

Accelerator – Request Field Validation

User Guide

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1.0 Introduction

The Front Office Request Field Validation Accelerator can be configured to validate fields in various ways. There are options for character occurrence (e.g. only one @ per text field), valid characters, less than / greater than other fields on the form (for date and number fields).

2.0 Installation

2.1 Prerequisites

- Front Office v8.2+
- Microsoft .NET (Version 4.5)
- IIS 7+

2.2 Adapter Installation

- log in on the target installation server with administrator privileges
- Ensure that "IIS Metabase and IIS 6 configuration compatibility" is enabled (windows features under: IIS/Web Management Tools/IIS6 Management Compatibility)
- **Un-install any old versions**
- Extract the files from the zip file into a temporary folder
- Using Windows explorer open the temporary folder, then run setup.exe as an administrator
- Click the next button
- Set the virtual directory (default AcceleratorRequestFieldValidation)
- Set the target application pool (must support ASP.NET v4).
- Click the next button, then again to start the installation

3.0 Configuration

3.1 Adapter configuration

On the server where the adapter has been installed, edit the adapters web.config (for default installations this will be in inetpub\wwwroot\ AcceleratorRequestFieldValidation) and update the following settings:

- DapiURL – Should be set to the url of your Front Office installations Public Web Service (this can be found on the Admin/Configuration Check window)
- DapiUser & DapiPassword – set these if your Front Office Api has been secured with basic authentication.

If required the appSettings section can be encrypted by following the instructions here:

[http://msdn.microsoft.com/en-us/library/vstudio/zhhddkxy\(v=vs.100\).aspx](http://msdn.microsoft.com/en-us/library/vstudio/zhhddkxy(v=vs.100).aspx)

3.2 Front Office configuration

Log into Front Office as a user with supervisor privileges to perform the following steps.

All integration settings can be overridden at client level if required.

3.2.1 Create Validation Rules

Create an integration settings section for each set of validation rules required, it must be named like **AcceleratorRequestFieldValidation_YourRulesName** “YourRulesName” will be used in the configuration of the request type to define the rules to be used.

Within the section create integration settings for each validation rule required, the names should be set to a brief description of what the rule is for, the values set as follows:

Function	Value
Max Character Occurrence	OCCURRENCE Character Max Occurrence Count Name of validation message, e.g. “OCCURRENCE @ 1 Occurrence”.
Valid Characters	VALIDCHAR Allowed Characters Name of validation message, e.g. “VALIDCHAR ABCabc123 ValidCharacters”.
Less Than	LESSTHAN Name of validation message, e.g. “LESSTHAN LessThan”
More Than	MORETHAN Name of validation message, e.g. “MORETHAN MoreThan”.

Example configuration:

AcceleratorRequestFieldValidation_Rules		Add Setting Edit Delete	
Name	Value	Allow Tenant Override	Allow User Override
OccurrenceOne	OCCURRENCE @ 1 Occurrence	Yes	
ValidCharactersAlphaNumeric	VALIDCHAR ABCDEFGHIJKLMNPOQRSTUVWXYZabcdefghijklmnopqrstuvwxyz123456789@. ValidCharacters	Yes	
LessThan	LESSTHAN LessThan	Yes	
MoreThan	MORETHAN MoreThan	Yes	

There’s no limit to the number of rules that can be created.

3.2.2 Create Validation Messages

Create in integration section named **AcceleratorRequestFieldValidation_Messages**. For each message required give it a name (this is used in the step above) append an underscore and a culture code. For the value enter the message you want to be displayed. You can insert {0} into the message to display the value that is not valid / the field value being compared to, e.g:

Name: Occurrence_en-GB

Value: You can only have one occurrence of {0}

Example configuration:

AcceleratorRequestFieldValidation_Messages		Add Setting Edit Delete	
Name	Value	Allow Tenant Override	Allow User Override
Occurrence_en-GB	You can only have one occurrence of {0}	Yes	
ValidCharacters_en-GB	Invalid character(s) {{0}}	Yes	
LessThan_en-GB	Must be less than {0}	Yes	
MoreThan_en-GB	Must be more than {0}	Yes	

You must make sure that a message is created for each culture activated within Front Office.

3.2.3 Create Validation Mappings

For each request type to be supported by the adapter, create a new integration **section** for each one named **AcceleratorRequestFieldValidation_Maps_RequestTypeCode** replacing RequestTypeCode with the actual code of the request, e.g: AcceleratorRequestFieldValidation_Maps_RT00000001

For each field that requires validation create a new integration setting with the request field as the name. Set the value to one of the validation rules configured in 3.2.1. LessThan / MoreThan rules also require the field code of the field you are comparing to (delimited by a pipe symbol), e.g.

Name: RF00000001

Value: LessThan|RF00000002

Example configuration:

AcceleratorRequestFieldValidation_Maps_RT00000001		Allow Tenant Override	Allow User Override	Add Setting Edit Delete
Name	Value			
RF00000001	OccurrenceOne	Yes		
RF00000002	ValidCharactersAlphaNumeric	Yes		
RF00000003	LessThan RF00000004	Yes		
RF00000004	MoreThan RF00000003	Yes		
RF00000005	LessThan RF00000006	Yes		
RF00000006	MoreThan RF00000005	Yes		
RF00000019	OccurrenceOne	Yes		
RF00000019_1	ValidCharactersAlphaNumeric	Yes		

You can define multiple rules to a field, just repeat the field code adding an underscore and a unique identifier, e.g.

RF00000001_1

If the same mappings are required for multiple request types you can configure a section named **AcceleratorRequestFieldValidation_Maps_DEFAULTS** then add the required mappings as above. These will be used for any request type without its own section. Note that Field Codes/mappings must be the same for all requests using the defaults section.

3.2.4 Create Request Validation Hook Adapter

Create a new request validation adapter as below (adjusting server / virtual directory as per install):

Edit Adapter OK Cancel

Details

ID 6

System Type 8.2

Adapter Display Name *

Web Service URI *

Timeout (seconds) *

Client Identifier

Active

3.2.5 Assign adapter to request(s)

For each request to be validated, set the validation hook (created above) and in the parameters text box enter the name of the rule set to be used (see 3.2.1).

Example configuration:

Edit Request Type - Incident update

Export Copy OK Cancel

Details Form Rules Roles Approval Fulfilment SLA Request List Demand Variant

Code:

Name: *

Description: *

Category: Select from existing or type a new category in the list

Associated User Group:

Request Includes Items:

Request Price: £ *

Allow Request Copy:

Request Type Active:

Integration

On Request create hook

On 'Requested For' change hook (deprecated)

On Field Value changed by User hook

Parameters:

On Update button click hook

Prior to Approval page hook (Deprecated)

Do not allow request to progress on error

Request Validation Hook: Accelerator Request Field Validation

Parameters:

3.3 In use

When the validation hook is fired (at request save stage) the hook will run through all the configured rules for each field defined in the settings above. If more than one validation rule is defined for a field you will get a message for the first failure then once that is fixed the next validation message will be shown and so on.

Front Office: Incident update (RT0000000100134)

Text 1

You can only have one occurrence of @

Text 2

Invalid character(s) (,/,#)

Date 1  

Must be less than 01/06/2015

Date 2  

Must be more than 05/06/2015

Email 1

You can only have one occurrence of @

Number 1

Must be less than 5

Number 2

Must be more than 10

User 1  

Address 1  

File 1  