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Update 23 Release Notes

Packages updated

<i>Package</i>	<i>Previous</i>	<i>New</i>	<i>Package</i>	<i>Previous</i>	<i>New</i>
acad	0.93	0.94	gtk	2.24.32-1	2.24.33-1
acuity-plus	1.1	1.4.1	jasper	1.900.1-2	2.0.14-2
atc-exp1	0.97	0.97.3	libali	4.17.1	4.18.4
atk	2.10.0-1	2.28.1-2	libarchive	3.2.1-3	3.4.3-1
avgl	1.32.3	1.34.5	libjpeg-turbo	1.1.1-1	2.0.6-1
avot	1.7.4	1.7.7	libpng	1.6.24-1	1.6.37-2
avtk	1.25.7	1.25.13	libtiff	4.0.7-2	4.1.0-1
avul	1.8	1.10.1	libxml	2.9.4-1	2.9.12-1
cad	2.6.1	2.8	light-scatter	0.114	0.115
cairo	1.14.10-2	1.16.0-3	lumcal	4.3.2	4.4.1.1
email	0.98	0.100	nettle	-	3.4.1-2
expat	2.2.0-1	2.2.10-2	numeric	1.7.3	1.8.1
flicker-plus	0.103	0.105	odtk	0.3.1-1	0.4.2-1
freetype	2.8-1	2.10.4-1	pixman	0.34.0-1	0.40.0-1
gdk-pixbuf	2.34.0-1	2.34.0-4	plover	0.5.7-1	0.6.1-1
gettext	0.19.8.1-1	0.21-1	psyphys	2.36.4	2.38.7
gmp	-	6.2.1-1	win-iconv	-	0.0.8-4
			zlib	1.2.8-3	1.2.11-1

Notable changes

- AVOT applications no longer crash when attempting to import spreadsheets.
- The applications now start up significantly faster.
- If the user attempts to run an AVOT application when its main window is hidden behind some other application or minimized, the main window is brought to the foreground.
- Fatal errors now have a troubleshooting button which can be used to generate reports to send to support.
- Staircases now generate a short audio tone if the stimulus value has hit a limit and cannot be changed when the user's response would normally require that it should.
- Some more instances of where setting the regional format of a machine caused files to be exported that couldn't then be reimported have been identified and fixed.
- The "expected severity of loss" control has been moved to the subject dialog window in the Acuity-Plus and Flicker-Plus applications to facilitate faster testing of subjects who are expected to have much diminished colour vision.
- Staircases now change the stimulus value faster where an expected severity of loss has been entered in the CAD and Flicker-Plus applications.
- The CAD Screener has been significantly improved.
- CAD now requires the screener module be installed.
- The background size in CAD has been changed to 8°x8°
- CAD no longer logs frame missed errors.
- Age-related normal limits have been added to Acuity-Plus.

- Acuity-plus now chooses better parameters when a severity of loss is specified making for faster testing.
- The ring size in the learning mode of Acuity-Plus when severe loss is expected has been reduced.
- The maximum stimulus value in the EMAIL test has been doubled.
- If apparent non-monotonic behaviour is encountered when performing a luminance calibration, it is now handled better.
- The way that displays are identified has been made more resilient, reducing the occasions when a new calibration has to be performed after an update.
- Luminance calibrations can now be exported to an ODF spreadsheet.
- In setups with per-user credentials, the luminance calibration no longer needs to be carried out by one particular user.
- Common Vulnerabilities and Exposures IDs fixed in update 23: CVE-2016-10087, CVE-2016-4483, CVE-2016-5131, CVE-2016-8687, CVE-2016-8688, CVE-2016-8689, CVE-2016-9840, CVE-2016-9841, CVE-2016-9842, CVE-2016-9843, CVE-2017-12652, CVE-2017-15232, CVE-2017-6850, CVE-2017-6852, CVE-2017-7602, CVE-2017-9117, CVE-2017-9147, CVE-2017-9233, CVE-2017-9403, CVE-2017-9404, CVE-2017-9614, CVE-2017-9782, CVE-2017-9815, CVE-2018-10963, CVE-2018-12900, CVE-2018-14498, CVE-2018-17795, CVE-2018-18557, CVE-2018-18751 CVE-2018-19664, CVE-2018-20843, CVE-2018-5784, CVE-2018-7456, CVE-2018-8905, CVE-2019-14973, CVE-2019-15141, CVE-2019-15903, CVE-2019-17546, CVE-2019-18408, CVE-2019-6128, CVE-2019-7317, CVE-2019-7663, CVE-2020-15999, CVE-2020-19131, CVE-2020-19143, CVE-2020-19144, CVE-2020-9308, CVE-2021-3541.