Oracle Fusion Cloud Human Resources

How do I configure business rules for Redwood Document Records pages?

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Author: Santosh Radhakrishnan

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Get Help

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Chapter 1
Overview

1 Overview

Introduction

You can extend the Redwood Document Records pages by configuring fields and regions, changing the page properties using business rules, creating field-level validations and custom messages to meet your business requirements.

Business rules enable you to control the display of regions and fields on Redwood pages. You can configure business rules in Oracle Visual Builder Studio (VB Studio) Express mode to personalize Redwood pages including defaulting and validating field values.

You can either use the rules to leverage delivered best practices or create your own rules based on objects listed subsequently.

Before You Begin

You need to set up Oracle Visual Builder Studio (VB Studio) to extend Oracle Cloud applications before you can start working with VB Studio.

For more information, see *Set Up VB Studio to Extend Oracle Cloud Applications*.

Access Requirement

You must be granted the Human Capital Management Application Administrator role to work in a sandbox.

For more information, see these resources:

- *Securing HCM* guide
- *Which are the business objects and privileges securing them for defaulting and validation rules?*

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Chapter 1
Overview

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Chapter 2
Supported Objects and Attributes

2 Supported Objects and Attributes

Document Records Objects

You can configure business rules based on the documentRecords and documentRecordsAll objects shown in this table.
The documentRecordsAll object contains all document records of the person.

Document Records Object	Child Object
documentRecords	Document Records Developer Descriptive Flexfields
	Document Records Descriptive Flexfields
	hrDocumentTypes
documentRecordsAll (Array)	Document Records Developer Descriptive Flexfields
	Document Records Descriptive Flexfields
	hrDocumentTypes

Note:
- You can identify whether a record is cache or database by using the isNewRecord attribute. If the attribute is set to true, it's a cache record.
- The documentRecordsAll object is a document records array. You can use the array to iterate records and an index to fetch the relevant record.
- The document records aren't ordered in the array.

Person Objects

You can configure business rules based on the person objects shown in this table.

Person Object	Child Object
AllPersonAddresses (Array)	addressesDFF

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Chapter 2
Supported Objects and Attributes

Person Object	Child Object
AllPersonCitizenships (Array)	citizenshipsDFF
AllPersonContactRelationships (Array)	contactRelationshipsDDF
	contactRelationshipsDFF
AllPersonDeliveryMethods (Array)	otherCommunicationAccountsDFF
AllPersonDetails (Array)	Not applicable
AllPersonDriversLicenses (Array)	driverLicensesDDF
	driverLicensesDFF
AllPersonEmailAddresses (Array)	emailsDFF
AllPersonEthnicities (Array)	ethnicitiesDFF
AllPersonExternalIdentifiers (Array)	Not applicable
AllPersonExtraInfo (Array)	Not applicable
AllPersonLegislativeInfo (Array)	legislativeInfoDDF
	legislativeInfoDFF
AllPersonNames (Array)	Not applicable
AllPersonNationalIdentifiers (Array)	nationalIdentifiersDFF
AllPersonPassports (Array)	passportsDDF
	passportsDFF
AllPersonPhones (Array)	phonesDFF
AllPersonReligions (Array)	religionsDFF
AllPersonVisasAndPermits (Array)	visasPermitsDDF
	visasPermitsDFF
personDFF	Not applicable

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Chapter 2
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Note:
- The person objects contain records in multiple rows and therefore, you need to iterate the records by using an array.

- Only records which are active as of the current date are available in the array.

Worker Assignment Objects

You can configure business rules based on the worker assignment and associated workforce structures objects shown in this table.

Worker Assignment Object	Child Object
actionCodes	actionsDFF (Array)
	actionsDDF (Array)
actionReasonCodes	actionReasonsDFF (Array)
assignmentsDFF	Not applicable
assignmentsDDF	Not applicable
assignmentsEFF (Array)	Not applicable
assignmentStatusTypesLov	Not applicable
bargainingUnitsLov	Not applicable
businessUnitsLov	Not applicable
collectiveAgreementsLov	• collectiveAgreementsDFF • collectiveAgreementDDF
departmentsLov	departmentsDFF
employmentContracts	• contractDFF • contractDDF
gradeLaddersLov	• gradeLaddersDFF • gradeRates (Array)

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Worker Assignment Object	Child Object
	• gradeStepRates (Array) ○ gradeStepRateValues (Array) • gradesInLadder (Array)
gradesLov	• gradeRateValue (Array) ○ gradeRate • gradeSteps (Array) • gradesDFF • gradesInLadder (Array)
gradeStepsLov (Array)	Not applicable
jobsLov	• validGrades (Array) ○ grade - gradesDFF - gradeSteps (Array) - gradeRateValue (Array) ○ gradeRate - gradesInLadder (Array) • jobsDFF • jobFamily ○ jobFamilyDFF
legalEntitiesLov	Not applicable
locationsLov	• locationDFF • addresses (Array)
managers (Array)	Not applicable
personTypesLov	Not applicable
positionsLov	• validGrades (Array) ○ grade - gradesDFF - gradeSteps (Array) - gradeRateValue (Array) ○ gradeRate - gradesInLadder (Array) • positionsDFF

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Worker Assignment Object	Child Object

	• job
	  ○ jobFamily
	    – jobFamiliesDFF
	  ○ jobsDFF
	
	  ○ validGrades (Array)
	    – grade
	  ○ gradesDFF
	
	  ○ gradeSteps (Array)
	
	  ○ gradeRateValue (Array)
	• gradeRate
	  ○ gradesInLadder (Array)
	
	• department
	  ○ departmentDFF
	
	• location
	  ○ locationsDFF
	
	  ○ addresses (Array)
	
	• gradeLadder
	  ○ gradeLaddersDFF
	
	  ○ gradesInLadder (Array)
	
	  ○ gradeRates (Array)
	
	  ○ gradeStepRates (Array)
	    – gradeStepRateValues (Array)

reportingEstablishmentsLov	Not applicable
unionsLov	workerUnionsDFF
whenAndWhy	Not applicable

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Chapter 2
Supported Objects and Attributes

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Chapter 3
Implementation Considerations

3 Implementation Considerations

Implementation Considerations for Document Records Processes

You can typically use field value defaulting and validation in these cases.

- Defaulting when creating a new document
    - Default Document Number as "Person ID || Issued Date" based on the Document Type.
    - Default Publish Date to Issued Date based on the Document Type.

- Validation in the landing page, when creating or editing a new document
    - For Passport document type, Issued Date should be greater than or equal to From Date.
    - For Drivers License document type, warn users if To Date is null.

This table lists the supported attributes, exceptions, and the implementation recommendations for the Document Records pages.

It applies to all pages under Me, My Team, and My Client Groups tabs.

Page/Flow	In the Conditions for both Defaulting and Validation	To Default Field Values	To Validate Field Values	Implementation Guidelines
Document Records Landing Page	• User Roles • When is the rule applied? (Values are Viewing other's info and Viewing own info) • Country • Business Unit • Legal Employer • Document Type • Category • Subcategory • Tags	Not applicable	Applicable for Edit flow	Support for creating rules to validate based on other reference objects like Person, or Assignment.
Document Records > Add Flow	Same as above	• Applied Tags • Document Code • Issuing Comments • From Date • To Date • Document Name	• Applied Tags • Document Code • Issuing Comments • From Date • To Date • Document Name	Support for creating rules to validate or default based on other reference objects like Person, or Assignment.

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Chapter 3
Implementation Considerations

Page/Flow	In the Conditions for both Defaulting and Validation	To Default Field Values	To Validate Field Values	Implementation Guidelines
		• Document Number • Descriptive Flexfields • Developer Flexfields • Document Type • Issued On • Issuing Authority • Issuing Country • Issuing Location • Publish Date	• Document Number • Descriptive Flexfields • Developer Flexfields • Document Type • Issued On • Issuing Authority • Issuing Country • Issuing Location • Publish Date	

Note: You must configure the rule by using the attribute name and not the UI label.

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Chapter 4
Example of Business Rule Configuration

4 Example of Business Rule Configuration

Configure Business Rules for Document Records

You can create these validations in the Document Records landing page:

- For Passport document type, Issued Date should be after or equal to From Date.

- For Drivers License document type, warn users if To Date is null.

Examples

Validate that Issued On date should be greater than or equal to From Date for Passport document type

Advanced Expression

```
{
if (($objectContext.DocumentType.includes('GLB_PASSPORT')) && $fields.documentRecords.IssuedDate.$value() <=
$fields.documentRecords.DateFrom.$value()) {
return true;
}
return false;
}
```

Validation to warn users if To Date is null for Drivers License document type

Advanced Expression

```
{
if (($objectContext.DocumentType.includes('GLB_DRIVERS_LICENSE')) && $fields.documentRecords.DateTo.$value()
== null) {
return true;
}
return false;
}
```

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Chapter 4
Example of Business Rule Configuration

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Chapter 5
Seeded Rules

5 Seeded Rules

Seeded Business Rule Templates

These are the seeded business rule templates:

- Validate if Passport Expiry Date is less than 6 months from system date

- Validate if length of Document Name is greater than 15 or it has special characters

- Validate Document Record Publish Date is After Current Date

- Validate Document Record From Date is After Current Date

- Validate Document Record To Date is Before Current Date

- Default Document Name Based on Person and Document Type

- Default Issuing Country Based on the Legislation Code of the Primary Assignment

- Default Passport Document Details from Person Passport

- Default Driver's License Document Details from Person Driver's License

- Default Residence Document Details from Person Visas and Permits

- Default Native of Country Document Details from Person Citizenship

You can use seeded business rule templates to populate data from the person identification info objects into document records for the equivalent document types. The person identification info objects include Passport, Driver's License, Visa and Permits, and Citizenship.

When a user creates a document record for any of the 4 document types, the relevant data from the person identification info objects is auto populated into the respective fields.

This table shows the mapping of the document type and person business object.

Document Type	Person Business Object
Passport (GLB_PASSPORT)	PER_PASSPORTS
Driver's License (GLB_DRIVERS_LICENSE)	PER_DRIVERS_LICENSES
Residence (GLB_RESIDENCE)	PER_VISAS_PERMITS_F
Native of Country (GLB_NATIVE_OF_ COUNTRY)	PER_CITIZENSHIPS

Note: The latest row of data is defaulted from the person identification objects into the corresponding document record.

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Chapter 5
Seeded Rules

Defaulting Rules for Passport

This table shows the mapping of the attributes that are defaulted from the person passport object into the passport document record.

Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_PASSPORTS Table
Document Number - DOCUMENT_NUMBER	{{$fields.workers.passports.$value()[0].PassportNumber}}	Number - PASSPORT_NUMBER
From Date - DATE_FROM	{{$fields.workers.passports.$value()[0].IssueDate}}	Issue Date - ISSUE_DATE
To Date - DATE_TO	{{$fields.workers.passports.$value()[0].ExpirationDate}}	Expiration Date - EXPIRATION_DATE
Issuing Country - ISSUING_COUNTRY	{{$fields.workers.passports.$value()[0].IssuingCountry}}	Issuing Country - ISSUING_COUNTRY
Issuing Location - ISSUING_LOCATION	{{$fields.workers.passports.$value()[0].IssuingLocation}}	Issuing Location - ISSUING_LOCATION
Issued On - ISSUED_DATE	{{$fields.workers.passports.$value()[0].IssueDate}}	Issue Date - ISSUE_DATE
Issuing Authority - ISSUING_AUTHORITY	{{$fields.workers.passports.$value()[0].IssuingAuthority}}	Issuing Authority - ISSUING_AUTHORITY
Issuing Comments - COMMENTS	{{$fields.workers.passports.$value()[0].Profession}}	Profession - PROFESSION

Defaulting Rules for Driver's License

This table shows the mapping of the attributes that are defaulted from the person driver's license object to the driver's license document record.

Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_DRIVERS_LICENSES Table
Document Number - DOCUMENT_NUMBER	{{$fields.workers.driverLicenses.$value()[0].LicenseNumber}}	License Number - LICENSE_NUMBER

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Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_DRIVERS_LICENSES Table
From Date - DATE_FROM	{{$fields.workers.driverLicenses.$value()[0].FromDate}}	From Date - DATE_FROM
To Date - DATE_TO	{{$fields.workers.driverLicenses.$value()[0].ToDate}}	To Date - DATE_TO
Issuing Country - ISSUING_COUNTRY	{{$fields.workers.driverLicenses.$value()[0].IssuingCountry}}	Issuing Country - ISSUING_COUNTRY
Issuing Location - ISSUING_LOCATION	{{$fields.workers.driverLicenses.$value()[0].IssuingLocation}}	Place of Issue - ISSUING_LOCATION
Issuing Authority - ISSUING_AUTHORITY	{{$fields.workers.driverLicenses.$value()[0].IssuingAuthority}}	Issuing Authority - ISSUING_AUTHORITY

Defaulting Rules for Visas and Permits

This table shows the mapping of the attributes that are defaulted from the person visas and permits object to the residence document record.

Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_VISAS_PERMITS_F Table
Document Number - DOCUMENT_NUMBER	{{$fields.workers.visasPermits.$value()[0].VisaPermitNumber}}	Number - VISA_PERMIT_NUMBER
From Date - DATE_FROM	{{$fields.workers.visasPermits.$value()[0].IssueDate}}	Issue Date - ISSUE_DATE
To Date - DATE_TO	{{$fields.workers.visasPermits.$value()[0].ExpirationDate}}	Expiration Date - EXPIRATION_DATE
Issuing Country - ISSUING_COUNTRY	{{$fields.workers.visasPermits.$value()[0].IssuingCountry}}	Issuing Country - ISSUING_COUNTRY
Issuing Location - ISSUING_LOCATION	{{$fields.workers.visasPermits.$value()[0].IssuingLocation}}	Place of Issue - ISSUING_LOCATION
Issued On - ISSUED_DATE	{{$fields.workers.visasPermits.$value()[0].IssueDate}}	Issue Date - ISSUE_DATE
Issuing Authority - ISSUING_AUTHORITY	{{$fields.workers.visasPermits.$value()[0].IssuingAuthority}}	Issuing Authority - ISSUING_AUTHORITY

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Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_VISAS_PERMITS_F Table
Issuing Comments - COMMENTS	{{$fields.workers.visasPermits.$value()[0].Profession}}	Profession - PROFESSION

Defaulting Rules for Citizenships

This table shows the mapping of the attributes that are defaulted from the person citizenships object to the native of country document record.

Field from HR_DOCUMENTS_OF_RECORD Table	Expression	Field from PER_CITIZENSHIPS Table
From Date - DATE_FROM	{{$fields.workers.citizenships.$value()[0].FromDate}}	From Date - DATE_FROM
To Date - DATE_TO	{{$fields.workers.citizenships.$value()[0].ToDate}}	To Date - DATE_TO
Issuing Country - ISSUING_COUNTRY	{{$fields.workers.citizenships.$value()[0].Citizenship}}	Nationality - LEGISLATION_CODE

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