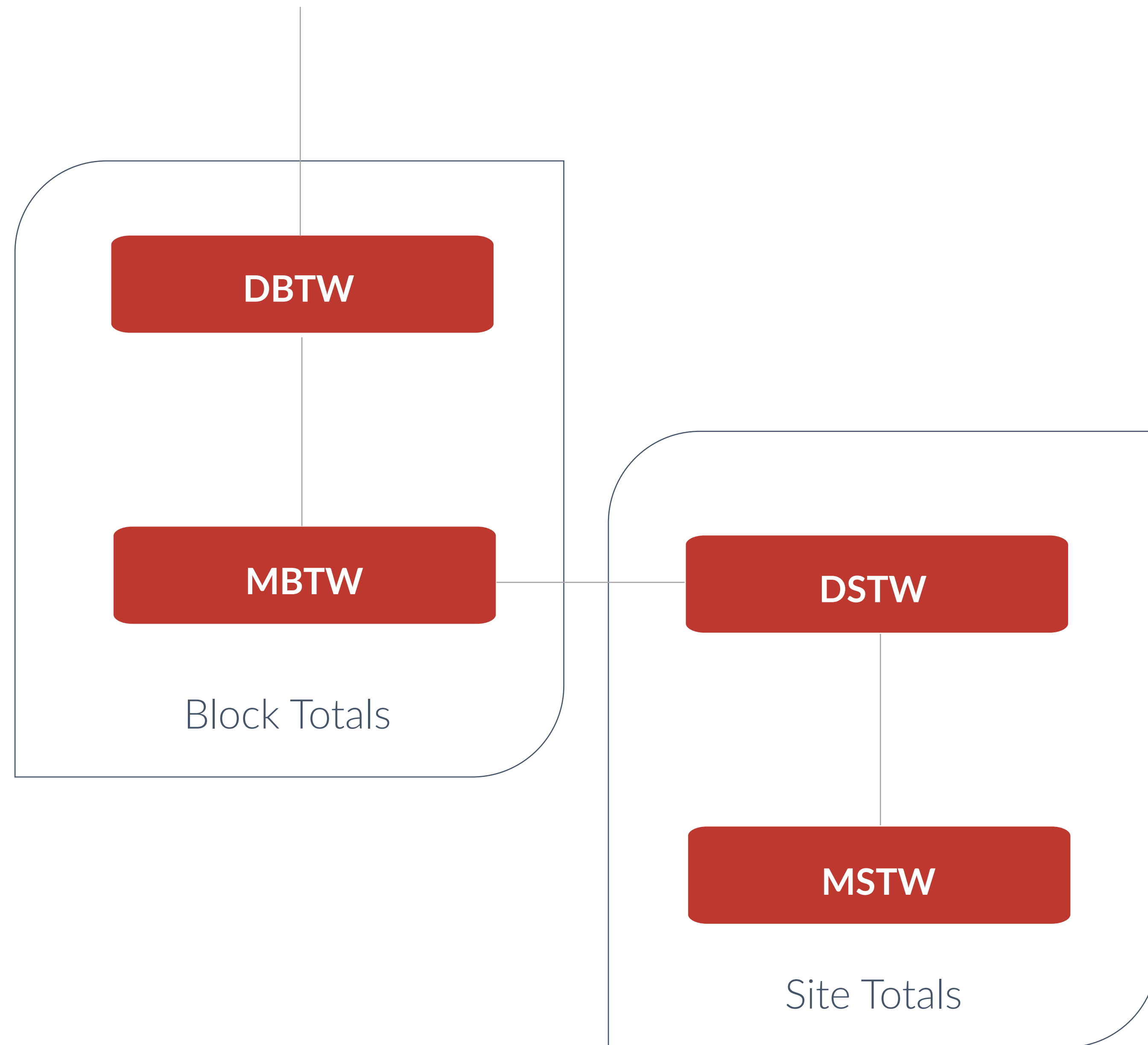


VenAqua Flow

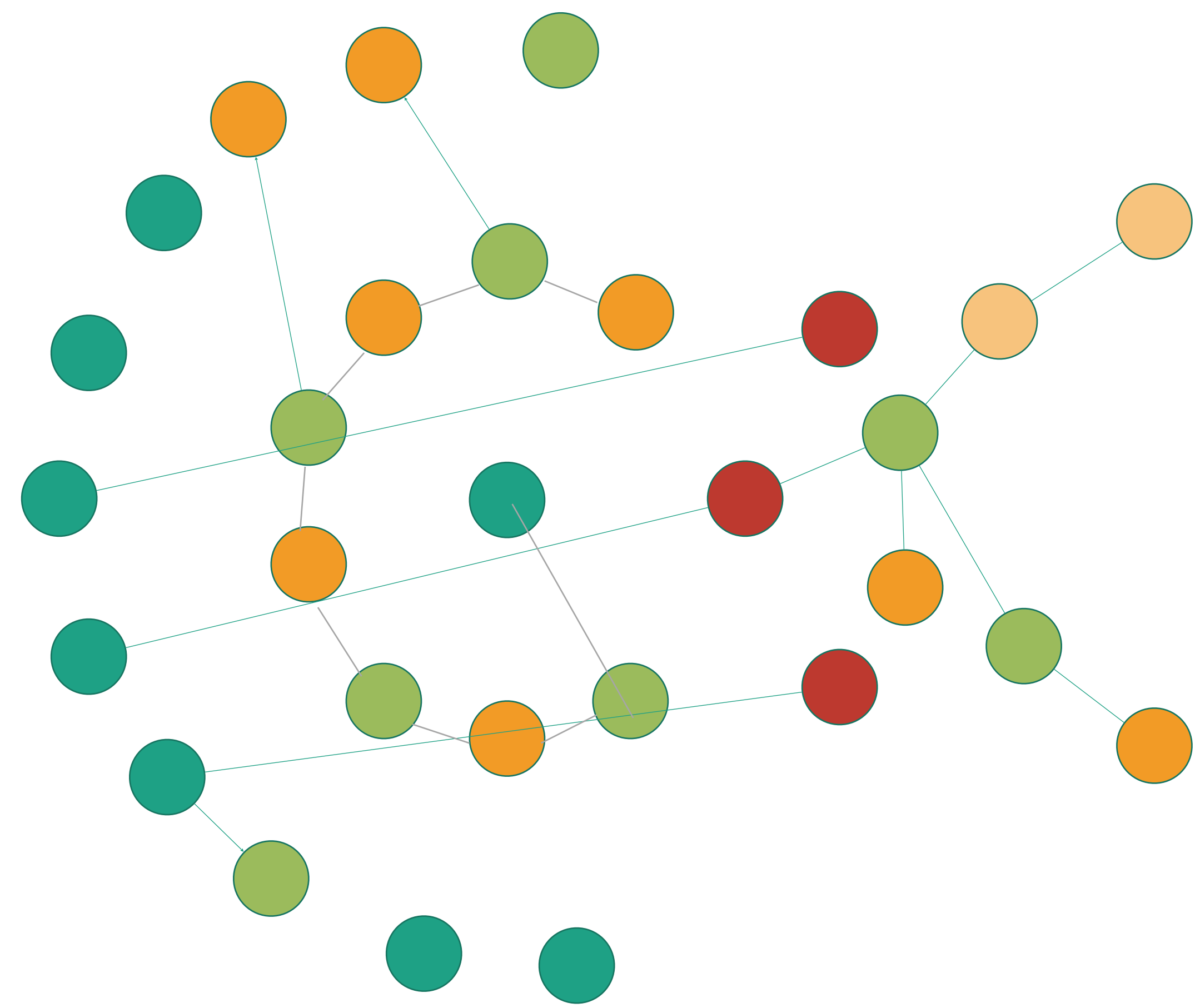
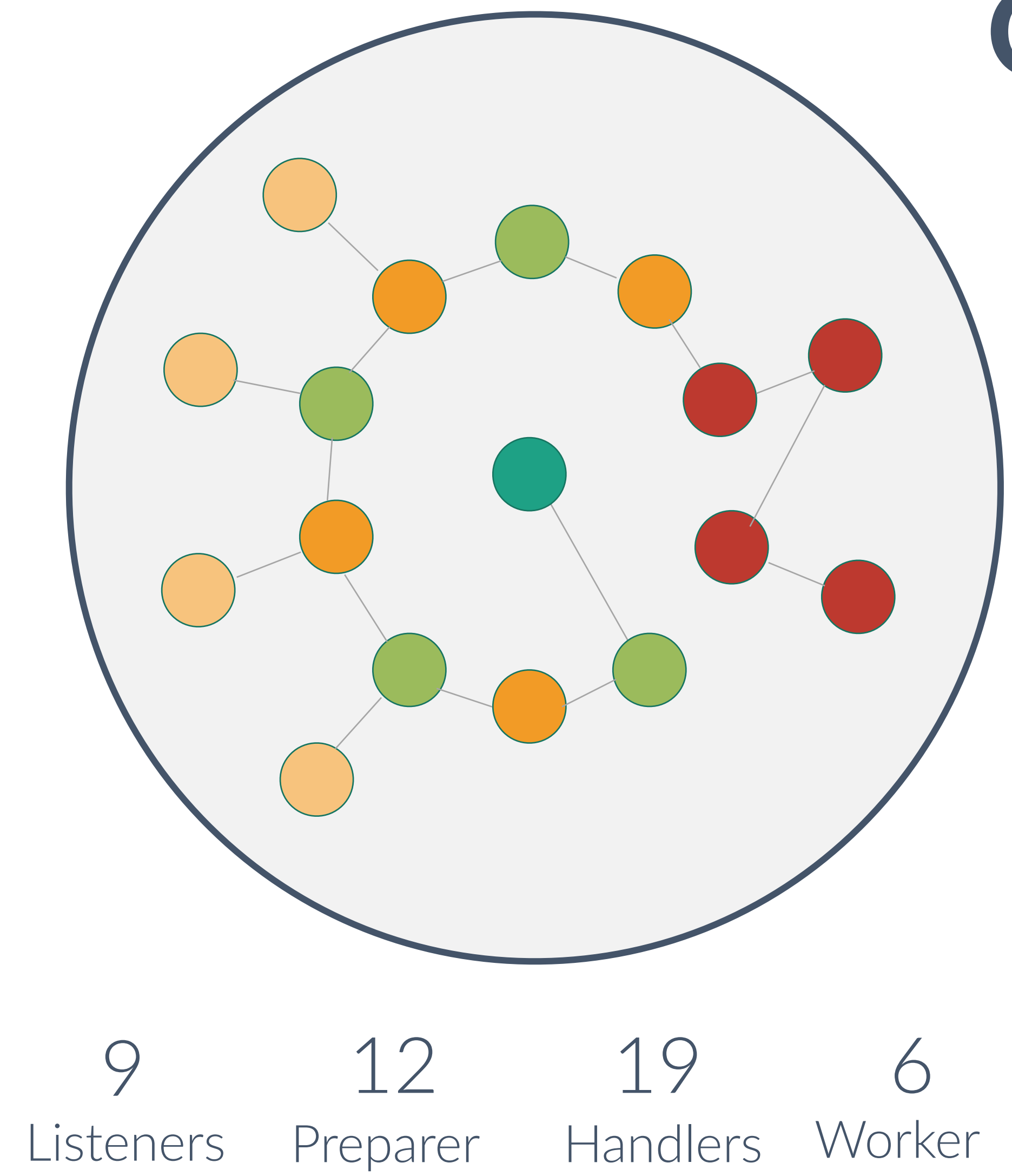
Your great subtitle in this line





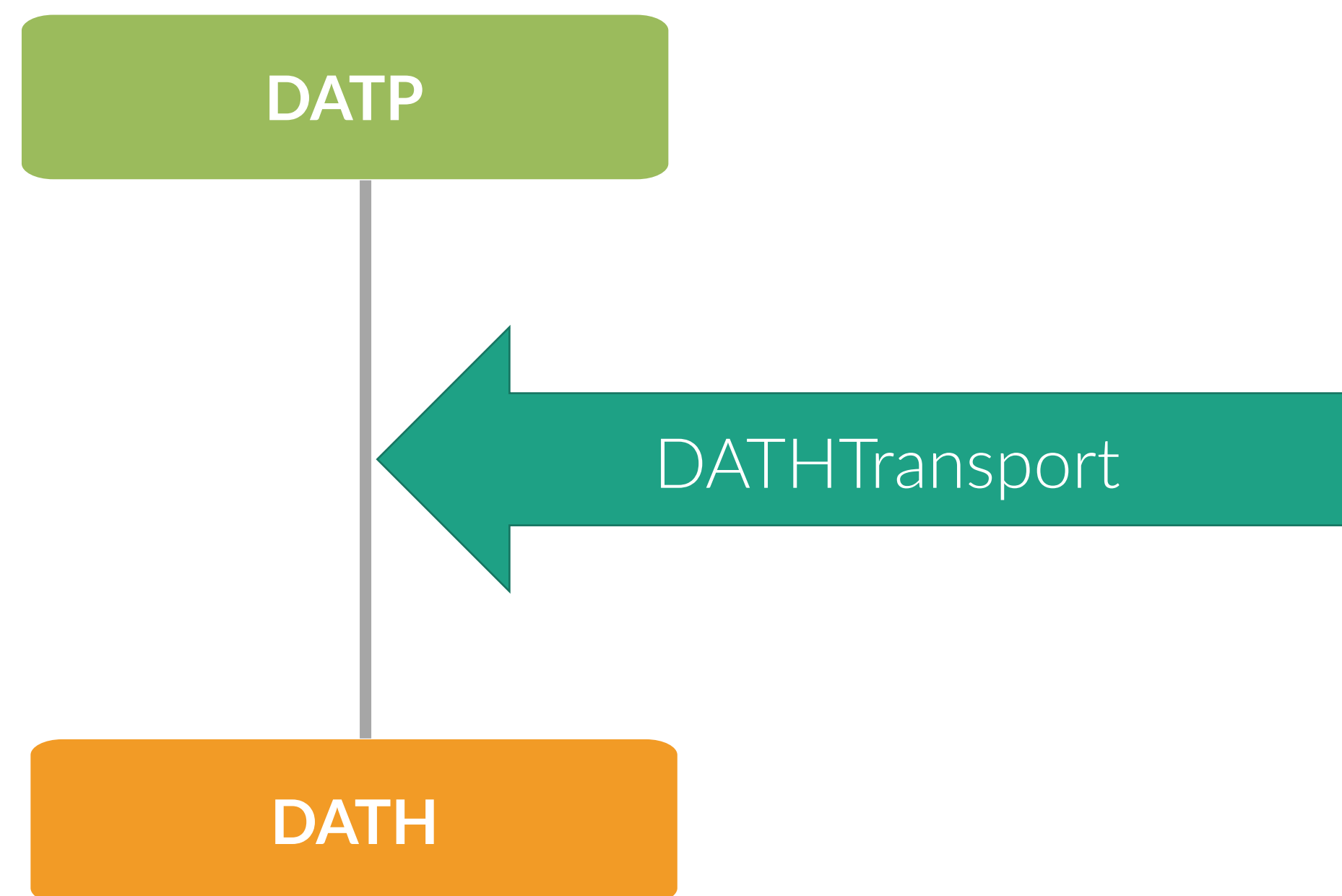


Overview



IPC

A Job Queue System with Feedback



IPC

Adding New Structural Component

