

**Oracle® Insurance Policy  
Administration**

**Japanese Character  
Validation**

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## Table of Contents

OVERVIEW .....	4
USAGE .....	5
Character Sets .....	5
Configuration .....	6
Example .....	7

## OVERVIEW

The Japanese Character Validation Extension for Oracle Insurance Policy Administration (OIPA) provides the ability to validate field values against character sets used in the Japanese market. The extension can validate a field against single character sets, or multiple character sets, depending on the configuration used.

The extension can be used in both screen business rule ScreenMath and transaction Math configuration. The extension is called by using the PROCESS MathVariable type.

The character sets supported by this extension are:

1. Special Character full-width
2. Special Character half-width
3. Digit full-width
4. Digit half-width
5. Latin full-width
6. Latin half-width
7. Katakana full-width
8. Katakana half-width
9. Hiragana
10. Kanji
11. Extend1 (for future expansion)
12. Extend2 (for future expansion)

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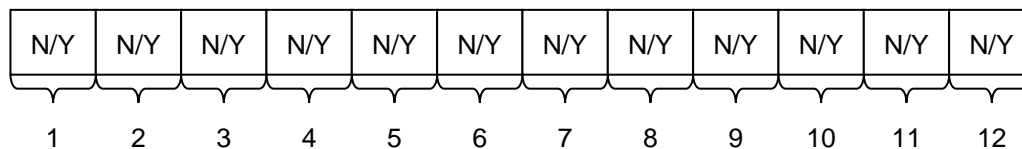
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## USAGE

### Character Sets

Using simple configuration, the character sets to validate field contents against can be set for each individual usage of the extension. A *stringType* parameter, which sets the required character sets for validation, is passed to the extension. The *stringType* parameter is a string containing “Y” and “N” characters. A “Y” is used to denote a character set that will be validated, whereas an “N” is used to denote character sets that will not be validated. Each character set that can be validated has been assigned a number between 1 and 12. Depending upon the position of the character in the *stringType* string, the extension will know which character sets to use for validation.



#### Character Set Positions:

1. Special Character full-width
2. Special Character half-width
3. Digit full-width
4. Digit half-width
5. Latin full-width
6. Latin half-width
7. Katakana full-width
8. Katakana half-width
9. Hiragana
10. Kanji
11. Extend1
12. Extend2

#### Examples:

- “NNNNYNNNNNNN” – Validates Latin Full-Width (5)
- “NNNNNNNYNNNN” – Validates Katakana Full-Width (8) and Hiragana (9)
- “NNNNNNNYNNNN” – Validates Katakana Full-Width (8) and Kanji (10)
- “NNNNYNNNYNNN” – Validates Latin Full-Width (5), Hiragana (9) and Kanji (10)

## Configuration

The extension is used in the same way that other PROCESS MathVariable extensions are used. Please refer to the XML and Rules Palette Configuration Guides for additional information on the PROCESS MathVariable.

Two parameters must be passed as input parameters to the extension: *stringType* and *stringValue*. The *stringType* parameter must contain the string that includes the desired character sets to validate, such as "NNNNNNYYNNN". The *stringValue* parameter must contain the value of the field that needs to be validated.

The value of the PROCESS MathVariable will be a Boolean. The value of the Boolean is dependent upon the outcome of the validation. If the validation was successful, and the *stringValue* did not include characters from character sets that were not configured in the *stringType* parameter, then the value of the MathVariable will be true. If the validation is not successful, and the *stringValue* parameter included characters in character sets that were not configured in the *stringType* parameter, then the value of the MathVariable will be false.

Based on the Boolean return value of the MathVariable, conditions can be used in the OIPA configuration to display error or warning messages to the user.

## Example

The following example shows pieces of the configuration that are used to validate a Field, *FirstNameKana*, against the Katakana full-width character set in a Screen business rule. In this configuration, the Extension is used in ScreenMath. When a user clicks the OK or Submit button, OIPA will process the *ONSUBMIT* event, the *Validation* ScreenMath section, and finally the *FinalValidation* Action. If the result of the extension's MathVariable is false, then an error message will be displayed to the user.

### Field Configuration:

```
<Field>
  <Name>FirstNameKana</Name>
  <Display>First Name Kana</Display>
  <DataType>Text</DataType>
</Field>
```

### ScreenMath:

```
<ScreenMath>
  <Math ID="Validation">
    <MathVariables>
      <MathVariable VARIABLENAME="FirstNameKanaBoolean"
        TYPE="PROCESS"
        NAMESPACE="com.adminserver.ext.validation.japan"
        OBJECT="VerifyJapanese" ISARRAY="NO"
        DATATYPE="BOOLEAN">
        <Parameters>
          <Parameter NAME="stringType"
            TYPE="INPUT">NNNNNNYNNNNNN </Parameter>
          <Parameter NAME="stringValue"
            TYPE="INPUT">FirstNameKana</Parameter>
        </Parameters>
      </MathVariable>
    </MathVariables>
  </Math>
</ScreenMath>
```

### Event:

```
<Events>
  <Event TYPE="ONSUBMIT">
    <Math ID="Validation"></Math>
    <ActionSet ID="FinalValidation"></ActionSet>
  </Event>
</Events>
```

### Action:

```
<Actions>
  <ActionSet ID="FinalValidation">
    <Condition IF="Validation:FirstNameKanaBoolean==false">
      <Action ACTIONTYPE="ERROR">The Field FirstNameKana can
        only accept Full-width Katakana.</Action>
    </Condition>
  </ActionSet>
</Actions>
```