

Workshare Compare Server 9.7

Rendering Set Guide

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Chapter 1: Introducing Rendering Sets

This chapter introduces rendering sets.

What are Rendering Sets?

Rendering sets contain a set of parameters that define how changes are displayed in the redline (compared) document. Colors and different formats are used in the redline document to enable you to see the changes that have been made to the documents.

For example, the following indications can be used:

- Deletions in ~~red with a strikethrough~~
- Insertions in bright blue with a double underline
- Moved or cut text in ~~green with a strikethrough~~
- Pasted (copied) text in green with a double underline
- Moved deletions in ~~salmon pink with a strikethrough~~

The colors and formats adopted depend on the rendering set applied to the comparison.

Default Rendering Set

Workshare Compare Server provides a number of preconfigured server-side rendering sets including a default set, called **Standard.set**, located in the Rendering Sets folder of the virtual directory. When a comparison is performed, this default rendering set is applied unless the client call specifies rendering parameters.

You can edit the default rendering set on the server and you can also create new rendering sets as required. In order to have an alternative rendering set applied instead of **Standard.set**, the client should call `SetOptionSet` to specify what the current server-side rendering set is before a comparison is performed.

Configuring Rendering Sets

There are three ways to create a rendering set as follows:

- Use the Rendering Set Manager in the Workshare Compare desktop application to customize then save a rendering set. The Rendering Set Manager is described in the *Workshare Professional User Guide* or *Workshare Compare User Guide*.
- Manually create or modify a rendering set in a text editor using the Workshare rendering options described in *Chapter 2: Workshare Rendering Parameters*.
- Use the `/api/renderingset` endpoint of the API to convert a JSON description of selected rendering options into a rendering set. See *Chapter 3: Building Rendering Sets using the RenderingSet API*.

Chapter 2: Workshare Rendering Parameters

This chapter provides a detailed description of all the Workshare rendering parameters and their possible values.

You can use these options when creating or customizing a rendering set in a text editor which you then save to the Rendering Sets folder of the virtual directory.

Note: *The parameters ARE case sensitive and there must be no space between the parameter name and the value except the equals sign.*

Comparison Options

The Comparison Options parameters enable you to customize how the compare is performed.

Parameter	Valid values	Description
Detect List Numbering Changes=#	1 = Set 0 = Not set	If set, changes to automatically generated list numbers for numbered paragraphs are detected
Detect Footnote/Endnote Numbering Changes=#	1 = Set 0 = Not set	If set, changes to the numbering of footnotes and endnotes are detected.
Compare Headers/Footers=#	1 = Set 0 = Not set	If set, the headers and footers in the original and modified documents are compared.
Compare Footnotes=#	1 = Set 0 = Not set	If set, the footnotes in the original and modified documents are compared.
Compare at Character Level=#	1 = Set 0 = Not set	If set, words that are only slightly different from each other are compared. For example, if banana has been changed to bananas - Compare shows just an insertion of an s in the redline document, rather than showing a deletion of banana and an insertion of bananas. This is intended to catch simple typing mistakes.
Compare Numbers at Character Level=#	1 = Set 0 = Not set	As above description, but compares numbers instead of characters.
Dont Detect Headers/Footers during Conversion	1 = Set 0 = Not set	If set, headers and footers are ignored when converting a PDF for comparison. Compare reads all content on a PDF page (even headers and footers) as body content.

Parameter	Valid values	Description
Ignore Embedded Objects/Images=#	1 = Set 0 = Not set	If set, images are ignored while doing the comparison.
Ignore Case Changes=#	1 = Set 0 = Not set	If set, any case changes (for example, upper case to lower case) are not compared and the content of the modified document is shown in the redline document.
Ignore Text Boxes=#	1 = Set 0 = Not set	If set, any text boxes are not compared and the content of the modified document is shown in the redline document.
Ignore Field Codes=#	1 = Set 0 = Not set	If set, any field codes are not compared and the content of the modified document is shown in the redline document.
Compare field contents as text=#	1 = Set 0 = Not set	If set, converts certain field codes to text and then compares. If not set, compares field code only. Fields converted to text will not be subject to the IGNORE FIELD CODES parameter if that is also set.
Ignore Tables=#	1 = Set 0 = Not set	If set, any tables are not compared and the content of the modified document is shown in the redline document.
Compare Comments=#	1 = Set 0 = Not set	If set, the comments in the original and modified documents are compared.
Compare Images=#	1 = Set 0 = Not set	If set, images in the original and modified documents are compared. In order for images to be compared, you must ensure that the IGNORE EMBEDDED OBJECTS/IMAGES parameter is NOT set.

Parameter	Valid values	Description
Show Table Changes=#	1 = Set 0 = Not set	If set, table content is compared. If not set, all tables in the original will be shown as deleted and all tables in the modified will be shown as inserted.
Ignore Numbered List Style=#	1 = Set 0 = Not set	If set, when an automatically formatted list is being compared against a manual list, any changes in the manual list are ignored.
Remove Pages Without Changes=#	1 = Set 0 = Not set	If set, the output PDF redline will only contain the first page plus those pages that have changes on them. This only applies to PDF output formats.
Use classic table comparison=#	1 = Set 0 = Not set	If set, tables are compared as they were in releases prior to Workshare Compare Server 9.5.6. The Compare Server 9.5.6 release introduced an updated method of table comparison that creates more readable results in the vast majority of cases.
PDF Markup Annotation Conversion Type	textbox, comment, never	Determines how PDF markup (such as comments) is converted and shown in the redline. When textbox is set, PDF comments will be converted into textbox format, when comment is set, PDF comments will be converted into normal comment format and when never is set, PDF comments are not converted at all so they will be ignored in the redline.
Convert Source Documents Concurrently	1 = Set 0 = Not set	If set, source documents are converted (prepared for comparison) at the same time. If not set (default), source documents are converted one after the other.

Redline Options

The Redline Options parameters enable you to customize how the redline document is displayed and what information is included with the redline document.

Parameter	Valid values	Description
Include Redline Statistics=#	1 = Set 0 = Not set	If set, statistics about the changes between the original and modified documents are displayed in the redline document.
Redline Statistics at Start of Document=#	1 = Start of document 0 = End of document	You can select to display these statistics at the start of the document or at the end of the document.
Include Redline Comparison Summary=#	1 = Set 0 = Not set	If set, a summary of all the changes is displayed at the end of the redline document.
Include Redline Options Summary=#	1 = Set 0 = Not set	If set, a summary of the options selected in the current rendering set is displayed at the end of the redline document in the statistics report.
Display Workshare Compare Footers=#	1 = Set 0 = Not set	If set, details about the two documents being compared are displayed in the footer of the redline document.
Show Moved Deletions=#	1 = Set 0 = Not set	If set, text that was deleted from a section of the document and then subsequently moved to a new location is indicated.
Show Changes to Spaces=#	1 = Set 0 = Not set	If set, any extra spaces that have been added to or deleted from the modified document are indicated.
Show Paragraph Changes=#	1 = Set 0 = Not set	If set, paragraph markers (¶) of any extra paragraphs that have been added to or deleted from the modified document are displayed.

Parameter	Valid values	Description
Rendering Set Name=#		The name of the rendering set that appears in the redline summary.
Include file names in Redline statistics	1 = Set 0 = Not set	If set, the names of the compared documents are included in the redline statistics.
Black And White Headers	1 = Set 0 = Not set	If set, changes detected in the header are rendered in black and white. The color scheme set up in the rendering set is maintained for changes to all other parts of the document.
Black And White Footers	1 = Set 0 = Not set	If set, changes detected in the footer are rendered in black and white. The color scheme set up in the rendering set is maintained for changes to all other parts of the document.
Show Only Summary=#	1 = Set 0 = Not set	If set, only the redline summary (containing a list of all the changes) is displayed. No redline document is shown.

Readability Options

The Readability Options parameters enable you to set at what point insertions and deletions should no longer be marked individually but marked as an entire paragraph deleted followed by an entire paragraph inserted. The deleted paragraph is as the paragraph appears in the original document and the inserted paragraph is as the paragraph appears in the modified document.

For example, the following paragraph showing numerous deletions and insertions is quite difficult to read:

DeltaView Redline with Table of Contents: (Vendor)When performing a redline where the document contains an ~~contents issue: An error occurs in the number of bullet points when DeltaView does a redline on a document where the table of contents is automatically generated~~ ~~Table of Contents, the DeltaView output does not number the sections properly. This happens in DeltaView or if the file format is *.wdf.~~ **Workaround:** Save the redline ~~Word. Workaround: Save the table of contents in as a new document or email the redline as a Word document, it formats correctly. We are working with the vendor for a resolution.~~ **DOC file and open it in Word before printing.**

It would be much easier to read this paragraph if it was presented as the entire paragraph deleted followed by a new paragraph inserted, as follows:

~~DeltaView Redline with Table of Contents: (Vendor)When performing a redline where the document contains an automatically generated Table of Contents, the DeltaView output does not number the sections properly. This happens in DeltaView or if the file format is *.wdf. **Workaround:** Save the redline as a new document or email the redline as a Word document, it formats correctly. We are working with the vendor for a resolution.~~

DeltaView Table of contents issue: An error occurs in the number of bullet points when DeltaView does a redline on a document where the table of contents is automatically generated in Word. Workaround: Save the table of contents in as a DOC file and open it in Word before printing.

Obviously, if there were only a few deletions and insertions in a paragraph, then the first example is easy to read.

You can specify at what point Compare no longer marks deletions and insertions individually but marks the entire paragraph as a deletion followed by the new paragraph as an insertion. You specify this by setting a readability percentage.

Parameter	Valid values	Description
Paragraph Matched Text Threshold=#	0 - 100	<p>With threshold set at 10: Compare will mark insertions and deletions individually unless 90% of the paragraph has changed. In other words, in most circumstances paragraphs will be displayed in the same way as the first example shown previously. Only when more than 90% of the paragraph has changed will Compare display the paragraph as the second example.</p> <p>With threshold set at 50: Compare will mark insertions and deletions individually unless 50% of the paragraph has changed. In other words, paragraphs will be displayed in the same way as the first example shown previously unless more than 50% of the paragraph has changed.</p> <p>With threshold set at 90: Compare will mark insertions and deletions individually unless 10% of the paragraph has changed. In other words, in most circumstances paragraphs will be displayed in the same way as the second example shown previously. Only when less than 10% of the paragraph has changed will Compare display the paragraph as the first example.</p>

Parameter	Valid values	Description
SINGLE COLUMN CONVERSION=#	1 = Set 0 = Not set	If set, columns are not detected in PDF source documents. This prevents potential inaccuracies that may occur if columns are detected when there are none. With this parameter set, if text looks like columns, an alternate approach is used to lay it out (such as a table or tabs). The default is off (0).

Compare looks at each paragraph separately and assesses its readability according to the number of changes in the paragraph.

Note: When working with tables, Compare does not treat the entire table as a paragraph. Each paragraph within each cell is treated separately.

Readability only applies to paragraphs that contain both inserted and deleted text because such paragraphs may be unclear whereas paragraphs with only insertions or deletions do not have such readability problems.

Inserted Text Format

The Inserted Text Format parameters enable you to customize how you would like inserted text to appear in the redline document.

Parameter	Valid values	Description
Inserted Text Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of inserted text.
Inserted Text Background=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of the background of inserted text.

Parameter	Valid values	Description
Inserted Text Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of inserted text.
Inserted Text Surrounding Start Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before inserted text.
Inserted Text Surrounding End Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after inserted text.

Deleted Text Format

The Deleted Text Format parameters enable you to customize how you would like deleted text to appear in the redline document.

Parameter	Valid values	Description
Deleted Text Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of deleted text.
Deleted Text Background=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of the background of deleted text.

Parameter	Valid values	Description
Deleted Text Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of deleted text.
Replace Deleted Text with a Single Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	If set, deleted text is replaced with a single character. Specify the required character in the DELETED TEXT REPLACEMENT CHARACTER parameter. For example, if the word compare is deleted and the character specified is X, the word appears as X.
Deleted Text Replacement Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	The character used to replace deleted text. If the REPLACE DELETED TEXT WITH A SINGLE CHARACTER parameter is set, the deleted text is replaced with a single instance of the character specified. If the REPLACE DELETED TEXT WITH SINGLE CHARACTER parameter is not set, each character in the deleted text is replaced with the character specified. For example, if the word “compare” is deleted and the character specified is X, the word appears as XXXXXXXX.
Deleted Text Surrounding Start Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before deleted text.
Deleted Text Surrounding End Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after deleted text.

Parameter	Valid values	Description
<code>Include summary of deletions=#</code>	1 = Set 0 = Not set	If set, a summary of deletions is included with the redline document.

Moved Text Format

The Moved Text Format parameters enable you to customize how you would like moved text to appear in the redline document.

Parameter	Valid values	Description
<code>Show Movements=#</code>	1 = Set 0 = Not set	If set, moved text is shown in the redline document. If not set, then any text that has been moved is displayed the same as inserted and deleted text.
<code>Moved Text Color=#</code>	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of moved source text.
<code>Moved Text Background=#</code>	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of the background of moved source text.
<code>Moved Destination Text Color=#</code>	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of moved destination text.

Parameter	Valid values	Description
Moved Source Text Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of moved text to show its source.
Moved Destination Text Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of moved text to show its destination.
Moved Source Text Surrounding Start Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before moved text to show its source.
Moved Source Text Surrounding End Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after moved text to show its source.
Moved Destination Text Surrounding Start Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before moved text to show its destination.
Moved Destination Text Surrounding End Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after moved text to show its destination.

Font Change Format

The Font Change Format parameters enable you to customize how you would like any font changes to appear in the redline document.

Parameter	Valid values	Description
Show Font Changes=#	1 = Set 0 = Not set	If set, font changes are shown in the redline document.
Font Change Text Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of font changes.
Font Change Text Background=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of the background of font changes.
Font Change Text Surrounding Start Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before font changes.
Font Change Text Surrounding End Character=#	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after font changes.

Note: Insertions and deletions override any font changes. For example, if the modified document has new inserted text in a different font, it appears as inserted text and not as font change text.

Style Change Format

The Style Change Format parameters enable you to customize how you would like any style changes to appear in the redline document.

Parameter	Valid values	Description
Show Paragraph Style Changes=#	1 = Set 0 = Not set	If set, paragraph style changes are shown in the redline document. Paragraph style changes are indicated in words, for example, normal to heading two.
Style Changed Label Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of text in paragraphs where the paragraph style has changed.
Show Character Style Changes=#	1 = Set 0 = Not set	If set, character style changes are shown in the redline document.
Style Changed Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of character style changes.
Style Changed Background=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of the background of character style changes.
Style Changed Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of character style changes.

Parameter	Valid values	Description
<code>Style Changed Surrounding Start Character=#</code>	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go before style changes.
<code>Style Changed Surrounding End Character=#</code>	ASCII Character. Refer to Appendix B: ASCII Character Codes .	A keyboard character to go after style changes.

Table Cell Format

The Table Cell Format parameters enable you to customize how you would like any format changes in tables to appear in the redline document.

Parameter	Valid values	Description
<code>Show Surrounding Chars in Tables=#</code>	1 = Set 0 = Not set	The way changes in tables are indicated.
<code>Show only the modified table=#</code>	1 = Set 0 = Not set	The modified table is shown in the redline document as a new table but it is shown as an insertion.

Note: This option only works if `SHOW TABLE CHANGES=0` and `SHOW ONLY THE MODIFIED TABLE=1`. If both `SHOW ONLY THE MODIFIED TABLE` and `SHOW ONLY THE MODIFIED TABLE (UNMARKED)` are specified as 0 then the effect is that both the original and the modified tables are shown in the redline document.

Parameter	Valid values	Description
Show only the modified table (Unmarked)=#	1 = Set 0 = Not set	The modified table is shown in the redline document as a new table with no changes marked.
<p>Note: This option only works if <i>SHOW TABLE CHANGES=0</i>, <i>SHOW ONLY THE MODIFIED TABLE=1</i> and <i>SHOW ONLY THE MODIFIED TABLE (UNMARKED)=1</i>. If both <i>SHOW ONLY THE MODIFIED TABLE</i> and <i>SHOW ONLY THE MODIFIED TABLE (UNMARKED)</i> are specified as 0 then the effect is that both the original and the modified tables are shown in the redline document.</p>		
Table Cell Inserted Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of inserted cells.
Table Cell Deleted Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of deleted cells.
Table Cell MOVED Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of moved cells.
Table Cell Merged Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of merged cells.

Parameter	Valid values	Description
Table Cell Padding Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of padding cells.

What are Padding Cells?

The padding cell exists in neither the original or modified version of the table, but is required in the redline view of the table to allow it to be laid out correctly.

Original Table

Cell 1	Cell 2	Cell 3
Cell 4	Cell 5	Cell 6

Modified Table

Cell 1	Cell 3
Cell A	Cell B
Cell 4	Cell 6

Rendered Table

Cell 1	Cell 2	Cell 3
<u>Cell A</u>	PADDED CELL	<u>Cell B</u>
Cell 4	Cell 5	Cell 6

Change Numbering Format

The Change Numbering Format parameters enable you to select whether change numbers are shown in the redline document and, if so, how they appear.

Parameter	Valid values	Description
Show Change Numbering=#	1 = Set 0 = Not set	If set, the number of the change is displayed next to each change in the redline document.
Show Change Numbering before Change=#	1 = Set 0 = Not set	If set, the change number is displayed before the change. If not set, the change number is displayed after the change. It is recommended to position the change number before the change as footnotes often appear after text. This reduces confusion.
Change Number Text Color=#	Decimal. Convert RGB value to decimal. Refer to Appendix C: Decimal Color Values .	The color of change numbers.
Change Number Text Format=#	1 = Underline 2 = Bold 4 = Italic 8 = Strikethrough 16 = Superscript 32 = Subscript 256 = Double underline 512 = Double strikethrough	The format of change numbers.

WDF Creation Options

Parameter	Valid values	Description
OriginalDocId	Text, any valid Workshare Document ID	The source of the original document used in the comparison, for example: file://c:\documents and settings\username\documents\test.docx.
ModifiedDocId	Text, any valid Workshare Document ID	The source of the modified document used in the comparison.

Chapter 3: Building Rendering Sets using the RenderingSet API

This chapter provides a detailed description of the JSON rendering options.

You can use the `/api/renderingset` endpoint of the API to convert a JSON description of selected rendering options into a rendering set.

Specifying Rendering Options using JSON

The JSON rendering options that are accepted by the `api/renderingset` endpoint provide a more developer-friendly way of specifying the rendering options to be used for a comparison. Each JSON value corresponds to a Workshare rendering parameter as documented in *Chapter 2*. The table below shows the mapping between JSON options and Workshare rendering parameters and the type of data that should be specified for each JSON option

The different types of JSON options are as follows:

- **Boolean:** true/false
- **Character:** Any text string enclosed in quotes, but only 1 character long, ie "[
- **Integer:**
- **Color:** Hex color code or HTML color name. For a list of named colors <https://htmlcolorcodes.com/color-names/>
- **Text highlight style:** For example, "Underline", "Bold", "Italic", "Strikethrough", "DoubleUnderline", "DoubleStrikethrough"
- **String:** Any text string enclosed in quotes, ie "zarniwoop"

JSON option	Type	Rendering parameter
CellDeleteColor	Color	Table Cell Deleted Color
CellInsertColor	Color	Table Cell Inserted Color
CellMergeColor	Color	Table Cell Merged Color
CellMoveColor	Color	Table Cell Moved Color
CellPaddingColor	Color	Table Cell Padding Color
ChangeNumber_TextColor	Color	Change Number Text Color
ChangeNumber_TextDecoration	Text Highlight Style	Change Number Text Format
ChangeNumberBeforeChange	Boolean	Show Change Numbering before Change
CompareAtCharacterLevel	Boolean	Compare at Character Level
CompareCaseInsensitive	Boolean	Ignore Case Changes
CompareFootnotes	Boolean	Compare Footnotes
CompareHeaderAndFooters	Boolean	Compare Headers/Footers

JSON option	Type	Rendering parameter
CompareImages	Boolean	Compare Images
CompareNumbersAtCharacterLevel	Boolean	Compare Numbers at Character Level
CompareTablesAtTheCellLevel	Boolean	Show Table Changes
CompareTextBoxContent [Note:Inverted]	Boolean	Ignore Text Boxes
CompressDeletionsToSingleCharacter	Boolean	Replace Deleted Text with a Single Character
ConvertSourceDocumentsConcurrently	Boolean	Convert Source Documents Concurrently
Deletion_BackColor	Color	Deleted Text Background
Deletion_SurroundingEndChar	Character	Deleted Text Surrounding End Character
Deletion_SurroundingStartChar	Character	Deleted Text Surrounding Start Character
Deletion_TextColor	Color	Deleted Text Color
Deletion_TextDecoration	Text Highlight Style	Deleted Text Format
DeletionReplacementCharacter	Character	Deleted Text Replacement Character
DetectChangesToComments	Boolean	Display Comments in redline
DetectChangesToFieldCodes [Note:Inverted]	Boolean	Ignore Field Codes
DetectCharacterStyleChanges	Boolean	Show Character Style Changes
DetectFontChanges	Boolean	Show Font Changes
DetectListNumberChanges	Boolean	Detect List Numbering Changes
DetectMoves	Boolean	Show Movements
DetectNoteNumberingChanges	Boolean	Detect Footnote/Endnote Numbering Changes
DetectParagraphChanges	Boolean	Show Paragraph Changes

JSON option	Type	Rendering parameter
DetectParagraphStyleChanges	Boolean	Show Paragraph Style Changes
DetectWhitespaceChanges	Boolean	Show Changes to Spaces
FormatChange_BackColor	Color	Font Change Text Background
FormatChange_SurroundingEndChar	Character	Font Change Text Surrounding End Character
FormatChange_SurroundingStartChar	Character	Font Change Text Surrounding Start Character
FormatChange_TextColor	Color	Font Change Text Color
IgnoreChangesInTablesEntirely	Boolean	Ignore Tables
IgnoreEmbeddedObjectsAndImagesWhenReadingSourceDocs	Boolean	Ignore Embedded Objects/Images
IgnoreImagesWhenReadingSourceDocs	Boolean	Ignore Images
IgnoreNumberedListStyle	Boolean	Ignore Numbered List Style
InfoTablesAtStart	Boolean	Redline Statistics at Start of Document
InsertChangeMarkersInCells	Boolean	Show Surrounding Chars in Tables
Insertion_TextDecoration	Text Highlight Style	Inserted Text Format
InsertionBackColor	Color	Inserted Text Background
InsertionSurroundingEndChar	Character	Inserted Text Surrounding End Character
InsertionSurroundingStartChar	Character	Inserted Text Surrounding Start Character
InsertionTextColor	Color	Inserted Text Color
MakeFootersBlackAndWhite	Boolean	Black And White Footers
MakeHeadersBlackAndWhite	Boolean	Black And White Headers
ModifiedDocId	String	ModifiedDocId

JSON option	Type	Rendering parameter
MoveDestination_BackColor	Color	Moved Destination Text Background
MoveDestination_SurroundingEndCharacter	Character	Moved Destination Text Surrounding End Character
MoveDestination_SurroundingStartCharacter	Character	Moved Destination Text Surrounding Start Character
MoveDestination_TextColor	Color	Moved Destination Text Color
MoveDestination_TextDecoration	Text Highlight Style	Moved Destination Text Format
MoveSource_BackColor	Color	Moved Text Background
MoveSource_SurroundingEndCharacter	Character	Moved Source Text Surrounding End Character
MoveSource_SurroundingStartCharacter	Character	Moved Source Text Surrounding Start Character
MoveSource_TextColor	Color	Moved Text Color
MoveSource_TextDecoration	Text Highlight Style	Moved Source Text Format
NoHeadersFootersConversionFromPdf	Boolean	Dont Headers/Footers Detect during Conversion
OriginalDocId	String	OriginalDocId
ParagraphTextMatchThresholdPercent	Integer	Paragraph Matched Text Threshold
PDFMarkupAnnotConversionType	String	PDF Markup Annotation Conversion Type
RemovePagesWithoutChanges	Boolean	Remove Pages Without Changes
RenderingSetName	String	Rendering Set Name
ShowChangeNumbers	Boolean	Show Change Numbering

JSON option	Type	Rendering parameter
ShowDeletionsAdjacentToMovesAtTheMoveDestination	Boolean	Show Moved Deletions
ShowDeletionSummaryTable	Boolean	Include summary of deletions
ShowFileNamesInStatsTable	Boolean	Include file names in Redline statistics
ShowModifiedTableOnly	Boolean	Show only the modified table
ShowModifiedTableOnlyWithNoHighlighting	Boolean	Show only the modified table (Unmarked)
ShowOnlySummary	Boolean	Show Only Summary
ShowRedlineOptionsSummaryTable	Boolean	Include Redline Options Summary
ShowStatistics	Boolean	Include Redline Statistics
ShowSummary	Boolean	Include Redline Comparison Summary
SingleColumnConversionFromPdf	Boolean	Single Column Conversion
StyleChange_BackColor	Color	Style Changed Background
StyleChange_TextColor	Color	Style Changed Color
StyleChange_TextDecoration	Text Highlight Style	Style Changed Format
StyleChangedSurroundingEndChar	Character	Style Changed Surrounding End Character
StyleChangedSurroundingStartChar	Character	Style Changed Surrounding Start Character
StyleLabel_TextColor	Color	Style Changed Label Color
TurnSelectedFieldsToTextToAllowChangesInFieldResultToBeShown	Boolean	Compare field contents as text
UseWorkshareComparisonFooter	Boolean	Display Workshare Compare Footers
UseClassicTableComparison	Boolean	Use classic table comparison

Appendix A. Reports

This appendix describes the reports and statistics that can be included with comparisons.

Document Comparison Report

This report is displayed at the end of all redline documents.

Document comparison by Workshare on 26 March 2019 13:55:48	
Input:	
Document 1 ID	
Description	
Document 2 ID	
Description	
Rendering set	Unknown
Legend:	
<u>Insertion</u>	
Deletion	
<u>Moved from</u>	
<u>Moved to</u>	
Style change	
Format change	
Moved-deletion	
Inserted cell	
Deleted cell	
Moved cell	
Split/Merged cell	
Padding cell	

Document Comparison Report

Redline Statistics

If the option **ShowStatistics/Include Redline Statistics** is set, the following report is included in the redline document.

Statistics:	
	Count
Insertions	51
Deletions	47
Moved from	8
Moved to	8
Style change	0
Format changed	0
Total changes	114

Redline Statistics

Summary of Deletions

If the option **ShowDeletionSummaryTable/Include summary of deletions** is set, the following report is included in the redline document.

Summary of deletions:	
Document comparison done by Workshare on 06 August 2014 18:02:45	
1	Sirs
3	The Lead Manager confirms that, in connection with the proposed issue of the Securities, it is aware of guidance relating to due diligence issued by the International Primary Market Association from time to time, which will be followed by it in connection with the proposed issue.
4	6.
5	7.
12	provide
14	³
15	³ If specific procedures and appropriate terms (e.g. as to timing and fees) are agreed between all parties, the accountants may undertake work in relation to these items.

Summary of Deletions

Redline Summary

If the option **ShowSummary/Include Redline Comparison Summary** is set, the following report is included in the redline document.

Redline Summary:		
No.	Change	Text
1-2	Change	Dear Sirs <u>Sir/Madam</u> ,
3	Deletion	5. The Lead Manager...with the proposed issue.
4	Insertion	<u>letter was undertaken negligently.</u>
5-6	Insertion	<u>7. Any such claims for...by our lawyers.</u>
7	Moved from	14. Our work will, where...guidance]. In other jurisdictions, standards
8	Insertion	<u>body in any other jurisdiction.</u>
9	Moved to	<u>Our work will, where...guidance].</u>
10-11	Change	subject to agreement of terms, provide <u>providing</u> other services in connection

Redline Summary

Redline Options

If the option **ShowRedlineOptionsSummaryTable/Include Redline Options Summary** is set, the following report is included in the redline document.

Redline options:	
	Status
Redline Statistics at End of Document	ON
Include Redline Comparison Summary	ON
Show Line Numbering	OFF
Show Change Numbers	OFF
Show Change Bars On Left	ON
Show Hidden Text	OFF
Detect List Numbering Changes	ON
Compare Headers/Footers	ON
Compare Footnotes	ON
Display Workshare Footers	ON
Ignore Embedded Objects/Images	OFF
Compare at Character Level	OFF
Compare Numbers at Character Level	OFF
Show Moved Deletions	OFF
Show Changes to Spaces	OFF
Show Paragraph Changes	OFF
Ignore Case Changes	OFF
Ignore Textboxes	OFF
Ignore Field Codes	OFF
Ignore Tables	OFF

Redline Options

Display Workshare Footers

If the option **UseWorkshareComparisonFooter/Display Workshare Compare Footers** is set, details of the compared document are displayed in the footer of each page of the redline document.

1..... Workshare comparison of Sample Document_OriginalFile.doc and Sample Document_ModifiedFile.doc. Performed on 06/08/2014.
--

Sample Workshare Footer

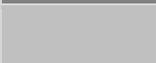
Appendix B. ASCII Character Codes

This is a list of the ASCII codes used when specifying Compare rendering parameters.

Code	Char	Code	Char	Code	Char	Code	Char	Code	Char
33	!	52	4	71	G	90	Z	109	m
34	"	53	5	72	H	91	[	110	n
35	#	54	6	73	I	92	\	111	o
36	\$	55	7	74	J	93	]	112	p
37	%	56	8	75	K	94	^	113	q
38	&	57	9	76	L	95	_	114	r
39	'	58	:	77	M	96	`	115	s
40	(	59	;	78	N	97	a	116	t
41	)	60	<	79	O	98	b	117	u
42	*	61	=	80	P	99	c	118	v
43	+	62	>	81	Q	100	d	119	w
44	,	63	?	82	R	101	e	120	x
45	-	64	@	83	S	102	f	121	y
46	.	65	A	84	T	103	g	122	z
47	/	66	B	85	U	104	h	123	{
48	0	67	C	86	V	105	i	124	|
49	1	68	D	87	W	106	j	125	}
50	2	69	E	88	X	107	k	126	~
51	3	70	F	89	Y	108	l		

Appendix C. Decimal Color Values

The following table provides sample decimal values for color parameters.

Color Name	Swatch	Hex Code	RGB Code	Decimal Value
black		#000000	rgb(0, 0, 0)	0
gray		#808080	rgb(128, 128, 128)	8421504
silver		#C0C0C0	rgb(192, 192, 192)	12632256
white		#FFFFFF	rgb(255, 255, 255)	16777215
maroon		#800000	rgb(128, 0, 0)	128
red		#FF0000	rgb(255, 0, 0)	255
olive		#808000	rgb(128, 128, 0)	32896
yellow		#FFFF00	rgb(255, 255, 0)	65535
green		#008000	rgb(0, 128, 0)	32768
lime		#00FF00	rgb(0, 255, 0)	65280
teal		#008080	rgb(0, 128, 128)	8421376
aqua		#00FFFF	rgb(0, 255, 255)	16776960
navy		#000080	rgb(0, 0, 128)	8388608
blue		#0000FF	rgb(0, 0, 255)	16711680
purple		#800080	rgb(128, 0, 128)	8388736
fuchsia		#FF00FF	rgb(255, 0, 255)	16711935

Note: Workshare Compare Server utilizes Microsoft Access code values for the decimal values for color parameters, which can be calculated directly from the RGB code value as: **Decimal Value = R + (G * 256) + (B * 65536)**

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Workshare Ltd., 20 Fashion Street, London E1 6PX www.workshare.com