Event code reporting

Challenger10 and ChallengerPlus
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CID Reporting Codes

The table below lists CID reporting codes for the Challenger system. This table covers system and device events, and is laid out in a similar format to how the control room will receive them. For example, a monitoring control room would see a CID event as:

ACCT MT QXYZ GG CCC

ACCT = 4 digit account number, as determined by the comms path or area. (Not covered in table below)
MT = Message Type, used to identify the CID message to the receiver. (Not covered in table below)
Q = Event qualifier. This is typically either a ‘1’ (new event), or a ‘3’ (restored event). Events capable of sending restoral codes are specified in the table below.
XYZ = Event Code.
GG = Group Number. ‘00’ is used to indicate no group applies, typically for system events.
CCC = Zone or User Number. ‘000’ is used to indicate no zone or user information applies.

<table>
<thead>
<tr>
<th>Event Code</th>
<th>Group Number</th>
<th>Zone / User Number</th>
<th>Description</th>
<th>Restoral¹</th>
<th>Min</th>
<th>Max</th>
<th>Type</th>
<th>C10</th>
<th>CH+</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>00</td>
<td>375</td>
<td>Guard failed to check in within required time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>120</td>
<td>00</td>
<td>1-128</td>
<td>Duress entered at RAS</td>
<td>Y</td>
<td>1</td>
<td>128</td>
<td>Door / RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>121</td>
<td>00</td>
<td>1-999</td>
<td>Duress was activated with a wireless pendant</td>
<td>Y</td>
<td>1</td>
<td>999</td>
<td>User</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>130</td>
<td>1-99</td>
<td>1-999</td>
<td>Input secure alarm</td>
<td>Y</td>
<td>1</td>
<td>999</td>
<td>Input</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>139</td>
<td>1-99</td>
<td>1-999</td>
<td>Input alarm has unsealed again without being reset</td>
<td>Y</td>
<td>1</td>
<td>999</td>
<td>Input</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>140</td>
<td>00</td>
<td>421</td>
<td>Area was armed again during area search without testing all required inputs</td>
<td></td>
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<td>140</td>
<td>00</td>
<td>422</td>
<td>All inputs failed to be tested during area search</td>
<td>Y</td>
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<td></td>
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<td>140³</td>
<td>1-99</td>
<td>1-999</td>
<td>Input alarm, CID type programmed by input database (default 140)</td>
<td>Y</td>
<td>1</td>
<td>999</td>
<td>Input</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>143</td>
<td>00</td>
<td>1-128</td>
<td>RAS offline</td>
<td>Y</td>
<td>1</td>
<td>128</td>
<td>Door / RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>143</td>
<td>00</td>
<td>129-160</td>
<td>DGP offline</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>143</td>
<td>00</td>
<td>554-585</td>
<td>Sub RAS on NAC has gone offline²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>143</td>
<td>00</td>
<td>586-617</td>
<td>1st sub DGP on NAC has gone offline²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>145</td>
<td>00</td>
<td>1-128</td>
<td>RAS tamper fail / incorrect PIN entered at RAS too many times</td>
<td>Y</td>
<td>1</td>
<td>128</td>
<td>Door / RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>145</td>
<td>00</td>
<td>129-160</td>
<td>DGP tamper fail</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>145</td>
<td>00</td>
<td>554-585</td>
<td>1st sub RAS on NAC has gone into tamper²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>145</td>
<td>00</td>
<td>586-617</td>
<td>1st sub DGP on NAC has gone into tamper²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150</td>
<td>00</td>
<td>361</td>
<td>Camera film is low</td>
<td>Y</td>
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<tr>
<td>150</td>
<td>00</td>
<td>362</td>
<td>Camera film is out</td>
<td>Y</td>
<td></td>
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<tr>
<td>150</td>
<td>00</td>
<td>363</td>
<td>Courier entered the building</td>
<td>Y</td>
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<tr>
<td>150</td>
<td>00</td>
<td>366</td>
<td>Access test was started</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>150</td>
<td>00</td>
<td>367</td>
<td>Access test failed to test inputs</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>00</td>
<td>368</td>
<td>Access test successfully tested inputs</td>
<td>Y</td>
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<td></td>
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<tr>
<td>Event Code</td>
<td>Group Number</td>
<td>Zone / User Number</td>
<td>Description</td>
<td>Restoration</td>
<td>Min</td>
<td>Max</td>
<td>Type</td>
<td>C10</td>
<td>CH+</td>
</tr>
<tr>
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<td>-------------</td>
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<td>-----</td>
<td>-----</td>
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<tr>
<td>150 00 369</td>
<td></td>
<td></td>
<td>Secure test was started</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 370</td>
<td></td>
<td></td>
<td>Secure test failed to test inputs</td>
<td></td>
<td></td>
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<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 371</td>
<td></td>
<td></td>
<td>Secure test successfully tested inputs</td>
<td></td>
<td></td>
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<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 372</td>
<td></td>
<td></td>
<td>The delay button was pressed and timer started</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 373</td>
<td></td>
<td></td>
<td>Alarms were reset automatically</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 374</td>
<td></td>
<td></td>
<td>Panel time is changed</td>
<td></td>
<td></td>
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<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>150 00 377</td>
<td></td>
<td></td>
<td>Technician is on site</td>
<td></td>
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<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>150 00 378</td>
<td></td>
<td></td>
<td>Program mode entered via RAS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>300 00 129-160</td>
<td></td>
<td></td>
<td>DGP fuse fail</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>300 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has gone into fuse fail²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>301 00 129-160</td>
<td></td>
<td></td>
<td>DGP mains fail</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>301 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has gone into mains fail²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>302 00 129-160</td>
<td></td>
<td></td>
<td>DGP battery low</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>302 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has gone into low battery²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>303 00 1-16</td>
<td></td>
<td></td>
<td>RAS encryption reset COMMS 1</td>
<td>1</td>
<td>16</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
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<td>303 00 65-80</td>
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<td></td>
<td>RAS encryption reset COMMS 2</td>
<td>65</td>
<td>80</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>303 00 129-160</td>
<td></td>
<td></td>
<td>DGP Encryption reset</td>
<td>1</td>
<td>32</td>
<td></td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>304 00 1-16</td>
<td></td>
<td></td>
<td>RAS dipswitch or address changed</td>
<td>1</td>
<td>16</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>304 00 65-80</td>
<td></td>
<td></td>
<td>RAS dipswitch or address changed</td>
<td>65</td>
<td>80</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>304 00 129-160</td>
<td></td>
<td></td>
<td>DGP dip switch changed</td>
<td>1</td>
<td>32</td>
<td></td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>305 00 1-16</td>
<td></td>
<td></td>
<td>RAS CPU restart</td>
<td>1</td>
<td>16</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>305 00 65-80</td>
<td></td>
<td></td>
<td>RAS CPU restart</td>
<td>65</td>
<td>80</td>
<td></td>
<td>RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>305 00 129-160</td>
<td></td>
<td></td>
<td>DGP CPU restarted</td>
<td>1</td>
<td>32</td>
<td></td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>307 1-99 1-999</td>
<td></td>
<td></td>
<td>Input failed to test with required number of days</td>
<td>Y</td>
<td>1</td>
<td>999</td>
<td>Input</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>309 00 129-160</td>
<td></td>
<td></td>
<td>DGP battery test fail</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>311 00 129-160</td>
<td></td>
<td></td>
<td>DGP battery missing</td>
<td>1</td>
<td>32</td>
<td></td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>311 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has reported a battery missing²</td>
<td>1</td>
<td>32</td>
<td></td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>320 00 129-160</td>
<td></td>
<td></td>
<td>DGP siren fail</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>320 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has gone into siren fail²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>330 00 1-128</td>
<td></td>
<td></td>
<td>RAS depolled</td>
<td>Y</td>
<td>1</td>
<td>128</td>
<td>Door / RAS</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>330 00 129-160</td>
<td></td>
<td></td>
<td>DGP depolled</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>333 00 423-425</td>
<td></td>
<td></td>
<td>Hardware failure with expander</td>
<td>Y</td>
<td>1</td>
<td>3</td>
<td>Expander</td>
<td>Y</td>
<td>Y</td>
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<td>339 00 425</td>
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<td></td>
<td>Memory expander has been defaulted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
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<td>343 00 425</td>
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<td>Memory expander has been unable to restore all the users from its SD card</td>
<td></td>
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<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>344 00 129-160</td>
<td></td>
<td></td>
<td>Radio frequency has been jammed on wireless DGP</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>344 00 586-617</td>
<td></td>
<td></td>
<td>1st sub DGP on NAC has gone into RF jamming fault²</td>
<td>Y</td>
<td>1</td>
<td>32</td>
<td>DGP</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>350 00 393-402</td>
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<td></td>
<td>Comm path can not be reached</td>
<td>Y</td>
<td>1</td>
<td>10</td>
<td>Path</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Event Code</td>
<td>Group Number</td>
<td>Zone / User Number</td>
<td>Description</td>
<td>Restoral</td>
<td>Min</td>
<td>Max</td>
<td>Type</td>
<td>C10</td>
<td>CH+</td>
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</tr>
<tr>
<td>351</td>
<td>00</td>
<td>0</td>
<td>Modern line failed during check</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>351</td>
<td>00</td>
<td>995</td>
<td>UltraSync is no longer using fastest and most secure connection</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
</tr>
<tr>
<td>354</td>
<td>00</td>
<td>423-425</td>
<td>Communication fault with expander (3G/4G)</td>
<td>Y 1 3</td>
<td>Expander</td>
<td>Y</td>
<td></td>
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<tr>
<td>374</td>
<td>1-99</td>
<td>1-999</td>
<td>Input exit alarm</td>
<td>Y 1 999</td>
<td>Input</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>381</td>
<td>1-99</td>
<td>1-999</td>
<td>Wireless detector was not detected during routine supervision check</td>
<td>Y 1 999</td>
<td>Input</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>381</td>
<td>1-99</td>
<td>1-999</td>
<td>Wireless detector has low battery</td>
<td>Y 1 999</td>
<td>Input</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>393</td>
<td>1-99</td>
<td>1-999</td>
<td>Wireless detector is dirty</td>
<td>Y 1 999</td>
<td>Input</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>402</td>
<td>1-99</td>
<td>1-999</td>
<td>Area armed</td>
<td>Y 1 999</td>
<td>User</td>
<td>Y</td>
<td></td>
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<td>411</td>
<td>00</td>
<td>0</td>
<td>Request for technician is sent</td>
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<td>Y</td>
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<tr>
<td>416</td>
<td>00</td>
<td>393-402</td>
<td>Management software has connected via comm path</td>
<td>1 10 Path</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>1-16</td>
<td>RAS isolated</td>
<td>Y 1 16 RAS</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>65-80</td>
<td>RAS deisolated</td>
<td>65 80 RAS</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>129-160</td>
<td>DGP isolated</td>
<td>Y 1 32 DGP</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>554-585</td>
<td>1st sub RAS on NAC has been isolated2</td>
<td>Y 1 32 DGP</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>365</td>
<td>Camera popups are enabled</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>570</td>
<td>00</td>
<td>586-617</td>
<td>1st sub DGP on NAC has been isolated2</td>
<td>Y 1 32 DGP</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>602</td>
<td>00</td>
<td>393-402</td>
<td>Auto test call was sent to comm path</td>
<td>1 10 Path</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>608</td>
<td>00</td>
<td>260-358</td>
<td>Area has been disarmed outside of its out of hours time zone</td>
<td>Y 1 99 Area</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>611</td>
<td>1-99</td>
<td>1-999</td>
<td>Input tested successfully during access/secure test</td>
<td>1 999 Input</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>701</td>
<td>00</td>
<td>1-999</td>
<td>Battery low on wireless pendant</td>
<td>Y 1 999 User</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>702</td>
<td>00</td>
<td>1-999</td>
<td>Tamper was activated on a wireless pendant</td>
<td>Y 1 999 User</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>703</td>
<td>00</td>
<td>408</td>
<td>Panel Ethernet link has failed</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>703</td>
<td>00</td>
<td>423-425</td>
<td>Expander Ethernet link has failed</td>
<td>Y 1 3 Expander</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>704</td>
<td>00</td>
<td>393-402</td>
<td>Heartbeat failed on comm path</td>
<td>Y 1 10 Path</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>706</td>
<td>00</td>
<td>410</td>
<td>Ethernet hardware failed to initialise</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>711</td>
<td>00</td>
<td>393-402</td>
<td>Auto test call failed to report</td>
<td>1 10 Path</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>712</td>
<td>00</td>
<td>409</td>
<td>Firmware upgrade was started</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>713</td>
<td>00</td>
<td>409</td>
<td>Firmware upgrade was completed</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>714</td>
<td>00</td>
<td>1-128</td>
<td>A TS0866, TS0867, or TS0869 will report a door fault when an associated subRAS is offline 2 A NAC door will report a door fault when an associated subDGP/RAS is offline/tamper or an associated input is in tamper 2</td>
<td>Y 1 128 Door</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1. Where applicable, the type of input or connection is specified.
2. Conditions for specific events.
<table>
<thead>
<tr>
<th>Event Code</th>
<th>Event Code</th>
<th>Description</th>
<th>Restoral¹</th>
<th>Min</th>
<th>Max</th>
<th>Type</th>
<th>C10</th>
<th>CH+</th>
</tr>
</thead>
<tbody>
<tr>
<td>715</td>
<td>00</td>
<td>1-128 A TS0866, TS0867, or TS0869 will report a reader fault when an</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>associated subRAS is in tamper. A NAC door will report a reader fault when</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>an associated reader fails because an associated subRAS/DGP is offline/tamper.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>716</td>
<td>00</td>
<td>393-402 History in comm path was deleted</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>717</td>
<td>00</td>
<td>129-160 DGP requires a voltage calibration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>718</td>
<td>00</td>
<td>129-160 DGP is in power supply shutdown due to fault that hasn't restored</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

1. Restoral events use the same **Event Code** as the event report. Events (E) are sent with a prefix ‘1’, Restores (R) are sent with a prefix ‘3’.

2. In this case, a report will only be generated the first time the event occurs, and the restore will only be sent once all devices with that condition are restored.

For example: If sub-RAS 1 goes offline, then later sub-RAS 2 goes offline, sub-RAS 1 will report the event. The restoral will only be sent when both sub-RAS 1 and 2 are back online.

3. ID code (report ID type) is 140 by default. This should be set by the installer to an appropriate CID code using the Inputs configuration menu or form. See “CID Codes via RAS / Keypad entry” below for more details.
CID Codes via RAS / Keypad entry

For each input that you need to send Ademco Contact ID (CID) event messages to a remote monitoring company, you need to program a report ID type. When selecting report ID types on an LCD RAS, only the Contact ID code and classification are displayed (the sub-classification is not displayed on the RAS).

The table below shows the relationship between the Report Type entered through a RAS Keypad, and the CID details it relates to.

<table>
<thead>
<tr>
<th>Report Type (RAS)</th>
<th>CID Code</th>
<th>Classification</th>
<th>Sub-classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
<td>Medical alarm</td>
<td>Medical</td>
</tr>
<tr>
<td>2</td>
<td>101</td>
<td>Medical alarm</td>
<td>Personal emergency</td>
</tr>
<tr>
<td>3</td>
<td>102</td>
<td>Medical alarm</td>
<td>Fail to check in</td>
</tr>
<tr>
<td>4</td>
<td>110</td>
<td>Fire alarm</td>
<td>Fire alarm</td>
</tr>
<tr>
<td>5</td>
<td>111</td>
<td>Fire alarm</td>
<td>Smoke</td>
</tr>
<tr>
<td>6</td>
<td>112</td>
<td>Fire alarm</td>
<td>Combustion</td>
</tr>
<tr>
<td>7</td>
<td>113</td>
<td>Fire alarm</td>
<td>Waterflow</td>
</tr>
<tr>
<td>8</td>
<td>114</td>
<td>Fire alarm</td>
<td>Heat</td>
</tr>
<tr>
<td>9</td>
<td>115</td>
<td>Fire alarm</td>
<td>Pull station</td>
</tr>
<tr>
<td>10</td>
<td>116</td>
<td>Fire alarm</td>
<td>Duct detector</td>
</tr>
<tr>
<td>11</td>
<td>117</td>
<td>Fire alarm</td>
<td>Flame detector</td>
</tr>
<tr>
<td>12</td>
<td>118</td>
<td>Fire alarm</td>
<td>Near alarm</td>
</tr>
<tr>
<td>13</td>
<td>120</td>
<td>Panic alarm</td>
<td>Panic</td>
</tr>
<tr>
<td>14</td>
<td>122</td>
<td>Panic alarm</td>
<td>Silent panic</td>
</tr>
<tr>
<td>15</td>
<td>123</td>
<td>Panic alarm</td>
<td>Audible panic</td>
</tr>
<tr>
<td>16</td>
<td>130</td>
<td>Burglar alarm</td>
<td>Burglary</td>
</tr>
<tr>
<td>17</td>
<td>131</td>
<td>Burglar alarm</td>
<td>Perimeter</td>
</tr>
<tr>
<td>18</td>
<td>132</td>
<td>Burglar alarm</td>
<td>Interior</td>
</tr>
<tr>
<td>19</td>
<td>133</td>
<td>Burglar alarm</td>
<td>24 Hour</td>
</tr>
<tr>
<td>20</td>
<td>134</td>
<td>Burglar alarm</td>
<td>Entry/exit</td>
</tr>
<tr>
<td>21</td>
<td>135</td>
<td>Burglar alarm</td>
<td>Day/night</td>
</tr>
<tr>
<td>22</td>
<td>136</td>
<td>Burglar alarm</td>
<td>Outdoor</td>
</tr>
<tr>
<td>23</td>
<td>137</td>
<td>Burglar alarm</td>
<td>Tamper</td>
</tr>
<tr>
<td>24</td>
<td>138</td>
<td>Burglar alarm</td>
<td>Near alarm</td>
</tr>
<tr>
<td>Not applicable*</td>
<td>139</td>
<td>Burglar alarm</td>
<td>Intrusion verifier</td>
</tr>
<tr>
<td>25</td>
<td>140</td>
<td>General alarm</td>
<td>General alarm</td>
</tr>
<tr>
<td>26</td>
<td>143</td>
<td>General alarm</td>
<td>Expansion module fail</td>
</tr>
<tr>
<td>27</td>
<td>144</td>
<td>General alarm</td>
<td>Sensor tamper</td>
</tr>
<tr>
<td>28</td>
<td>145</td>
<td>General alarm</td>
<td>Expansion module tamper</td>
</tr>
<tr>
<td>29</td>
<td>150</td>
<td>24-hour alarm</td>
<td>General alarm</td>
</tr>
<tr>
<td>30</td>
<td>151</td>
<td>24-hour alarm</td>
<td>Gas detected</td>
</tr>
<tr>
<td>31</td>
<td>152</td>
<td>24-hour alarm</td>
<td>Refrigeration</td>
</tr>
<tr>
<td>32</td>
<td>153</td>
<td>24-hour alarm</td>
<td>Loss of heat</td>
</tr>
<tr>
<td>33</td>
<td>154</td>
<td>24-hour alarm</td>
<td>Water leakage</td>
</tr>
<tr>
<td>34</td>
<td>155</td>
<td>24-hour alarm</td>
<td>Foil break</td>
</tr>
<tr>
<td>35</td>
<td>156</td>
<td>24-hour alarm</td>
<td>Day trouble</td>
</tr>
<tr>
<td>Report Type (RAS)</td>
<td>CID Code</td>
<td>Classification</td>
<td>Sub-classification</td>
</tr>
<tr>
<td>-------------------</td>
<td>----------</td>
<td>----------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>38</td>
<td>157</td>
<td>24-hour alarm</td>
<td>Low gas level</td>
</tr>
<tr>
<td>37</td>
<td>158</td>
<td>24-hour alarm</td>
<td>High temperature</td>
</tr>
<tr>
<td>38</td>
<td>159</td>
<td>24-hour alarm</td>
<td>Low temperature</td>
</tr>
<tr>
<td>39</td>
<td>161</td>
<td>24-hour alarm</td>
<td>Air flow loss</td>
</tr>
<tr>
<td>40</td>
<td>200</td>
<td>Fire supervisory</td>
<td>Fire supervisory</td>
</tr>
<tr>
<td>41</td>
<td>201</td>
<td>Fire supervisory</td>
<td>Low water pressure</td>
</tr>
<tr>
<td>42</td>
<td>202</td>
<td>Fire supervisory</td>
<td>Low CO2</td>
</tr>
<tr>
<td>43</td>
<td>203</td>
<td>Fire supervisory</td>
<td>Gate valve tamper</td>
</tr>
<tr>
<td>44</td>
<td>204</td>
<td>Fire supervisory</td>
<td>Low water level</td>
</tr>
<tr>
<td>45</td>
<td>205</td>
<td>Fire supervisory</td>
<td>Pump activated</td>
</tr>
<tr>
<td>46</td>
<td>206</td>
<td>Fire supervisory</td>
<td>Pump failure</td>
</tr>
<tr>
<td>46 TO 47</td>
<td>700 range</td>
<td>User defined</td>
<td>Note: A CID code that is used for a system event should not be assigned to an input.</td>
</tr>
</tbody>
</table>

**NOTES**

* CID 139 (Burglar alarm intrusion verifier) indicates that a subsequent multi-break alarm has occurred when using the default ChallengerPlus setting. Multi-break alarms may optionally be reported using the same CID code as with Challenger V8 panels. See “Enable V8 multibreak” MAPROG-TS-CHPLUS ChallengerPlus Programming Manual.
STU serial reporting formats
The hex values in this section are true hexadecimal (base-16), rather than CID hex (0-9, B-F)

**STU serial data**

<table>
<thead>
<tr>
<th>Event (hexadecimal)</th>
<th>Message type</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>First Area Accessed</td>
<td>Users 1 to 255* (see note)</td>
</tr>
<tr>
<td>32 to 50</td>
<td>Access Area (1 to 31)</td>
<td>Users 1 to 255* (see note)</td>
</tr>
<tr>
<td>51</td>
<td>All Areas Secure</td>
<td>Users 1 to 255* (see note)</td>
</tr>
<tr>
<td>52 to 70</td>
<td>Secure Area (1 to 31)</td>
<td>Users 1 to 255* (see note)</td>
</tr>
<tr>
<td>6</td>
<td>Input Alarm</td>
<td>Alarm Input No. (1 to 239)</td>
</tr>
<tr>
<td>8</td>
<td>Input Alarm</td>
<td>Restore Input No. (1 to 239)</td>
</tr>
<tr>
<td>0E</td>
<td>Input Tamper</td>
<td>Alarm Input No. (1 to 239)</td>
</tr>
<tr>
<td>10</td>
<td>Input Tamper</td>
<td>Restore Input No. (1 to 239)</td>
</tr>
<tr>
<td>16</td>
<td>Input Isolated</td>
<td>Input No. (1 to 239)</td>
</tr>
<tr>
<td>18</td>
<td>Input De-Isolated</td>
<td>Input No. (1 to 239)</td>
</tr>
<tr>
<td>6</td>
<td>System Message</td>
<td>Alarm (240 to 255) see “STU system messages” below</td>
</tr>
<tr>
<td>8</td>
<td>System Message</td>
<td>Restore (240 to 255) see “STU system messages” below</td>
</tr>
</tbody>
</table>

**NOTES**

* User numbers 255 and above are reported as user 255.

**STU system messages**

<table>
<thead>
<tr>
<th>Input point (hexadecimal)</th>
<th>Input</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0</td>
<td>240</td>
<td>RAS Off-line</td>
</tr>
<tr>
<td>F1</td>
<td>241</td>
<td>DGP Off-line</td>
</tr>
<tr>
<td>F2</td>
<td>242</td>
<td>CPU Restart</td>
</tr>
<tr>
<td>F3</td>
<td>243</td>
<td>Mains Fail</td>
</tr>
<tr>
<td>F4</td>
<td>244</td>
<td>Low Battery</td>
</tr>
<tr>
<td>F5</td>
<td>245</td>
<td>DGP Tamper</td>
</tr>
<tr>
<td>F6</td>
<td>246</td>
<td>Siren Tamper</td>
</tr>
<tr>
<td>F7</td>
<td>247</td>
<td>Duress Alarm</td>
</tr>
<tr>
<td>F8</td>
<td>248</td>
<td>Guard failed to check-in (no restoral)</td>
</tr>
<tr>
<td>F9</td>
<td>249</td>
<td>Remote Login (no restoral)</td>
</tr>
<tr>
<td>FA</td>
<td>250</td>
<td>Film out</td>
</tr>
<tr>
<td>FB</td>
<td>251</td>
<td>Out-of-Hour Opening</td>
</tr>
<tr>
<td>FC</td>
<td>252</td>
<td>Service Requested</td>
</tr>
<tr>
<td>FD</td>
<td>253</td>
<td>Line Monitor Fail</td>
</tr>
<tr>
<td>FE</td>
<td>254</td>
<td>Program Mode Entered</td>
</tr>
<tr>
<td>FF</td>
<td>255</td>
<td>Periodic Test</td>
</tr>
</tbody>
</table>
## STU channel data

<table>
<thead>
<tr>
<th>Channel number</th>
<th>Event reported</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Duress</td>
</tr>
<tr>
<td>2</td>
<td>Alarm or Tamper (Inputs)</td>
</tr>
<tr>
<td>3</td>
<td>DGP or RAS Off-Line</td>
</tr>
<tr>
<td>4</td>
<td>System Tamper (DGP Tamper &amp; Siren Tamper)</td>
</tr>
<tr>
<td>5</td>
<td>Mains Fail</td>
</tr>
<tr>
<td>6</td>
<td>Low Battery</td>
</tr>
<tr>
<td>7</td>
<td>Isolated Inputs</td>
</tr>
<tr>
<td>8</td>
<td>Open Close</td>
</tr>
<tr>
<td>9</td>
<td>CPU Restart (Panel reset)</td>
</tr>
<tr>
<td>10</td>
<td>Film Out</td>
</tr>
</tbody>
</table>
Decimal to CID Hex cross-reference

Contact ID messages typically contain only decimal values, except where a Contact ID Hex sub-format is specified. In Contact ID Hex reporting the CID message’s group number and point ID are offset by 2000 and reported in “hex” to a monitoring station (hex format in this instance is based on Ademco Contact ID Protocol (0 to 9 and B to F)).

<table>
<thead>
<tr>
<th>DEC</th>
<th>HEX</th>
<th>DEC2</th>
<th>HEX2</th>
<th>DEC3</th>
<th>HEX3</th>
<th>DEC4</th>
<th>HEX4</th>
<th>DEC5</th>
<th>HEX5</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>8E5</td>
<td>39</td>
<td>90F</td>
<td>78</td>
<td>938</td>
<td>117</td>
<td>962</td>
<td>156</td>
<td>98C</td>
</tr>
<tr>
<td>1</td>
<td>8E6</td>
<td>40</td>
<td>910</td>
<td>79</td>
<td>939</td>
<td>118</td>
<td>963</td>
<td>157</td>
<td>9BD</td>
</tr>
<tr>
<td>2</td>
<td>8E7</td>
<td>41</td>
<td>911</td>
<td>80</td>
<td>93B</td>
<td>119</td>
<td>964</td>
<td>158</td>
<td>9BE</td>
</tr>
<tr>
<td>3</td>
<td>8E8</td>
<td>42</td>
<td>912</td>
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Challenger10 ChallengerPlus Event Codes (Challenger10_ChallengerPlus)