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Release notes

Inform Content Compare

Version 4.2.4



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1 Introduction

1.1 Purpose

The purpose of this release notes document is to provide information about the new functions and bug fixes/enhancements for the 4.2.4 release of Inform Content Compare, also referred to as InformCC.

1.2 Scope

This release notes document covers all the bug fixes, enhancements and new features from version 3.10.0 to version 4.2.4.

2 About this release

This is a minor release including one enhancement. Companies of previous releases are encouraged to upgrade.

3 Compatibility and Supported Platforms

3.1 System requirements

3.1.1 Pre-requisites

This section defines all pre-requisites that need to be available, installed and existing before the installation of the InformCC can take place.

3.1.2 Application Server

Component	Requirement
Hardware	Recommended: 1 multi-core CPU, e.g. Intel i7 2x2 RAIDed disks minimum 100 GB each (less if database is on another server). Recommended that the disk space is conveniently upgradable. 8 GBytes of RAM memory If the OCR option is to be heavily used in a multi-user environment, additional cores and RAM is recommended (1 ½ core and 2GB per user license)
Operating system	Any of Microsoft Windows® 2012 Server (64 bit) (also R2 is ok) Microsoft Windows® 2016 Server Microsoft Windows® 2019 Server VmWare ESX based Windows 2012R2/2016/2019 64 bit servers For 1-user installation also the following:

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Component	Requirement
	Microsoft Windows® 10 (64 bit version only)
Applications	Microsoft Internet Information Services 8, 8.5 or 10 Microsoft .NET Framework, Version 4.5.2 InformCC If applicable: Oracle Client 64 bit 11.x or newer Special fonts used in Word files need to be installed also on the app server.

3.1.2.1 License monitoring

To allow for (optional) license monitoring, the firewall must allow outgoing Http traffic on custom port 7460 to the address gbgoffice.informait.com. To access the monitored data, please contact InformaIT for more information.

3.1.3 Database

Component	Requirement
Operating system	Any
Applications	Microsoft SQL Server 2008, 2012,2014,2016,2017 or 2019 or Oracle 10, 11, 12 1. The system can use an existing SQL server or Oracle if one is already in place. 2. The system can use a free version of SQL Server (10 GBytes of reports limitation, unless the FileStream option is enabled in SQL which gives virtually unlimited space) (recommended only for 1 user system). 3. You can purchase a license of SQL Server and install this on the same server as our software or on another server.
Disk space	This is highly dependent on how many reports are saved. 10 signed reports per working day makes 2000 per year. If an estimation of 1 Mbyte / report (very approx) this makes 2 GB of disk space per year.

3.1.4 Client Workstation

Component	Requirement
Operating system	Microsoft Windows® 10 Apple MacOSX High Sierra or newer
Applications	On Microsoft environments: Mozilla Firefox, Google Chrome (v.57 requires CC version >= 3.9.1.2), Microsoft Edge v.88+ NB: Internet Explorer 11 is no longer supported Adobe Acrobat Reader 10+ On Mac environments: Apple Safari 9.1.2 (Safari 11 requires CC version >= 3.10) or Mozilla Firefox version 21+

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Component	Requirement
	Adobe Acrobat Reader 10+

3.1.5 Hard Copy Scanner Workstation

Component	Requirement
Operating system	Microsoft Windows® 10
Applications	Twain compatible Scanner driver (64bit) (this does not apply to WideTek scanners which can be connected to directly) .Net Framework 4.5 Client Profile or Full

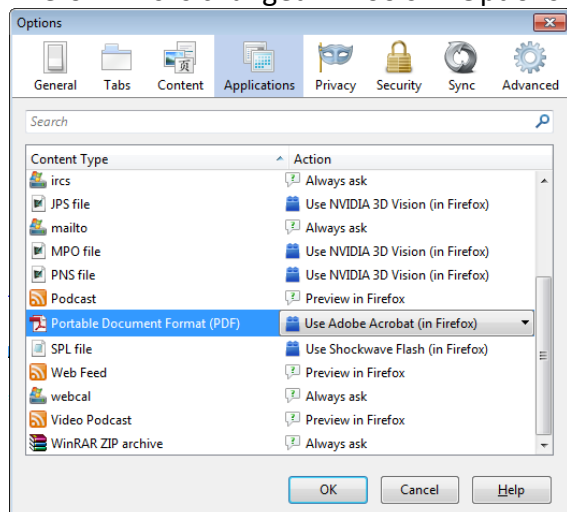
3.2 Web browsers

The application is easily accessed and executed from a wide range of browsers.

Note that listed below are the **earliest** versions that the application has been validated for. Users of previous browser versions are encouraged to upgrade. It is always recommended, unless otherwise stated, to have the latest publicly available release for browsers.

3.2.1 Mozilla Firefox

Version 68 or newer. Note that the PDF viewer built into Firefox is not good enough for production use. We recommend having Adobe Reader installed and set as the default PDF Viewer when using Firefox. This is changed in Tools -> Options -> Applications.



3.2.2 Google Chrome

Version 57 or newer. Note that the PDF viewer built into Chrome is not good enough for production use. Unfortunately, Chrome does not anymore support opening PDFs in Adobe Reader inside a window of the Browser. The system will still work but the PDF report will be displayed with the internal PDF viewer which does not for example fully support annotations and layers.

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3.2.3 Apple Safari for MacOSX

Version 9.1.2 or newer is recommended. Apple Safari for Microsoft Windows is not recommended as it has been discontinued by Apple.

3.2.4 Microsoft Edge (Chromium)

Version 88 or newer is supported.

4 Changes/New Features

4.1 New functions

4.1.1 Version 4.2.4 (29-Apr-2022)

Not applicable for this release.

4.1.2 Version 4.2.3 (21-Feb-2022)

Id	Description
CC-565	Better possibilities to ignore combinations of words in the spell checker The possibility to add combination of words and abbreviations has been implemented. E.g. "A.B.C" , "A/B" or "AB/CD".
CC-698	Add info about system version number and active user on all screens The InformCC version number and the username for the current logged in user will be displayed on all screens.
CC-861	Improve the management of "Sites" in the CCInstaller The tool CCInstaller has improved to also manage the installation to a non-default site.
CC-904	Make sure the "Set comment to all identical deviations" also sets the status The function will copy the entered comment text and the selected status, to all identical deviations.
CC-921	Layers and colour panel improvements The preview image will not be refreshed each time a layer or colour checkbox has been changed. The image will instead be refreshed when the user confirms by clicking the new button "Update preview".

4.1.3 Version 4.2.2.1 (28-Nov-2021)

Not applicable.

4.1.4 Version 4.2.2 (25-Oct-2021)

Id	Description
CC-620	Support for PZN barcode variant of Code 39 When a Code 39 barcode is read, it will be tested if it can be decoded into PZN barcode. If so, the PZN (or PZN8) value will be presented.
CC-637	Possibility to generate password reminders An email reminder that the password is about to expire will be sent to the user X number of days before expiration. X will be determined by the setting value for PASSWORDEXPIREWARNDAYS.
CC-750	For Code 39 the extended and normal value should both be presented

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Id	Description
	When a Code 39 barcode is read and it is possible to use the Code 39 Extended decoding algorithm, both the general and the extended values are presented (if they differ).
CC-793	Add Croatian Braille to the Braille dictionaries We now have a Croatian dictionary in the list of languages for Braille.
CC-843	Allow calling Antivirus to validate file uploads (PENTEST issue #7) It is now possible to set up Antivirus scanning when uploading files to the system. Normally, the server is protected anyway, but if defined, the user will get instantly notified. This requires an Antivirus scanner installed on the server that supports instant command line scanning, e.g. ClamAV. For more details see the System hardening guide.

4.1.5 Version 4.2.1 (8-Jun-2021)

Not applicable, no new functions in this release.

4.1.6 Version 4.2 (3-Mar-2021)

Id	Description
CC-778	Add text deviation screenshots to the report Possibility to get preview images of the text deviation areas (Source/Target) in the report's deviation list. Activate this function with the setting CC_REPORT_PREVIEW_IMAGES.
CC-796	Add OCR support Activating the text setting 'Perform OCR' will make the system to use OCR to read from PDF where there is no live text available, e.g. the text has been outlined. Supported language in this release is English only. Some limitations apply, see section 4.3.8 OCR Support.

4.1.7 Version 4.1 (30-Apr-2020)

Id	Description
CC-657	Enable SAML integration for Single sign on (SSO) Support SAML v2 workflow for Single sign on has been implemented. The SAML identity provider can be various sources e.g. Okta, ADFS etc.
CC-733	Add WideTek support to Hardcopy
CC-748	Allow JPEG to be used in Graphic compare and Hard copy File types jpg and jpeg have been added as permitted file types. Applicable system settings must to be updated.

4.1.8 Version 4.0 (6-Feb-2020)

Id	Description
CC-480	Refresh the User interface This is too big to describe in this small space 😊 This includes among other things: • New UI with new colours, style for buttons and other cosmetic improvements • Drag & Drop files in the File selection dialog • New tools for Selecting inspection areas • Clearer display of result
CC-332	Retire the need for "DC"

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Id	Description
	Finally, the day has come! We have removed the old “DC20” admin interface. There is a brand new User management dialog as well as a History dialog to locate saved reports in the system.
CC-402	CC installation parameters possible to verify in the Record log When configuration parameters are updated in the system, they are stored in a log. This log has not been able to be seen inside Content compare. Now it is.
CC-499	Automatic Braille detection similar to barcode When using the Braille feature, we now find the Braille automatically. We assume the Braille colour is called “Braille” (config option available to add more colours)
CC-502	Improve text analyzer Small thing, but now it shows clearer exactly which character has been changed, and not the whole word. So no need to go into Advanced mode.
CC-505	The system does not allow the same selection to be added multiple times This was an old thing, preventing users to double click on the Add button. Since the Add button no longer exists after the selection has been added, there is now no reason why you can’t select the same text twice.
CC-609	Support for Italian Pharmacode (aka Code 32) This is a special barcode used in Italy. If the checksums add up we also present the data decoded using the Code 32 rules.
CC-654	Calculate Bar width reduction for Pharmacode from both directions There was a case when the bar width reduction was different in the left and right edge of the barcode. So we added a check also from the other side and take the “worst”.
CC-669	Full screen should collapse completely to a bar We have improved the full screen mode to make even more space available if work has to be done in Edit mode or selections.
CC-670	Line break issues with Proofing annotations requires a change in CC too This applies to users using our Proofing module. There was a problem with line breaks (also solved already in 3.11.1).
CC-673	Make the InformCC logo clickable Small thing but if you click the logo this takes you back to the menu page.

4.1.9 Previous versions

For older versions than 3.10, please download the applicable release notes from InformaIT Help Center.

<http://confluence.informait.com:8090/display/IITDoc/InformaIT+Documents>

4.1.9.1 Version 3.11.1 (2019-09-16)

Not applicable, no new functions in this release.

4.1.9.2 Version 3.11 (2019-05-03)

Id	Description
CC-555	Config option to read small Interleaved barcodes If the setting CC_READSMALLI2OF5 is active, the system will read also very small barcodes (ITF).
CC-557	Support ANSI grading for PDF barcodes

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Id	Description
	New functionality added to the Read barcode function. The system will, in addition to reading the value and barcode type, give the barcode a grading, A-F, according to the ANSI grading rules for the selected applicability profile. Detailed information about measurements will also be displayed.
CC-583	Extract 2d barcode information from PDF
CC-606	Add Applicability to the Barcode output The new barcode grading functionality is based on applicability profiles. The profiles can be adjusted or turned on/off according the company's preferences. The following profiles are available as default: Code 39, Code 93, Direct marketing, Direct marketing Dot peen, Direct marketing Ink, Direct marketing Laser, GD, GDTI, GSRN, Logistic, Manufacturing, Micro Pharmacode, Miniature Pharmacode, Pharma, Pharma and GD, Pharma not GD, Pharmacode Carton, Pharmacode Label, Pharmacode Leaflet, Pharmacode Tube, Retail and Retail and GD.
CC-632	Add Simplified Chinese and Brazilian Portuguese as UI languages
CC-636	Option to jump directly to deviation view when presenting the result It is possible to get the Deviation View page opened automatically, displaying the first deviation, when the comparison result is presented.
CC-641	Add a new report type for barcodes A new report type, Barcode Report, has been implemented. The report will display the barcode "deviations" only.

4.1.9.3 Version 3.10.2 (2018-10-02)

Id	Description
CC-550	Minimum text size should allow decimals also for point size The minimum text size values and tolerance values shall allow decimals for X-height, Didot and point size.
CC-553	Remember which barcodes have been read The system will remember which barcodes that have been read. Next time the barcode button is clicked, the first unread barcode will be highlighted first. The read barcodes will be marked in the Deviation view so it is visible.
CC-570	New function Annotation View The PDF annotations will be displayed side by side with the Deviation view page/Overview page.
CC-572	Configuration possibility when displaying units Settings have been implemented for units for barcode reading, Braille reading and the Ruler tool. For ruler: inches, millimeters and points (one or in combination). For Braille and barcode: Inches, millimeters or points (select one). See section 4.3.4 Configuration.
CC-593	AMS integration compatible with new AMS integration Applicable when InformCC is integrated with InformAMS.

4.1.9.4 Version 3.10.1 (2018-05-15)

Id	Description
CC-400	Use 72 instead of 225 as the base resolution

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Id	Description
	Possibility to use 72 as the base resolution, this will speed up the process when generation images for large artworks. The comparison itself is not affected, only the display of the images. New system setting CC_UI_RESOLUTION.
CC-468	Add support for GS1 DataBar Limited The Read barcode function now supports the following GS1 Databar formats: GS1 Databar Extended, GS1 Databar Omnidirectional, GS1 Databar Truncated, GS1 Databar Stacked, GS1 Databar Stacked Omnidirectional and GS1 Databar Limited.
CC-477	Add button to clear all layers and/or colours New button 'Clear all' has been added in the Preview/Layers section in the Select Files page.
CC-489	Configurable minimum space size A configurable minimum acceptable space size has been added (as a factor of the font size). New system setting CC_MINCHARSPACINGFACTOR.

4.1.9.5 Version 3.10 (2018-01-22)

Id	Description
CC-383	Negative selections in Graphic Compare Similar to Text compare the user can now have negative selections in Graphic compare to remove any deviation within that area.
CC-356	Possibility to compare (simple) web sites This can be used to compare static web sites to e.g. a word file or Pdf. This requires the new source "URL" to be defined for either Source or Target in the configuration options. This function is not recommended for GxP companies.
CC-338	Column selection feature The way that the "Select words" feature works in e.g. table areas had changed. Now the text flow will not jump graphical lines unless they are passed with the mouse pointer. In this way it is much easier to select e.g. a column within a table. This is the default behaviour of Select words (with no setting to make it work otherwise).
CC-382	Graphic configuration editor For Graphic compare there is now an editor available to view and edit Graphic compare settings. The settings are still pretty technical but we are happy to assist to calibrate the system for your need.
CC-395	Add support for FDA SPL submissions If the xml file extension is enabled it is now possible to upload SPL submissions for comparison. Actually other types of xml can also be supported, with our assistance.
CC-349	Retire the possibility to have thumbnails near deviation This is just a tiny change that improves performance slightly in the result view when having many deviations.
CC-457	Improve Combined comparison text deviation report positions When running a normal text comparison we typically indicate the position of a removed word on the next identical word. In Combined comparison we have changed so it uses the source position if possible, to give a clearer indication.
CC-458	In Combined compare annotations export present source only devs on target file When running a normal text comparison we typically add a source page if there is a source only deviation in the export. In Combined comparison we have changed so it uses the source position and indicates this on the target file.
CC-346	Show message when critical items searches for nothing

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Id	Description
	Without any configuration the Critical Items feature is pointless. So we now indicate this with a message to make it clearer when configuration is needed.
CC-404	Split openseadragon library This is just a code restructuring change not noticeable to the user.
CC-392	Improve aligning files This is an improvement in the Graphic compare auto alignment feature. Sometimes we couldn't find the position even though the areas were similar.
CC-422	Make new selection size dependent upon the zoom level If the user has zoomed in a lot clicking new selection would give a too big area so the user had to zoom out to be able to resize. This has been corrected.
CC-439	Add warning when the server is running low on disk space Just to avoid a sudden meltdown if the server runs out of disk space we now present a warning before that happens. This is for the application server, not the database.
CC-467	Improve Zoom to at least 6400% We now support zooming of theoretically up to unlimited zooming, but in practise the max is 6400%. There is a configuration option available CC_ENHANCEMENT_LEVEL to adjust the maximum zoom. 5 is the default which means 2 powered by (5 + 1) = 64 times = 6400%.
CC-470	Integrate Proofing functionality into Content Compare and improve display of imported PDF annotations This is an important change if the Proofing module is used in combination to Content Compare. Now we can display all the circles, boxes etc. that can be created in the Proofing module (1.1).
CC-440	When selections have different sizes, report source/target only non-white area as deviation In Graphic compare it was previously that if a large area was selected in target and a small area in source, we shrank the selection in target after matching the areas and then only output deviations within that area. Now if we find anything non-white outside we present them as "target only" deviations.
CC-358	Make the new zooming work also for images If png files are used for comparison, we can zoom in to them now similar to documents. This is useful for Hard copy comparisons.

4.2 Bug fixes/Enhancements

4.2.1 Version 4.2.4 (29-Apr-2022)

Id	Description
CC-917	Pharmacode can have as wide whitespace as the thick bar It was assumed that a pharmacode had the 1,2,3 relation, e.g. 0.5mm thin, 1.0mm gap and 1.5mm wide. Instead, it will now allow the widest gap to be as wide as the widest bar.

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4.2.2 Version 4.2.3 (21-Feb-2022)

Id	Description
CC-701	Disable "use LAB images" setting for hard copy grayscale comparison to improve performance
CC-736	Braille columns are not interpreted correctly
CC-747	Fullname, Email and Filename lack support for Unicode characters
CC-749	Custom dictionary cannot be fully cleared without access to the server
CC-826	Missing report fonts for Tamil language
CC-867	After using mask and then park in Graphic compare, the report generation crashes
CC-877	Make DataMatrix reader less sensitive to BWR
CC-898	If multiple colour channel names are starting with Braille, Braille is detected but cannot be read
CC-902	If stationname is longer than 64 characters, the user cannot log in
CC-903	Improve Japanese translations
CC-915	PDF icons are displayed when uploading JPG files as Target
CC-916	Text deviation overview makes the report generation crash if it is too big
CC-923	When having multiple source files, find in Graphic compare only works for the first file
CC-930	The PDF preview images show some additional irrelevant tokens when using Manuscript compare
CC-938	Deviation view uses incorrect zoom sometimes
CC-941	OCR ends up in an infinite loop sometimes

4.2.3 Version 4.2.2.1 (28-Nov-2021)

Id	Description
CC-935	In 4.2.2 we miss uppercase vs lowercase Changes in case or accents can be missed during text comparison.

4.2.4 Version 4.2.2 (25-Oct-2021)

Id	Description
CC-731	Pharmacode gets weird values for Bar width reduction and magnification
CC-798	Introduce configuration option to disable removal of hidden layers in report generation
CC-803	WideTek driver does not reset the docsize mode
CC-809	GS1 Barcodes are not detected automatically
CC-811	GS1 barcode is not read from scan
CC-812	HardCopy compare report generation throws exception when not all scans were viewed
CC-844	Do not display stacktrace when server has crashed (PENTEST issue #3)
CC-846	Upgrade to newer version of jQuery (PENTEST #6)
CC-850	Whitespace characters that are not a space is being treated as character in Graphic & Hardcopy
CC-851	Be more sensitive when searching for Data matrix codes
CC-864	Upgrade to newer version of Vue (PENTEST uncategorised)
CC-865	Remove ASP.Net headers from the responses (PENTEST uncategorised)
CC-866	Upgrade Bootstrap version (PENTEST uncategorised)
CC-878	Too sensitive when detecting GS1 Truncated in Hard copy

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Id	Description
CC-879	Barcode dimensions warning for xMin despite having set only xMax
CC-880	Improve text extraction from Word and Excel
CC-881	For locked out accounts we don't reset invalidlogin counter
CC-884	Sort Source / Sort Target does not work in 4.2.1
CC-886	Fix applicability criteria for Code 93
CC-888	Merge Download plugin into main branch
CC-889	GMT time zone causes notes extraction to crash
CC-890	Harmonize parsing exporting annotations in CC and PM
CC-891	Admin pages issues
CC-892	Cannot remove all text tokens in edit mode
CC-896	Suspicious Unicodes causes memory corruption

4.2.5 Version 4.2.1 (8-Jun-2021)

Id	Description
CC-801	Add warning about CRLF signs in the barcode value. (Duplicate to CC-839.)
CC-834	Static property in TokenData is modified when running Combined Compare
CC-835	Progress bar occasionally gets stuck on 0%
CC-836	Failed barcode reading causes a crash in report generation
CC-837	Crash when using edit mode
CC-839	Warn about any whitespace character at start or end of the barcode
CC-841	XSS vulnerability in the Record Log dialog (PENTEST issue #1 and #2)
CC-842	Prevent CSRF hackers also for webApi calls (PENTEST issue #4)
CC-845	Disable older protocols than TLS 1.2 (PENTEST issue #5)
CC-847	Resizing after "add for all" not working
CC-848	Crash when loading a file containing annotations with XML illegal characters in the comment
CC-852	Typo in Polish translation
CC-853	Force 64 bit execution of CCEngine tools
CC-857	Adjust the sensitivity of the ruler Display 3 decimals on inches, 2 decimals on millimetres and 1 decimal on points.
CC-858	Crash when reading QR code
CC-868	We try to park comparison using old id despite changing the file

4.2.6 Version 4.2 (3-Mar-2021)

Id	Description
CC-488	Install the fonts in the application folder instead of C:\windows\fonts
CC-730	False positive due to extra space detected before text selected in a note
CC-761	When comparing right to left languages, Edit mode sometimes changes the order
CC-772	Find should mark intermediate words e.g. when text is hyphenated
CC-774	If a custom unicode mapping points to a space character, we still join the words

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Id	Description
CC-784	If COMMENTREQUIRED is set, and the comparison results in no deviations, the report cannot be created
CC-786	Rotated negative selections not working in One to Many
CC-787	Improve find in Hard Copy Compare
CC-788	If CCTwainScanner fails to send the scanned images, we should retry
CC-791	Improve prealignment in Hard Copy Compare
CC-794	Resource crash if there is a new braille dictionary
CC-799	After commit changes in Edit mode, CC forgets the current deviation in Chrome
CC-813	Chinese full stop is missing in the extracted text
CC-824	PDF rendering update
CC-829	Wrong barcode width reported for Pharmacode

4.2.7 Version 4.1 (30-Apr-2020)

Id	Description
CC-544	If a scanner job is loaded, the resolution is not picked if another resolution is set as default
CC-552	Create all deep zoom images for a level when the input is a png
CC-678	Make the deviation markings standing out more
CC-682	Character decomposition ignore list is not used for text extracted from notes
CC-702	Incorrect graphic deviation size in viewer
CC-718	False positives on edges
CC-722	Place the block number outside of the deviation
CC-732	Scanner information missing in the Hard copy report
CC-734	The Job number should only be allowed to be used once
CC-741	Removing table area breaks the double-click inside other tables
CC-745	If a Proofing note contains a HTML comment, this is printed in the Complete report
CC-756	Edited selection causes 'Find' and 'Delete' to not work properly for other selections
CC-762	Moving the copy after "Copy from last page" modifies also the previous selection
CC-763	Translation error(s) in version 4.0

4.2.8 Version 4.0 (6-Feb-2020)

Id	Description
CC-513	Cannot glue graphic deviations when negative selections were used
CC-524	Hitting "select words" too early gives the wrong coordinates for selecting
CC-528	Auto comments in Deviation view does not consider the deviation status
CC-605	Prevent any button to be clicked before the page has loaded in area selection
CC-635	When hiding annotations in Deviation view, highlighted words are still visible
CC-642	Negative horizontal scaling causes CC to read text upside down
CC-643	The barcode dimensions editor does not work with renamed profiles
CC-647	Some SSL web sites cannot be compared

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Id	Description
CC-648	Line breaks disappearing when comparing Proofing notes in CC
CC-649	First time a word selection is used some words are ignored (integrated only)
CC-653	A graphic comparison can only be parked once
CC-655	If a Braille line starts with an "a" and a space, the rest of the line is not read
CC-656	Some mirrored characters are turned in Arabic
CC-658	Crash at 74% when comparing in Graphic compare
CC-662	Form fields not showing for a set of files
CC-665	Notes text is missing
CC-667	Spellchecker broken
CC-668	Text in an annotation coming from external system gets repeated
CC-677	When using the same word for multiple selections in the same comparison, deviations are broken incorrectly
CC-685	Deviation view does not close when the user hits rerun
CC-694	Buttons in the analyzer are sometimes enabled too early
CC-695	Too much blinking of the "Loading" icon in the viewer
CC-713	CC engine - on xml error CC stops zooming
CC-735	Barcode quality calculation fails on password protected files
CC-744	We lose formatting if a whole chunk of bold text is selected in a note
CC-752	Result appears double after using Copy to Source

4.2.9 Previous versions

For older versions than 3.10, please download the applicable release notes from InformaIT Help Center.

<http://confluence.informait.com:8090/display/IITDoc/InformaIT+Documents>

4.2.9.1 Version 3.11.1 (2019-09-16)

Id	Description
CC-642	Negative horizontal scaling causes CC to read text upside down
CC-643	The barcode dimensions editor does not work with renamed profiles
CC-647	Some SSL web sites cannot be compared
CC-648	Line breaks disappearing when comparing Proofing notes in CC
CC-649	First time a word selection is used some words are ignored (integrated only)
CC-653	A graphic comparison can only be parked once
CC-654	Calculate Bar width reduction for Pharmacode from both directions
CC-655	If a Braille line starts with an "a" and a space, the rest of the line is not read
CC-656	Some mirrored characters are turned in Arabic
CC-658	Crash at 74% when comparing in Graphic compare
CC-662	Form fields not showing for a set of files
CC-665	Notes text is missing

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Id	Description
CC-668	Text in an annotation coming from external system gets repeated
CC-670	Line break issues with Proofing annotations requires a change in CC too
CC-677	When using the same word for multiple selections in the same comparison, deviations are broken incorrectly

4.2.9.2 Version 3.11 (2019-05-03)

Id	Description
CC-542	Edit mode after Barcode reading causes all deviations to be duplicated
CC-573	Add possibility to specify maximum size of the graphic items we use as characters in Graphic Compare
CC-587	Blank pages cause comparison error in HotFolder
CC-592	Extract common ancestor for operations duplicated in DocumentComparison and HotFolder
CC-596	GS1 Limited Code misreading
CC-597	Don't break the HotFolder comparison when misaligned pages occur
CC-599	Merge hotfolder changes into 3.11.0
CC-604	Fix annotation bugs
CC-610	Detection of moved text is not working as expected
CC-612	Occasional errors in rendering on demand tiles
CC-616	Adding annotation covering barcode will mark it as read
CC-617	Attaching barcodes and braille to deviation should only work for text deviations with source tokens
CC-623	Fix Codabar decoding
CC-624	List of already read barcodes becomes incorrect after attaching barcode to a deviation twice
CC-625	Barcodes attached to the deviation are not marked in the overview
CC-630	Incorrect BWR for barcode with anti counterfeit lines
CC-631	Error message when loading annotations from PDF
CC-633	Warn if the barcode value ends or begins with a space
CC-639	After finding Target only deviations in Graphic compare, Park cannot be used.
CC-640	Plus characters not compared when comparing with Notes

4.2.9.3 Version 3.10.2 (2018-10-02)

Id	Description
CC-497	When keepalive.ashx detects a logged out session, stop
CC-503	Incorrect rotation of the selection when finding area for rotated source file
CC-514	Cannot disable layers for password protected files anymore
CC-539	Present a warning if the bar width reduction is more than 20% of the narrow bar width A system setting, CC_BARCODE_WARN_BWRTOOHIGH_PERCENT, has been implemented to decide when a warning message should be displayed. Default = 20%.
CC-545	Double click in graphic compare edit mode hides the deviations
CC-546	After Find in target in Graphic compare, add for all does not work
CC-547	Hard copy specific concurrent licenses
CC-551	Filter should apply also to notes comparisons

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Id	Description
CC-561	Comparisons between PDFs in different rotation might select the wrong comparator
CC-563	Do not show PDF "widget annotations" in CC
CC-574	When using lower UI resolution, notes are shown with incorrect position and size in Deviation view
CC-576	Consider length of words when using "Sort source" and "Sort target"
CC-577	Incompatibilities with Chromium web control plugin when running in integration mode
CC-581	The order of selections are messed up if negative selections are added before other selections
CC-582	Negative selections are not highlighted when hovering over name in the helper panel
CC-584	Some characters in the comments cause the report generation crash
CC-586	Support Unified English Braille As of 2016 Unified English Braille (UEB) is the recommended Braille dictionary for artworks in UK. The Braille authorities of Australia, Canada, New Zealand, Nigeria, South Africa, UK, Ireland and the US have adopted UEB as their primary Braille code.

4.2.9.4 Version 3.10.1 (2018-05-15)

Id	Description
CC-442	GS1 barcode sometimes cannot be read
CC-453	Detect 2D barcodes based on PDF squares
CC-460	90 Degrees rotated datamatrix is not auto detected
CC-462	Improve 1D barcode detection
CC-465	Pdftoxml lines extraction is not accurate
CC-490	When opening Braille or Difference view in IE11, sometimes the dev view window is closed
CC-491	Some settings description is missing in the configuration editor
CC-493	Optimize server code checking for the rendered tiles
CC-494	Make sure that the correct color picker position is used when zoom level is high
CC-495	If a colour channel has an ampersand in the colour name it cant be loaded in CC
CC-498	Decrease the amount we zoom when zooming into barcodes and deviations
CC-506	Show notes button title is not localized
CC-508	When having Enhancment level set to two, it still zooms in a lot for small deviations
CC-510	Different levels of minimum zoom allowed in analyzer for files with different sizes
CC-511	Improve snapping in Ruler tool
CC-512	Cannot go to next page more than once in Edit Mode
CC-515	For ITF14 we calculate the wrong magnification.
CC-516	Waiting for tiles to render makes color picker never finish
CC-518	Word selection for rotated intersecting texts is incorrect
CC-525	When the loading icon is showing it is impossible to select text behind it
CC-531	HTML like comments causes PDF report generation to crash
CC-533	Resize in Edit selection does not work if the previous is a word selection
CC-534	When encountering an annotation with an invalid date format we should fail silently
CC-535	Presentation images have defects when comparison resolution is lower than the presentation
CC-540	URL text field visible in the Scanner jobs dialog

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4.2.9.5 Version 3.10 (2018-01-22)

Id	Description
CC-221	Braille Dictionary lacks some characters
CC-329	Fix merging graphic devs with images attached or status set
CC-331	Text settings name can't include non-ascii letters
CC-363	Incorrect message in analyzer about text tokens
CC-391	Localize report metadata and update version number
CC-393	Child (red) graphic deviation missed
CC-407	Incorrect annotation position in cropped file
CC-411	Cancel button does not stop the execution of the comparison
CC-426	Plugin file settings do not appear in the list of settings
CC-430	A few of the settings do not fall back to System settings and do not support multi tenancy
CC-435	Notes are displayed without line breaks in the result view
CC-441	If the PDF has a crop area, the Notes shows in the wrong position in Area selection
CC-443	Braille dots not recognized on very bright background
CC-445	Preview images in Deviation View are not loaded
CC-448	When adding second critical item the wrong type is saved in Configuration
CC-451	Text deviations are always on page 1 in the XFDF export
CC-456	Source only text deviation not exported to Proofing module/XFDF
CC-459	Concurrent user license lock should be extended on activity
CC-461	Export XFDF when format is not PDF
CC-464	In Safari 11 (macOS High Sierra) the Graphic Analyzer does not work
CC-466	XFDF file is downloaded as PDF on Safari
CC-469	The on demand rendering is not cleared after going back to Select Files

4.3 Dependencies

This section describes any new 3rd party software, database change or other issue that needs to be considered.

4.3.1 3rd party components

This version does not require any new 3rd party components to be installed.

4.3.2 References to AMS

Some changes refer to AMS: Inform Content Compare can integrate to an Artwork Management System (AMS), either InformaIT's InformAMS or other external system.

4.3.3 Database

Required database changes will be performed when running the installation script.

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4.3.4 Configuration

- If the system is used to perform barcode reading, consider to turn off the predefined barcode types/applicability profiles that never will be used. All profiles are active as default. See section 2.2.5.5 Barcode Applicability Profiles in *M09 InformCC v4.2.3 Implementation Preparation Guide* and the appendix for further details.
- If the text compare setting Clinical mode shall be used, the setting needs be made enabled in the Configuration page.
- If check for critical items shall be used, define the critical items data in the system. This can be done in the Configuration Editor page, setting file *criticalItemFilters.xml*.
- If custom default auto comments shall be used, define the default comments in the system. This can be done in the Configuration Editor page, setting file *defaultcomments.xml*.
- If other colours should to be displayed in the system, define the colours in a stylesheet *customcss.txt*, and upload the file in the Configuration Editor page.
- If the Hard Copy Compare module shall be used, the system setting CC_STANDALONE_B_GRAPHIC_SOURCE must contain the value "LOCALFILE,HARDCOPY".
- If localized language shall be used, consider the following settings (for details and the list of all settings, see *S06 InformCC System Settings*):
 - CC_UICULTURE
 - CC_REPORTCULTURE
 - CC_NOALLOWUSERCULTURE
- If the file types jpg and jpeg shall be used, the values must be added to the system settings CC_STANDALONE_A_GRAPHIC and CC_STANDALONE_B_GRAPHIC (CC_PLUGIN_A_GRAPHIC_FILES and CC_PLUGIN_B_GRAPHIC_FILES when running InformCC in integrated mode)
- New settings in the latest releases (for details and the list of all settings, see *S06 InformCC System Settings*):
 - CC_DISABLEREMOVALOFHIDDENLAYERSFORREPORT
Activate this setting if hidden layers should anyway be displayed in the comparison report's overview image.
 - CC_ANTIVIRUS_EXE, CC_ANTIVIRUS_OKPATTERN, CC_ANTIVIRUS_PARAMS and CC_ANTIVIRUS_VIRUSPATTERN
Possibility to perform antivirus check for each file that is uploaded to InformCC.
 - CC_REPORT_PREVIEW_IMAGES
Activate this setting if preview images of the deviation areas shall be displayed in the Text comparison report, deviation list.
 - CC_OCR_RESOLUTION
Possibility to set a separate resolution when performing OCR.
 - CC_OCR_DATA_DIR
Directory where the language specific files for the OCR engine are stored.
 - CC_BRAILLE_COLORS
Add the color channel name(s) for automatic detection when reading braille.
Note: Braille created using a color channel named 'Braille' will automatically be detected, without specific configuration.

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- It is recommended for all customers, both when installing Inform Content Compare for the first time and when upgrading, to go through the document *M09 InformCC v4.2.3 Implementation Preparation Guide, rev 27*.

4.3.5 User Management and History

- The User management- and History functions are available from the hamburger menu on the main page.
- Verify that the System Administrator can access the User management page.
- Verify that super users can access the History page.
- Inform/DC is obsolete, make sure to inform the users to remove any links.

4.3.6 Files creation and Best practice

To get the most out of InformCC, see the recommendations in *M03 InformCC Best Practice Text Compare* and *M03 InformCC Best Practice Hard Copy Compare*.

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4.3.7 Retests / revalidation

The product undergoes heavy validation for every release. This is included in InformaIT Release Qualification package.

If upgrading from a previous version, for customer where Production Qualification is applicable we recommend the following retests.

4.3.7.1 From 3.9.0 and later

- Flow test Text Compare from start to end on one set of files.
- Flow test Graphic Compare using graphic filter, if applicable, from start to end on company specific files.
- If the Hard Copy Compare module shall be used, perform several comparisons, with various types of artworks, to ensure that the scanner is properly calibrated. If such calibration has already been performed on a previous version, a re-calibration is only required if a change to use jpg format is made. In this case a smaller sample can be used.

4.3.8 OCR Support

The system can use OCR technique to read files with vectorized text, given that the text is human readable, not too small and in good quality. The following limitations applies:

- Supported language: English.
- Supported input types for OCR:
 - Vectorised files, e.g. PDF that has been outlined
 - PDF with a scanned/screenshot image inside
 - Hybrid, e.g. PDF with some live text, some outlined and some images
- If the selected area contains text in multiple rotations, the system will read the text based on the rotation for the majority of the text.

5 Revision history

Edition	Date	Revised by	Revision
1	29-Apr-2022	Magdalena Grefve, InformaIT AB	Document finalized.