

# DTT Transition Retailers and Distributors



**Embrace the Future of Television** 

Digital Terrestrial Television

Breakfast Meeting

Friday 8th September 2023



## **State of Analogue FTA TV Market**

100 - 150k households currently consume FTA TV content\*

FTA TV market revenue is recovering, but still below 2017/2018

Pay TV subscriptions in decline

FTA TV has significant opportunities for growth, holds a competitive edge

- \* conservative estimate based on CSO's 2011 census
- ~405k households in Trinidad and Tobago.

Does not include FTA TV content consumed on PayTV





### **Transition to DTT**

DTT is the technology used in the transmission and reception of free-to-air television signals in a digital format.

Analogue Digital



SD only

FTA TV only

1 RF channel = 1 content channel



**UHD** 

FTATV + Enhanced Features 1 RF channel = multiple content channels



# **Benefits of DTT Adoption**



**Reduced Costs** 

Estimated annual opex savings of TT\$1m+

Spectrum, Electricity, Insurance, Repairs & Maintenance



**Increased Revenues** 

**Datacasting** 

Additional channel opportunities

Education content delivery

**Disaster Relief** 

**5G** integration



**Increased Quality** 

HD, 4K

**EPG** 

Increased coverage

On Demand

**Future-Proof** 



**ESG** 

Reduced energy consumption

Safer RFR levels

Bridging the digital divide





#### **DTT Milestones**

- DTT Framework established
- Notice of ATSC 3.0 Standard published
  - Developed in consultation with FTA broadcast TV industry gaining full consensus
- Industry Working Groups convened



The Telecommunications Act Chap. 47:31

#### **NOTICE**

Pursuant to section 45(2) of the Telecommunications Act

#### ADOPTION OF ADVANCED TELEVISION SYSTEMS COMMITTEE STANDARD VERSION 3.0 (ATSC 3.0) AS THE STANDARD FOR FREE-TO-AIR DIGITAL TERRESTRIAL TELEVISION (DTT) IN THE REPUBLIC OF TRINIDAD AND TOBAGO

Pursuant to section 45(2) of the Telecommunications Act Chap. 47:31, the Telecommunications Authority of Trinidad and Tobago (the Authority) hereby notifies the public of its adoption of the Advanced Television Systems Committee digital television standard version 3.0 (ATSC 3.0) as the standard for free-to-air digital terrestrial television (DTT).

The adoption of the ATSC 3.0 standard is based on a requirement of the Authority's Framework for Digital Terrestrial Television Broadcasting (DTT Framework) which underwent two rounds of consultation.

The selection of ATSC 3.0 as the DTT standard included deliberations by the DTT Technical Working Group which comprised key stakeholders in the broadcast industry. The free-to-air television broadcast industry has therefore by consensus agreed to the adoption of ATSC 3.0 as the standard for DTT.

ATSC 3.0 is an advanced DTF standard that allows content to be delivered in up to 8K resolution and is based on Internet Protocol, thus, allowing modern entertainment experiences such as interactive viewing and datacasting services.

In March 2023, the Authority will recommence work with the broadcasting industry and other stakeholders to ensure a smooth transition to ATSC 3.0 by 2026. This will include ensuring ATSC 3.0 consumer devices are available in Trinidad and Tobago.

Date: 18th January 2023.



# **Global ATSC 3.0 Developments**

- Deployments in the US cover 60% of viewing audience in over 70 markets as of August 2023
  - Datacasting networks established in Denver, Detroit, Kansas City and Indianapolis by Scripps
- Korea has achieved 70% ATSC 3.0 coverage and has identified ATSC 1.0 sunset in 2027 to support national innovation initiatives such as 5G MBMS, OTA Software updates and Enhanced GPS
  - 9 out of 10 TVs sold in Korea support UHD using ATSC 3.0
- Direct to Mobile (D2M) being actively trialled and rolled out in India for mobile traffic offload using ATSC 3.0



# **Global ATSC 3.0 Developments**

- TVJ in Jamaica currently has 2 ATSC 3.0 transmitters operational, carrying 5 stations including TVJ's previously carried cable-only channels and Jamaica PBS
- Canada has experimental licence operational in Toronto supported by Humber's College Broadcast-Broadband Convergence (B2C) Lab
- 2 TV broadcasters in Mexico have applied for ATSC 3.0 experimental licences
- Formation of Implementation Team 7 by ATSC to support the Caribbean



## **DTT Ecosystem Update**



#### Hisense



SAMSUNG

SONY

- 41 ATSC 3.0 TV models available at August 2023
  - Hisense (3), LG (6), Samsung (18), Sony (14)
- ATSC 3.0 Receivers available from US\$100







https://www.watchnextgentv.com/shop/



# ATSC 3.0 Receiver Specifications

- Support for ATSC 3.0 tuners in full TVs
- Nextgen certified (Ideally)
- STBs available for existing TVs that do not support ATSC 3.0





#### **DTT Transition Path**

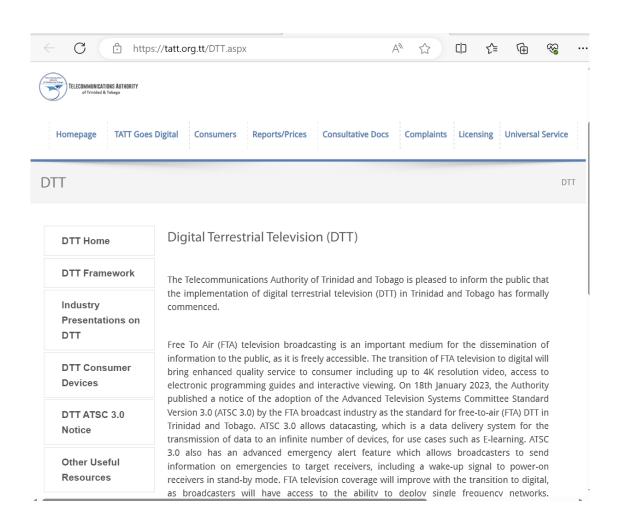


 Ubiquity of ATSC 3.0 receiver ecosystem from 2023 to 2026 to enable Analog Switch-Off



### **Additional DTT Information**

- TATT's website www.tatt.org.tt/dtt.aspx
- ATSC website –
   https://www.atsc.org/nextgen-tv/
- Nextgen TV website https://www.watchnextgentv.com/





# The Way Forward

- TATT to share with retailers and distributors information on supported television sets by 11<sup>th</sup> September 2023
- Retailers to liaise with their suppliers to determine whether sets are available
- Retailers to provide feedback to TATT by 29<sup>th</sup> September on any challenges with sourcing ATSC 3.0 televisions
- If none, retailers to provide feedback as to when ATSC 3.0 television sets will be available in market and on shelves
  - Once timing confirmed, TATT to support with customer education and information on the benefits
- The Authority intends to have 10,000 receivers sold in market by launch of ATSC 3.0 in July 2025 of market size of 100,000 households







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