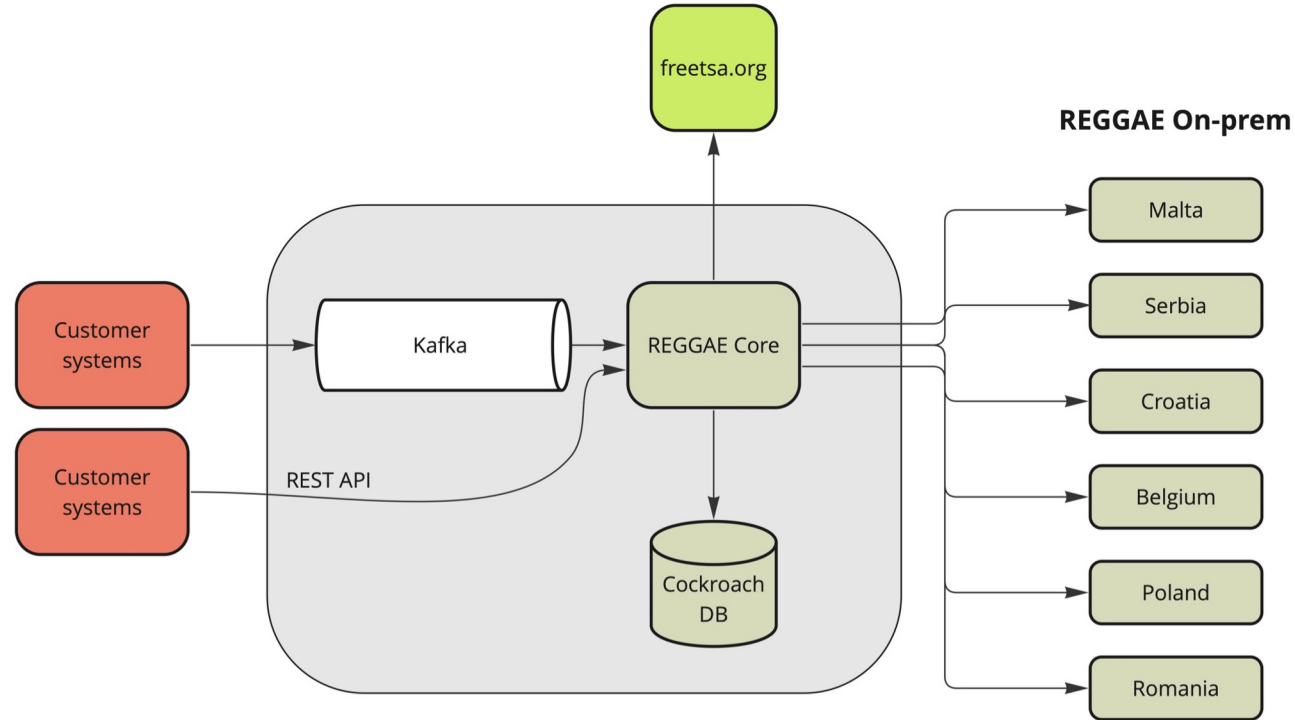# REGGAE

About me

- Worked in telecoms since 1995

- Setup Bluehouse Technology in 2014

- We build telco grade products

- Telco core network elements

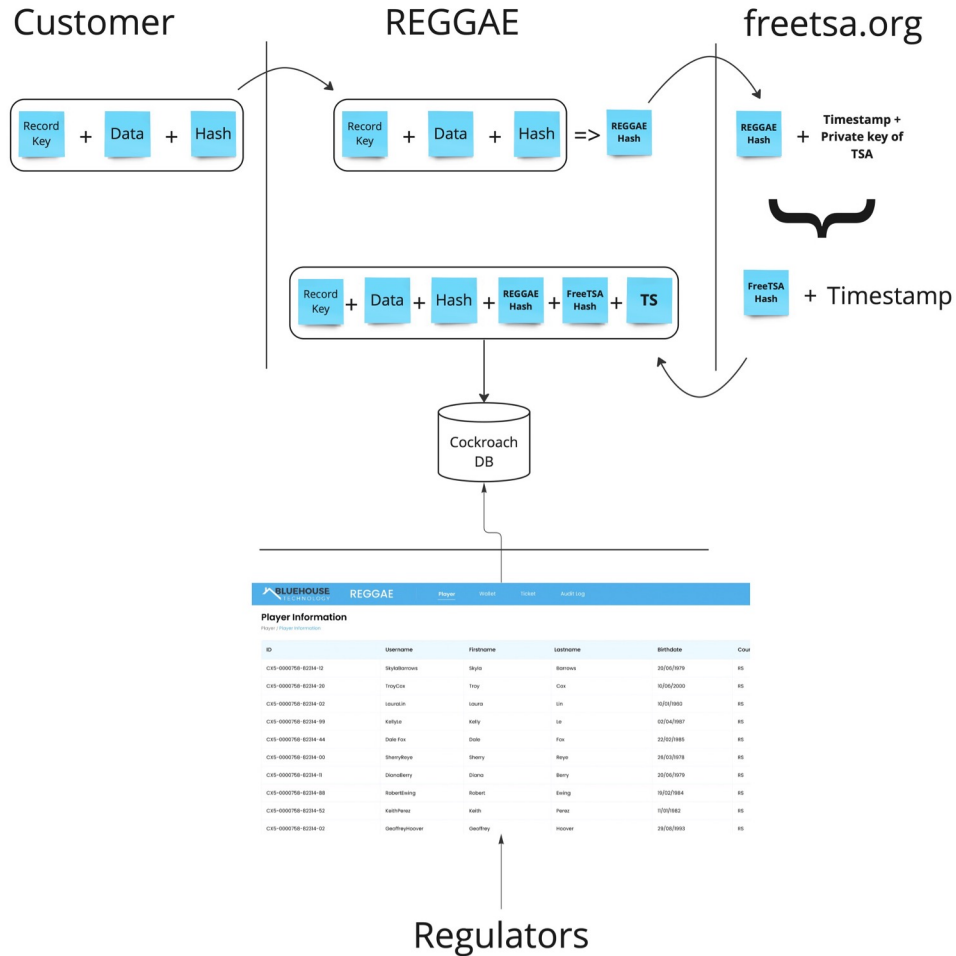- In betting, we focus on Risk management and Reg Tech

BLUEHOUSE
TECHNOLOGY

REGGAE - REGulatory Generic ArchivE

- Ingests data from your internal systems

- Data stored in a normalised internal form

- Exports data to regulators in a format expected by them

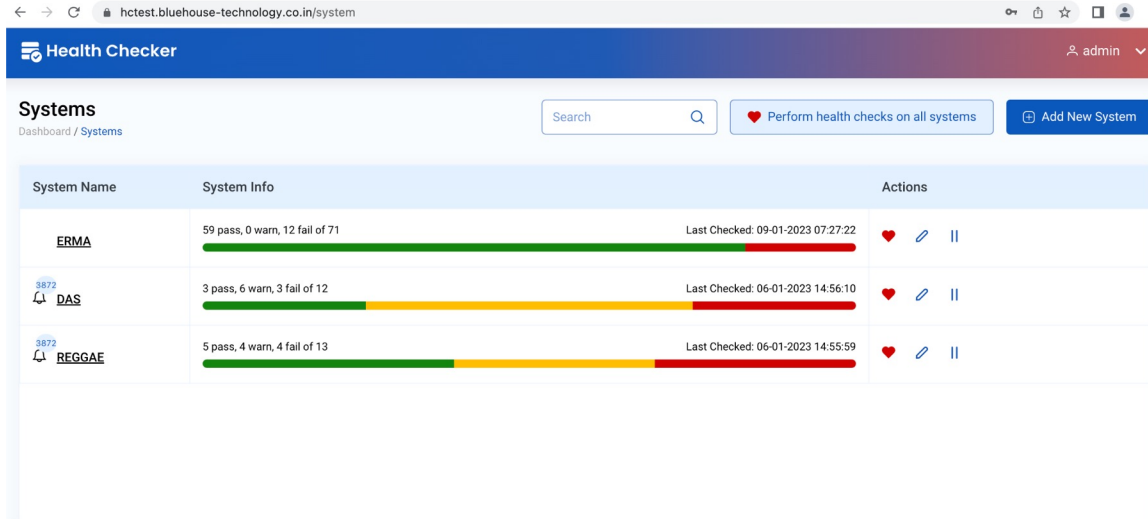- Stores copies of data on-prem in multiple jurisdictions

Immutable DB

- REST APIs / Kafka queues to write data into a data store

- Successive writes with the same key will result in multiple rows

- Consecutive rows linked using a hash chain

- Timestamping of records with freetsa.org

- Encryption of data at rest

- Copies of data in multiple jurisdictions

BLUEHOUSE
TECHNOLOGY

Customer   **REGGAE**   **freetsa.org**

Record Key + Data + Hash

Record Key + Data + Hash => REGGAE Hash

REGGAE Hash

REGGAE Hash + Timestamp + Private key of TSA

Record Key + Data + Hash + REGGAE Hash + FreeTSA Hash + TS

FreeTSA Hash + Timestamp

Cockroach DB

BLUEHOUSE REGGAE   Player   Wallet   Ticket   Audit Log

Player Information
Player / Player Information

ID	Username	Firstname	Lastname	Birthdate	Cou
CXS-0000758-82314-12	SkylaBarrows	Skyla	Barrows	20/06/1979	RS
CXS-0000758-82314-20	TroyCox	Troy	Cox	10/08/2000	RS
CXS-0000758-82314-02	LauraLin	Laura	Lin	10/01/1993	RS
CXS-0000758-82314-99	KellyLe	Kelly	Le	02/04/1987	RS
CXS-0000758-82314-44	DaleFox	Dale	Fox	22/02/1985	RS
CXS-0000758-82314-00	SherryReye	Sherry	Reye	26/03/1978	RS
CXS-0000758-82314-15	DianaBerry	Diana	Berry	20/06/1979	RS
CXS-0000758-82314-88	RobertEwing	Robert	Ewing	19/02/1984	RS
CXS-0000758-82314-52	KeithPerez	Keith	Perez	11/05/1982	RS
CXS-0000758-82314-02	GeoffreyHoover	Geoffrey	Hoover	29/08/1993	RS

Regulators

BLUEHOUSE TECHNOLOGY

Healthchecker

- At-a-glance view of the health of a system
- Automates checks for faster triaging of issues
- Codifies operational knowledge
- Discovers services in k8s clusters