



API control plane for broadcast file delivery

Red Bee Media now runs broadcast file delivery through an API-driven serverless control plane, its legacy systems untouched

An API where there was none

Scheduling, media libraries and playout now talk through one control plane.

Serverless by design

Lambda, DynamoDB, SQS and S3 carry the logic; there is nothing to patch, size or leave running, and cost follows usage.

Legacy left untouched

Go agents wrap each existing system, so no vendor software was modified.

Built to be owned

Terraform, an admin panel, a health endpoint and per-error alerts let the operations team run and extend it themselves.

CHALLENGE

Red Bee Media's Access Services division prepares subtitle and audio description files for a major UK broadcaster. Delivery ran on file drops and hand-offs between scheduling, media libraries and playout, with **no API layer joining them**, and a playout refresh demanded one controlled route.

SOLUTION

We built the File Delivery Controller (FDC): an **API-driven, serverless control plane** on AWS. Lambda, DynamoDB and SQS hold the workflow and its state, API Gateway exposes it to operators and monitoring, and five Go agents wrap Plan Bee, the subtitle library and the AD compiler so each legacy system takes part through its existing interface. Terraform builds all of it.

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CHANGES TO
LEGACY SOFTWARE

4

EXISTING SYSTEMS
INTEGRATED

3

YEARS SUPPORTED
IN PRODUCTION

CONCLUSION

FDC gave Red Bee Media an integration architecture it had not had before: queues, tables and an API between systems that were only ever joined by files and people. Because the logic lives in AWS and the agents only translate, the legacy estate ran unchanged while the platform around it became versioned, monitored and reproducible. We supported the service for three years, then handed it to the in-house team with the documentation to own it, which was the aim from the start.

Thank you for reading

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