

DC4400 Project Report

Processing of schedule updates/changes

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January 18, 2024



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1 Executive Summary

2 Introduction

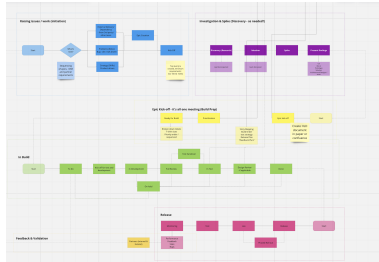
The BBC is now over 100 years old [1] and is well known for its TV channels and radio stations that are broadcast over the airwaves [2] to peoples homes across the UK. However this old way of broadcasting, sending out airwaves on a certain frequency to an antenna, is becoming less popular in the modern age of the internet. A study done by Ofcom [3] showed that people *'watched on average about 16% less broadcast TV between 2019 ... and 2022'* [4], with viewing *'decreasing by 47%'* [4] between ages 16-24. In addition to this another study carried out by media analyst firm Ampere found that in 2021 37% of people claimed to watch no linear TV, this increased to 45% by 2023 [5].

This fall correlates with the significant rise in internet enabled TVs in the home, with statista finding that *'In 2014 just 11 percent of households in the UK owned a Smart TV, whereas, in 2023, nearly 74 percent of households reported owning a Smart TV.'* [6]. Some of these devices still support OTA broadcasts, however devices like the Amazon Fire TV stick and Googles Chromecast, are purely internet based; However they do offer a *'guide/epg'* section with Amazon having a development guide [7] on how to integrate with it. Director general of the BBC, Tim Davie, in a 2022 stated *'The vision is simple: from today we are going to move decisively to a digital-first BBC'* [8], giving more priority on these new forms of media.

This report will discuss an upgrade carried out to the BBCs *'off-product'* schedules system, responsible for delivering up to date schedules to companies such as Freeview, Amazon and more. First I will give some background on the project, this will include research done, the starting architecture of the system and how it aligns with the BBCs and teams OKRs [9]. Following that, I will discuss the work that was done, this will include the planning, writing, testing and deployment stages of the project, discussing findings along the way. Then a short section on the final product that has been produced followed by a final discussion of future upgrades to the system that could be carried out.

3 Background

4 Work Done



- 4.1 Investigation and Spike
- 4.2 Slicing and ticket creation
- 4.3 Build software
- 4.4 Release

5 Outputs

6 Future Work

7 Conclusion

8 References

- [1] BBC. (2022) *Timeline - History of the BBC* [online]. Available at <https://www.bbc.co.uk/historyofthebbc/bbc-100/timeline/> (accessed on 18th January 2024).
- [2] Pilnick, C. Baer, S, W. (1973) *Cable television: A guide to the technology* [online]. Available at <https://www.rand.org/content/dam/rand/pubs/reports/2006/R1141.pdf> (accessed on 18th January 2024).
- [3] Ofcom. (2024) *Home- Ofcom* [online]. Available at <https://www.ofcom.org.uk/> (accessed on 18th January 2024).
- [4] Ofcom. (2023) *Media Nations report 2023* [online]. Available at https://www.ofcom.org.uk/__data/assets/pdf_file/0029/265376/media-nations-report-2023.pdf (accessed on 18th January 2024).
- [5] Ampere Analysis. (2023) *Almost half of Internet users say they have switched off broadcast TV* [online]. Available at <https://www.ampereanalysis.com/press/release/dl/almost-half-of-internet-users-say-they-have-switched-off-broadcast-tv> (accessed on 18th January 2024).
- [6] Statista. (2023) *Household penetration of smart TV sets in the United Kingdom (UK) from 2014 to 2023* [online]. Available at <https://www.statista.com/statistics/654074/smart-tv-penetration-in-uk-households/> (accessed on 18th January 2024).
- [7] Amazon. (2021) *Linear TV Integration Guide Overview* [online]. Available at <https://developer.amazon.com/docs/fire-tv/linear-tv-integration-guide-overview.html> (accessed on 18th January 2024).
- [8] Davie, T. (2022) *A digital-first BBC* [online]. Available at <https://www.bbc.co.uk/mediacentre/speeches/2022/digital-first-bbc-director-general-tim-davie> (accessed on 18th January 2024).
- [9] Sparks, R. (2024) *OKRs: the ultimate guide to objectives and key results* [online]. Available at <https://www.atlassian.com/agile/agile-at-scale/okr> (accessed on 18th January 2024).

<https://www.atlassian.com/agile/agile-at-scale/okr>

9 Appendix