



SCO-1421

NOTE: The iControl compatibilities shown below are estimated initial support. iControl versions that are older than those specified may prevent the GUI from opening or may work with bugs and limited features.

FIRMWARE VERSION: 310

Release date: 2013-10-11

iControl compatibility: 4.44 (build 567) and up

iControl Solo compatibility: 4.44(build 568) and up

RCP-200 compatibility: NA

Custom software compatibility: NA

Hardware incompatibility: This firmware applies to all existing hardware assemblies.

ENHANCEMENTS & NEW FEATURES

Bug#	Description
SCO-213	PID Bitrate probing addition In this version, we add the possibility to probe the bitrate of up to 4 different PIDs among the probed services. The user can now configure the card to switch if the bitrate of one of the probed PIDs goes outside a predefined min and max range. The same functionality has also been added for the NULL PID bitrate specifically.

BUGFIXES

Bug#	Description
SCO-210	SCO-1421 does not respond to GPI triggers In previous versions, the card was not switching if a valid 5 volts external power was not provided to the card. This limitation has now been removed and the SCO-1421 will now switch even if no external power is provided.
SCO-225	CAT Missing error not implemented correctly In previous versions, this measurement was reporting an error if no CAT table was present in the transport streams. However, the TR101290 specification states that an error occurs only if this table is not present while there's a scrambled elementary stream in the transport stream. Previous versions were not looking for scrambled ES and this has been fixed for this version.



ICONTROL-16963	PTS Error Repetition Rate setting not taken into account for INPUT 2 (INPUT 1 is ok) When configured to use the same parameters for input 2 than the ones of input 1, the value displays in the TR 101 290 probing panel was the one originally set for input 2 and not the one taken into account for measurement. This has been fix in iControl version 4.44
ICONTROL-16965	TR101 290 Alarm Control Interchange The mapping of alarms 1.3 a,b,c and 1.4 was not done correctly in the alarm config panel. This is now fix with version 4.44 of iControl.

KNOWN BUGS & LIMITATIONS

Bug#	Description
SCO-212	SCO-1421 PTS Alarm Report The PTS timeout measure of the TR101290 cannot be used on scrambled elementary streams even with the presence of the CAT table in the transport stream.
SCO-215	SCO-1421 doesn't switch when a PID is lost In some streams, it happens that the PCR PID uses the same number as the elementary stream PID. In this situation, if the elementary stream is lost and the PCR still remains, the card won't switch because the PID number is still present in the transport stream. The SCO-1421 does not analyze the content of a PID and only checks for its presence in the stream. A good work-around for this situation is to use the newly-added PID bitrate probing and check for the payload bitrate.
29317	Wrong Stream Type Detection It might happen that the stream type detection gives a DVB type when it should indicate ATSC. This is usually caused by the fact that DVB and ATSC specific tables are present at the same time in the stream. Specifically, this might happen if VCT or MGT tables (ATSC) are present at the same time as SDT, NIT or TDT tables (DVB). This will only affect the type reported by the card and the probing will behave as expected.
29079	"TS_Sync_Loss" error count increment When the cable is unplugged from the SCO-1421 card, the " TS_Sync_Loss " measurement of the TR101290 will not increment its error count. However, the error will still be reported to the user with the " TS Signal Presence "

29158	<p>Video and Audio PID range</p> <p>The card will display a “<i>limitation error</i>” if a video or audio elementary stream uses a PID normally reserved for DVB or ATSC information table (ex : NIT, VCT, ...). If a “<i>limitation error</i>” occurs, the results given by the probing of the card will be unreliable.</p>
27948	<p>Blinking of alarm statuses</p> <p>It is possible that some of the alarm statuses will blink red or green while configuring some of the card parameters. No switch decision should be made while the card is being configured.</p>
26295	<p>Carrier at the output even when no input</p> <p>In some conditions, an invalid carrier will still be output by the card even when no input is present. This happens mainly when the selected input is missing in MANUAL mode.</p>
28035	<p>Switch at power-on or from bypass mode</p> <p>When fed with the exact same ASI stream, it could happen that the card switches at power-on if in AUTO mode. This switch can also happen when changing from BYPASS mode to AUTO mode. This is caused by a race condition between input 1 and input 2 detection.</p>



FIRMWARE VERSION: 302

Release date: [2011-04-04](#)

iControl compatibility: [4.0 \(build 0041\)](#)

iControl Solo compatibility: [3.71 \(build 0018\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

Hardware incompatibility: [This firmware applies to all existing hardware assembly.](#)

ENHANCEMENTS & NEW FEATURES

Bug#	Description

BUGFIXES

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001-00-004769	<p>Bad TR101290 probing results, unstable bitrates and « unknown » service name.</p> <p>On some hardware and specifically with high bitrate feeds (50Mbps or higher...) some strange behavior might be experience with prior firmware version.</p> <p>The card gives TR101290 errors when there's not, the bitrates displayed by the card is not stable and keeps on changing when it should not. Furthermore, the service name that should be displayed in iControl keeps displaying "Unknown Name" even when present.</p> <p>There`s no workaround for this bug and the actual release resolve this issue completely.</p>

KNOWN BUGS & LIMITATIONS

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29079	<p>"TS_Sync_Loss" error count increment</p> <p>When the cable is unplugged from the SCO-1421 card, the "TS_Sync_Loss" measurement of the TR101290 will not increment its error count. However, the error will still be reported to the user with the "TS Signal Presence"</p>
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FIRMWARE VERSION: 300

Release date: [2010-11-15](#)

iControl compatibility: [4.0 \(build 0041\)](#)

iControl Solo compatibility: [NA](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

Hardware incompatibility: [This firmware applies to all existing hardware assembly.](#)

ENHANCEMENTS & NEW FEATURES

Bug #	Description
5	Advanced probing option This option gives access to the whole set of priority 1 and 2 measures as defined by the TR101290 specification. Furthermore, the card now offers the possibility to display the bandwidth of the probed services, probe the system information tables and many others.

BUGFIXES

Bug #	Description
	NA

KNOWN BUGS & LIMITATIONS

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29079	<p>“TS_Sync_Loss” error count increment</p> <p>When the cable is unplugged from the SCO-1421 card, the “TS_Sync_Loss” measure of the TR101290 will not increment it’s error count. However, the error will still be reported to the user with the “TS Signal Presence”</p>
29158	<p>Video and Audio PID range</p> <p>The card will display a “limitation error” if a video or audio elementary stream uses a PID normally reserved for DVB or ATSC information table (ex : NIT, VCT, ...). If a “limitation error” occurs, the results gives by the probing of the card will be unreliable.</p>
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FIRMWARE VERSION: 200

Release date: 2010-07-05

iControl compatibility: 3.70 (build 00xx)

iControl Solo compatibility: 3.70 (build 0001)

RCP-200 compatibility: NA

Custom software compatibility: NA

Hardware incompatibility: This firmware applies to all existing hardware assembly.

ENHANCEMENTS & NEW FEATURES

Bug#	Description
2	Support of the GPI The support of the GPI input and output have been add in this version and can be used to change the switch mode or the selected input using external GPI.
3	Extraction of the program name Each program name are now extracted from the PSIP tables and displayed in the iControl panel
4	Enhancement of some probing limitation With version 200, it is now possible to probe up to 12 services simultaneously and with a maximum of 64 services per transport stream.

BUGFIXES

Bug#	Description
	NA

KNOWN BUGS & LIMITATIONS

Bug#	Description
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28035	Switch at power-on or from bypass mode When feed with the exact same ASI stream, it could happen that the card switch at power-on if in AUTO mode. This switch can also happen when passing from BYPASS mode to AUTO mode. This is caused by a race condition between input 1 and input 2 detection and will be addressed in the next version.



FIRMWARE VERSION: 101

Release date: [2010-05-12](#)

iControl compatibility: [3.70 \(build 00xx\)](#)

iControl Solo compatibility: [3.70 \(build 0001\)](#)

RCP-200 compatibility: [NA](#)

Custom software compatibility: [NA](#)

Hardware incompatibility: [This firmware applies to all existing hardware assembly.](#)

ENHANCEMENTS & NEW FEATURES

Bug #	Description
	NA

BUGFIXES

Bug #	Description
	NA

KNOWN BUGS & LIMITATIONS

Bug #	Description
26295	Carrier at the output even when no input In some conditions, an invalid carrier will still be output by the card even when no input is present. This happen mainly when in MANUAL mode, the selected input is missing. WORKAROUND: N.A
1	Stream Type, System Information structure and Transport ID refresh The stream type, SI structure and transport ID will NOT be cleared in the iControl panel if the carrier is kept but with all the tables lost and the stream fulfill of NULL PIDs and sync word (47h). The SCO-1421 card will not see a sync loss while the sync word are still present but will not be able to update nor cleared the previously mention information as the tables disappeared. However, the table probing



Release Note

	timeout will still works ok and will warn the user that the stream is empty.
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