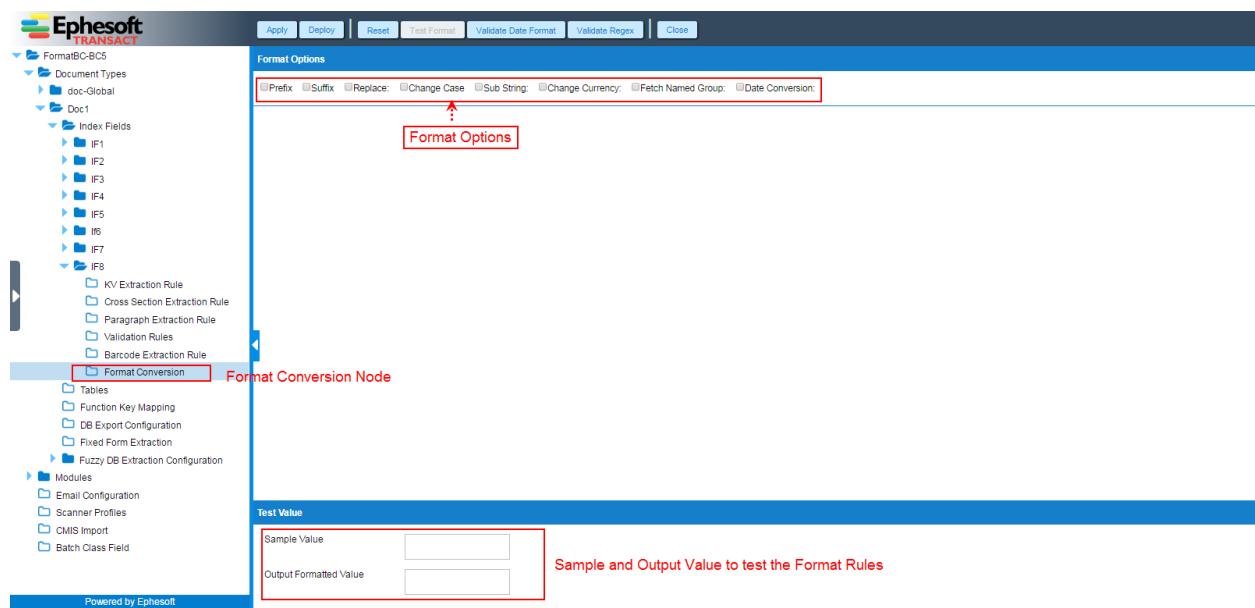


Format Conversion

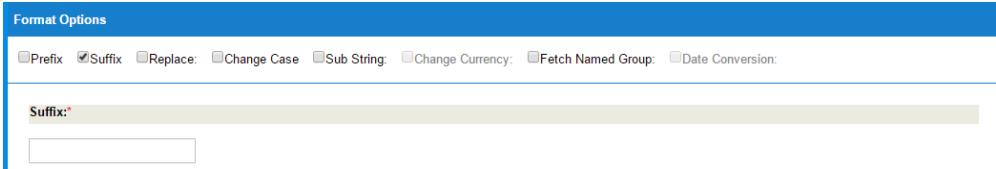
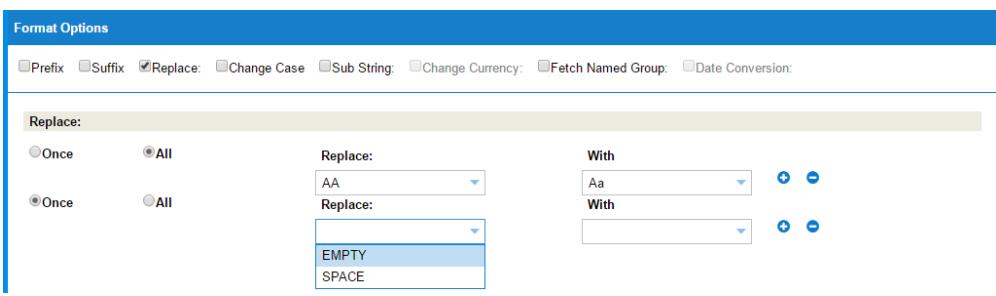
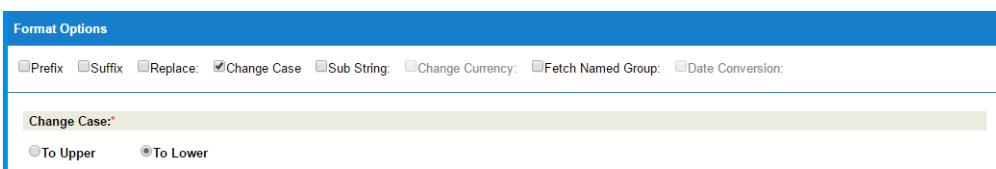
Format Conversion enables user, to configure formatting for different index fields. The values for which format has been configured are formatted after extraction. The format conversion plugin can be added at the end of extraction module or the first plugin of Export Module. The formatted values are saved to the batch.xml file.

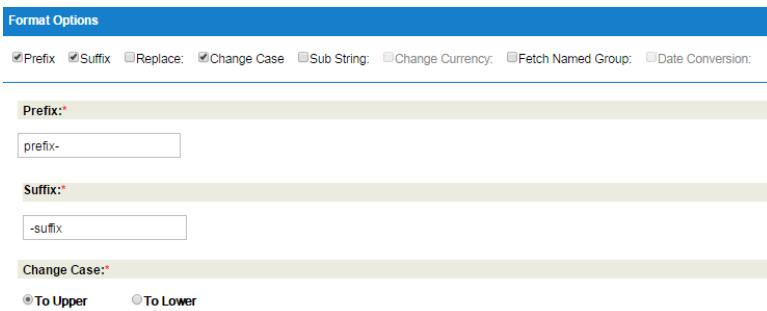
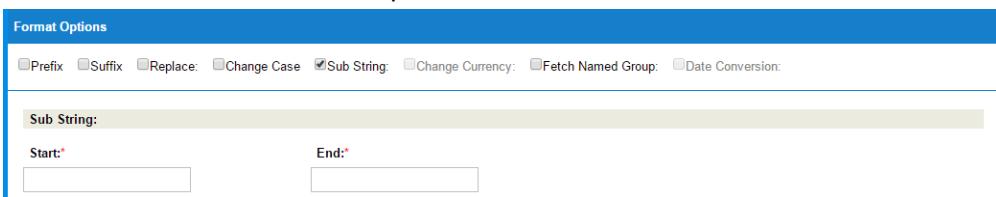
You can use **Format Conversion** to format the extracted values as configured within the respective batch classes and save efforts to format the values manually.



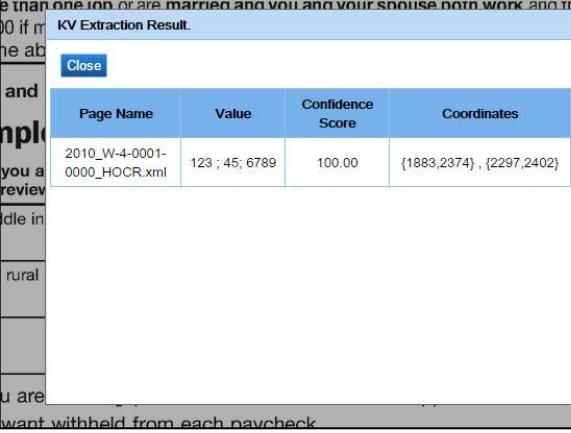
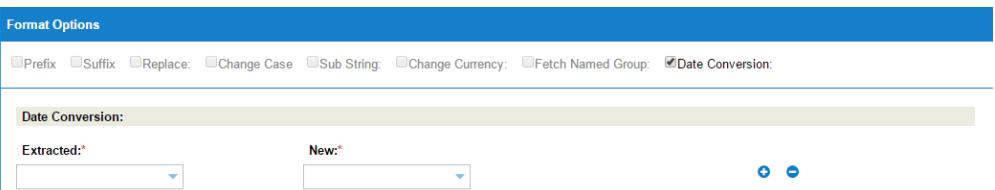
The formatting options available on the **Format Options** screen are:

Formatting Option	Description
Prefix	<p>User can add any value as prefix. The value added as prefix is added in front of the extracted value.</p> <p>Format Options</p> <p><input checked="" type="checkbox"/> Prefix <input type="checkbox"/> Suffix <input type="checkbox"/> Replace: <input type="checkbox"/> Change Case <input type="checkbox"/> Sub String: <input type="checkbox"/> Change Currency: <input type="checkbox"/> Fetch Named Group: <input type="checkbox"/> Date Conversion:</p> <p>Prefix: <input type="text"/></p> <p>For example, if you add # as prefix and the extracted value is 5004232, the final value saved in the batch.xml file is #5004232.</p>

Formatting Option	Description
Suffix	<p>User can add any value as suffix. The value added as suffix is added at the end of the extracted value.</p>  <p>For example, if you add .00 as suffix and the extracted value is 232, the final value saved in the batch.xml file is 232.00.</p>
Replace	<p>User can replace any value within the extracted value with some other value. User can choose to replace all such values or replace it only once. User can configure multiple replace rules by clicking on '+' button. User can also delete a specific replace rule by clicking on '-' button</p>  <p>For example, if you want to replace all spaces with underscores, then value configured to be replaced is '\s' and value configured to be replaced with is '_'. So, if the extracted value is 200 332 400, the final value saved in the batch.xml file is 200_332_400.</p> <p>Note: Multiple Replace rules will be applied in the sequential manner i.e. the order in which it has been defined on the Format Options screen.</p>
Change Case	<p>User can also change the case of extracted value to Lower Case or Upper case.</p> 

Formatting Option	Description
	<p>For example, if user has configured to format the value in upper case and the extracted value is ax-232-xy, the final value saved in the batch.xml file is AX-232-XY.</p> <p>Note: Change Case is executed before prefix and suffix formatting which is the last in order of formatting.</p>  <p>If the Format Rules configured are as shown above, and Sample Value is: abc-123-pqr. Then the formatted value will be: prefix-ABC-123-PQR-suffix (Note: every character except prefix and suffix value is converted to upper case.)</p>
Sub String	<p>If the user wants to use the part of extracted value, then He/She can provide the start index and end index of the part to be extracted.</p>  <p>For example, if only first of three values is of importance then substring would be configured from '1' to '3'.</p> <p>So, if the extracted value is ABC-1221, the final value saved in the batch.xml file is ABC.</p> <p>Note: Start Index and End Index are both inclusive.</p> <p>If the user wants to use a single character from the extracted value, then he/she can specify same value for start and end index</p> <p>i.e. if the extracted value is ABC-1221, and user configured Start Index as 3 and End Index as 3 then the formatted value will be: c.</p>
Change Currency	<p>User can configure if the extracted currency needs to be converted to any other currency.</p>

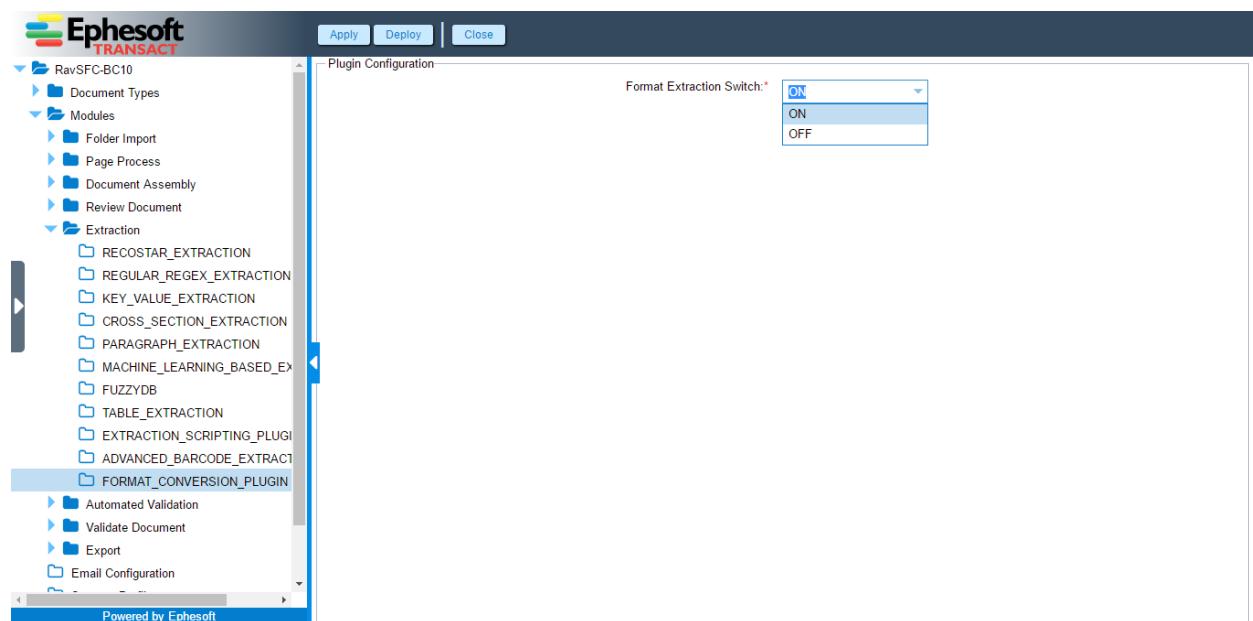
Formatting Option	Description
	<p>Format Options</p> <p><input type="checkbox"/>Prefix <input type="checkbox"/>Suffix <input type="checkbox"/>Replace: <input type="checkbox"/>Change Case <input type="checkbox"/>Sub String: <input checked="" type="checkbox"/>Change Currency: <input type="checkbox"/>Fetch Named Group: <input type="checkbox"/>Date Conversion:</p> <p>Change Currency:</p> <p>From:[*] <input type="text"/> To:[*] <input type="text"/></p> <p>You can select the currency type from drop-down lists on the screen. Operators are provided with currency codes to choose from. User can configure currency from the system config screen. All the currencies which are added on System Config screen appears in the drop down.</p> <p>Ephesoft is responsible to fetch the currency rates as per the configuration made by user. The currency rates are saved in memory for fast processing. The currency rates are updated after a regular interval of time.</p> <p>For example, if user has configured to convert from INR to USD and the extracted value is 123 . 23, the final value saved in the batch.xml file is 1 . 94.</p>
Fetch Named Group	<p>With the addition of named regex group in Java 7, a capturing group can be assigned a "name", a named-capturing group, and then be back-referenced later by the "name".</p> <p>Format Options</p> <p><input type="checkbox"/>Prefix <input type="checkbox"/>Suffix <input type="checkbox"/>Replace: <input type="checkbox"/>Change Case <input type="checkbox"/>Sub String: <input type="checkbox"/>Change Currency: <input checked="" type="checkbox"/>Fetch Named Group: <input type="checkbox"/>Date Conversion:</p> <p>Fetch Named Group:</p> <p>Regex Pattern: <input type="text"/> Regex Group: <input type="text"/></p> <p>So, user can now define how the extracted data needs to be formatted by using regex group name. For example, consider the following image:</p>

Formatting Option	Description
	 <p>In the above image, 123; 45; 6789 has been extracted using the regex = <code>(\d{3} .+ (\d{2}) .+ (\d{4}))</code>. Now if the named regex is configured as \$1-\$2-\$3, where \$1 is a reference to capture group 1 and anything else is considered a constant value, the final value saved in the batch.xml file is 123-45-6789.</p>
Date Format	<p>User can define any date format for an index field of DATE type. You can select the date formats from the Extracted and New drop-down lists.</p> <p>User can add multiple date formats. So if the extracted value falls under any of the date format configured, then the value will be formatted.</p> <p>User can define the date formats that he/she wish to be displayed in the Extracted and New drop-down lists in the property file named as format-conversion.properties under property formatconversion.date_formats=.</p> <p>Property File Path is: <Installation drive>\Ephesoft\Application\WEB-INF\classes\META-INF\dcma-format-conversion\format-conversion.properties.</p>  <p>For example, if you have configured MM/DD/YYYY as the format and the extracted value is 05/12/2015, the final value saved in the batch.xml file is 12/05/2015.</p> <p>Note: Date Format is an independent replace rule and does not work in combinations.</p>

Note: **Change Currency** and **Date Formatting** options do not work with other formatting options. They work independently irrespective of other alpha-numeric formatting options provided. So if you select **Change Currency** or **Date Conversion** from the **Format Options** screen, all other options are disabled. The other fields work in combination of each other. For example, you can select **Prefix**, **Suffix**, **Replace**, **Change Case**, **Sub String**, and **Fetch Named Group** together.

Configuration

FORMAT_CONVERSION_PLUGIN governs the formatting of extracted index fields while using **Format Conversion**.



This plugin has only one configuration which is switch. If the value of the switch is set to **ON**, formatting is applied, else not. By default, the switch is set to **ON**.

If an error is encountered while formatting the extracted data, the error is logged and the extracted value is not formatted. The batch is forwarded for further execution.



You can add the **FORMAT_CONVERSION_PLUGIN** in **Extraction** module. But you do have the option to add it before **Validate Document** module if you wish to see the converted formats on **Validation** screen or as the first plugin of **Export** module

Currency Configuration

A new node **Currency Configuration** has been added to **Workflow Management** under **System Configuration**.

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From here, you can add and delete the defined currencies as an administrator of Ephesoft.

Test Format under Test Extraction Screen

Under Test Extraction Screen user has the privilege check the formatted either by:

1. Using Workflow ON and Format Conversion switch in plugin as ON.
(Note, in Case of Workflow On the Format Values on UI is assigned a value of the Format Conversion Switch in Plugin.)
2. Using Workflow OFF and Format Values on UI as ON.
(In Case of Workflow OF user has the privilege to assign ON or OFF as per the user's choice.)