Points to Note for Contractors of Common Antenna Broadcast Distribution (CABD) Systems / In-building Coaxial Cable Distribution Systems (IBCCDSDS)
Background

Channel Migration
• Use of new frequencies in the 500 MHz band to transmit the DTT programme channels currently transmitted by the frequencies in the 600/700 MHz bands

Future Use of 600/700 MHz Bands
• Public mobile services including 5G
# Details of Channel Migration

<table>
<thead>
<tr>
<th>Broadcaster</th>
<th>Digital TV Programme Channel</th>
<th>Existing DTT Frequency Channel</th>
<th>New DTT Frequency Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio Television Hong Kong (RTHK)</td>
<td>RTHK TV 31</td>
<td>UHF Ch 62 (798 - 806 MHz)</td>
<td>UHF Ch 27 (518 - 526 MHz)</td>
</tr>
<tr>
<td></td>
<td>RTHK TV 32</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>RTHK TV 33</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Television Broadcasts Limited (TVB)</td>
<td>Jade 81</td>
<td>14 DTT frequency channels in 470 to 806 MHz band using Multiple Frequency Network (MFN)</td>
<td>UHF Ch 37 (598 - 606 MHz)</td>
</tr>
<tr>
<td>HK Television Entertainment Company Limited (HKTVE)</td>
<td>ViuTVsix 96</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>ViuTV 99</td>
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<td></td>
</tr>
</tbody>
</table>

Remarks:
Digital TV programme channels 82, 83, 84 and 85 (i.e. J2, TVB News, Pearl and TVB Finance & Information respectively) will continue to use UHF Ch 35 (582 - 590 MHz) for broadcasting.
# Timetable

<table>
<thead>
<tr>
<th>Digital TV Programme Channel</th>
<th>DTT Frequency Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTHK TV 31 RTHK TV 32 RTHK TV 33</td>
<td>Before 1 Apr 2021</td>
</tr>
<tr>
<td>RTHK TV 31 RTHK TV 32 RTHK TV 33</td>
<td>• UHF Ch 62</td>
</tr>
<tr>
<td>Jade 81 ViuTVsix 96 ViuTV 99</td>
<td>14 DTT frequency channels in 470-806 MHz band</td>
</tr>
</tbody>
</table>

Digital Simulcast (8 months)

- **1 Dec 2020**: The Day after ASO
- **1 Apr 2021**: Start of Digital Simulcast
- **30 Nov 2021**: End of Digital Simulcast
Roles of BMOs/IOs

- OFCA has sent out circular letters to relevant stakeholders including building management offices / incorporated owners (BMOs/IOs) of most residential, commercial and industrial buildings and other premises receiving DTT starting from early Feb 2021

- BMO/IO is expected to check with its CABD system / IBCCDS contractor to
  a) **confirm** if the TV signals transmitted on the new frequencies can be received and distributed by the existing CABD system / IBCCDS;
  b) **arrange** reconfiguration of the CABD system / IBCCDS where appropriate; and
  c) **inform** the residents / users whether and when channel rescanning on their TV sets / DTT receivers are required
Action Items for CABD System / IBCCDS Contractors

• CABD system / IBCCDS contractors should therefore
  
a) **follow up** proactively with BMOs/IOs for those CABD systems / IBCCDS under their maintenance;

b) **procure** necessary equipment as soon as possible;

c) **plan and complete** the reconfiguration work as early as possible **within the Digital Simulcast period**, and in any case all works must be completed before 30 Nov 2021; and

d) **assist** BMOs/IOs to inform residents / users whether and when they would need to perform rescanning on their TV sets / DTT receivers
Typical Head-end Equipment Design

**Type A**

- Splitter
- Channel filter (or equaliser)
- Channel Amp
- Channel Amp
- Channel Amp
- MPN 35 27 37
- SMATV, CCTV, FTV DTV, or others
- Digital

**Type B**

- Splitter
- Channel filter (or equaliser)
- Wideband Amp
- Channel Amp
- Channels same as the incoming frequency channels (at user side)
- Digital

Recommended not to change the existing CABD channel arrangement (at user side)
Objectives:

a) **Minimise** the disturbance to the viewing public

b) **Secure** sufficient rejection against potential interference from the 600/700 MHz bands

Recommended not to change the existing CABD channel arrangement (at user side)
Way Forward

• OFCA would invite CABD system / IBCCDS contractors to update the progress of the reconfiguration for systems in buildings in due course

• CABD system / IBCCDS contractors are welcome to contact OFCA for enquiry
Thank You