



# Automating Freeview Play device certification



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# How it all started

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- **Test automation** idea – born in **July 2014**
- No test automation tools available – had to **build it ourselves**
- Initial 2 concepts failed – **3rd attempt was a success** using **self-built** hardware
- Suitest **publicly** presented in **May 2015** and later that year at the HbbTV Symposium



In the mean time

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- Massively improved and **increased feature set – device management**, platform support Tizen, webOS, Android TV, Apple TV, Xbox One, Roku etc.
- Working with **Digital UK since 2016** – test automation for **Freeview Play (FVP) apps**
- **Idea** for a new use case - **automated manufacturer self-certification** of devices for FVP apps





What does certification mean for manufacturers?

- **50+ device certifications** in Europe alone
- **Certification effort** example for one manufacturer per year – **up to 4 months** using 3 to 4 people for **full UK certification** of 1-2 platforms (LG releases 3-4 platforms per year).
- **2-3 test cycles** including bug fixing for each content **player**
- Freeview Play and BBC certifications – highly **complex** and **time-consuming**



## How is FVP player certification done today?

- **Digital UK** – provides spreadsheets with test scenarios that must pass
- **Content provider (CP) player tests** - **Freeview Explore, CBS, CBS - Horror Bites, UKTV Play, STV Player, All 4, ITV hub and Channel 5**
- Manufacturers – execute **tests manually**, check results **visually**, manual result collection
- Bugs found by testing – bug fixing process, **re-testing manually**
- Test scenarios **passed** – spreadsheets are **sent to Digital UK**
- **15-20** manufacturers – currently manually self-certifying



How can FVP  
player certification  
be automated?

- **Digital UK** - shares tests with manufacturers **via Suitest**
- **Manufacturer** - pairs device with his **Suitest account**
- Manufacturer – **executes** the self-certification process with the **shared tests**
- Manufacturer - receives the **results** of each test cycle **within minutes**
- Cherry on top – **reuse** tests for **firmware updates**





What is the labour saving?

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x 2-3 test cycles



x 1-2 platforms  
x 8 content players

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**128-480 h**



x 2-3 test cycles



x 1-2 platforms  
x 8 content players

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**16-96 h**

# Summary

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- Suitest becomes a platform for **application based certification**
- Up to **75%** labour saving
- **Simplification** of the certification **process**







**T H A N K   Y O U**

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