

**Oracle® Insurance Policy
Administration**

**Japanese Character
Validation**

Version 9.4.1.0

Documentation Library E23637_01

October 2011

Copyright © 2009, 2011, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Where an Oracle offering includes third party content or software, we may be required to include related notices. For information on third party notices and the software and related documentation in connection with which they need to be included, please contact the attorney from the Development and Strategic Initiatives Legal Group that supports the development team for the Oracle offering. Contact information can be found on the Attorney Contact Chart.

The information contained in this document is for informational sharing purposes only and should be considered in your capacity as a customer advisory board member or pursuant to your beta trial agreement only. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle.

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. Your access to and use of this confidential material is subject to the terms and conditions of your Oracle Software License and Service Agreement, which has been executed and with which you agree to comply. This document and information contained herein may not be disclosed, copied, reproduced, or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

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.

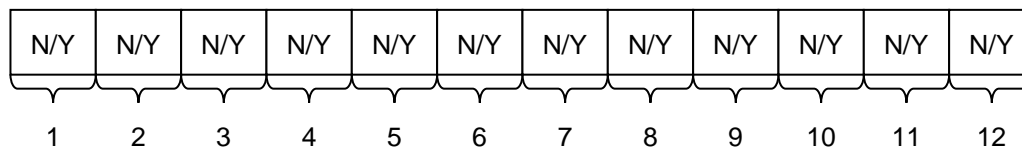
The character sets supported by this extension are:

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)

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)
- “NNNNNNYYNNN” – Validates Katakana Full-Width (8) and Hiragana (9)
- “NNNNNNNYNNN” – Validates Katakana Full-Width (8) and Kanji (10)
- “NNNNYNNYYNN” – 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 "NNNNNNNYYNNN". 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">NNNNNNNYNNNNNN </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>
```