

The following table contains bugs fixed in this release sorted in descending order of severity. If the bugs have workarounds, root causes or side effects, they will be mentioned in the Description section.

Severity	Description	Technology Subsystem	HD #	Office
Minor	The time of exported file's creation/modification displayed in Adobe Reader is not equal to this file's creation/modification time displayed in file properties.	Export	530461	US

## KNOWN ISSUES AND WORKAROUNDS

Same as R7.

## R8 GM –

### PART NUMBER, BUILD NUMBER

Part#	1041/104
Build#	11.1.19.48

## CHANGE IN BEHAVIOR

We have changed the pattern of working with redundancy time. From now in LicensingSettings.xml there is no opportunity to set redundancy live time (RedundancyLiveTime parameter) and redundancy synchronization time (RedundancySynchronizationTime parameter).

Redundancy live time was fully moved to serial number parameters. Redundancy synchronization time is an internal parameter that was available for editing by mistake.

## NEW FEATURES AND IMPROVEMENTS

### ORIENTATION AND SKEW CORRECTION USING INJECTTEXTLAYER METHOD

All settings in the PrepareImageMode and PageProcessingParams object such as CorrectSkew and CorrecrOrientation work when passed to InjectTextLayer method.

Sometimes customers have PDFs that contain a mixture of digitally published files and scans. Pages that are digitally published do not need any correction, but scans may need it.

From FRE 11 R8, the new InjectTextLayerEx2 method is available. This method works the same as InjectTextLayerEx, but it additionally can correct orientation and skew of input images.

New TextLayerInjectionParams object allows to tune the parameters of processing the input "image only" or "image on text" PDF files and creation of a searchable PDF file using InjectTextLayerEx2 method.

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#### AN OPPORTUNITY TO CHECK PDF FILES THAT PLACED IN MEMORY FOR TEXT LAYER

Sometimes it is necessary to work with InputStream for working with the files.

Previous versions of FRE 11 has only method IsPdfWithTextualContent for checking PDFs for text layer that required a string for FileName. As the customer works with InputStream it is necessary to pass a byte array as the first parameter for the method. In order to be able to check the files earlier they wrote the stream first in a temp file, but it is not acceptable for them since it would have performance impact.

Now method IsPdfWithTextualContentFromStream accepts FileName also as a byte array besides a string.

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#### AN OPPORTUNITY NOT TO WRITE BOM ON EXPORT TO TXT

FRE 11 always wrote Byte Order Mark (BOM) in case of export to TXT.

UTF-8 permits the BOM, but does not require or recommend its use. Byte order has no meaning in UTF-8 and is used only to signal at the start that the text stream is encoded in UTF-8.

Java's UTF-8 encoding has a known behavior and does not recognize this character as a BOM; the result of reading such a stream is a set of characters beginning with FEFF.

So, there are scenarios when clients may need not to write BOM in case of export to TXT. New export option WriteBomCharacter that solves this problem is available since FRE 11 R8.

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#### HUMAN-READABLE NAMES OF PARAGRAPH STYLE ON EXPORT TO XML

Default values of names of paragraph styles were modified and now they can be easier read by a human. Now the names are formed basing on a role of the paragraph and modifications, applied to the style. Earlier GUID was used for naming the styles and it was not informative.

Users also have an opportunity to set paragraph style name manually using IParagraphStyle::Name method.

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#### AN OPPORTUNITY TO RASTERIZE FREETEXT ANNOTATIONS

In earlier versions of FRE it was not possible to retain annotations that have FreeText type in the output document. Now users can do it using new property RasterizeFreeText of IPrepareImageMode.

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#### ADDED 'NOT ENOUGH DISK SPACE' ERROR CODE

A new error message 'Not enough disk space' for cases when there is not enough space on the disk was added.

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## NEW OPTION FOR FASTER PRINTING OF PDF USING MRC

Some our customers complained on too slow printing of PDFs with Mixed Raster Content.

FRE 11 R8 has new option UseMultipleMasks of IPDFMRCParams for tuning MRC parameters. This option activates a special mode in which different monochrome masks are used instead of one multicolor. This leads to faster document printing.

This mode allows to create only documents with monochrome characters. E.g. it is not possible to create documents with characters with a gradient filling using the new option.

The feature is implemented as technical preview and has not been tested for wide use. So, usage of new mode can cause some issues.

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## NEW ARTICLE ABOUT OMR/BARCODE LICENSES IN DOCUMENTATION

An article 'I am working with the screenshot image. Are there any special recommendations for screenshot processing?' about suitable settings of FRE for screenshot processing was added. It is in the FAQ section.

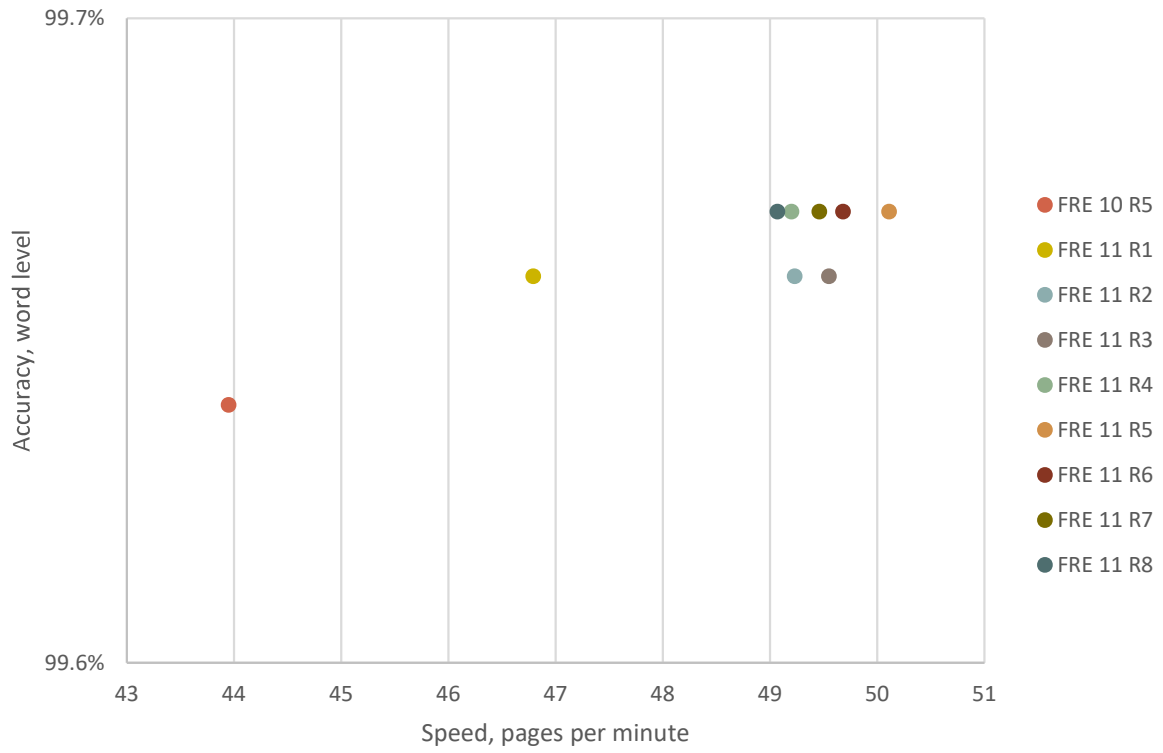
## PERFORMANCE RESULTS

This section contains performance results of the release comparing to the previous releases. The processor of the testing machine is Intel® Core™ i5-4690 CPU (3.50GHz, 4 physical cores) with 8GB of RAM.

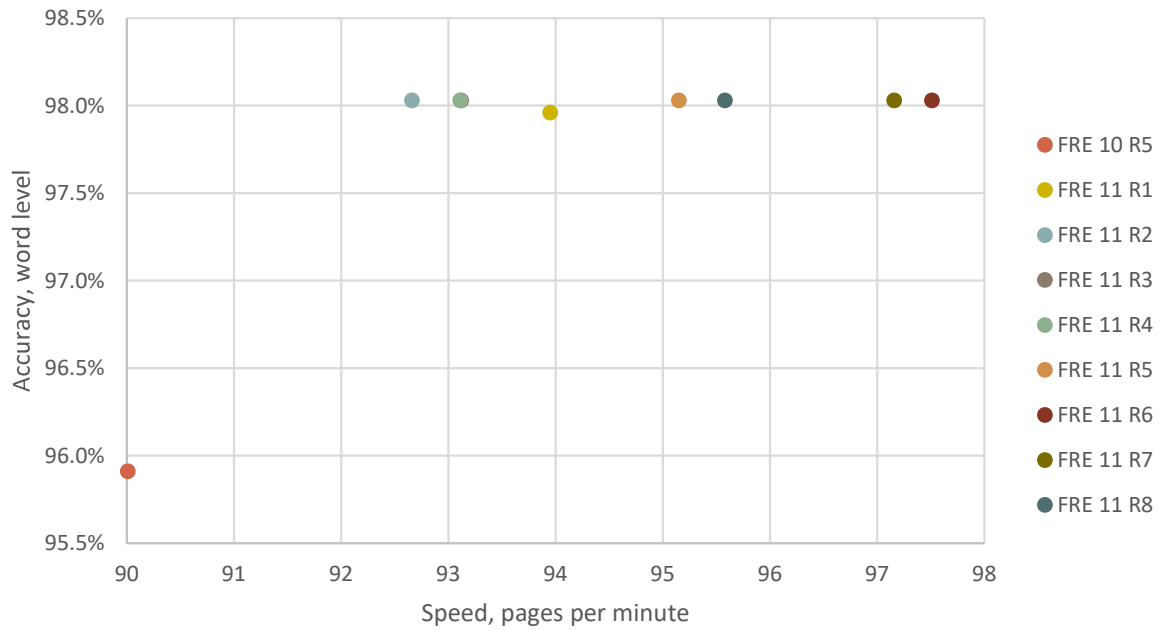
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## ENGLISH

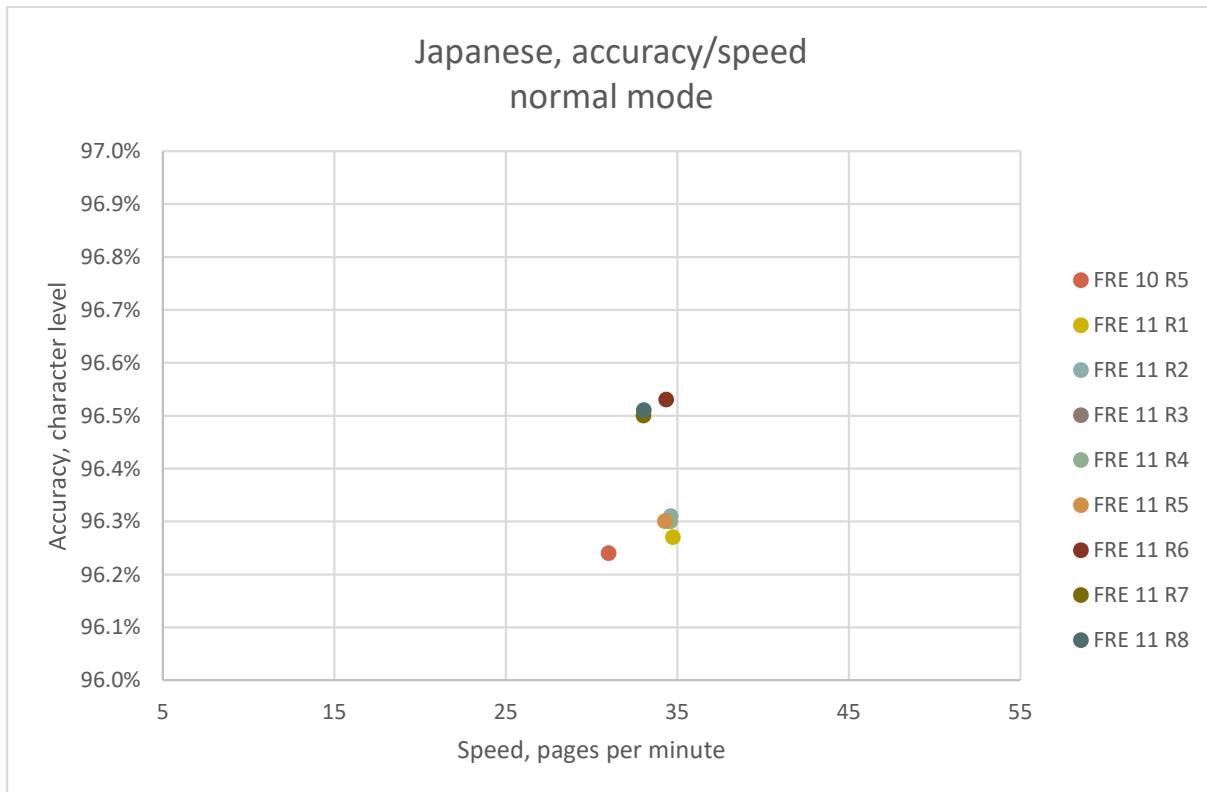
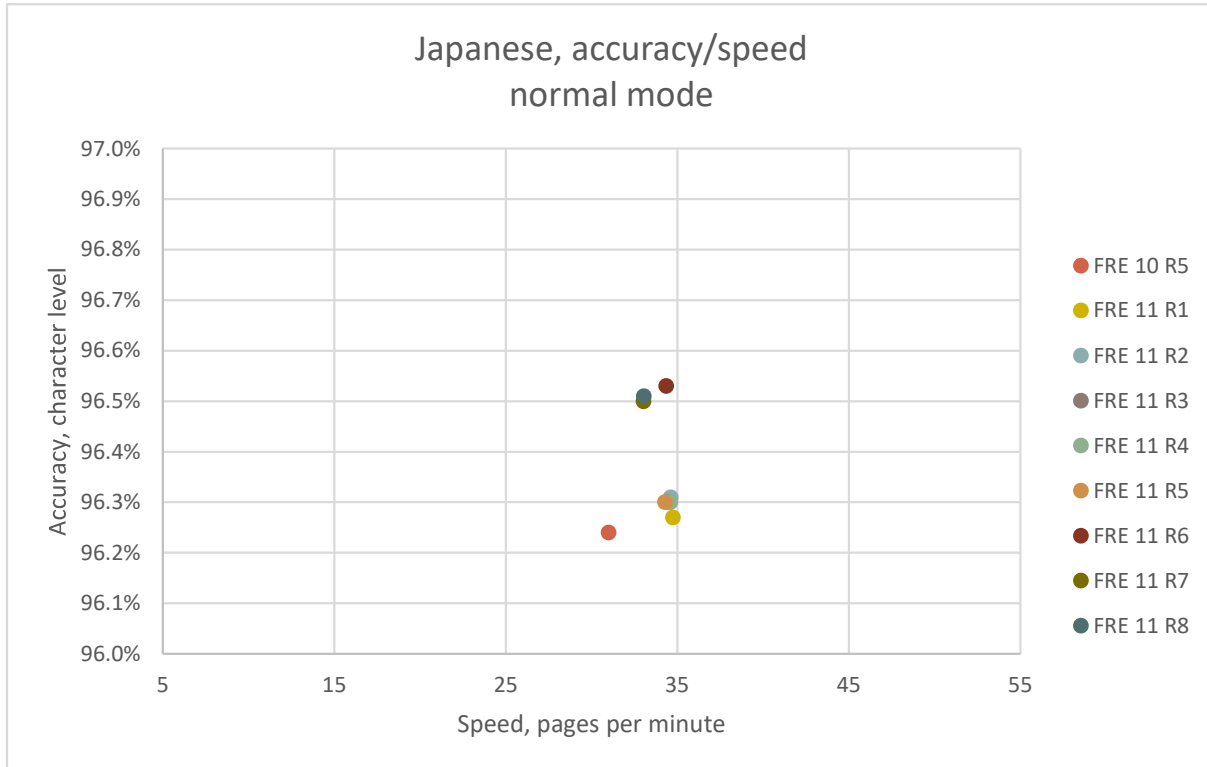
English, accuracy/speed  
normal mode



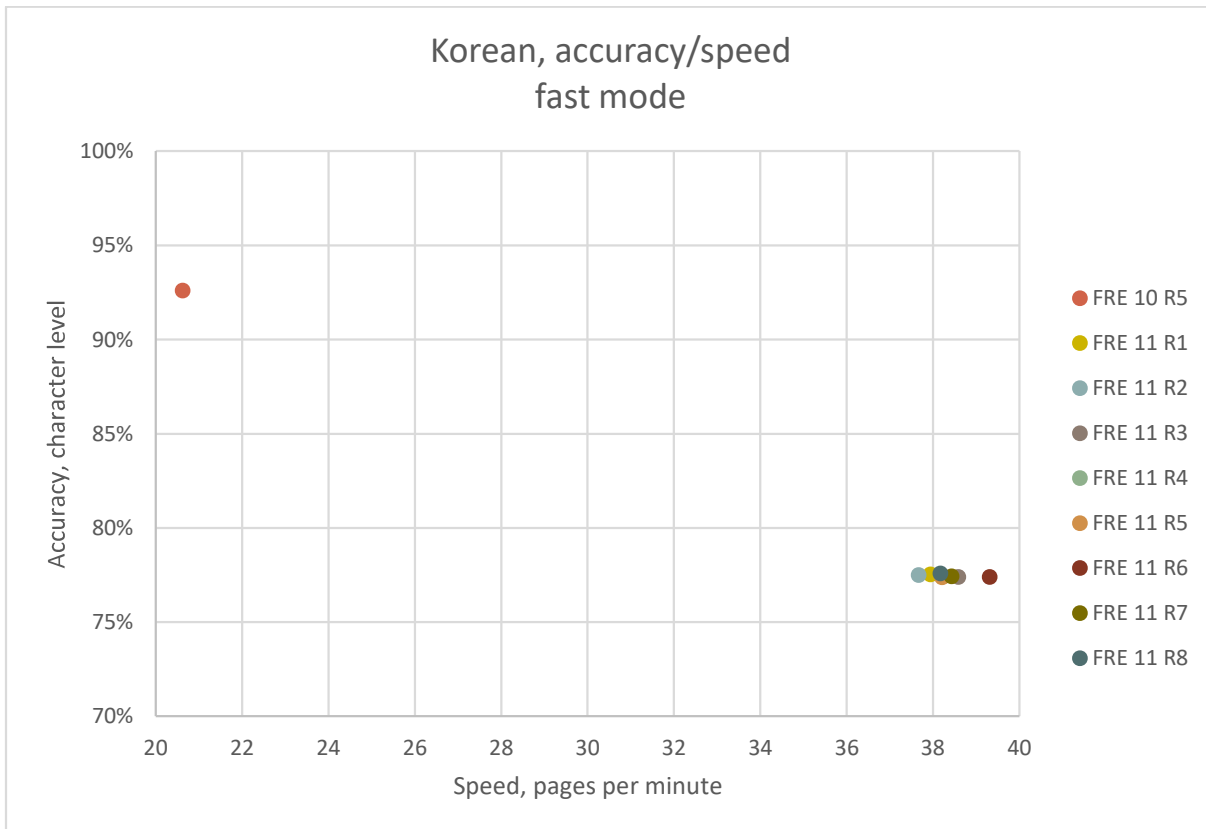
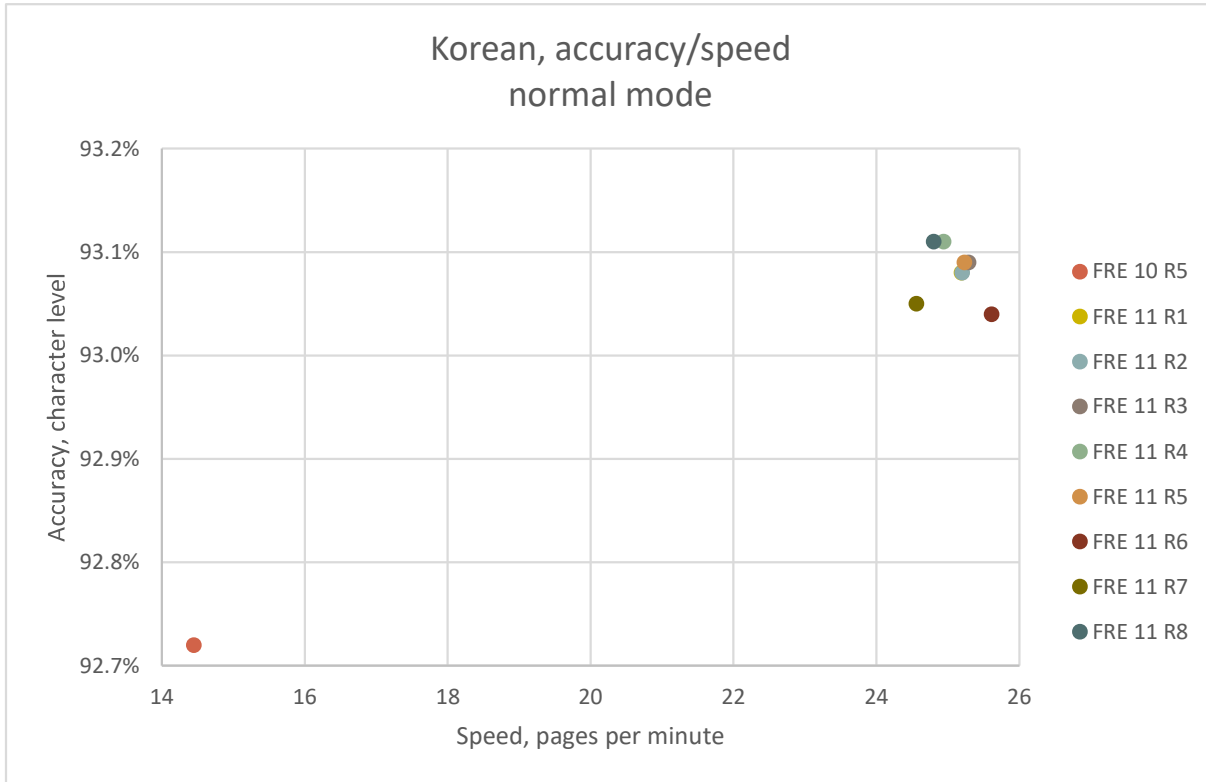
English, accuracy/speed  
fast mode



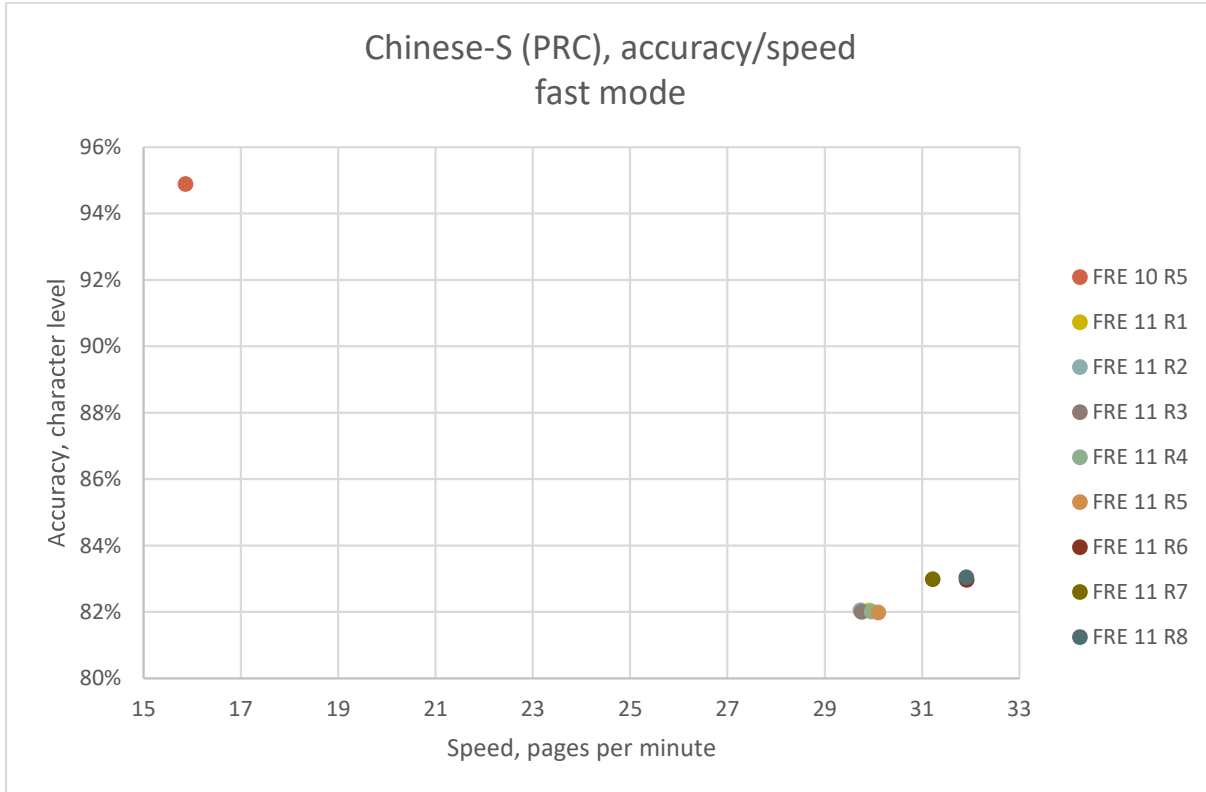
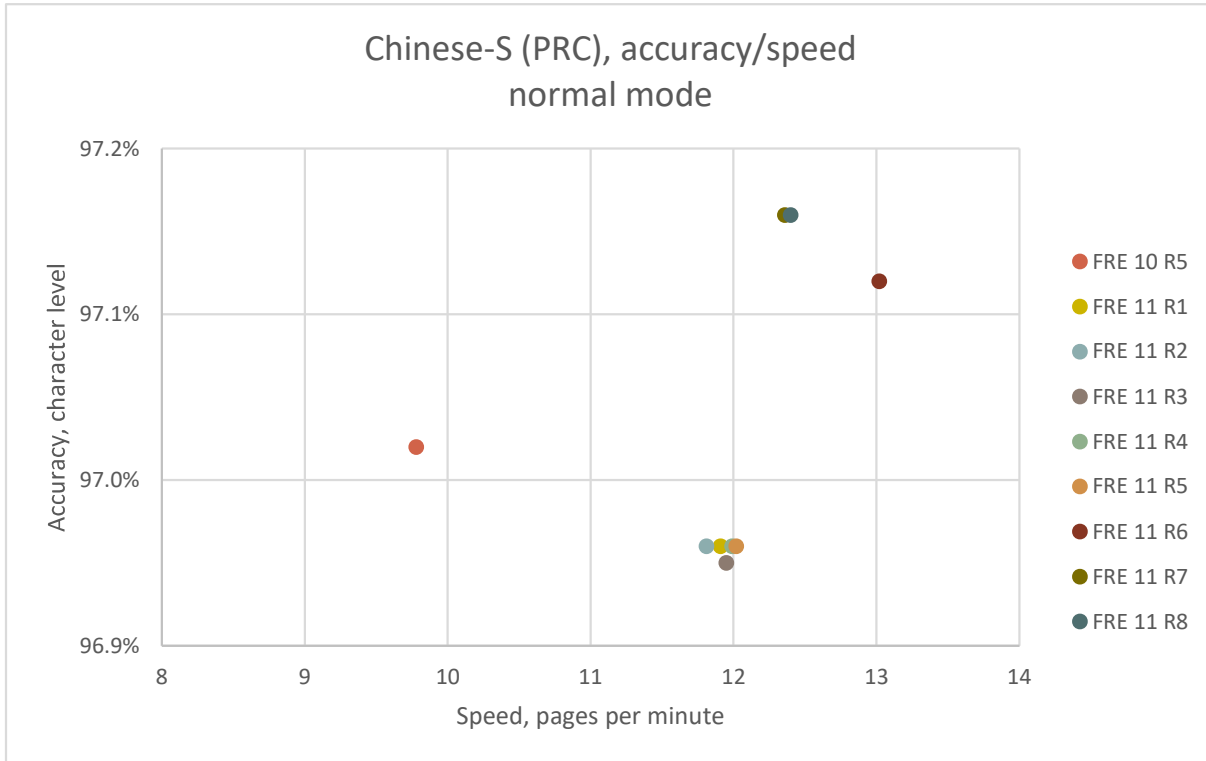
JAPANESE



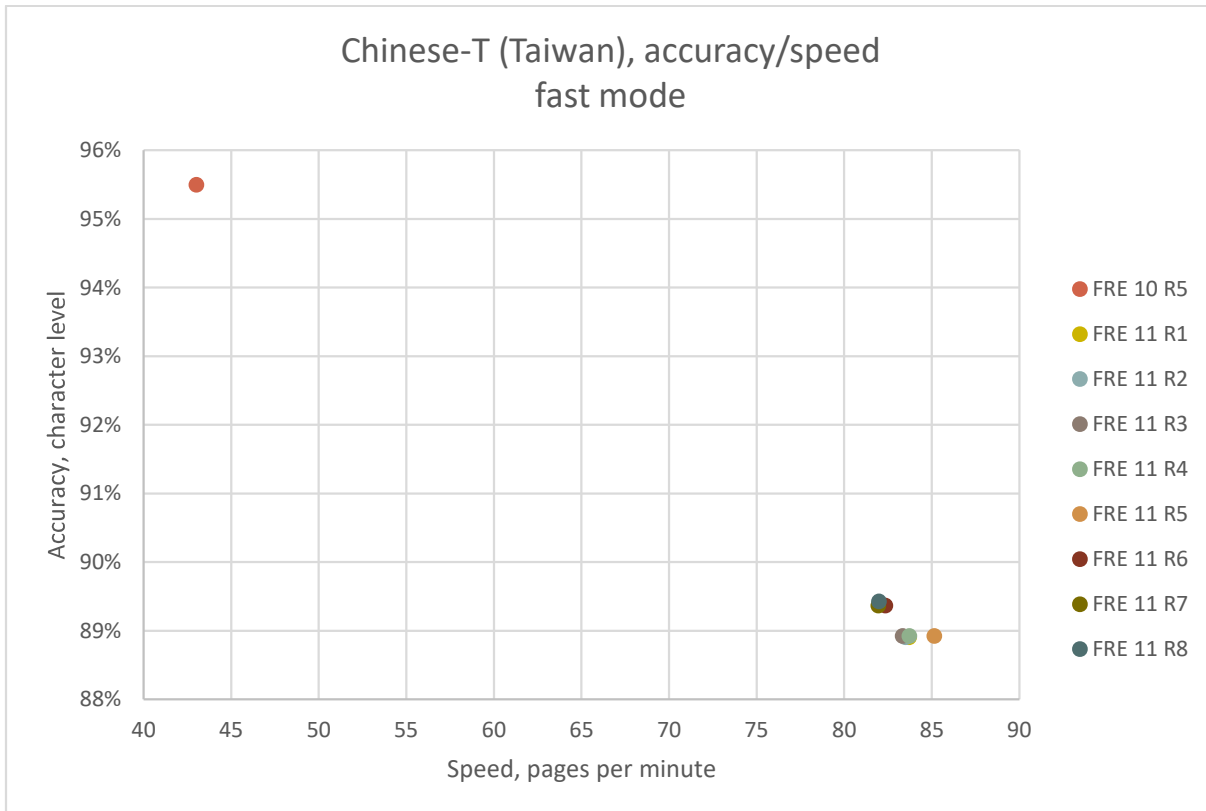
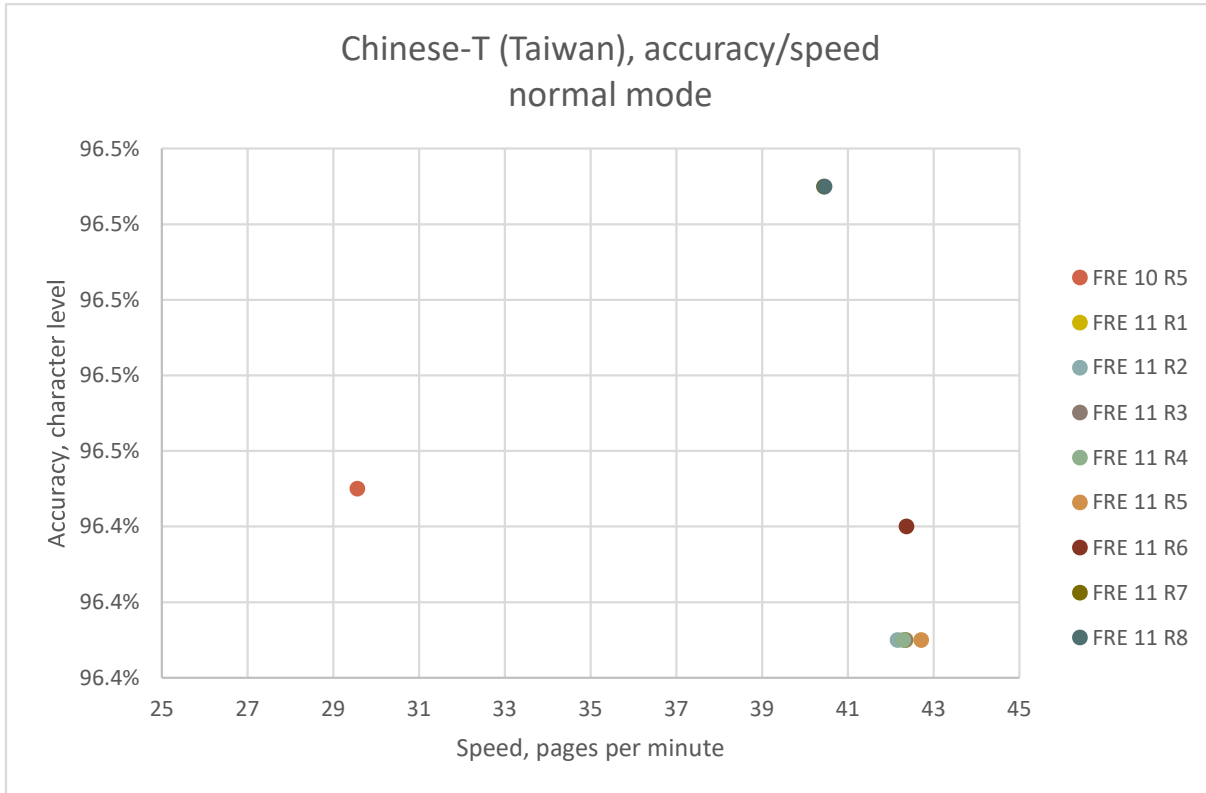
KOREAN

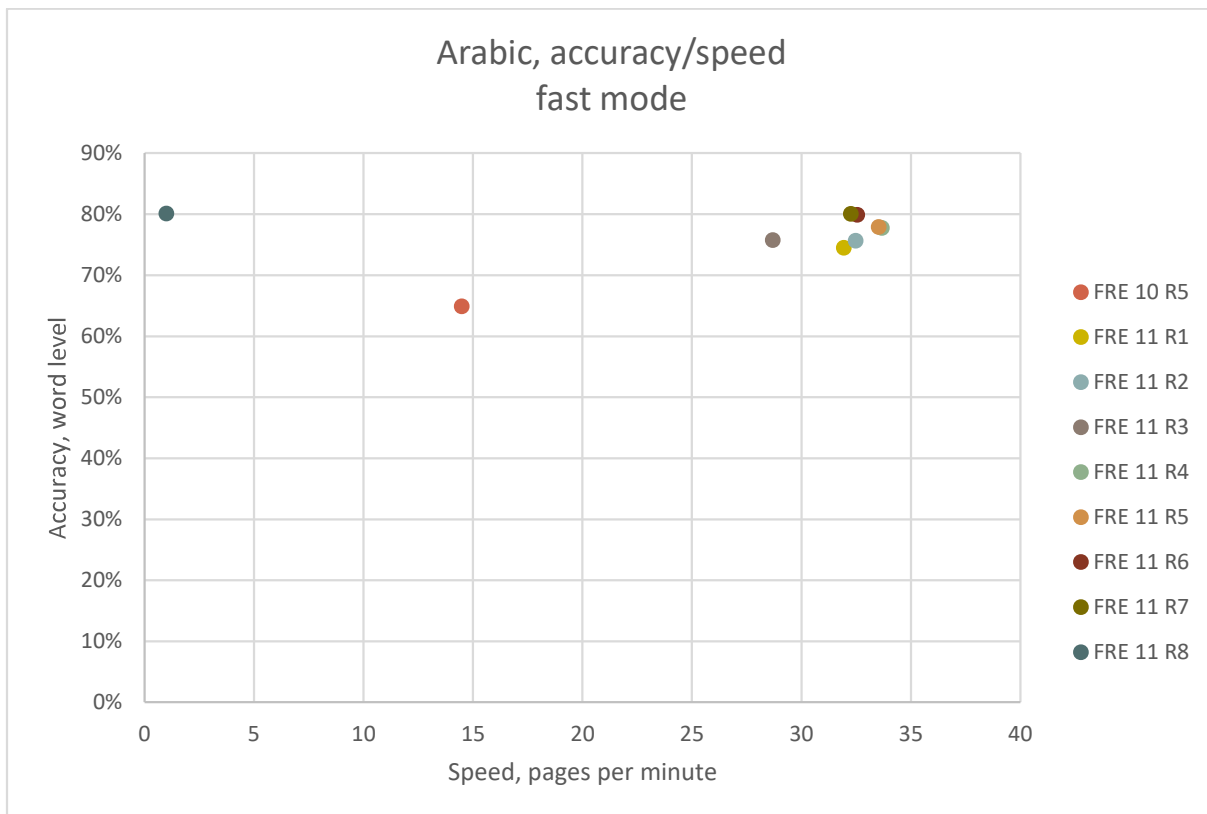
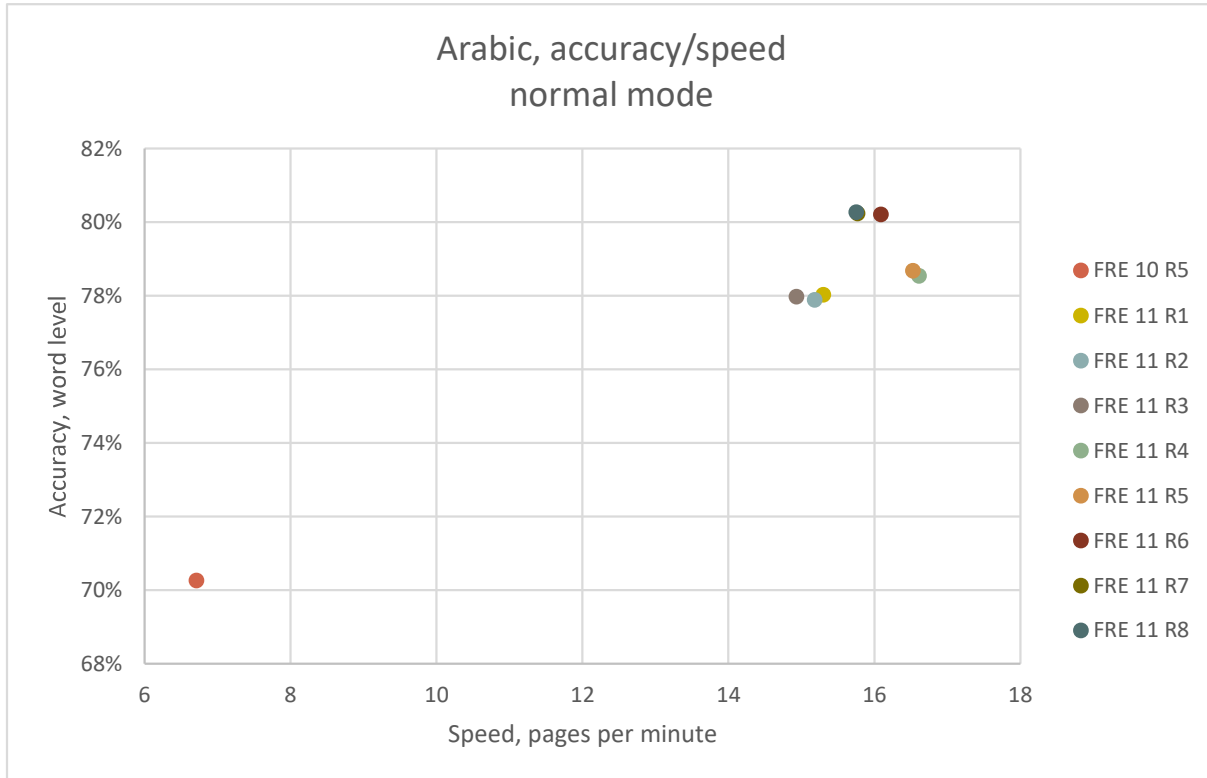


CHINESE PRC



CHINESE TAIWAN





## FIXED BUGS

This section contains a list of bugs reported by customers that have been fixed.

Four-point scale will help you to evaluate the severity of each issue, enabling you to make informed decision on how important updates are for your system.

<b>Critical</b>	A bug that causes crashes or hangings of software. Critical bugs can include access violations, internal program errors, stack overflow, out of memory or other exceptions that can lead to program failure.
<b>Major</b>	A bug that does not cause program failure but affects major functionality of a feature or impairs the system's performance. Major bugs can include disparity of the feature functionality to the internal specifications, memory leaks or data corruption.
<b>Minor</b>	A bug that leads to feature malfunctioning or affects minor functionality of the software. Minor bugs can include recognition errors, missing or lost objects, wrong color detection, incorrect document analysis, license counter errors, etc.
<b>Trivial</b>	A cosmetic issue that does not affect the functionality of the product but can cause inconveniences. Trivial bugs can include Help file errors, log errors, incomplete information in error messages, etc.

The following table contains bugs fixed in this release sorted in descending order of severity. If the bugs have workarounds, root causes or side effects, they will be mentioned in the Description section.

Severity	Description	Technology Subsystem	HD #	Office
Critical	Internal program error occurs when document structure is being read and IWord::get_Region is being used.	Document Analysis	564859	US
Critical	Internal program error occurs in Visual Components when client tries to merge and then split the paragraphs.	Recognizer	573385	US
Major	Inability to move a table region using Move method.	Document Processing	570026	RU
Major	AV error occurred on Analyze step on client's document  <b>Workaround:</b> set the parameters for not to reuse content and to detect text on pictures (SourceContentReuseMode = CRM_DoNotReuse, DetectTextOnPictures = true)	Image	569835	EU
Minor	FreeText annotation in PDF was lost during the processing.	Image	523432	US
Minor	Properties of TabPosition object that was created using TabPositions::AddNew had always have the default values.	API	560979	EU
Minor	An error on PDF documents with annotations of CPDFNullObjectImpl type.	API	567061	US
Minor	In 'Classification' in Demo Tools an AV error occurred if one tried to add to class a PDF file as an image. <b>Root cause:</b> APDFL must be used in the same thread where FRE	Samples	561740	US

	was initialized.			
Minor	Incorrect recognizing of barcodes when barcodes without start and stop symbols are processed (IsCode39WithoutAsterisk = TRUE). <b>Root cause:</b> incorrect order of hypothesizes	Barcodes	555941	EU
Minor	On client's document a part of the text was detected as images. <b>Workaround:</b> prohibit image searching using IObjectsExtractionParams::DetectTextOnPictures=true	Document Analysis	551011	3A
Minor	Too long processing of document with extremely big amount of dashes	Document Analysis	551484	EU
Minor	Several rows of the table detected as one.	Document Analysis	565558	3A
Minor	On client's document on processing with settings for detection all text on an image, including text embedded into images (ObjectsExtractionParams::DetectTextOnPictures = true), text was detected an image.	Document Analysis	569559	US
Minor	In ImageOnText mode ReplaceUncertainWordsWithImage property was not ignored despite the documentation says it must be ignored.	PDF Export	558695	US
Minor	On recognizing digits, the '^' character occurs instead of space character.  <b>Root cause:</b> the text layer of the source PDF file contains the character 65533 (FFFD) aka 'REPLACEMENT CHARACTER', which is used by our OCR engine to show the UNKNOWN (unrecognized) symbol. So, the character was used as the whitespace symbol in the PDF document (1 067,00), but our Engine shows it as '^' (1^067,00).  <b>Workaround:</b> postprocessing to replace the circumflex with the whitespace character.	Image	569910	EU
Minor	Method for straightening out distorted lines on an image (CorrectGeometricalDistortions) works incorrect on photo of receipt: the photo is stretched and non-readable.	Image	567855	RU
Minor	On exporting to PDF with parameters of page size set to be equal to the original image size, size of output page is a little bigger.	PDFToolkit	535881	US
Minor	FRE 11 returns incorrect coordinates of characters on image.  <b>Root cause:</b> internal error in algorithm for detection of rows' coordinates in case of rows consisting of one fragment.	Recognizer	557988	US
Minor	Four dots in a row were recognized as underscore or hyphen.	Recognizer	568536	3A
Minor	On client's document 'lll' was recognized as '111'.	Recognizer	569751	3A
Minor	On recognizing text with underlined words, words in the last row are not underlined in the output file.	Synthesis	569043	3A
Trivial	Wrong id for Maori language.	API	569449	EU

## KNOWN ISSUES AND WORKAROUNDS

Same as R7.

## R8 PATCH GM –

### PART NUMBER, BUILD NUMBER

Part#	1041/111
Build#	11.1.19.49

### NEW FEATURES AND IMPROVEMENTS

Same as R8.

### PERFORMANCE RESULTS

Same as R8.

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		Subsystem		
Critical	"Integer division by zero" error caused by recognizing barcode area on documents with manually changed orientatoin.	Barcodes	586835	EU
Major	Problem with zero license counter in case of license written (activated) onto a Wibu key Update.	Protection	590620	3A
Minor	Internal program error occurs in Visual Components when client tries to merge and then split the paragraphs.	PDF Export	582150	US

## KNOWN ISSUES AND WORKAROUNDS

Same as R7.

## R8 PATCH 2 GM –

### PART NUMBER, BUILD NUMBER

Part#	1041/117
Build#	11.1.19.59

## NEW FEATURES AND IMPROVEMENTS

### CHANGES IN BEHAVIOR

#### AN ABILITY TO SAVE LICENSE COUNTERS VALUE ON LICENSE

A new section 'ZeroLevel' was added into License Wizard for FCE 11. The only one available option in this section is ZeroLevel.

If this option is activated, a license counter value will be saved in ABBYY Registration Server during the license deactivation. On further activation counter will take value from ABBYY Registration Server.

### PERFORMANCE RESULTS

This section contains performance results of the release comparing to the previous releases. The processor of the testing machine is Intel® Core™ i5-4690 CPU (3.50GHz, 4 physical cores) with 8GB of RAM.

Test batches for different languages may include significantly different documents, making it impossible to accurately compare documents featuring different languages.