Unitron dCSS-422 & dSCR Multiswitch
Sky engineer Guidelines

Version 1.02

February 11th 2022
Version Control:

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<th>Date</th>
<th>Change</th>
<th>Author</th>
</tr>
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<td>V 1.01</td>
<td>9th February</td>
<td>First Draft</td>
<td>Chris Woods</td>
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<td>V1.02</td>
<td>11th February</td>
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Introduction:

This document is to introduce the Unitron dCSS-422 & dSCR Multiswitch as developed by Unitron in collaboration with Sky, for use in Multi Dwelling Units to deliver the correct signal format over a single cable for Sky Q functionality.

The information contained herein is by no means definitive and is subject to change in line with technological developments and also Sky’s current and future business requirements and processes.

As with any work carried out by Sky, its business partners or work carried out for or on behalf of Sky, safety to its customers, public, engineer/installer and to any equipment and property is paramount.

All work must conform to all standards as laid down in the CAI Codes of Practice and to all European Standards (CENELEC) relating to signal distribution. All agents working on behalf of Sky must comply with all Health and Safety and legal regulations and requirements.

This document will outline the system specifications required for the installation by Sky Home Service engineers of:

- dCSS-422
- dSCR multiswitch
dCSS 422 Plug in Adapter:

- Existing system MUST be earthed/cross bonded as per the current CAI guidelines
- Electronic equipment MUST be secured to a suitable backboard, if one is not available, then the Sky engineer will install this.
- Signal levels will be measured on the existing multiswitch and MUST be within the specification for the install of a dCSS-422.
  
  - Power levels between 65dBuV & 85dBuV
  - Signal quality MER greater than 11dB*
  - Signal quality LKM/NM greater than 3dB

- Mains power is the preferred option, and if available a 20V PSU will be installed and secured in the headend location.
- If no mains power is available then a DiSEqC power inserter and 20V PSU can be installed in the customers property, dependant on the existing system type.
- Customers subscriber cables will be clearly labelled.
- All cables installed at the time of the Sky visit will be CT100 type cable and CAI approved.
- All connectors installed at the time of visit will be Sky approved.

*As per current CAI Guidelines
**Suitable system types:**

<table>
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<th>System Type</th>
<th>Power Status</th>
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<tr>
<td>Single Feed</td>
<td>POWERED SYSTEM</td>
<td>✓</td>
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<tr>
<td>Single Feed – No Spare Subscriber Ports</td>
<td>NO POWER</td>
<td>✗</td>
</tr>
<tr>
<td>Single Feed - Spare Subscriber Port</td>
<td>NO POWER</td>
<td>✓</td>
</tr>
<tr>
<td>Dual Feed</td>
<td>POWERED SYSTEM</td>
<td>✓</td>
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<tr>
<td>Dual Feed</td>
<td>NO POWER</td>
<td>✓</td>
</tr>
<tr>
<td>Analogue SCR</td>
<td>POWERED SYSTEM</td>
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<td>Fibre to The Home</td>
<td>✓</td>
<td></td>
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<tr>
<td>Multi Sat Systems 9, 13, 17 wire</td>
<td>✓</td>
<td>✗</td>
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dSCR Multiswitch:

- Existing system MUST be earthed/cross bonded as per the current CAI guidelines.
- Electronic equipment MUST be secured to a suitable backboard, if one is not available then the Sky engineer will install this.
- Signal levels will be measured on the existing splitter, tap or cascadable multiswitch, and MUST be within the specification for the install of a dSCR Multiswitch.
  - Power levels between 65dBuV & 104dBuV
  - Signal quality MER greater than 11dB*
  - Signal quality LKM/NM greater than 3dB

- Mains power is the preferred option, and if available a 20V PSU will be installed and secured in the headend location.
- If no mains power is available, then a DiSEqC power inserter and 20V PSU can be installed in the customers property.
- Customers’ subscriber cables will be clearly labelled.
- All cables installed at the time of the Sky visit will be CT100 type cable and CAI approved.
- All connectors installed at the time of visit will be Sky approved.

*As per current CAI Guidelines
Disclaimer:

All the above product specifications and installation processes are correct at the time of publication of this document, but both specifications and processes are subject to change.

This document is intended to be viewed as the current guideline and with the understanding that any changes and/or updates, will be made available as and when revisions are made to the product and/or process.