



TAMOSS

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TAMS

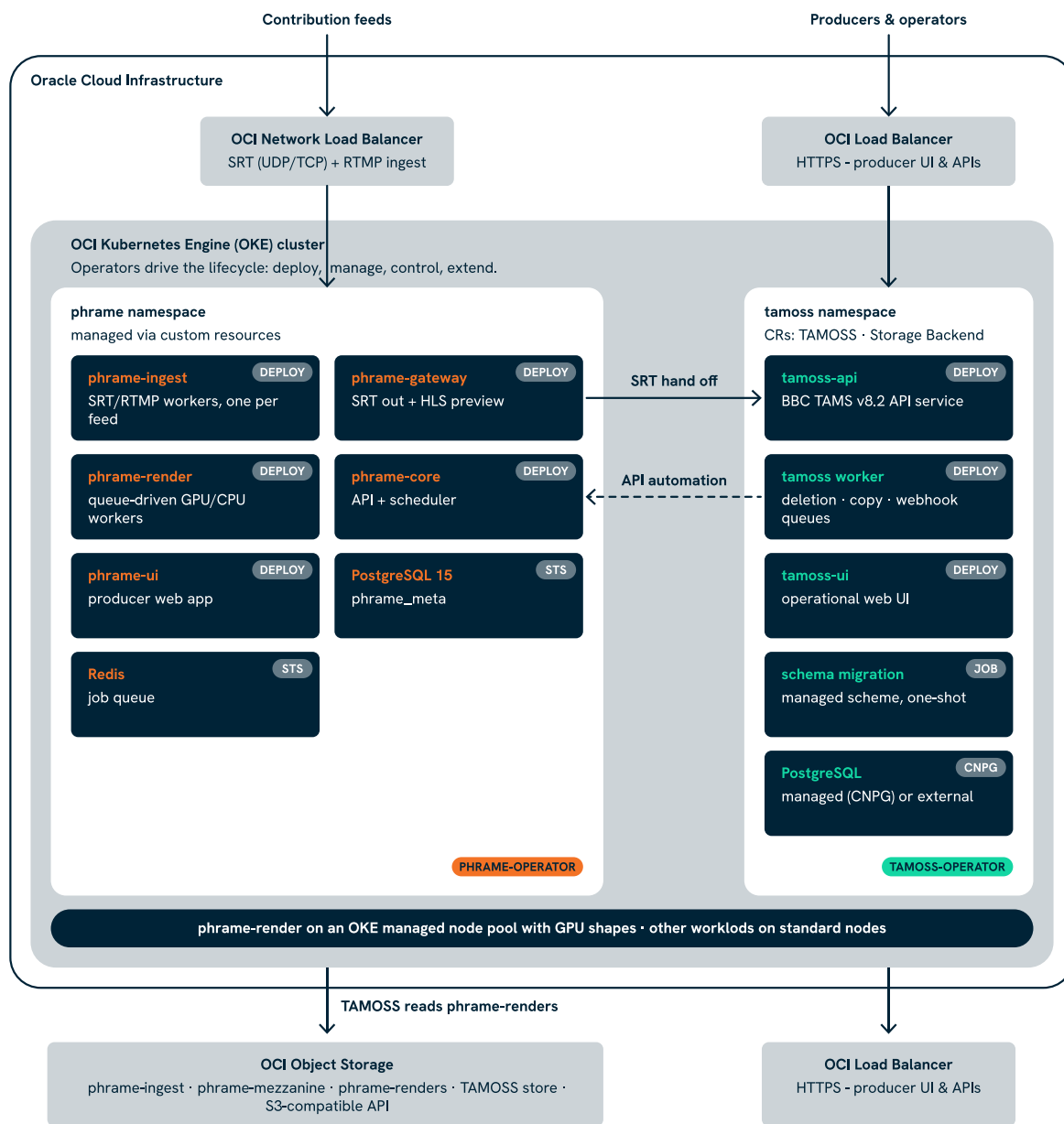
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lwy.fyi/phrame-oci

Cloud-native live broadcast production on Oracle Cloud Infrastructure

TAMOSS is a Kubernetes-native implementation of the BBC TAMS v8.2 API: an operator-managed, time-addressable media store. Phrame is the live production layer: SRT/RTMP ingest, queue-driven GPU rendering, SRT programme egress and a producer web UI.



DEPLOY = deployment · STS = StatefulSet · JOB = Job · CNPG = CloudNativePG · dashed arrow = designed integration

- Prometheus metrics from both stacks are collected into OCI Monitoring.
- Clock sync via the OCI NTP service — Phrame requires NTP for frame-accurate timing.
- PostgreSQL 15 and Redis run in-cluster; managed equivalents exist on Oracle Cloud Infrastructure.

Live production and a standards-based media store. One Kubernetes stack, run by operators.

TAMOSS and **Phrame** run side by side in one managed Kubernetes cluster: Phrame takes contribution feeds from the wire to rendered programme output, and TAMOSS keeps every frame addressable in a BBC TAMS v8.2 media store. Two operators — `tamoss-operator` and `phrame-operator` — carry the entire lifecycle.

One operator-driven lifecycle

Deploy, manage, control and extend the whole stack through Kubernetes custom resources. The operators reconcile desired state, correct drift and report readiness — day-2 operations become declarative.

Elastic GPU reasoning

Phrame's render farm is queue-driven: GPU workers scale out on dedicated GPU nodes when demand spikes and scale back when the show is over.

One storage foundation

Ingest, mezzanine and rendered media live in cloud object storage, and TAMOSS manages its store the same way — the media library and the production pipeline share one S3-compatible storage foundation.

Open standards, portable by design

TAMOSS implements the BBC TAMS v8.2 API — a published, open specification — and both products are Kubernetes-native, so the same stack runs wherever certified managed Kubernetes runs.

Producer-friendly web workflow

Producers drive the show from Phrame's web app, while operations teams watch state and browse the store through TAMOSS's operational web UI.

Built on Oracle Cloud Infrastructure

One storage tier

Ingest, mezzanine, renders and the TAMS store all live in OCI Object Storage. Media stays in one place from production to archive, and the S3 API keeps tooling working.

Frame-accurate timing

The OCI NTP service, backed by redundant stratum-1 clocks in every availability domain, holds every node well inside a frame period with nothing to install or operate.

Standard shapes

CPU-only node pools on flexible standard shapes with no GPU capacity to secure. Preemptible instances suit render workers as the queue tolerates interruption.



Talk to a specialist

LiveWyer builds the platform and Phrame delivers the show: cloud native infrastructure, an open BBC TAMS media store and live production on one Kubernetes stack. Tell us about your production goals and we will show you what it looks like on your OCI tenancy.

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