

IBM OPENPAGES GRC PLATFORM
VERSION 8.1

AFCON 8.1
Automated Forms Configuration
User Manual



NOTE

Before using this information and the product it supports, read the information in *Appendix C: Notices* of this document.

Author	Modified	Comments
Julia Reynolds	5/20/2008	Initial Version
Julia Reynolds	7/25/2008	Added Home Page section
Julia Reynolds	12/1/2008	Added Activity View section, What's New? Section, Default Views section
Julia Reynolds	6/25/2010	Added 6.0 Content
Julia Reynolds	9/28/2011	Added Long String fields
Julia Reynolds	11/02/2011	Added advanced filters
Julia Reynolds	12/15/11	Added new enumeration display types
Julia Reynolds	7/19/2012	Added 6.2 content
Saket Patankar	9/17/13	Added 7.0 content
Steve Sooby	12/24/13	Edit content
Bob Shapiro	1/7/2014	Updates to 7.0 content
Khushboo Jain	3/22/2015	Added 7.1 content
Development Team	9/24/2015	Added 7.2 content
Apurva Ramavarapu	4/27/2016	Added 7.2.0.2 content
Apurva Ramavarapu	8/04/2016	Added 7.3 content
Apurva Ramavarapu	01/18/2017	Added 7.3.0.1 content
Apurva Ramavarapu	08/21/2017	Added 7.4 content
Ali Moradian	08/01/2019	Added Enumerations
Filipe Barroso	08/16/2019	Update 8.1 content

Product Information

This document applies to IBM OpenPages GRC Platform 8.1 and may also apply to subsequent releases.

Licensed Materials – Property of IBM Corporation.

© Copyright IBM Corporation, 2003, 2018.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Documentation Release Information

Last Modified: 8/16/2019 12:35:41 PM

Table of Contents

I.	WHAT IS AFCON?	5
II.	WHAT'S NEW IN THIS RELEASE?.....	5
II.	THE AFCON SCHEMA TEMPLATE	6
A.	THE <i>INSTRUCTIONS</i> WORKSHEET	6
B.	THE <i>OBJECT TYPE</i> WORKSHEETS	8
C.	THE <i>COMPUTED FIELDS</i> WORKSHEET	18
D.	THE <i>CLASSIFIER</i> WORKSHEET	20
E.	THE <i>REPORTING FRAGMENTS</i> WORKSHEET.....	21
F.	THE <i>FILTERS</i> WORKSHEET	23
G.	THE <i>ACTIVITY VIEW</i> WORKSHEETS	25
H.	THE <i>GRID VIEW</i> WORKSHEETS.....	30
I.	THE <i>CREATION VIEW</i> WORKSHEETS	34
J.	THE <i>DEPENDENT PICKLISTS</i> WORKSHEET.....	37
K.	THE <i>ENUMERATIONS</i> WORKSHEET	39
L.	THE <i>DEPENDENCIES</i> WORKSHEET.....	41
M.	THE <i>FIELD EXCLUSIONS</i> WORKSHEET	43
N.	THE <i>LABELS – OBJECT TYPES</i> WORKSHEET	44
O.	THE <i>HOME PAGE TABS</i> WORKSHEET	45
P.	THE <i>CLASSIC HOME PAGE</i> WORKSHEET	46
Q.	THE <i>DEFAULT VIEWS</i> WORKSHEET.....	47
R.	THE <i>OVERVIEWS</i> WORKSHEET.....	48
S.	THE <i>RECURSIVE OBJECT LEVELS</i> WORKSHEET	49
T.	THE <i>OBJECT TYPE DIMENSIONS</i> WORKSHEET.....	51
U.	THE <i>DATE DIMENSION TYPES</i> WORKSHEET	52
V.	THE <i>DATE DIMENSION ASSOCIATIONS</i> WORKSHEET	54
W.	THE <i>SECURITY RULES</i> WORKSHEET	55
X.	THE <i>FIELD LEVEL SECURITY RULES</i> WORKSHEET	56
Y.	THE <i>NAVIGATIONAL VIEWS ORDER</i> WORKSHEET.....	58
Z.	THE <i>OBJECT VIEWS ORDER</i> WORKSHEET	59
III.	USING AFCON	60
A.	CREATING THE INPUT SCHEMA XML FILE	60
B.	STARTING AFCON.....	61
C.	NOTES AND ERRORS	62
D.	UNDERSTANDING THE OUTPUT FILES	63
	APPENDIX A: CONFIGURABLE PROPERTIES.....	65
	APPENDIX B: NOTES AND ERRORS GLOSSARY	68
	APPENDIX C: NOTICES	83

I. What is AFCON?

AFCON stands for Automated Forms Configuration, and was designed to be used as an efficient way of completing initial forms (schema) configuration. AFCON reads a Microsoft® Excel® format schema template and generates OP-XML files that can be loaded via ObjectManager (which comes with the OpenPages application). After these files are loaded, the customer schema is in place. For more information about object fields and custom schemas, refer to your application Administrator Guide.

AFCON is a standalone Java program developed in Java™ 1.8; previous versions of Java will **not** be able to run AFCON. Later versions of Java have not been tested, and it is recommended to use Java™ 1.8 each time AFCON is used.

AFCON 7.3.0.1 may be used to generate schema files for OpenPages 7.4+

II. What's New in this Release?

AFCON 7.2:

- a. AFCON now supports Global Search
- b. AFCON now supports Creation Views
- c. AFCON now supports Read-Only in Filtered List View

AFCON 7.2.0.2

- a. AFCON now supports Field Type Properties
- b. AFCON now supports Business Entity Selector.

AFCON 7.3

- a. AFCON now supports configuration for Dashboard home page.
- b. AFCON now supports configuration for Business Process Portal home page.

AFCON 7.3.0.1

- a. AFCON now supports Classifier field type.
- b. AFCON now supports Classifier worksheet.

AFCON 7.3.0.1

- a. AFCON now supports Java 8.
- b. AFCON now supports a new computation handler attribute "Package Name"

AFCON 8.1

- a) AFCON now supports 'Hierarchical' field type
- b) AFCON now supports 'Enumerations' worksheet that allows for defining hierarchies and possible values with description

II. The AFCON Schema Template

Each module in OpenPages has an associated Excel spreadsheet. The schema template contains a series of worksheets used to capture requirements about various aspects of UI configuration. These worksheets are described in detail in the following sections.

a. The *INSTRUCTIONS* Worksheet

The first worksheet in the schema template is the *INSTRUCTIONS* worksheet (see Figure III.a.1), which contains general information about the template.

AFCON 7.4	
Customer Name:	OpenPagesModules
Managing Consultant:	OpenPagesModules
Customer Abbreviation:	OpenPagesModules
Number of Entity Levels:	5
Base Currency Code:	USD
FastMap Date Format:	MM/dd/yyyy
Profile Name:	OpenPages Modules 7.4.0 Master
Fallback Profile:	false
Default Profile:	false

Template v7.4

Figure III.a.1: The *INSTRUCTIONS* worksheet.

The following information must be entered:

- **Customer Name**
The name of the customer whose schema requirements are captured in the template. E.g. *Company ABC*
- **Managing Consultant**
The name of the IBM OpenPages team member working with the customer.
- **Customer Abbreviation**
A short string, preferably ALL CAPS, which identifies the customer. E.g. for Company ABC, this could be *ABC*.
- **Number of Entity Levels**
The number of entity levels in the customer's data model. This number is used solely to determine how many columns to devote to entities in the output data load template. If the number of entity levels is not known, use 4 as a default.
- **Base Currency Code**
This value should match the base currency code specified during OpenPages installation.
- **FastMap Date Format:** The format in which date field columns in the output data load template are to be formatted (e.g. MM/dd/yyyy). Values are case-and-punctuation-sensitive. “MM” is used to specify a two-number month designation, for example “09”. A four digit year should be used.
- **Profile Name**
The name of the object profile that AFCON should update or create.
- **Fallback Profile**
Whether or not this profile should be the Fallback profile. Acceptable values are (true/false).
- **Default Profile**
Whether or not this profile should be the Default profile. Acceptable values are (true/false)

b. The Object Type Worksheets

Next is a series of worksheets that contain information about object types included in the profile the AFCON template represents.

Note: If an object type will not be used in a profile (e.g. Control Objectives or Sub-Accounts), simply delete the worksheet from the schema template. AFCON will remove the object type from the profile, and it will not appear in the OpenPages end-user interface. However, every profile must have *Entity*, *Signature*, *File*, and *Link* object types so do not remove these worksheets.

A sample *Entity* worksheet is shown in Figure III.b.1.

	A	B	N	Z	AA	AB	AC	AD	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB
1	Field Group	Field Name General Info	Field Description	Field Type	Field Type Properties	Read-Only in Detail	Read-Only in Filtered	Possible Values	Default	Data Entry Required	Data Entry Encrypt	Span Columns	Include in Detail View	Include in List View	Include in Folder View	Include in Filtered	Include in Context	Include in Home Page	Is Dimension	Is Fact	Global Search
2	Section					No	No			No	No	No	Yes	No	No	No	No	No	No	No	No
3	System Fields	Name	The name of this object.	Text Box	maxLength=4000 columns=30	No	No			Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No
4	System Fields	Description	or edit a description	Text Area	rows=5	No	No			No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	No
5	OPSS-LossEv	Owner	Use to assign a Selector	User Selector	includeSubGroups=true	No	No			No	No	No	Yes	Yes	Yes	Yes	Yes	No	No	No	Yes
6	OPSS-LossEv	Outcome	indicate What Happened	Radio	columns=60 rows=5	No	No	Near		No	No	No	Yes	No	No	No	No	No	Yes	No	Yes
7	OPSS-LossEv	Your Contact	Use to enter or edit a description	Text Area	columns=60 rows=5	No	No			No	No	Yes	Yes	No	No	No	No	No	No	No	Yes
8	Section					No	No			No	No	No	Yes	No	No	No	No	No	No	No	No
9	OPSS-LE-Contact	Your Name		Text Box	maxLength=4000 columns=30	No	No			No	No	No	Yes	No	No	No	No	No	No	No	Yes
10	OPSS-LE-Contact	Your Phone		Text Box	maxLength=4000 columns=30	No	No			No	No	No	Yes	No	No	No	No	No	No	No	Yes
11	OPSS-LE-Contact	Your Email		Text Box	maxLength=4000 columns=30	No	No			No	No	No	Yes	No	No	No	No	No	No	No	Yes
12	OPSS-LE-Contact	Info Yours Status	indicate if you are	Drop Down Radio		No	No	No	Yes	No	No	No	Yes	No	No	No	No	No	No	No	Yes

Figure III.b.1: An AFCON Schema Template, Object Worksheet

Each *Object Type* worksheet in the schema template has the following columns:

- **Field Group**
This column contains the full name of the Field Group in OpenPages.
 - **System** – The field is a system field (Name, Description, Location, Creation Date, Created By, Last Modification Date, Last Modified By, or Comment). These cannot be modified.
 - **OPSS-[object type abbreviation]** – The field is part of the standard schema that is provided out-of-the-box.
 - **Section** – This row represents a section break in the UI.
 - **[custom string]** – The field is a custom field. A unique name should be entered here; it is recommended that the field group name for custom fields contain the customer abbreviation. The first character should be an alphabetic character (A-Z, a-z); numbers, special characters, and underscore should be avoided.
- **Field Name**
This is the internal name of the field, and may not contain any illegal characters. Illegal characters are defined in the `general.properties` file, and are by default:
`!@#$%^&* ()+=[]{}|:;'".,./<>?`~`
Due to restrictions associated with the generated reporting framework, the field name should be restricted to 20 characters or less. The first character should be an alphabetic character (A-Z, a-z). Numbers, special characters, and underscore should be avoided as a first character.
Note: The combination of [Object Type] + [Field Group] + [Field Name] should be no more than 64 characters. Combinations longer than 64 characters will be allowed by AFCON and Object Manager, however the field name will not be able to be used in workflows. For example, *Compliance Owner* can be used in workflows:
`[SOXBusEntity] + [OPSS-BusEnt] + [Compliance Owner]` = 39 characters
- **Field Label ([Locale Name])**
This column contains the labels for fields in the locale specified in the parentheses. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive.
- **Field Description**
This is a short description of how the field will be used, which can be viewed by Administrators.
- **Field Guidance ([Locale Name])**
This column contains field guidance which can be viewed by the end user, for fields in the locale specified in the parentheses. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive.

- **Field Type**

This is the type of field that will appear in the application, and should be one of the following:

- *Text Box* – a single line of text
- *Text Area* – multiple lines of text
- *Rich Text* – multiple lines of stylized text
- *Drop Down List* – a single-selection enumerated list
- *Multi-Select List* – a multiple-selection enumerated list
- *Drop Down Radio* – a single-selection list represented as radio buttons
- *Multi-Select Checkbox* – a multiple-selection list represented as checkboxes
- *Date* – a graphical date selector
- *Integer* – a text box where the value must be an integer
- *URL* – a text box where the value must be a URL
- *User Selector* – a graphical user selector
- *User Dropdown* – a single-selection enumerated list of users
- *Group Selector* – a graphical group selector
- *User/Group Selector* – a graphical selector showing both users and groups
- *Multi User/Group Selector* – a graphical selector showing both users and groups, allowing multiple selections
- *Multi User Selector* – a graphical user selector, allowing multiple selections
- *Multi Group Selector* – a graphical group selector, allowing multiple selections
- *Business Entity Selector* – a graphical business entity selector, allowing single selection.
- *Decimal* – a text box where the value must be a decimal
- *Currency – Include Conversion* – A currency field that includes local currency code, local value, exchange rate, and base currency value
- *Currency – No Conversion* – A currency field that contains only local currency code and local currency value
- *Computed Fields* – A read-only non-persistent calculation that uses formulas implemented as queries on the reporting framework. Further information about fields of this type should be entered on the “Computed Fields” tab.
- *Boolean* – A field that accepts “true” or “false” values
- *Medium On Demand* – A medium-sized text area field that will display as a link that must be clicked to view/edit content
- *Medium On Demand Rich Text* – A medium-sized rich text field that will display as a link that must be clicked to view/edit content
- *Medium Text Area* – A medium-sized text area field that appears in-line in form views, but that will display as a link that must be clicked to view/edit content when in a grid view
- *Medium Rich Text* – A medium-sized rich text field that appears in-line in form views, but that will display as a link that must be clicked to view/edit content when in a grid view
- *Large On Demand* – A large-sized text area field that will display as a link that must be clicked to view/edit content. These fields cannot be included in some listing views; it can be included in grid views
- *Large On Demand Rich Text* – A large-sized rich text field that will display as a link that must be clicked to view/edit content. These fields cannot be included in some listing views; it can be included in grid views
- *Reporting Fragments* – A read-only non-persistent field that displays a report snippet (In-Line) or report link (Report Link). Further information about fields of this type should be entered on the “Reporting Fragments” tab.
- *Classifier* – A field to leverage the Natural Language Classifier to populate the suggestions. User can select or define the classifier using.
- *Hierarchical* – A Single select list represented as hierarchy tree.
- *Multi-Select Hierarchical* – A multi-select list represented as hierarchy tree.

Note: You cannot change the internal **data type** of an existing field. This includes out-of-the-box fields and custom fields that have been previously created with AFCON or through the UI. The mapping of field type to data type appears in Table III.b.1:

Field Type	Data Type
Text Box Text Area Rich Text URL User Selector User Dropdown Group Selector User/Group Selector Multi User Selector Multi User/Group Selector Multi Group Selector Business Entity Selector	Simple String
Drop Down List Multi-Select List Drop Down Radio Multi-Select Checkbox Hierarchical Multi-Select Hierarchical	Enumerated String
Date Integer Decimal Currency – No Conversion Currency – Include Conversion	Date Integer Decimal Currency
Boolean Reporting Fragment Classifier	Boolean Reporting Fragment Classifier
Medium On Demand Medium On Demand Rich Text Medium Rich Text Medium Text Area Large On Demand Large On Demand Rich Text	Long String

Table III.b.1: Field types and their corresponding data types.

Note:

AFCON does not support field of type SingleFile, it's for internal use for workflow jobs and cannot be used in profiles.

- **Field Type Properties**

This column is to provide list of field type properties and its values for the supported field types. It will have a line-delimited (Alt + Enter in Excel) “property=value” pairs of all the properties for the field type. The table below shows the supported field types, field type properties and it’s default values. Note that the field type properties are case sensitive.

Field Type	Field Type Properties	Default Values
Text Box	columns	30
	maxLength	4000
Text Area	columns	60
	row	5
Rich Text	columns	100

	columnUnit	Percent
	rows	250
	rowUnit	Pixels
User Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Business Entity Selector	rootNodeFullPath	/
	noOfLevels	3
User Dropdown	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Group Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
User/Group Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Multi User Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Multi User/Group Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Multi Group Selector	includeDisabled	false
	includeSubGroups	true
	minimumAccess	
	startingGroup	OpenPagesApplicationUsers
Currency – Include Conversion	exchangeRateReadOnly	true
Automatic	height	235

Note:

1. Currency field also has MIN and MAX field type properties. Tool does not support the fields yet, users will have to manually update the MIN and MAX properties in the OpenPages Admin UI.
2. For User/Group selector field, the minimumAccess field type property is enabled only if the includeDisabled value is set to False.
 - **includeDisable** allows or disallows disabled user accounts to be included in a selector listing.
 - **minimumAccess** setting allows you to filter users based on access control list settings on an object's folder.
 - minimumAccess= (default; nothing is enabled, therefore no minimum access requirements)
 - minimumAccess=Read : only users with Read access are displayed on the user list.
 - minimumAccess=Write : only users with Write access are displayed on the user list.
 - minimumAccess=Delete : only users with Delete access are displayed on the user list.
 - minimumAccess=Associate : only users with Associate access are displayed on the user list.
 - **includeSubGroups** controls whether subgroups are included or excluded from the User selec-

tor listing.

- **startingGroup** controls which group displays at the beginning of the selection hierarchy.

- **Read-Only in Detail View**

This column can have a value of **Yes** or **No**. **Yes** indicates that the field will not be editable, even when an object is first created.

Note: This setting is profile specific, not system-wide. Fields marked to be both read only and required will be loaded as neither

- **Read-Only in Filtered List View**

This column can have a value of **Yes** or **No**. **Yes** indicates that the field will not be editable

- **Possible Values**

The possible values for a field depend on the field type:

- *Text Box* – N/A
- *Text Area* – N/A
- *Rich Text* – N/A
- *Drop Down (List or Radio)* – a line-delimited (Alt + Enter in Excel) list of values. Or defined in the Enumerations worksheet.
- *Multi-Select (List or Checkbox)* – a line-delimited (Alt + Enter in Excel) list of values. Or defined in the Enumerations worksheet.
- *Date* – N/A
- *Integer* – a colon-delimited range of numbers, e.g. *1:100*. This means the field will only accept an integer value greater than or equal to 1, and less than or equal to 100. Note that if you type *1:100* into Excel, it may be automatically converted to a decimal. To prevent this, precede the range with a single quote; e.g. enter a value of '*1:100*'.
- *Decimal* – a colon-delimited range of numbers, e.g. *1:100*. This means the field will only accept a decimal value greater than or equal to 1, and less than or equal to 100. Note that if you type *1:100* into Excel, it may be automatically converted to a decimal. To prevent this, precede the range with a single quote; e.g. enter a value of '*1:100*'.
- *URL* – N/A
- *User Selector* – N/A
- *User Dropdown* – N/A
- *Group Selector* – N/A
- *User/Group Selector* – N/A
- *Multi User Selector* - N/A
- *Multi User/Group Selector* - N/A
- *Multi Group Selector* - N/A
- *Business Entity Selector* – N/A
- *Currency (No Conversion or Include Conversion)* – N/A
- *Computed Fields* – N/A
- *Boolean* – N/A
- *Reporting Fragments* – N/A
- *Medium On Demand* – N/A
- *Medium On Demand Rich Text* – N/A
- *Medium Text Area* – N/A
- *Medium Rich Text* – N/A
- *Large On Demand* – N/A
- *Large On Demand Rich Text* – N/A

Note: All blank space between possible values will be removed.

- **Possible Values ([Locale Name])**

This column contains labels for the “Possible Values” column in the locale specified in the parentheses. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive. The translations need to be listed in the same order as the values in the Possible Values column.

- **Default**

The default value for a field depends on the field type:

- *Text Box* – the initial text in the text box
- *Text Area* – the initial text in the text area
- *Rich Text* – the initial text in the rich text field
- *Drop Down (List or Radio)* – the initially selected value. To have no value initially selected, leave the default blank.
- *Multi-Select (List or Checkbox)* – the initially selected value. To have no value initially selected, leave the default blank.
- *Date* – N/A
- *Integer* – the initial integer in the field
- *URL* – the initial URL in the field
- *User Selector* – the initial user name
- *User Dropdown* – the initial user name
- *Group Selector* – the initial group name
- *User/Group Selector* – the initial user/group name
- *Multi User Selector* - N/A
- *Multi User/Group Selector* - N/A
- *Multi Group Selector* - N/A
- *Business Entity Selector* – N/A
- *Decimal* – the initial decimal in the field
- *Currency* – N/A
- *Computed Fields* – N/A
- *Boolean* – true/false
- *Reporting Fragments* - N/A
- *Classifier* – N/A
- *Medium On Demand* – N/A
- *Medium On Demand Rich Text* – N/A
- *Medium Text Area* – N/A
- *Medium Rich Text* – N/A
- *Large On Demand* – N/A
- *Large On Demand Rich Text* – N/A

- **Data Entry Required**

This column can have a value of *Yes* or *No*. *Yes* indicates that the user will be required to enter a value for the field before creating or saving the object.

Note: This setting is profile specific, not system-wide. Fields marked to be both read only and required will be loaded as neither.

- **Data Entry Encrypted**

This column can have a value of *Yes* or *No*. *Yes* indicates that the value of field will be encrypted in database.

- **Span Columns**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field will take up both columns of a two column layout page (Context View, Detail View, Activity View)

- **Include in Detail View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object Detail View (the form which appears when creating or editing objects).

- **Include in List View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object List View (the section of an object's parent's or child's detail page containing information about the object).

- **Include in Folder View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object Folder View (the page listing objects of a particular type, by folder). Note that there is no Folder View for the Milestone, Project Action Item, and Signature object types.

- **Include in Filtered List View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object Filtered List View (the page listing of objects of a particular type, which can be filtered).

- **Include in Context View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object Context View (the section of an object's detail page that appears on top of the normal detail view).

- **Include in Home Page View**

This column can have a value of *Yes* or *No*. *Yes* indicates that the field should appear in the object My Work Home Page View (this view will be relevant if there are filters defined for an object that appear on the My Work Home Page).

- **Is Dimension**

This column can have a value of *Yes* or *No*. *Yes* indicates that a dimension should be created for this field in the reporting framework. This column is only applicable for *Drop Down*, *Date*, and *Multi-Select* fields.

- **Is Fact**

This column can have a value of *Yes* or *No*. *Yes* indicates that facts should be created for this field in the reporting framework. This column is only applicable for *Integer*, *Decimal*, and *Currency* fields.

- **Global Search**

This column can have a value of *Yes* or *No*. *Yes* indicates that the value of field will be enabled for Global Search. This column is not applicable for *System*, or *Special* fields. This setting is not supported for *Computed*, *Reporting Fragment*, *Classifier* or *special URL with a default value containing JSON* fields. If **Data Entry Encrypted** is *Yes* for this field, then Global Search is not permitted to be *Yes*.

Note: This setting will apply system-wide for the field. If the field is shared across Object types and the value for this setting is *Yes* for at least one Object Type and *No* for other Object Types then the Global Search will be enabled for this field.

Special Fields:

- **Sections**

To create a section in the UI, enter the “Field Group” as “Section”. Enter the section name in “Field Name”. Enter the section name translations in the “Field Label([locale])” columns. Set the “Field Type” to “Text Box”. Set “Include in Detail View” to “Yes”, and set all other “Include in [view name] View” columns to “No”.

- **Orphans**

To use the “Orphan” field introduced in v7.0.0 enter the “Field Group” as “Section”. Enter “Orphan” in “Field Name”. Enter the translations for Orphan in the “Field Label([locale])” columns. Set the “Field Type” to “Text Box”. Set “Read Only in Detail View” to “Yes”.

- **Business Entity Hierarchy**

To use the Business Entity Hierarchy field enter the “Field Group” as “Section”. Enter “Business Entity Hierarchy” in “Field Name”. Enter the translations for Business Entity Hierarchy in the “Field Label([locale])” columns. Set the “Field Type” to “Text Box”. Set “Read Only in Detail View” to “Yes”. Note that this field cannot be used in list views and grid views.

- **Primary Parent Hierarchy**

To use the Primary Parent Hierarchy field enter the “Field Group” as “Section”. Enter “Primary Parent Hierarchy” in “Field Name”. Enter the translations for Primary Parent Hierarchy in the “Field Label([locale])” columns. Set the “Field Type” to “Text Box”. Set “Read Only in Detail View” to “Yes”. Note that this field cannot be used in list views and grid views.

IMPORTANT: When modifying the *Object Type* worksheets, rows that already exist in the worksheet should not be deleted. If an existing field will not be used in this profile, hide it by entering *No* in all of the “Include in X View” columns.

c. The *Computed Fields Worksheet*

The *Computed Fields* worksheet, shown in Figure III.c.1, defines the computed field formulas for all computed fields included in the profile. The information on this tab is both global and profile-specific. If no computed fields are used in this profile it is safe to remove this worksheet, avoiding the risk of overwriting an existing computed field.

Figure III.c.1: Computed Fields worksheet

The worksheet contains the following columns:

- **Object Type**
The object for which the field is defined.
- **Field Group**
The field group in which this field is defined.
- **Field Name**
The name of the field.
- **Equation**
The equation is the CommandCenter SQL used to define the computed value for the object field. It can be a reference to an existing query item in the published CommandCenter framework or an equation involving multiple query items.
- **Primary Namespace**
The Primary Namespace is the reporting framework namespace in which the computation is to be performed.
- **Alternate Namespaces**
The Alternate Namespaces are the reporting framework namespaces to which the computation will be added during the Reporting Framework generation.
- **Package Name**
The Package Name attribute is to allow administrators to specify the reporting package a computed field runs against.
- **Object ID Column**
The Object ID Column is a reference to a reporting framework query item that contains the Resource ID of the computed field's object type.
- **Reporting Period ID Column**
The Reporting Period ID Column is the reporting framework query item that contains the Reporting Period Id of the computed field's object type.

Note: All referenced query items in the values for *Equation*, *Object ID Column*, and *Reporting Period ID Column* must be in the namespace specified in *Primary Namespace*.

Note: All computed fields defined within an object type must use the same *Primary Namespace*, *Object ID Column*, and *Reporting Period ID Column*.

Note: If the equation for a computed field is missing, the values specified in the input schema document will be used. If these are missing, the values in the **reportingSchema.properties** will be used.

d. The Classifier Worksheet

The *Classifiers* worksheet, shown in Figure III.d.1, defines the classifier field definitions for all classifier fields included in this profile.

A	B	C	D	E	F	G	H
Object Type	Field Group	Field Name	Field Type	Classifier Name	Classifier Input Field Group	Classifier Input Field Name	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							

Figure III.d.1: Classifier worksheet

The worksheet contains the following columns:

- **Object Type**
The object for which the field is defined.
- **Field Group**
The field group in which this field is defined.
- **Field Name**
The name of the field.
- **Field Type**
The display type of this field. This can be *Classifier On Demand*..
- **Classifier Name**
The name of the Classifier.
- **Classifying Field Group**
The field group of the classifying field.
- **Classifying Field Name**
The name of the classifying field

e. The Reporting Fragments Worksheet

The *Reporting Fragments* worksheet, shown in Figure III.e.1, defines the reporting fragment definitions for all reporting fragment fields included in this profile.

	A Object Type	B Field Group	C Field Name	D Field Type	E Report Path	F Fragment Name	G Object Id Prompt	H Reporting Period Id Prompt	I Height	J Width
1	SOXProcess	Demo-Process	RFragCtlEffByProcess	On Demand	/content/folder[@name='OpenPages Example V6']/folder[@name='Control Reports']/folder[@name='Control Effectiveness by Process Fragment']/report[@name='Control Effectiveness by Process']	chartMain	Process Id	Reporting Period Id	450	600
2	SOXBusEntity	Demo-Entity	RFragCountLossesByRiskCat	On Demand	/content/folder[@name='OpenPages Example V6']/folder[@name='Loss Event Reports']/folder[@name='Count of Losses by Risk Category Fragment']/report[@name='Count of Losses by Risk Category']	chartMain	Entity Id	Reporting Period Id	450	600
3	SOXBusEntity	Demo-Entity	RFragLossesByRiskCat	On Demand	/content/folder[@name='OpenPages Example V6']/folder[@name='Loss Event Reports']/folder[@name='Losses by Risk Category Fragment']/report[@name='Losses by Risk Category']	chartMain	Entity Id	Reporting Period Id	450	600
4	KeyRiskIndicator	Demo-KRI	RFragKRIValues	Automatic	/content/folder[@name='OpenPages Example V6']/folder[@name='Indicator Reports']/folder[@name='KRI Value Fragment']/report[@name='KRI Values']	listMain	KRI Id	Reporting Period Id	400	600
5	SOXProcess	Demo-Process	RFragProcessDoc	Automatic	/content/folder[@name='OpenPages Example V6']/folder[@name='Document Reports']/folder[@name='Process Document Fragment']/report[@name='Process Document Fragment']	listMain	Process Id	Reporting Period Id	400	600

Figure III.e.1: *Reporting Fragments* worksheet

The worksheet contains the following columns:

- **Object Type**
The object for which the field is defined.
- **Field Group**
The field group in which this field is defined.
- **Field Name**
The name of the field.
- **Field Type**
The display type of this field. This can be either *Automatic*, meaning the report renders immediately when a detail page is viewed, or *On Demand*, which displays a link to launch a reporting fragment. Reporting fragments will be *On Demand* in supported list and grid views.
- **Report Path**
The full path of the report in Cognos to display in the field.
- **Fragment Name**
The name of the part (table, chart, etc.) of the report to display in the field.
- **Object ID Prompt**
The name of the prompt, in the Cognos report identified in the Report Path column, that the resource id of the object being viewed should be passed to. This column is optional.

- **Reporting Period ID Prompt**

The name of the prompt, in the Cognos report identified in the report Path column, that the reporting period information (the reporting period being used to view the object this field is included on) should be passed to. This column is optional.

- **Height**

The desired height for the reporting fragment, if you don't want it to auto-size using the report contents. This column is optional.

- **Width**

The desired width for the reporting fragment, if you don't want it to auto-size using the report contents. This column is optional.

f. The *Filters Worksheet*

The *Filters* worksheet, shown in Figure III.e.1, displays the available filters in the system for each object type, and specifies whether each filter should be visible in the profile represented by this worksheet. Using a filter, you can narrow the scope of data that is returned in a My Work Home Page Filtered List or a Grid or Filtered List view for users who are assigned a specific profile.

Each line represents one condition in a filter, and by specifying the same Object Type and Filter Name (the first two columns) on multiple rows, you can build a filter that acts on several fields.

The information on this tab is global except for the "Include In" columns, which are profile-specific.

	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC
1	Object Type	Filter Name	Filter Name Label (French)	Filter Name Label (German)	Filter Name Label (Italian)	Filter Name Label (Japanese)	Filter Name Label (Portuguese)	Filter Name Label (Simplified Chinese)	Filter Name Label (Traditional Chinese)	Filter Name Label (U.K. English)	Filter Name Label (U.S. English)	Include in Filtered List View	Include in Home Page View	Formula	Label	Field Group	Field Name	Search Operator	Search Values	
11	Audit	Current and Future Audits	Audits en cours ou à venir	Aktuelle und zukünftige Audits	Audit Corrente e futuri	現在ある及び将来的監査	Auditor Atuais e Futuras	当前和未来审计	Auditor Atuais e futuras	目前和未來審核	Current and Future Audits	Yes	No		1	OPSS-Aud	Audit Commitment	in	2008 2009 2010 2011 2012 2013	
12	Audit	Current and Future Audits	Audits en cours ou à venir	Aktuelle und zukünftige Audits	Audit Corrente e futuri	現在ある及び将来的監査	Auditor Atuais e Futuras	当前和未来审计	Auditor Atuais e futuras	目前和未來審核	Current and Future Audits	Yes	No		2	OPSS-Aud	Status	in	In Review Not Started In Progress Planned On Hold Scheduled	
50	KRI Value	KRIs Awaiting Entry	Indicateurs clés	KRIs - Warten	KRI in attesa	入力待ちの	KRIs - Warten	等待輸入の	KRIs - Aguardando	KRI en espera	KRI en espera	KRIs Awaiting Entry	Yes	Yes	1 AND 2 AND (3 OR 4)	1	OPSS-KRI-Shared	Collection Status	in	Awaiting Collection
51	KRI Value	KRIs Awaiting Entry	Indicateurs clés	KRIs - Warten	KRI in attesa	入力待ちの	KRIs - Warten	等待輸入の	KRIs - Aguardando	KRI en espera	KRI en espera	KRIs Awaiting Entry	Yes	Yes	1 AND 2 AND (3 OR 4)	2	OPSS-KRI-Shared	KRI Capturer	equalTo	##{logged in user}##
52	KRI Value	KRIs Awaiting Entry	Indicateurs clés	KRIs - Warten	KRI in attesa	入力待ちの	KRIs - Warten	等待輸入の	KRIs - Aguardando	KRI en espera	KRI en espera	KRIs Awaiting Entry	Yes	Yes	1 AND 2 AND (3 OR 4)	3	OPSS-KRIVAL	Expected Collection Date	In the next	7 days
53	KRI Value	KRIs Awaiting Entry	Indicateurs clés	KRIs - Warten	KRI in attesa	入力待ちの	KRIs - Warten	等待輸入の	KRIs - Aguardando	KRI en espera	KRI en espera	KRIs Awaiting Entry	Yes	Yes	1 AND 2 AND (3 OR 4)	4	OPSS-KRIVAL	Expected Collection Date	In the last	365 days
58	KRI	Indirect Orphan KRIs	Indicateur clé de	Indirecte KRI	KRI orfani	間接オーファー	KRI orfani	间接孤儿	KRI orfani	間接孤兒	間接孤兒	Indirect Orphan KRIs	Yes	No		1	System Fields	Orphan	equalTo	Indirect
59	KRI	Direct Orphan KRIs	Indicateur clé de verwaist	Direkte KRI	KRI orfani	直接オーファー	KRI orfani	直接孤儿	KRI orfani	直接孤兒	直接孤兒	Direct Orphan KRIs	Yes	No		1	System Fields	Orphan	equalTo	Direct
60	KRI	All Orphan KRIs	Tous les indicateurs	Alle verwaiste	Tutti i verwaist	すべてのオーフ	Todos los verwaist	所有孤兒	Todos los KRIs	所有孤兒	All Orphan KRIs	Yes	No		1	System Fields	Orphan	equalTo	All	

Figure III.f.1: *Filters worksheet*

The worksheet contains the following columns:

- **Object Type**

The object for which this filter should be defined.

- **Filter Name**

The name for the filter. This value will be repeated for as many lines as needed to define all of the conditions that should be included in this Filter.

- **Filter Name Label ([locale])**

These columns contain translations for the filter name for the locale specified in the parentheses. The [locale] must match the locale name in the application, case-and-punctuation-sensitive.

- **Include in Filtered List View**

Should this filter be included in Filtered List View and Grid Views for this profile?

- **Include in Home Page View**

Should this filter be included on the My Work Home Page View for this profile?

- **Formula**
If this filter is complex (using a combination of ANDs, ORs, and NOTs), use this column to specify the formula. If all the conditions in the filter should be combined with ANDs, you can leave the Formula column blank.
- **Label**
Each condition of a filter must be labeled. If a complex formula is entered, use this column to identify which conditions each part of the formula is referencing. Each label must be a number formatted as text (.e.g '1').
- **Field Group/Field Name**
Field that should be filtered on for this condition.
- **Search Operator**
Type of filter that should be applied to this field. Possible values include “in”, “like”, “Starts with”, “Contains”, “equalTo”, “greaterThan”, “between”, “lessThan”, “In the next”, “On this date”, and “In the last”.
 - “in” can be used for drop-down and multi-select fields. It will return objects where the field matches any of the values entered in the ‘search values’ field.
 - “like” can be used with any text field (text area (simple or long string), rich text (simple or long string), user fields). If you append the search value with ‘%’, then the condition will be equivalent to ‘Starts With’. If you add ‘%’ to both the beginning and end, then the condition will be equivalent to ‘contains’.
 - If you don’t like ‘like’, you can use ‘Starts With’ and ‘Contains’ instead. Using these search operators means that you don’t have to manually enter the ‘%’ characters.
 - “equalTo” performs an exact search on the value entered in the search values field. It can be used with fields of any type.
 - “greaterThan” and “lessThan” are used for numeric and currency fields (e.g. Currency Field Local Amount > \$578 or Integer field < 64).
 - “In the next” is applicable for date fields and lets you specify a dynamic filter to find objects with date fields that occur within a rolling number of days into the future.
 - “In the last” is applicable for date fields and lets you specify a dynamic filter to find objects with date fields that occur within a rolling number of days into the past.
 - “On this date” is applicable for date fields and lets you find objects with a date field that equals a specific date.
 - “between” is used for numeric and date fields and allows you to specify ranges (e.g. Date field between 4/4/11 and 5/5/12 or Integer field between 5 and 10). You can also use ‘between’ as a substitute for ‘In the next’, ‘In the last’, and ‘On this date’.
- **Search Values**
The condition that will be searched for in the desired field. For enumerated strings this can be an alt-enter separated list of enumerated values. For user fields this can be either a user id or the special text “##{logged in user}##”. For text fields, this can be a text string with or without a wild-card operator (%). For numerical values or dates, this could be a number, or two pipe-separated numbers (e.g. 1|100).

g. The Activity View Worksheets

Next is a series of worksheets that contain information about activity views. Each worksheet specifies the information needed to create one activity view in the application. The worksheet's name must begin with "AV – ". Ideally the full name would be "AV – [activity view name]", but "AV – [number]" is acceptable as well if you have more than one activity view with the same name.

The first level of an Activity View named "Add New" but labeled as desired, per object type, is used to drive the Add New wizard. As a result you may have multiple Activity Views with the same name, so be sure to use numbers or other identifiers on the Activity View worksheet names to make them unique in the workbook. Recommend labeling the worksheet names in the format AV - AN - <object type name abbreviation>, where "AN" refers to Add New."

Activity View Name	Activity View Description	Activity View Label (French)	Activity View Label (German)	Activity View Label (Japanese)	Activity View Label (Report Design Language)	Activity View Label (Spanish)	Activity View Label (U.S. English)	Enabled	Default	Root Object Type		
Audit Overview		Audit Overview	Audit Overview	Audit Overview	Audit Overview	Audit Overview	Audit Overview	Yes	No	Audit Program		
Root Object Field Groups	Root Object Fields	Root Object Fields Read-Only	Section Label (French)	Section Label (German)	Section Label (Japanese)	(Report Design Language)	Label (Spanish)	Section Label (U.S. English)				
System Fields	Name	Yes										
System Fields	Description	Yes										
OPSS-Aud	Owner	Yes										
Child Object Type Parent	Child Object Type	Child Paths	Child Filters	Level								
Audit Phase	Workpaper	AuditPhase/Workpaper AuditPhase/SOXTest/Workpaper		3								
Audit Program	Audit Phase	AuditProgram/AuditPhase		2								
Audit Phase	Finding	AuditPhase/Workpaper/Finding AuditPhase/Finding AuditPhase/SOXTest/Workpa		3								
Audit Phase	Assignment	AuditPhase/Assignment		3								
Object Type Parent	Sort Criteria Object Type	Sort Criteria Field Group	Sort Criteria Field Name	Sort Type								
Audit Phase	Workpaper	System Fields	Name	Ascending								
Audit Phase	Workpaper	OPSS-Work	Preparation Status	Ascending								
Child Object Type Parent	Child Object Type	Field Group	Field Name	Read-Only in Detail View	Include in Detail View	Include in List View	Section Label (French)	Section Label (German)	Section Label (Japanese)	Section Label (Report Design)	Section Label (Spanish)	Section Label (U.S. English)
Audit Phase	Workpaper	System Fields	Name	Yes	Yes	No						
Audit Phase	Workpaper	System Fields	Description	Yes	Yes	No						
Audit Phase	Workpaper	OPSS-Work	Type	Yes	Yes	No						
Audit Phase	Workpaper	OPSS-Work	Preparer	No	Yes	No						
Audit Phase	Workpaper	OPSS-Work	Preparation Status	No	Yes	No						
Audit Phase	Workpaper	OPSS-Work	Review Status	No	Yes	No						
Audit Program	Audit Phase	System Fields	Name	Yes	Yes	Yes						
Audit Program	Audit Phase	System Fields	Description	Yes	Yes	Yes						
Audit Program	Audit Phase	OPSS-AudPh	Owner	No	Yes	Yes						
Audit Program	Audit Phase	OPSS-AudPh	Expected Start Date	No	Yes	No						
Audit Phase	Finding	System Fields	Name	No	Yes	No						
Audit Phase	Finding	System Fields	Description	Yes	Yes	No						
Audit Phase	Finding	OPSS-Finding	Preparer	Yes	Yes	No						
Audit Phase	Assignment	System Fields	Name	Yes	Yes	No						
Audit Phase	Assignment	System Fields	Description	Yes	Yes	No						

Figure III.g.1: A sample Activity View worksheet

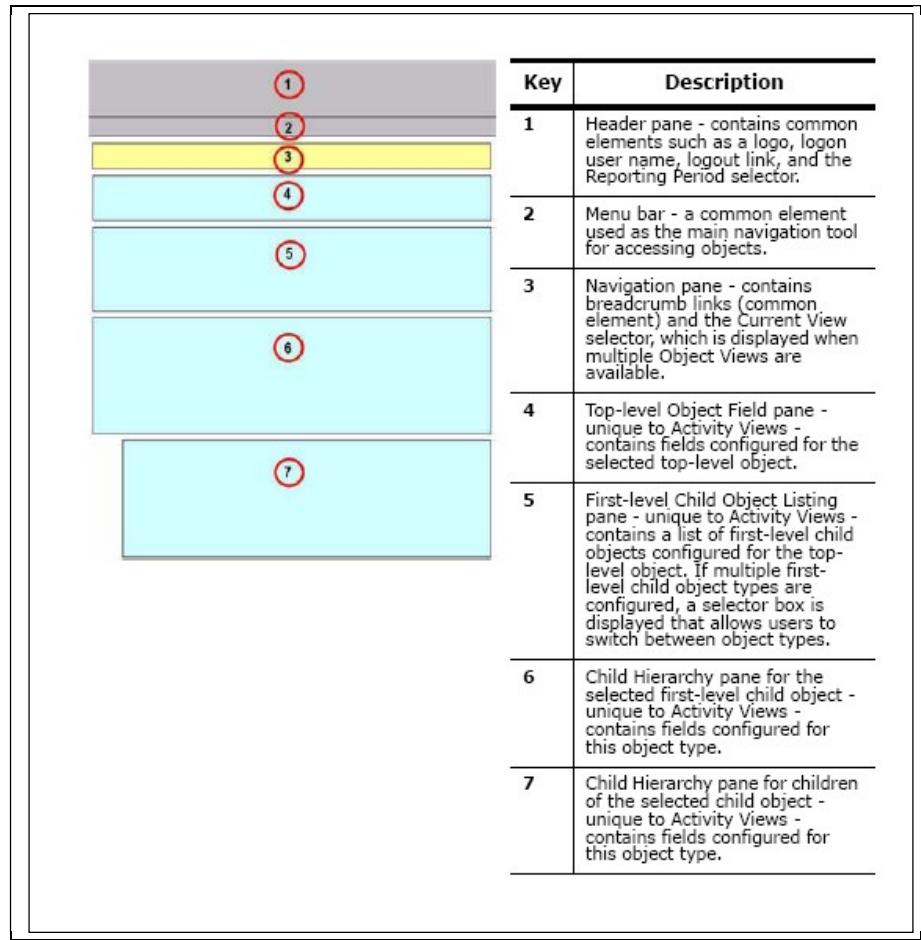


Figure III.g.2: Activity View Layout In the Application

An Activity View consists of up to three panes:

1. Top-level Object Field pane (Key 4 in Figure III.f.2).
 - a. This is the only required pane in an activity view.
2. First-level Child Object Listing pane (Key 5 in Figure III.f.2).
 - a. This pane is always a non-editable list of objects for one child object type.
 - b. Multiple child object types can be configured for this pane, producing a drop-down list from which to choose the object type.
3. Child Hierarchy panes (Keys 6 and 7 in Figure III.f.2)
 - a. The object selected in the First-level Child Object Listing pane is displayed in the Key 6 region.
 - b. The Key 7 region can consist of one, or more, objects for one, or more, child object types of the object displayed in the Key 6 region.

Each “AV – “ worksheet contains the following sections and columns. Each section is separated by one, and only one, empty row (refer to Figure III.f.1).

Section 1

Defines the Activity View. Configuration of this section is required and consists of one row.

- **Activity View Name**
The name of the activity view.
- **Activity View Description**
The description of the activity view.
- **Activity View Label ([Locale Name])**
Activity view labels for each locale. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive.
- **Enabled**
Determines whether or not this view is enabled (available for use by end-users) in the application. Possible values are “Yes” and “No”.
- **Default**
Determines whether or not this view is the default view available to users viewing an object of the root object type in the application (rather than the “Detail” view or any other activity view defined for this object). Possible values are “Yes” and “No”. This field is informational only; use the Default Views tab to set the actual default view for an object type.
- **Root Object Type**
The object type for which this activity view is defined. If the activity view is enabled, this activity view will appear in the View Selector on this objects detail page.

Section 2

Defines the “Top-level Object Field pane” (Key 4 in Figure III.f.2). Configuration of this section is required.

- **Root Object Field Groups**
The field group names of the fields you want to appear in this pane of the activity view.
- **Root Object Fields**
The field names of the fields you want to appear in this pane of the activity view.
- **Root Object Fields Read-Only**
Determines whether or not the fields you want to appear in this pane of the activity view are read-only.
- **Section Label ([Locale Name])**
The section name labels of the sections you want to appear in this pane of the activity view. The [Locale Name] must match the locale name in the application; case-and-punctuation-sensitive.

Section 3

Defines the object types to be listed in “First-level Child Object Listing pane” (Key 5 in Figure III.f.2). It also defines object types to be displayed in the Key 6 and Key 7 regions. Configuration of this section is optional.

- **Child Object Type Parent**

Parent object type for the child object type (see the next column).

- **Child Object Type**

Child object type. Use one row in this section for each child object type to be displayed in the drop-down selector. Additional rows are added for each object type to be displayed in the Key 7 region.

- **Child Paths**

Alt-enter separated list of valid paths the activity view should follow from the parent object type (first column) to the child object type (second column).

- **Child Filters**

Filters the activity view should apply to find objects of the child object type. The filter must be defined for the child object type (not the parent object type, nor any object type in between the two).

- **Level**

The only values allowed here are “2” or “3”. Only one value per row allowed.

- A value of “2” indicates that this child object type will be displayed in the Key 5 and Key 6 regions.
- A value of “3” indicates that this child object type will be displayed in the Key 7 region.
 - Multiple object types can be displayed in the Key 7 region, for example Issues and Action Items.

Section 4

Defines sorting information to be applied to the First-level Child Object Listing pane (Key 5 in Figure III.f.2). If Section 3 is not configured, to not configure this section.

- **Object Type Parent**

Parent object type for the child object type.

- **Sort Criteria Object Type**

The object type to which the sort will apply. The “Level” value in Section 3 determines what gets sorted.

- If a Level value of “2” is set in Section 3 then sorting will be applied to the Key 5 region.
- If a Level value of “3” is set in Section 3 then sorting will be applied to the Key 7 region.

- **Sort Criteria Field Group**

Field Group name of the field that will be sorted.

- **Sort Criteria Field Name**

Field name of the field that will be sorted.

- **Sort Type**

“Ascending” or “Descending”, the order of the sort to be applied.

Note: For a given object type, the order that the fields are specified in this section are the order that the sorts are applied in the application. For example, if for the object type “Risk” you wanted to apply a sort on “Risk Rating”, then “Risk Impact”, specify a line for “Risk Rating” first, then “Risk Impact”.

Section 5

Defines “Child Hierarchy Pane” field layouts (Keys 6 and 7 in Figure III.f.2). It also defines the columns in the Key 5 region, which is a list. If Section 3 is not configured, do not configure this section.

- **Child Object Type Parent**

Parent object type for the child object type.

- **Child Object Type**

Child object type.

- **Field Group**

Field group name of field to be displayed.

- **Field Name**

Field name of a field to be displayed.

- **Read-Only in Detail View**

Determine whether or not a field is read-only. Possible values are “Yes” and “No”.

- **Include in Detail View**

Determines if a field is visible in the Key 6 or Key 7 regions. Possible values are “Yes” and “No”.

- **Include in List View**

This column pertains to the Key 5 region only. Possible values are “Yes” and “No”.

NOTE: For fields appearing in the Key 7 region, this value will always be “No”.

- **Section Label ([Locale Name])**

The section name labels of the sections you want to appear in a child hierarchy pane (section 6 or 7 of figure II.f.2) of the activity view. The [Locale Name] must match the locale name in the application; case-and-punctuation-sensitive.

h. The Grid View Worksheets

Next is a series of worksheets that contain information about grid views. Each worksheet specifies the information needed to create one grid view in the application. The worksheet's name must begin with "GV – ". Ideally the full name would be "GV – [grid view name]", but "GV – [number]" is acceptable as well if you have more than one grid view with the same name.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	
1	Grid View Name	Grid View Description	Grid View Label (French)	Grid View Label (German)	Grid View Label (Italian)	Grid View Label (Japanese)	Grid View Label (Portuguese)	Grid View Label (Simplified)	Grid View Label (Spanish)	Grid View Label (Traditional Chinese)	Grid View Label (U.K. English)	Grid View Label (U.S. English)	Grid View Guidance	Grid View Guidance	Grid View Guidance	Root Object Type									
2	PRSA Update	View used for updating Process Risk Self Assessments.	Mise à jour PRSA	PRSA-Aktualisierung	Aggiornamento PRSA	PRSA の更新	Atualização o PRSA	PRSA 更新	Actualización de PRSA	PRSA 更新	PRSA Update	PRSA Update	View used for updating Process Risk Self	Yes	No	Process									
3	Root Object Fields	Root Object Fields Read-Only	Root Object Fields Read-Only	Is Visible	Compact Mode	Column Width	Section Label (French)	Section Label (German)	Section Label (Italian)	Section Label (Japanese)	Section Label (Portuguese)	Section Label (Simplified Chinese)	Section Label (Spanish)	Section Label (Traditional)	Section Label (U.K. English)	Section Label (U.S. English)	Section Label (French)	Section Label (German)	Section Label (Italian)	Section Label (Portuguese)	Section Label (U.K. English)	Section Label (U.S. English)	Enabled	Default	
4	Root Object Field Groups	Root Object Fields Read-Only	Root Object Fields Read-Only	Is Visible	Compact Mode	Column Width	Section Label (French)	Section Label (German)	Section Label (Italian)	Section Label (Japanese)	Section Label (Portuguese)	Section Label (Simplified Chinese)	Section Label (Spanish)	Section Label (Traditional)	Section Label (U.K. English)	Section Label (U.S. English)	Section Label (French)	Section Label (German)	Section Label (Italian)	Section Label (Portuguese)	Section Label (U.K. English)	Section Label (U.S. English)			
5	Section	General	Yes	No	No		General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General
6	System Fields	Name	Yes	Yes	Yes																				
7	System Fields	Description	Yes	Yes	Yes																				
8	OPSS-Process	Process Owner	Yes	No	No																				
9	Section	Status and Approval	Yes	No	No		Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	
10	OPSS-Process	Status	Yes	Yes	No																				
11	OPSS-Process	Approval Date	Yes	No	No																				
12	Child Object Type Parent	Child Object Type	Child Paths	Child Filters	Level																				
13	Process	Risk	Process/Risk	My PRSA Processes	2																				
14	Process	Risk	OPSS-Sub-Processes	Risk																					
15	Risk	Control	Risk/Control		3																				
16	Sort Criteria Object Type	Sort Criteria Field Group	Sort Criteria Field Name	Sort Type																					
17	Process	Risk	OPSS-Rsk	Risk Rating	Ascending																				
18	Process	Risk	OPSS-Rsk	Risk Impact	Descending																				
19	Process	Risk	OPSS-Rsk	Risk Impact	Descending																				
20	Risk	Control	OPSS-Ctl	Owner	Ascending																				
21	Child Object Type Parent	Child Object Type	Field Group	Field Name	Read-Only in Detail View	Is Visible	Compact Mode	Column Width	Section Label (French)	Section Label (German)	Section Label (Italian)	Section Label (Japanese)	Section Label (Portuguese)	Section Label (Simplified Chinese)	Section Label (Spanish)	Section Label (Traditional)	Section Label (U.K. English)	Section Label (U.S. English)							
22	Process	Risk	Section	General	Yes	No	No		General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General	General
23	Process	Risk	System Fields	Name	Yes	Yes	Yes																		
24	Process	Risk	System Fields	Description	Yes	Yes	Yes																		
25	Process	Risk	Section	Status and Approval	Yes	No	No		Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	Status and Approval	
26	Process	Risk	OPSS-Risk	Status	No	Yes	Yes																		
27	Process	Risk	OPSS-Risk	Submit	No	Yes	Yes																		
28	Process	Risk	OPSS-Risk	Approve Reject	No	Yes	No																		
29	Process	Risk	OPSS-Risk	Rejecton	No	Yes	No																		
30	Process	Risk	OPSS-Risk	Risk Categorization	Yes	No	No		Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	Risk Categorization	
31	Waiver	Workpaper	GV - Enter KRI Values	GV - Approve KRI Values	GV - Enter KPI Values	GV - Approve KPI Values	GV - PRSA Update	GV - PRSA Review	AV - UCF Mandates	AV - Deloitte Mandates	AV - Deloitte Mandates Overview	AV -													

Figure III.h.1: A sample Grid View worksheet

A Grid View is a navigational view that consists of up to three object type sections.

- Root object type.
- Child object type of root object type (first-level child).
- Child object type of child object type (second-level child).

Each grid view worksheet contains the following sections and columns. Each section is separated by one, and only one, empty row (refer to Figure III.g.1)

Section 1

Defines the Grid View. Configuration of this section is required and consists of one row.

- **Grid View Name**
The name of the grid view.
- **Grid View Description**
The description of the grid view, available to be viewed by Administrators.
- **Grid View Label ([Locale Name])**
Grid view labels for each locale. The [Locale Name] must match the locale name in the application; case-and-punctuation-sensitive.
- **Grid View Guidance ([Locale Name])**
Grid view rich text guidance for each locale, available to be viewed by end users. The [Locale Name] must match the locale name in the application; case-and-punctuation-sensitive.
- **Enabled**
Determines whether or not this view is enabled (available for use by end-users) in the application. Possible values are "Yes" and "No".
- **Default**
Indicates whether or not this view is the default view available to users viewing an object of the root object type in the application (rather than the "Filtered List" view or any other Navigational view defined for this object). Possible values are "Yes" and "No". This field is informational only; use the *Default Views* worksheet to set the actual default view for an object type.
- **Root Object Type**
The object type for which this grid view is defined. If the grid view is enabled, this grid view will appear in the View Selector on this object type's consolidated filtered list view page.

Section 2

Determines and configures the fields that appear in the root object type's section of the grid view. Configuration of this section is required.

- **Root Object Field Groups**
The field group name for the Root Object Field specified in the next column.
- **Root Object Fields**
The field names you want to appear in the root object type's section of the grid view.
- **Root Object Fields Read-Only**
Determines whether or not the fields you want to appear in the root object type's section of the grid view are read-only. Possible values are "Yes" and "No".
- **Is Visible**
Determines whether or not the fields you want to appear in the root object type's section of the grid view are visible in Full mode. All fields configured will be visible in the Info Card for that object type. Only the fields where Visible is set to "Yes" will appear when the root object type's section of the grid view is in Full mode. Possible values are "Yes" and "No".
- **Compact Mode**
Determines whether or not the fields you want to appear in the root object type's section of the grid view are visible in Compact mode. Only the fields where Compact Mode is set to "Yes" will appear when the root object type's section of the grid view is in Compact mode. Possible values

are “Yes” and “No”. A field can only be included in Compact mode if it is also included in Full mode.

- **Column Width**

Determines the width of the fields you want to appear in the root object type’s section of the grid view. Width of the field should be in pixels. If left blank, the column width will be determined by the OpenPages system.

- **Section Label ([Locale Name])**

The section name labels of the sections you want to appear in the root object type’s Info Card. The [Locale Name] must match the locale name in the application; it is case-and-punctuation-sensitive.

Section 3

Determines the optional first- and second-level child object types to be included in the grid view. Up to 2 child levels can be displayed in a grid view. The second-level child object type must be a descendant of the first-level child object type, which must be a descendant of the root object type.

- **Child Object Type Parent**

Parent object type for the first- or second- level child object type specified in the next column.

- **Child Object Type**

First- or second- level object type name.

- **Child Paths**

Alt-enter separated list of valid paths the grid view should follow from the parent object type to the child object type.

- **Child Filters**

Filter the grid view should apply to find objects of the child object type. The filter must be defined for the child object type (not the parent object type, nor any object type in between the two).

- **Level**

If this is a first-level child object type then this should be “2”. If this is a second-level child object type then this should be “3”. No more than one first level child object type and no more than one second level object type can be configured for a single grid view. File (SOXDocument) and Link (SOXExternalDocument) object types cannot be configured in grid views.

Section 4

Defines sorting information to be applied to the

- **Sort Criteria Object Type Parent**

Parent object type for the Sort Criteria Object Type specified in the next column.

- **Sort Criteria Object Type**

The first- or second-level object type to which the sort will apply.

- **Sort Criteria Field Group**

Field Group name of the field that will be sorted.

- **Sort Criteria Field Name**

Field name of the field that will be sorted.

- **Sort Type**

“Ascending” or “Descending”, the order of the sort to be applied.

Note: For a given object type, the order that the fields are specified in this section are the order that the sorts are applied in the application. For instance, if for the object type “Risk” you wanted to apply a sort on “Risk Rating”, then “Risk Impact”, specify a line for “Risk Rating” first, then “Risk Impact”.

Section 5

Determines and configures the fields to be displayed in the first- and second- level child object types to be included in the grid view.

- **Child Object Type Parent**
Parent object type for the first- or second- level child object type specified in the next column.
- **Child Object Type**
Child object type name.
- **Field Group**
Field group name of field to be displayed.
- **Field Name**
Field name of a field to be displayed.
- **Read-Only in Detail View**
Determines whether or not the fields you want to appear in the first- or second-level child object type's section of the grid view are read-only for this grid view. Possible values are “Yes” and “No”.
- **Is Visible**
Determines whether or not the fields you want to appear in the first- or second-level child object type's section of the grid view are visible in Full mode. All fields configured will be visible in the Info Card for that object type. Only the fields where Visible is set to “Yes” will appear when the first- or second-level child object type's section of the grid view is in Full mode. Possible values are “Yes” and “No”.
- **Compact Mode**
Determines whether or not the fields you want to appear in the first- or second-level child object type's section of the grid view are visible in Compact mode. Only the fields where Compact Mode is set to “Yes” will appear when the first- or second-level child object type's section of the grid view is in Compact mode. Possible values are “Yes” and “No”. A field can only be included in Compact mode if it is also included in Full mode.
- **Column Width**
Determines the width of the fields you want to appear in the first- or second-level child object type's section of the grid view. Width of the field should be in pixels. If left blank, the column width will be determined by the OpenPages system.
- **Section Label ([Locale Name])**
The section name labels of the sections you want to appear in the first- or second-level child object type's Info Card. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive.

i. The Creation View Worksheets

Next is a series of worksheets that contain information about creation views. Each worksheet specifies the information needed to create one creation view in the application. The worksheet's name must begin with "CV – ". Ideally the full name would be "CV – [creation view name]", but "CV – [number]" is acceptable as well if you have more than one creation view with the same name.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	Creation View Name	Creation View Description	Creation View Label (French)	Creation View Label (German)	Creation View Label (Italian)	Creation View Label (Japanese)	Creation View Label (Portuguese)	Label (Simplified Chinese)	Creation View Label (Spanish)	Label (Traditional Chinese)	Creation View Label (U.K. English)	Creation View Label (U.S. English)	Enabled	Default	View Selector	Creation View Root Object Type	
2	Program for Process Questionnaire-based Assessment	New Program for Process Questionnaire Based Assessment	Yes	No	Yes	Program											
3																	
4	Creation View Root Object Field Groups	Creation View Root Object Fields	Creation View Root Object Fields Read-Only	Creation View Section Label (French)	Creation View Section Label (German)	Creation View Section Label (Italian)	Creation View Section Label (Japanese)	Creation View Section Label (Portuguese)	Creation View Section Label (Simplified Chinese)	Creation View Section Label (Spanish)	Creation View Section Label (Traditional Chinese)	Creation View Section Label (U.K. English)	Creation View Section Label (U.S. English)	on View Section Label	Creation View Section Label	Creation View Root Object Type	
5	System Fields	Name	No														
6	System Fields	Description	No														
7	OPSS-Program	Types	No														
8	OPLC-Owners	PrimaryOwner	No														
9	OPLC-Owners	Reviewer	No														
10	OPLC-Owners	Approver	No														
11	OPLC-Owners	AdditionalOwners	No														
12	Section	Lifecycle	Yes	Lifecycle	Lifecycle	Lifecycle	Lifecycle	Lifecycle									
13	OPSS-Program	Lifecycle	No														
14	OPSS-Program	AssessmentDueDate	No														
15																	
16	Creation View Child Object Type Parent	Creation View Child Object Type	Creation View Child Paths	Creation View Child Filters	Creation View Level	Creation View Separate Page											
17	Program	Process			Yes												
18	Program	Questionnaire Template			Yes												
19																	
20	Sort Criteria Object Type Parent	Sort Criteria Object Type	Sort Criteria Object Group	Sort Criteria Field Name	Sort Criteria Field Sort Type												
21																	
22	Creation View Child Object Type Parent	Creation View Child Object Type	Creation View Field Group	Creation View Field Name	Creation View Read-Only in Detail View	Creation View Include in View	Creation View Include in List View	Creation View Section Label (French)	Creation View Section Label (German)	Creation View Section Label (Italian)	Creation View Section Label (Japanese)	Creation View Section Label (Portuguese)	on View Section Label (Simplified Chinese)	Creation View Section Label (Spanish)	on View Section Label (Traditional Chinese)	Creation View Section Label (U.K. English)	Creation View Label (U.S. English)
23																	
24																	

Figure III.i.1: A sample Creation View worksheet

A Creation View is a view that consists of up to two object type sections.

- i. Root object type.
- ii. One or more child object type of root object type (first-level child).

Each creation view worksheet contains the following sections and columns. Each section is separated by one, and only one, empty row (refer to Figure III.h.1)

Section 1

Defines the Creation View. Configuration of this section is required and consists of one row.

- **Creation View Name**
The name of the creation view.
- **Creation View Description**
The description of the creation view, available to be viewed by Administrators.
- **Creation View Label ([Locale Name])**
Creation view labels for each locale. The [Locale Name] must match the locale name in the application; case-and-punctuation-sensitive.
- **Enabled**
Determines whether or not this view is enabled (available for use by end-users) in the application. Possible values are “Yes” and “No”.
- **Default**
Indicates whether or not this view is selected by default on Add New dialog. Possible values are “Yes” and “No”. This field is informational only; use the *Default Views* worksheet to set the actual default view for an object type.
- **View Selector**
Determines whether or not this view appear in the view selector. Possible values are “Yes” and “No”.
- **Creation View Root Object Type**
The object type for which this creation view is defined. If the creation view is enabled, this creation view will be available on Add New dialog to be selected.

Section 2

Determines and configures the fields that appear in the root object type’s section of the creation view. Configuration of this section is required.

- **Creation View Root Object Field Groups**
The field group name for the Root Object Field specified in the next column.
- **Creation View Root Object Fields**
The field names you want to appear in the root object type’s section of the creation view.
- **Creation View Root Object Fields Read-Only**
Determines whether or not the fields you want to appear in the root object type’s section of the creation view are read-only. Possible values are “Yes” and “No”.
- **Section Label ([Locale Name])**
The section name labels of the sections you want to appear in the root object type’s Info Card. The [Locale Name] must match the locale name in the application; it is case-and-punctuation-sensitive.

Section 3

Determines the first-level child object type to be included in the creation view. There can be more than one first-level child object type.

- **Creation View Child Object Type Parent**

Parent object type for the first-level child object type specified in the next column.

- **Creation View Child Object Type**

First-level child object type name.

- **Creation View Child Paths**

This cell is not used. Leave blank.

- **Creation View Child Filters**

This cell is not used. Leave blank.

- **Creation View Level**

This cell is not used. Leave blank.

- **Creation View Separate Page**

Determines whether this child object type page is on a separate page on Add New dialog. Possible values are “Yes” and “No”.

j. The Dependent Picklists Worksheet

The *Dependent Picklists* worksheet, shown in Figure III.j.1, defines dependent picklists for the system. With this worksheet you can configure a list of items (drop-down or list box) so that the items in the list are dynamically filtered based upon some value selected by a user in another list. The dynamic filtering of lists can be used to help guide users in the selection of relevant values from lists during the creation or editing of an object.

Two fields are involved: 1) the Controlling field, and 2) the Dependent field. A selection in the controlling field determines the options available in the dependent field. Both fields must be enumerated string lists.

This worksheet is global, not profile specific.

The screenshot shows a Microsoft Excel spreadsheet titled "Microsoft Excel - FCM Module.xls". The active sheet is named "Dependent Picklists". The data is organized into several columns:

	A	B	C	D	E	F	G	H	I
1	Object Type	Controlling Field Field Group	Controlling Field Field	Dependent Field Field Group	Dependent Field Field	Controlling Field Value	Dependent Values	Enable	Is Dimension
2	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	ORX Business Line Level	Private Banking	Treasury/Funding Corporate Investments Equities Global Markets	Yes	Yes
3	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Trading & Sales		Yes	Yes
4	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Commercial Banking	Commercial Banking	Yes	Yes
5	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Retail Banking	Retail Banking Card Services	Yes	Yes
6	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Corporate Finance	Advisory Services Corporate Finance Municipal/Government Finance	Yes	Yes
7	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Securities Clearing	Cash Clearing	Yes	Yes
8	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Fund Management	Clearing	Yes	Yes
9	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Asset Management	Custody Services Corporate Trust & Agency Custom Services	Yes	Yes
10	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Agency Services		Yes	Yes
11	External Loss	OpenPagesStandardExternalLoss	1	ORX Business Line Level	OpenPagesStandardExternalLoss	Corporate Items	Corporate Items	Yes	Yes
12	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Retail Brokerage	Unauthorized Activity Internal Theft and Fraud (General) Internal Systems Security (for profit)	Yes	Yes
13	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Internal Fraud	Employee Relations Safe Workplace Environment Employment Diversity and Discrimination	Yes	No
14	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Safety	Accidents and Public Safety Disasters and Other Events	Yes	No
15	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Disasters and Public Safety	System Security Internal-Willful Damage Terrorism Willful Damage Systems Security External-Willful Damage	Yes	No
16	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Malicious Damage	Technology and Infrastructure Failures	Yes	No
17	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Technology and Infrastructure Failures	Maintenance Customer Intake and Account Management	Yes	No
18	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Execution, Delivery and Process Management	Monitoring and Reporting Errors	Yes	No
19	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	External Fraud	External Systems Security (for profit) External Theft and Fraud (General)	Yes	No
20	External Loss	OpenPagesStandardExternalLoss	ORX Event Type Level 1	OpenPagesStandardExternalLoss	ORX Event Type Level 2	Product Flaws	Improper Business or Market Practices	Yes	No

Figure III.j.1: Dependent Picklists worksheet

The worksheet contains the following columns:

- **Object Type**
The object type for which this dependency should be defined.
- **Controlling Field Field Group and Controlling Field Field Name**
Defines the field that controls the values that appear in another field.
- **Dependent Field Field Group and Dependent Field Field Name**
Defines the field to which the dynamic filtering will be applied.
- **Controlling Field Value**
Defines the controlling field value that dynamically filters the dependent field.
- **Dependent Values**
Defines the values that will appear in the dependent field when the controlling value is selected for the controlling field. This is a line-delimited (Alt + Enter in Excel) list of enumerated values.
- **Enabled**
Defines whether this dependency is enabled or not. Possible values are “Yes” and “No”.
- **Is Dimension**
Defines whether this dependency is a dimension in the reporting framework. Possible values are “Yes” and “No”.

k. The Enumerations Worksheet

The *Enumerations* worksheet, shown in Figure III.k.1, defines Enumerations for the system. With this worksheet you can configure a) Possible values for List field types b) Possible values & hierarchy structure for hierarchical fields.

Values for the List field types can be defined in this worksheet if and only if the Possible Values section is left blank in the worksheet where field is defined. These List field types should not have Parent Value defined for them.

Values for the Hierarchical field types should be defined in this worksheet and also the Possible Values section should be left blank for those in the worksheet where the field is defined. For Hierarchical fields they can have Parent Value defined. Parent Value is a value that belongs to the same field in the same field group.

This worksheet is global, not profile specific. When exporting individual profiles only the fields that are in the profile would be selected.

The screenshot shows a Microsoft Excel spreadsheet titled "AFCON OPS RCM Master - 18-Jul-19 143820 copy". The "Enumerations" tab is selected. The table has columns labeled A through Q. The first few rows of data are as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Field Group	Field Name	Possible Value	Description	isHidden	Parent Value	Possible Value (French)	Possible Value (German)	Possible Value (Italian)	Possible Value (Japanese)	Possible Value (Portuguese)	Possible Value (Report Design Language)	Possible Value (Simplified Chinese)	Possible Value (Spanish)	Possible Value (Traditional Chinese)	Possible Value (U.K. English)	Possible Value (U.S. English)
2	RCM-TRRI-Taxonomy	Geography	Africa	ID4CB7E04590 11E3A899B08B7 B2F604	No		Africa	Africa	Africa	Africa	Africa	Africa	Africa	Africa	Africa	Africa	
3	RCM-TRRI-Taxonomy	Geography	Algeria	ID4CBA5904590 11E3A899B08B7 B2F604	No	Africa	Algeria	Algeria	Algeria	Algeria	Algeria	Algeria	Algeria	Algeria	Algeria	Algeria	
4	RCM-TRRI-Taxonomy	Geography	Angola	ID4CBF3B04590 11E3A899B08B7 B2F604	No	Africa	Angola	Angola	Angola	Angola	Angola	Angola	Angola	Angola	Angola	Angola	
5	RCM-TRRI-Taxonomy	Geography	Benin	ID4CC1AC04590 11E3A899B08B7 B2F604	No	Africa	Benin	Benin	Benin	Benin	Benin	Benin	Benin	Benin	Benin	Benin	
6	RCM-TRRI-Taxonomy	Geography	Botswana	ID4CC68E04590 11E3A899B08B7 B2F604	No	Africa	Botswana	Botswana	Botswana	Botswana	Botswana	Botswana	Botswana	Botswana	Botswana	Botswana	
7	RCM-TRRI-Taxonomy	Geography	Burkina Faso	ID4CB8704590 11E3A899B08B7 B2F604	No	Africa	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	Burkina Faso	
8	RCM-TRRI-Taxonomy	Geography	Burundi	ID4CCDDE104590 11E3A899B08B7 B2F604	No	Africa	Burundi	Burundi	Burundi	Burundi	Burundi	Burundi	Burundi	Burundi	Burundi	Burundi	
9	RCM-TRRI-Taxonomy	Geography	Cameroon	ID4CD2C304590 11E3A899B08B7 B2F604	No	Africa	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	Cameroon	
10	RCM-TRRI-Taxonomy	Geography	Cape Verde	ID4CD53404590 11E3A899B08B7 B2F604	No	Africa	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	Cape Verde	
11	RCM-TRRI-Taxonomy	Geography	Central African Republic	ID4CD7A504590 11E3A899B08B7 B2F604	No	Africa	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	Central African Republic	
12	RCM-TRRI-Taxonomy	Geography	Chad	ID4CD8704590 11E3A899B08B7 B2F604	No	Africa	Chad	Chad	Chad	Chad	Chad	Chad	Chad	Chad	Chad	Chad	
	RCM-TRRI-	Geography	Congo	ID4CDFE804590	No	Africa	Congo	Congo	Congo	Congo	Congo	Congo	Congo	Congo	Congo	Congo	

Figure III.k.1: Dependent Picklists worksheet

The worksheet contains the following columns:

- **Field Group**
The Field Group for the field.
- **Field Name**
Defines the field.
- **Possible Value**
Defines the value. There should only be one value defined per row.
- **Description**
Defines the EnumVal's description.
- **IsHidden**
Defines if the value is hidden. Possible values are "Yes" and "No".
- **Parent Value**
If the field type is defined as Hierarchical or Multi-Select Hierarchical, the value can have a parent defined. Parent Value should also be defined as a value for the field.
- **Possible Value (Language)**
Defines the label for the field in the Language.

I. The Dependencies Worksheet

The *Dependencies* worksheet, shown in Figure III.I.1, defines field dependencies for the system. With this worksheet, you can configure a field so that its behavior – Visible, Editable, or Required – is dynamic based upon some value selected by a user in another field or set of fields. The dynamic behavior of dependent fields can be used to help guide users during the creation or editing of an object.

Notes:

- Controller fields can only be enumerated string lists (single- or multi-select) or Actor fields.
- Dependent fields cannot include System fields.
- Dependent fields are not supported in custom forms.
- Computed and report fragment fields, as dependent fields, can only have a behavior of “Visible”.

This worksheet is global, not profile specific; make sure to include field dependencies for all profiles.

A	B	C	D	E	F	G	H	I
Object Type	Dependent Field Field Group	Dependent Field Field Name	Behavior Type	Operator	Controlling Field Field Group	Controlling Field Field Name	Controlling Field Value	Enabled
174 Issue	OPSS-Iss	Identified By Individual	VISIBLE	and	OPSS-Iss	Issue Type	Control Activity Missing	No
175 Issue	OPSS-Iss	Identified By Individual	VISIBLE	and	OPSS-Iss	Issue Type	Scoping	No
176 Issue	OPSS-Iss	Identified By Individual	VISIBLE	and	OPSS-Iss	Issue Type	Design Effectiveness	No
177 Issue	OPSS-Iss	Identified By Individual	VISIBLE	and	OPSS-Iss	Issue Type	Operating Effectiveness	No
178 Issue	OPSS-Iss	Identified By Individual	VISIBLE	and	OPSS-Iss	Issue Type	Policy/Standard Violation	No
179 Issue	OPSS-Iss	Identified By Individual	EDITABLE	and	OPSS-Iss	Issue Type	Control Activity Missing	No
180 Issue	OPSS-Iss	Identified By Individual	EDITABLE	and	OPSS-Iss	Issue Type	Scoping	No
181 Issue	OPSS-Iss	Identified By Individual	EDITABLE	and	OPSS-Iss	Issue Type	Design Effectiveness	No
182 Issue	OPSS-Iss	Identified By Individual	EDITABLE	and	OPSS-Iss	Issue Type	Operating Effectiveness	No
183 Issue	OPSS-Iss	Identified By Individual	EDITABLE	and	OPSS-Iss	Issue Type	Policy/Standard Violation	No
214 KeyRiskIndicator	OPSS-KRI	Frequency	REQUIRED	and	OPSS-KRI	Status	Active	Yes
215 KeyRiskIndicator	OPSS-KRI	Frequency Offset Days	REQUIRED	and	OPSS-KRI	Status	Active	Yes
216 KeyRiskIndicator	OPSS-KRI-Shared	Yellow Threshold	REQUIRED	and	OPSS-KRI	Status	Active	Yes
217 KeyRiskIndicator	OPSS-KRI-Shared	Red Threshold	REQUIRED	and	OPSS-KRI	Status	Active	Yes
233 Loss Event	OPSS-LossEv	Submit	VISIBLE	and	OPSS-LossEv	Status	Open	Yes
234 Loss Event	OPSS-LossEv	Rejection Comments	REQUIRED	and	OPSS-LossEv	Approve Reject	Reject	Yes
235 Loss Event	OPSS-LossEv	Rejection Comments	EDITABLE	and	OPSS-LossEv	Approve Reject	Reject	Yes
708 Audit	OPSS-Aud	Close Audit	VISIBLE	or	OPSS-Aud	Owner	##{logged in user}##	Yes
709 Audit	OPSS-Aud	Close Audit	VISIBLE	or	OPSS-Aud	AudMgrsRevs	##{logged in user}##	Yes
710 Audit	OPSS-Aud	Plans	VISIBLE	or	OPSS-Aud	Owner	##{logged in user}##	Yes
711 Audit	OPSS-Aud	Plans	VISIBLE	or	OPSS-Aud	AudMgrsRevs	##{logged in user}##	Yes
712 Audit	OPSS-Aud	Estimated Hours	EDITABLE	or	OPSS-Aud	Owner	##{logged in user}##	Yes
713 Audit	OPSS-Aud	Estimated TE	EDITABLE	or	OPSS-Aud	Owner	##{logged in user}##	Yes
730 Workpaper	OPSS-Work	Preparation Status	EDITABLE	and	OPSS-Work	Preparer	##{logged in user}##	Yes
731 Workpaper	OPSS-Work	Preparer Comments	EDITABLE	and	OPSS-Work	Preparer	##{logged in user}##	Yes
732 Workpaper	OPSS-Work	Preparation Complete Date	EDITABLE	and	OPSS-Work	Preparer	##{logged in user}##	Yes
733 Workpaper	OPSS-Work	Review Status	EDITABLE	and	OPSS-Work	Reviewer	##{logged in user}##	Yes
734 Workpaper	OPSS-Work	Reviewer Comments	EDITABLE	and	OPSS-Work	Reviewer	##{logged in user}##	Yes
735 Workpaper	OPSS-Work	Conclusion	EDITABLE	and	OPSS-Work	Reviewer	##{logged in user}##	Yes
736 Workpaper	OPSS-Work	Review Complete Date	EDITABLE	and	OPSS-Work	Reviewer	##{logged in user}##	Yes

Figure III.I.1: *Dependencies* worksheet

The worksheet contains the following columns:

- **Object Type**
The object type for which this dependency should be defined.
- **Dependent Field Field Group and Dependent Field Field Name**
Defines the field to which the dynamic behavior will be applied.
- **Behavior Type**
Defines the behavior of the dependent field; possible values are “VISIBLE”, “REQUIRED”, or “EDITABLE”.
- **Operator**
If the behavior of the dependent field is dependent on more than one controlling field, determines if all of the controlling conditions need to be met or if any one condition is sufficient to apply the behavior. Possible values are “AND” and “OR”.
- **Controlling Field Field Group and Controlling Field Field Name**
Defines the field that controls the behavior of the dependent field.
- **Controlling Field Value**
Defines the controlling field value that dynamically changes the behavior of the dependent field.
- **Enabled**
Defines whether this dependency is enabled or not. Possible values are “Yes” and “No”.

m. **The Field Exclusions Worksheet**

The *Field Exclusions* worksheet, shown in Figure III.m.1, defines field exclusions for the system. With this worksheet, you can configure a field so that it does or does not appear in certain ‘subsystems’. The ‘subsystems’ supported at this time are Legacy Workflow and the Reporting Framework.

This worksheet is global, not profile specific, and so make sure to include all field exclusions for all profiles.

Note: The reporting framework will need to be updated after excluding a field from the Reporting Framework subsystem.

Caution: Removing a field from a subsystem could cause an existing Cognos report or workflow to fail. Changes to any Cognos report or workflow containing an excluded field will have to made.

A	B	C	D	E
Object Type	Field Group	Field Name	Subsystem	Excluded
Entity	OPSS-BusEnt	Logo URL	Reporting Framework	Yes
Process	OPSS-Process	SOX Scope Rationale	Workflow	Yes
Control	OPSS-Ctl	Operating Effectiveness	Reporting Framework	Yes
Control	OPSS-Ctl	Operating Effectiveness	Workflow	Yes

Figure III.m.1: *Field Exclusions* worksheet

The worksheet contains the following columns:

- **Object Type**
The object type of the field to be excluded.
- **Field Group**
The field group of the field to be excluded.
- **Field Name**
The field name of the field to be excluded.
- **Subsystem**
The subsystem from which this field is to be excluded. Possible values are “Workflow” or “Reporting Framework”. In order to exclude a field from both subsystems, add two rows for the field.
- **Excluded**
Determines if field will be excluded or not. Possible values are “Yes” and “No”.
 - YES: The field will be excluded from the subsystem.
 - NO: If the field is currently excluded, it will no longer be excluded from the subsystem.

n. The Labels – Object Types Worksheet

The worksheet *Labels – Object Types*, Figure III.n.1, allows the user to enter locale-specific labels for each locale in OpenPages. Each locale has a column in this worksheet; the text entered in the locale column is the display label of the relevant object type for that locale.

1	Add/Update Label	Object Type	Singular or Plural	Object Type Label (U.S. English)	Object Type Label (French)	Object Type Label (Spanish)	Object Type Label (German)	Object Type Label (Japanese)
2	Yes	Entity	Singular Value:	Business Entity	Entité opérationnelle	Entidad de negocios	Geschäftsentity	拠点
3	Yes	Entity	Plural Value:	Business Entities	Entités opérationnelles	Entidades de negocios	Geschäftsentityen	拠点
4	Yes	Process	Singular Value:	Process	Processus	Proceso	Prozess	プロセス
5	Yes	Process	Plural Value:	Processes	Processus	Procesos	Prozesse	プロセス
6	Yes	Subprocess	Singular Value:	Sub-Process	Sous-processus	Subproceso	Unterprozess	サブプロセス
7	Yes	Subprocess	Plural Value:	Sub-Processes	Sous-processus	Subprocesos	Unterprozesse	サブプロセス
8	Yes	Account	Singular Value:	Account	Compte	Cuenta	Konto	勘定科目
9	Yes	Account	Plural Value:	Accounts	Comptes	Cuentas	Konten	勘定科目
10	Yes	Subaccount	Singular Value:	Sub-Account	Sous-compte	Subcuenta	Unterkonto	補助科目
11	Yes	Subaccount	Plural Value:	Sub-Accounts	Sous-comptes	Subcuentas	Unterkonten	補助科目
12	Yes	Control Objective	Singular Value:	Control Objective	Objectif de contrôle	Objetivo de control	Kontrollziel	統制目標
13	Yes	Control Objective	Plural Value:	Control Objectives	Objectifs de contrôle	Objetivos de control	Kontrollziele	統制目標
14	Yes	Risk	Singular Value:	Risk	Risque	Riesgo	Risiko	リスク
15	Yes	Risk	Plural Value:	Risks	Risques	Riesgos	Risiken	リスク
16	Yes	Control	Singular Value:	Control	Contrôle	Control	Kontrolle	統制活動

Figure III.n.1: *Labels – Object Types* worksheet

The worksheet contains the following columns:

- **Add/Update Label**
Determines whether or not the object type label is added or updated. Possible values are "Yes" and "No".
- **Object Type**
The object type of the label.
- **Singular or Plural**
Determines under which condition the label is to be used. Possible values are: "Singular Value:" and "Plural Value:". You should include options for singular and plural, on separate rows, even if the label is the same for both.
- **Object Type Label ([Locale Name])**
The label to be added or updated. The [Locale Name] must match the locale name in the application, case-and-punctuation-sensitive.

o. The Home Page Tabs Worksheet

The *Home Page Tabs* worksheet, shown in Figure III.o.1, defines what tabs should appear on the home page and what order they should appear in (from top to bottom). These tabs can be of one of the four types: My Work Home Page, Dashboard, Business Process Portal, Report (JSP, CommandCenter and Cognos Dashboard).

1	Type	Report Path	Report Name	Enabled	JSON Config
2	DEFAULT			Yes	{ "panels": [{ "row": "0", "locked": "false", "title": "Admin Panel 1", "type": "WidgetList", "col": "0", "widgets": [] }] }
3	DASHBOARD			Yes	
4	IBM_BPM_PROCESS_PORTAL			Yes	
5	REPORT	/OpenPages V6/Audit Management Reports	Audit Overview	Yes	
6	REPORT	/OpenPages V6/Audit Management Reports	Audit Plan	Yes	
7	REPORT	/OpenPages V6/Audit Management Reports	Audit Universe	Yes	
8	REPORT	/OpenPages V6/Audit Management Reports	Auditor Deviation	Yes	
9	REPORT	/OpenPages V6/Audit Management Reports	Auditor Plan	Yes	
10	REPORT	/OpenPages V6/Audit Management Reports	Internal Audit Report	Yes	
11	REPORT	/OpenPages V6/Audit Management Reports	Timesheet Entry	Yes	
12	REPORT	/OpenPages V6/Audit Management Reports	Administrator Timesheet Entry	Yes	

Figure III.o.1: Home Page Tabs worksheet

The worksheet contains the following columns:

- **Type**

The type of tab. Possible values are “DEFAULT”, “DASHBOARD”, “IBM_BPM_PROCESS_PORTAL” or “REPORT”.

- DEFAULT: Indicates the My Work home page tab. Only one DEFAULT entry should be entered.
- DASHBOARD: Indicates the Dashboard tab.
- IBM_BPM_PROCESS_PORTAL: Indicates Business Process Portal tab.
- REPORT: Indicates a report page tab. This can be a JSP, CommandCenter and Cognos Dashboard.

- **Report Path**

The path of the report. This path should be relative to the “Reporting” drop down menu in the OpenPages user interface. This will be blank for an item of type DEFAULT, DASHBOARD and IBM_BPM_PROCESS_PORTAL.

- **Report Name**

The report that should appear as a home page tab. This will be blank for an item of type DEFAULT, DASHBOARD and IBM_BPM_PROCESS_PORTAL.

- **Enabled**

Whether or not the home page tab is enabled. Tabs that are not enabled will not display on the home page. Possible values are “Yes” and “No”.

- **JSON Config**

The JSON configuration for the dashboard. This column can contain the JSON data and should be provided only for the homepage tab of type DASHBOARD. For all the other types this tab can be left blank.

p. **The Classic Home Page Worksheet**

The *Classic Home Page* worksheet, shown in Figure III.p.1, defines what predefined lists will appear on the My Work tab for a given profile. In addition, it defines the reports that appear in the “My Reports” list if this list is enabled and the reports that appear embedded in the My Work Home Page. This tab can be blank if the My Work Home Page is disabled on the Home Page Tabs worksheet (Figure III.I.1).

A	B	C
Report Name	Report Path	Type
myCheckedOutFiles		Predefined
myTasks		Predefined
myJobs		Predefined
myReports		Predefined
Audit Summary	/OpenPages V6/Audit Reports	Listing
Disassociated Objects	/OpenPages V6/Administrative Reports	Listing
Roles by User	/OpenPages V6/Audit Reports/Security	Listing
User Role Assignments	/OpenPages V6/Audit Reports/Security	Listing
Active Tasks	/OpenPages V6/Workflow Reports	Embedded
11		

Home Page Tabs Classic Home Page Overviews Default Views

Figure III.p.1: *Classic Home Page* worksheet

The worksheet contains the following columns:

- **Report Name**
The report or predefined filter that should appear on the My Work tab.
- **Report Path**
The path of the report. This path should be relative to the “Reporting” drop down menu in the OpenPages user interface. This will be blank for an item of type “Predefined”.
- **Type**
Possible values are “Predefined”, “Embedded”, and “Listing”.
 - Predefined: There are only four predefined lists to which this type can be applied:
 - myCheckedOutFiles
 - myTasks
 - myJobs
 - myReports
 - Embedded: Determines what report is displayed on the My Work tab in a separate pane. Only one embedded report should be configured for the My Work tab in a profile because there are performance considerations. For more information about embedded reports on the My Work tab, please refer to the *IBM OpenPages GRC Platform Administrator’s Guide*.
 - Listing: If the predefined myReports list is enabled, a report of type “Listing” will display a link to the report in the My Reports pane. There is no limit to the number of Listing report types you can have on a My Work tab.

q. **The Default Views Worksheet**

The *Default Views* worksheet, shown in Figure III.q.1, defines what the default navigational and object views are for each object type visible in a profile.

A	B	C	D
Object Type	Default Navigational View	Default Object View	Default Creation View
Account	Filtered List	Detail	
Action Item	Filtered List	Detail	
Assertion	Filtered List	Detail	
Attestation	Filtered List	Detail	
Audit	Filtered List	Detail	
Audit Review Comment	Filtered List	Detail	
Audit Section	Filtered List	Detail	
Auditable Entity	Filtered List	Detail	
Auditor	Filtered List	Detail	
Baseline	Filtered List	Detail	
Campaign	Filtered List	Detail	
Control	Filtered List	Detail	Add New
Control Eval	Filtered List	Detail	
Control Objective	Filtered List	Detail	
Control Plan	Filtered List	Detail	

◀
▶
...
Dependencies
Filters
Default Views
Security Rules
...
⊕
⋮
◀

Figure III.q.1: The Default Views worksheet

The worksheet contains the following columns:

- **Object Type**
Determines the object type being configured for default views.
- **Default Navigational View**
Determines the default view to use when navigating to object type instances. Possible values are “Folder”, “Filtered List” and the name of any Grid View defined for that object type. This worksheet will override the values specified on the individual Grid View worksheets.
- **Default Object View**
The default view to use when viewing an individual object type instance in OpenPages. Possible values are “Detail”, and the name of any Activity View defined for that object type. This worksheet will override the values specified on the individual Activity View worksheets.
- **Default Creation View**
Determines the default view to be selected by default in the Add New dialog when adding a new object type instance. Possible values are the name of any Creation Views defined for that object type.

r. **The Overviews Worksheet**

The Overviews worksheet, shown in Figure III.r.1, defines the overviews for each object type:

A	B	C	D
Overview Type	Show Object Description	Object Types to Include in Overview	Enabled
Entity	Yes	Entity Process Risk Control Risk Assessment Loss Event Loss Impact Loss Recovery Key Risk Indicator	Yes
Risk Assessment	Yes	Risk Assessment Process Risk Control	No

Figure III.r.1: The Overviews worksheet.

The worksheet contains the following columns:

- **Overview Type**
This column contains the object type for the overview.
- **Show Object Description**
Determines whether or not the overview includes the Description field for each object type instance displayed. Possible values are “Yes” and “No”.
- **Object Types to Include in Overview**
This column contains an alt-enter separated list of object types to be displayed in the overview. Note that if an object type is excluded all objects below it in the hierarchy will also be excluded. E.g. if in row 2 of Figure III.o.1 you remove the *Risk* object type from column C, then Controls will not appear in the overview (even though they are still listed in this worksheet).
- **Enabled**
This column defines whether or not the overview view is enabled for a given object type. Possible values are “Yes” and “No”.

Note: If you want to remove an overview link from the OpenPages menus, you can alternatively delete the row for that particular overview in this worksheet. This will also help make this worksheet easier to navigate and use.

s. The *Recursive Object Levels* Worksheet

The *Recursive Object Levels* worksheet, shown in Figure III.s.1, defines hierarchies for recursive object types for the reporting framework.

This worksheet is global, not profile specific, and so make sure to include all recursive object levels for all profiles. If you are not adding any new recursive object levels you can remove this worksheet from the workbook to prevent the possibility of overwriting any existing recursive object level configurations.

Note: The reporting framework will need to be updated after adding recursive object levels.

Figure III.s.1: Recursive Object Levels worksheet

The worksheet contains the following columns:

- **Object Type**
The object type for which the hierarchy is defined. This can only ever be a self-recursive object type (an object type that accepts associations to objects of the same type). The self-recursive object types OpenPages supports are: Business Entity, Sub-Process, Sub-Mandate, Sub-Account, and Milestone.
- **Recursive Object Levels Name**
For non-Business Entity object types, there is only one hierarchy, the name will match the object type's name and cannot be changed. Only Business Entities can have more than one hierarchy, each of which needs a unique name.
- **Recursive Object Levels Name ([locale])**
Translations for the Recursive Object Levels Name for each locale. The [locale] must match the locale name in the application, case-and-punctuation-sensitive.
- **Recursive Object Levels Description**
The description of the recursive object level hierarchy.
-
- **Starting Entity**
Valid for Business Entity hierarchies only, this defines the entity path that corresponds to level one of the hierarchy. The starting entity path must start with a forward slash (/). If you specify only a slash, the recursive object levels will apply to all root entity objects.
- **Levels**
Alt-enter separated list of level names. Level names must be unique across all recursive hierarchies.
- **Level Labels ([locale])**
Alt-enter separated lists of translations of the level names. The [locale] must match the locale name in the application, case-and-punctuation-sensitive.

Note: Make sure the alt-enter separated lists are in the same order as entered in the Levels column.

t. The Object Type Dimensions Worksheet

To enhance report authoring capability in the dimensional data model, object type dimensions can be defined. The *Object Type Dimensions* worksheet, shown in Figure III.t.1, defines the object type dimensions for the reporting framework.

This worksheet is global, not profile specific, and so make sure to include all object type dimensions for all profiles. If you are not adding any new object type dimensions you can remove this worksheet from the workbook to prevent the possibility of overwriting any existing object type dimension configurations.

Note: The reporting framework will need to be updated after adding object type dimensions.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dimension Name	Dimension Label (French)	Dimension Label (German)	Dimension Label (Italian)	Dimension Label (Japanese)	Dimension Label (Portuguese)	Dimension Label (Simplified Chinese)	Dimension Label (Traditional Chinese)	Dimension Label (U.K. English)	Dimension Label (U.S. English)	Dimension Description	Levels	Enabled	
2	GFS Org Hierarchy	Hierarchie organisati nelle	GFS-Org - Hierarchie	Gerarchia Org GFS	GFS 組織階層	Hierarquia Org GFS	GFS 组织层次	Jerarquía de org. GFS	GFS 組織階層	GFS Org Hierarchy	GFS Org Hierarchy		Corporate Region LOB Function	Yes
3	GFS Org - Issue	Organisati on GFS - Problème	GFS-Org - Problem	Org GFS - Problema	GFS 組織 課題	Org GFS - Problema	GFS 組織 問題	Org. GFS - Problema	GFS 組織 問題	GFS Org - Issue	GFS Org - Issue		Corporate Region LOB Function SOIssue	Yes

Figure III.t.1: *Object Type Dimensions* worksheet

The worksheet contains the following columns:

- **Dimension Name**

The name of the dimension. The following are considerations when creating dimension names:

- Every dimension name must be unique.
- The reporting framework generator will replace spaces in the name with an underscore.

Note: Taking these two considerations together, AFCON will view “Global Entity” and “Global_Entity” as two distinct dimension names and will create both of them in the OpenPages system. However, the reporting framework generator will try to create two object type dimension query subjects labeled “Global_Entity” which will cause an error.

- **Dimension Name ([locale])**

Translations for the dimension name. The [locale] must match the locale name in the application, case-and-punctuation-sensitive.

- **Dimension Description**

The description of the dimension.

- **Levels**

Alt-enter separated list of levels for this dimension.

- If you are creating a business entity object type dimension, this list will be the levels created in the Recursive Object Type worksheet (see III.p above).
- If you are creating an object type dimension of non-entity object types, each level will be an object type name.

- **Enabled**

Determines if this dimension is enabled and available in the reporting framework. Possible values are “Yes” and “No”.

u. The Date Dimension Types Worksheet

To enhance report authoring capability in the dimensional data model, you can define Date Dimension types. The *Date Dimension Types* worksheet, shown in Figure III.u.1, defines the date dimension types for the reporting framework.

Note: The reporting framework will need to be updated after adding date dimension types.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Dimension Type Name	Dimension Type Label (French)	Dimension Type Label (German)	Dimension Type Label (Italian)	Dimension Type Label (Japanese)	Dimension Type Label (Portuguese)	Dimension Type Label (Simplified Chinese)	Dimension Type Label (Traditional Chinese)	Dimension Type Label (U.K. English)	Dimension Type Label (U.S. English)	Dimension Type Description	Levels	Enabled	
2	Y-Q-M	A-T-M	J-Q-M	A-T-M	年-期-月	A-T-M	Y-Q-M	A-T-M	Y-Q-M	Y-Q-M	Year - Quarter - Month date dimension definition	Year Quarter of Year Month Name Abbr. (Localized)	Yes	
3	Y-M	A-M	J-M	A-M	年-月	A-M	Y-M	A-M	Y-M	Y-M	Year - Month date dimension definition	Year Month Name Abbr. (Localized)	Yes	
4	Y-M-D	A-M-J	J-M-T	A-M-G	年-月-日	A-M-D	Y-M-D	A-M-D	Y-M-D	Y-M-D	Year - Month - Day date dimension definition	Year Month Name Abbr. (Localized) Day of Month	Yes	
5														

Figure III.u.1: Date Dimension Types worksheet

The worksheet contains the following columns:

- **Dimension Type Name**
The name of the date dimension type.
- **Dimension Type Label ([locale])**
Translations for the dimension type name. The [locale] must match the locale name in the application, case-and-punctuation-sensitive.
- **Dimension Type Description**
The description of the date dimension type.

- **Levels**

Alt-enter separated list of levels. Up to five levels are supported: Year, Quarter, Month, Week, and Day. At least one level must be specified, and any date range can be skipped (e.g. you could use Year, Month, and Day only).

The acceptable values are shown in Figure III.r.2:

Category	Acceptable Values
Year	Year
Quarter	Quarter of Year
Month	Month of Quarter Month of Year Month Name Month Name Abbr. Month Name (Localized) Month Name Abbr. (Localized)
Week	Week of Month (Oracle Algorithm) Week of Month (Starts on Sunday) Week of Month (Starts on Monday) Week of Quarter (Oracle Algorithm) Week of Quarter (Starts on Sunday) Week of Quarter (Starts on Monday) Week of Year (Oracle Algorithm) Week of Year (Starts on Sunday) Week of Year (Starts on Monday)
Day	Day of Week Day of Week Abbr. Day of Week (Localized) Day of Week Abbr. (Localized) Day of Month Day of Quarter Day of Year Day of Week of Month (Oracle Algorithm) Day of Week of Month (Starts on Sunday) Day of Week of Month (Starts on Monday) Day of Week of Quarter (Oracle Algorithm) Day of Week of Quarter (Starts on Sunday) Day of Week of Quarter (Starts on Monday) Day of Week of Year (Oracle Algorithm) Day of Week of Year (Starts on Sunday) Day of Week of Year (Starts on Monday)

Figure III.r.2: Acceptable Date Dimension Levels values

- **Enabled**

Determines if this date dimension type is enabled and available in the reporting framework. Possible values are “Yes” and “No”.

v. The Date Dimension Associations Worksheet

The *Date Dimension Associations* worksheet, shown in Figure III.v.1, represents associations between date dimension types and fields. A field can be associated to zero or more date dimension types. This information is used in the reporting framework.

A	B	C
Field Group	Field Name	Date Dimension Types
1 OPSS-AI	Actual Completion Date	Y-M
2 OPSS-AI	Due Date	Y-M
3 OPSS-AI	Expected Completion Date	Y-M
4 OPSS-AI	Start Date	Y-M
27 OPSS-FIRST	Start Occurrence Date	Y-M Y-Q-M
28 OPSS-FIRST	End Occurrence Date	Y-M Y-Q-M
29 OPSS-FIRST	Settlement Date	Y-M Y-Q-M
30 OPSS-FIRST	Created Date	Y-M Y-Q-M
31 OPSS-FIRST	Revision Date	Y-M Y-Q-M
32 OPSS-Inc	Closed Date	Y-M
33 OPSS-Inc	Discovery Date	Y-M
34 OPSS-Inc	Occurrence Date	Y-M
35 OPSS-Iss	Due Date	Y-M
36 OPSS-KPI	Value Date	Y-M

Figure III.v.1: *Date Dimension Associations* worksheet

The worksheet contains the following columns:

- **Field Group**
The field group of the field to be associated. “System Fields” definitions are global, all others are specific to the object types associated to the specified field group.
- **Field Name**
The name of the field to be associated.
- **Date Dimension Types**
Alt-enter separated list of date dimension type names (from the Date Dimension Types worksheet) to associate to this field.

w. The Security Rules Worksheet

The *Security Rules* worksheet, shown in Figure III.w.1, defines rules that implement record level security. If a field is encrypted, it can not be part of the formula for the security rule.

	A Object Type	B Rule Name	C Description	D Formula	E Security	F Create	G Read	H Update	I Delete	J Associate	K Status
1	SOXIssue	Action Item Assignee Can Read Parent Issue	Action Item Assignee can read the parent Issue, extending any rights they may have had from folder/role template based security.	FOR (Any Child [SOXIssue/SOXTask] : [SOXTask].[OPSS-AI].[Assignee] = END_USER)	Extend		Granted				Enabled
2	SOXTask	Action Item Update if Assignee	Action Item Assignee can read and update the Action Item, extending any rights they may have had from folder/role template based security.	END_USER in [SOXTask].[OPSS-AI].[Assignee]	Extend		Granted	Granted			Enabled
3				END_USER in [Workpaper].[OPSS-WorkListPrepared].[Security Rules]	Restrict		Granted				Enabled

Figure III.w.1: Security Rules worksheet

The worksheet contains the following columns:

- **Object Type**
Determines the object type for the rule being defined.
- **Rule Name**
The name of the rule.
- **Description**
The description of the rule.
- **Formula**
Defines the formula used for the rule. Refer to the *Security Rules* section of Chapter 4 of the *IBM OpenPages GRC Platform 7.1.0 Administrator's Guide* for more information on constructing rule formulas.
- **Security**
Determines whether the folder / role template based security defined in the OpenPages system will be extended or restricted by this security rule. Possible values are "Extend" and "Restrict".
- **Access Controls**
"Granted" applies the rule to the access control. If the cell is blank the rule will not apply to that access control.

There are constraints and dependencies when specifying rule based security access controls. For example, a rule which grants the Update control must also grant the Read control, and a rule which grants the Create control cannot grant any other controls. Refer to the *Security Rules* section of Chapter 4 of the *IBM OpenPages GRC Platform 7.1.0 Administrator's Guide* for more information.
 - Create** - Specifies the Create access control.
 - Read** - Specifies the Read access control.
 - Update** - Specifies the Update access control.
 - Delete** - Specifies the Delete access control.
 - Associate** - Specifies the Associate access control.
- **Status**
Determines whether or not this rule is enabled. Possible values are "Enabled" or "True" and "Disabled" or "False".

x. The Field Level Security Rules Worksheet

The *Field Level Security Rules* worksheet, shown in Figure III.x.1, defines rules that implement rule based security. Each row defines the rule applied on a field.

- If you are defining a rule on more than one field, a new row will be required for each field.
- If you are defining a rule on more than one field from different field groups, a new row will be required for each field group.

If a field is encrypted, it cannot be part of the formula for the security rule.

	A	B	C	D	E	F	G	H	I
1	Object Type	Rule Name	Description	Formula	Field Group	Field Name	Read Only	Read and Update	Status
2	SOXIssue	Restrict field access for Action Item Assignee	Action Item Assignee can read Management Response and status of parent issue but can update the conclusion	FOR (Any Child [SOXIssue]/[SOXTask] : [SOXTask].[OPSS-AI].[Assignee] = END_USER)	OP_SS_Iss	Conclusion	Granted	Granted	True
3	SOXIssue	Restrict field access for Action Item Assignee	Action Item Assignee can read Management Response and status of parent issue but can update the conclusion	FOR (Any Child [SOXIssue]/[SOXTask] : [SOXTask].[OPSS-AI].[Assignee] = END_USER)	OP_SS_Iss	Status	Granted		True
4	SOXTask	Assignee can only read status of task	Action Item Assignee can read the status of Task but can not update it	[SOXTask].[OPSS-AI].[Assignee] = END_USER	OPSS-AI	Status	Granted		True
5	SOXBusEntity	Restrict fields for Executive owner	Executive owner can only read the compliance own but can update Response	END_USER IN ([SOXBusEntity].[OPSS-BusEnt].[Executive Owner])	KJ_BussEnt	Response	Granted	Granted	False
6	SOXBusEntity	Restrict fields for Executive owner	Executive owner can only read the compliance own but can update Response	END_USER IN ([SOXBusEntity].[OPSS-BusEnt].[Executive Owner])	OPSS-BusEnt	Compliance Owner	Granted		False

Figure III.x.1: *Field Level Security Rules* worksheet

The worksheet contains the following columns:

- **Object Type**
Determines the object type for the rule being defined.
- **Rule Name**
The name of the rule.
- **Description**
The description of the rule.
- **Formula**
Defines the formula used for the rule. Refer to the *Security Rules* section of Chapter 4 of the *IBM OpenPages GRC Platform 7.1.0 Administrator's Guide* for more information on constructing rule formulas.
- **Field Group**
Defines the bundle type of property on which Field Level Security is applied.
- **Field Name**
Defines the property type on which rule is defined.
- **Access Controls**
“Granted” applies the rule to the access control. If the cell is blank the rule will not apply to that access control.
Read Only - Specifies the ‘Read Only’ access control
Read And Update- Specifies the ‘Read And Update’ access control.

- **Status**

Determines whether or not this rule is enabled. Possible values are “Enabled” or “True” and “Disabled” or “False”.

y. **The Navigational Views Order Worksheet**

The *Navigational Views Order* worksheet, shown in Figure III.y.1, represents the ordering for Navigational Views. The order in the view name column, top-down, will determine the order in which the views appear in the view selector.

A	B
1 Object Type	View Name
2 Risk	Folder
3 Risk	Filtered List
4 Process	Filtered List
5 Process	PRSA Update
6 Process	PRSA Review
7 Process	Folder
8 KRI	Enter KRI Values
9 KRI	Approve KRI Values
10 KRI	Filtered List
11 KRI	Folder
12 KPI	Enter KPI Values
13 KPI	Approve KPI Values
14 KPI	Filtered List
15 KPI	Folder
16	

Figure III.y.1: *Navigational Views Order* worksheet

The worksheet contains the following columns:

- **Object Type**
Determines the object type for which the navigational views will be ordered.
- **View Name**
Specifies the view name. Possible values are “Folder”, “Filtered List” or the Grid View names configured for the object type.

Note: Objects not shown on this worksheet will have their views listed in ascending alphabetical order. Views not listed on this worksheet will be listed in ascending alphabetical order, after any views included on this worksheet.

z. **The Object Views Order Worksheet**

The *Object Views Order* worksheet, shown in Figure III.z.1, represents the ordering for Object Views. The order in the view name column, top-down, will determine the order in which the views appear in the view selector.

A	B
1 Object Type	View Name
2 Workpaper	Project Management Planning
3 Workpaper	Test Planning
4 Workpaper	Test Execution
5 Workpaper	Review and Approval
6 Workpaper	Project Management Update
7 Workpaper	Detail
8	

Figure III.z.1: *Object Views Order* worksheet

The worksheet contains the following columns:

- **Object Type**
Determines the object type for which the object views will be ordered.
- **View Name**
Specifies the view name. Possible values are “Detail” or the Activity View names configured for the object type.

Note: Objects not shown on this worksheet will have their views listed in ascending alphabetical order. Views not listed on this worksheet will be listed in ascending alphabetical order, after any views included on this worksheet.

III. Using AFCON

a. Creating the Input schema XML file

AFCON requires an XML file that contains the state of your current configuration.

Instructions:

1. On the application machine, navigate to:
<OP drive>:\OpenPages\bin
2. Edit the file ObjectManager.properties in Notepad.
3. Update the setting:
configuration.manager.migrate.configuration.objects = true
4. Save the file.
5. Open a command prompt and navigate to:
<OP drive>:\OpenPages\bin
6. At the prompt, type on one line:
ObjectManager d c OpenPagesAdministrator <OpenPagesAdmin password> <path to file> <file name to create>

e.g. ObjectManager d c OpenPagesAdministrator OpenPagesAdministrator
C:\AFCON oob-configuration

Optional

If the file created with the above steps is too large, the following changes can be made to ObjectManager.properties in lieu of the changes listed in step 3:

```
configuration.manager.migrate.configuration.objects = false
```

Set the following to true (and all other configuration.manager.dump.* to false):

```
configuration.manager.dump.bundle.types=true
configuration.manager.dump.file.upload.content.types=true
configuration.manager.dump.jsp.based.content.types=true
configuration.manager.dump.form.based.content.types=true
```

Note: The file created by ObjectManager will have the text “-op-config” appended to the name specified in step 6. The file extension will be “xml”.

b. **Starting AFCON**

To run AFCON, extract the AFCON zip file to your machine and double-click AFCON.exe.

The window shown in Figure IV.b.1 will then appear. Follow the instructions on the next page to complete the forms configuration.

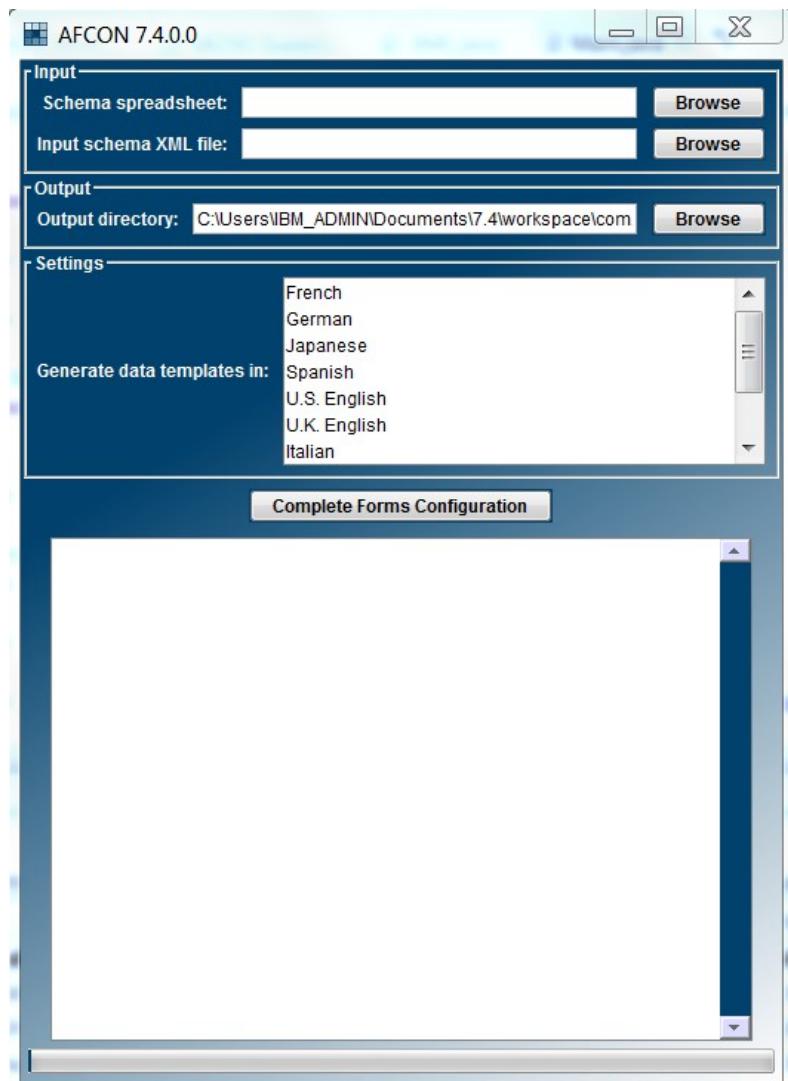


Figure IV.b.1 The AFCON user interface.

Instructions:

1. Input:

- In the **Schema Spreadsheet** text box, browse to or type the name of the AFCON schema workbook completed in section III above.
- In the **Input schema XML file** text box, browse to or type the name of the file created in section IV.a above.

2. Output:

- In the **Output directory** text box, type the name of the directory in which the output files should be created. The value for this field is initially set to the directory from which AFCON is run.

3. Generate data templates in:

- Specify the language(s) in which the FastMap data load templates should be created.

4. Complete Forms Configuration

- Click the button to execute AFCON.

c. Notes and Errors

During execution, you may see notes and errors displayed. These messages will appear in the text area at the bottom of the window.

A note is preceded by the word “NOTE” and an error is preceded by the word “ERROR”. Notes often serve as warnings that the schema template may not have been properly completed. Errors, however, must be addressed before AFCON can create a set of valid output files.

When an error occurs, the interface will turn red. If the window stays blue, then the output files were successfully created. However, even if you receive only notes (and no errors), it is suggested that you refer to *Appendix B: Notes and Errors Glossary* to understand why the messages appeared.

All errors will explain the nature of the problem, and will direct the user to any relevant properties files, worksheets in the schema template, and/or cells within the template.

Known Error: RAFCON adds a SingleFile field to QuestionTemplate worksheet which is only for internal use for workflow jobs and cannot be added to the profile. AFCON tool does not support SingleFile field type and may throw errors, in which case remove the complete row for SingleType field and run the tool again.

See *Appendix B: Notes and Errors Glossary* for more information.

d. **Understanding the Output Files**

After successful execution of AFCON the window will appear.

The following nine output files will be created upon successful execution:

a. **[Customer abbreviation]_schema-op-config.xml**

This is the core schema file, which contains XML representations of all fields processed by AFCON as well as filters, field dependencies, and dependent picklists. When loaded, it will set up the application schema infrastructure.

b. **[Customer abbreviation]_object-profile-op-config.xml**

This is the object profile file, which contains information about how fields are displayed in the application.

c. **[Customer abbreviation]_object-strings-op-config.xml**

This file contains Object Text defined in the schema template—i.e. locale-specific labels from the *Labels* tabs of the spreadsheet as well as translations for the reporting framework.

d. **Environment_Variables.bat**

This is a Windows-only script that contains environment information about the system on which you are loading AFCON-generated files.

Note: This script assumes the OpenPages application is installed on drive **C:** and the OpenPagesAdministrator password has not been changed. If the application is installed on some other drive or the OpenPagesAdministrator password has been changed, carry out the following steps before executing **Load_[Customer abbreviation]_Schema.bat**:

1. Right-click on the `Environment_Variables.bat` script.
2. Click **Edit** in the menu.
3. Modify lines 5-8 to reflect the correct values for your system
4. **Save** and **close** the file.

e. **Load_[Customer abbreviation]_Schema.bat**

This is a Windows-only script that loads the core schema into the system via ObjectManager. Executing this script will update the OpenPages database with the schema you just created. Make sure the variables in `Environment_Variables.bat` match your system before executing this script.

f. **Environment_Variables.sh**

This is an AIX-only script that contains environment information about the system on which you are loading AFCON-generated files.

Note 1: This script assumes the OpenPages application is installed in **"/usr/OpenPages"** and the OpenPagesAdministrator password has not been changed. If the application is installed on some other drive or the OpenPagesAdministrator password has been changed, carry out the following steps before executing **Load_[Customer abbreviation]_Schema.sh**:

1. **Edit** the `Environment_Variables.sh` script.
2. Modify lines 5-8 to reflect the correct values for your system.
3. **Save** and **close** the file.

Note 2: You may need to make this file executable after copying it to your target system. To do so, enter the following command:

chmod +x Environment_Variables.sh

g. **Load_[Customer abbreviation]_Schema.sh**

This is an AIX-only script that loads the core schema into the system via ObjectManager. Executing this script will update the OpenPages database with the schema you just created. Make sure the variables in Environment_Variables.sh match your system before executing this script.

Note: You may need to make this file executable after copying it to your target system. To do so, enter the following command:

```
chmod +x Load_[Customer abbreviation]_Schema.sh
```

h. **[Customer abbreviation]_rule-based-security-op-config.xml**

This file contains the details of any security rules (Record Level Security and Field Level Security) configured in the AFCON workbook.

If you chose to create data load templates, the following files will be created for each language selected:

a. **[Customer abbreviation]_Data_Load_Template_[Locale].xls**

This template should be used if you want to perform bulk data loads. It is recognized by the OpenPages FastMap utility, allowing you to perform large data loads with ease.

b. **[Customer abbreviation]_Sample_Data_Load_Template_[Locale].xls**

This file is a copy of the Data Load Template, populated with random sample data as an example to guide you in populating the actual Data Load Template.

Appendix A: Configurable Properties

AFCON uses seven properties files, all of which are expected to be in the *properties* folder of the directory from which AFCON is run. AFCON also requires three additional property files per locale in which AFCON will be run.

1. **contentType.properties** – contains a mapping of compliance object type (e.g. Entity, Process, etc.) to content type, as defined in the input core.
2. **dataTemplate.properties** – contains properties related to the output data template. Any other properties that existed in older versions of this properties file but are not listed below are no longer used.
 - a. file.worksheet.headers – a comma-separated list of the column headings for the File upload worksheet
 - b. include.hidden.possible.values – whether or not to allow users to enter possible values that are hidden
 - c. locale.language.French, locale.language.German, locale.language.Japanese, locale.language.Spanish, locale.language.U.S.\ English – languages represented by each OpenPages locale, represented by two-letter ISO codes.
 - d. do.not.create.worksheets.for – object types that should be excluded from the data template
 - e. parent.of.[Object Type] – a set of properties to determine which content type should be listed as the parent of [Object Type] in the sample data load template
 - f. create.sample.data.sheet – true/false; whether or not AFCON should create a sample data load template.
 - g. sample.data.rows – the amount of sample data to create for each worksheet in the sample data load template
 - h. languages – allowable languages for which to generate data load templates
 - i. suppress.metadata.rows – true/false; whether or not AFCON should add metadata information to the data load templates to be compatible with offline Fastmap.
Note: if this is set to true, sample data load templates will not be created.
3. **general.properties** – contains general properties related to AFCON:
 - a. ignore – contains a comma-separated list of field group name/field name pairs (written field group|field) for fields in the assessment spreadsheet that should be ignored in the data load template. If the field should be ignored regardless of field group, no field group name should be specified and the ‘l’ should not be included.
 - b. ignore.columns – contains a comma-separated list of column names to ignore in AFCON workbooks. Adding a column to this list means you will not see messages like EX-004 or FL-009 saying this column has been ignored.
 - c. recursive.object.types – contains a comma separated list of recursive object types used in the system. This is used for validation on the Recursive Object Levels sheet.

- d. enumGap – the gap between consecutive enumerated values. E.g. an enumGap of 10 will result in the first enumValue having value="10", the next having value="20", etc.
 - e. illegalChars – characters that may not appear in field names or field group names.
 - f. worksheet.name.X – names of special worksheets in the schema template.
 - g. input.data.load.template – the name of an Excel spreadsheet (with path relative to AFCON/input) to be used as the basis for the output data load templates. If left blank, the output data load templates will be created from scratch. This file must be of type .xls.
 - h. locale – locale in which AFCON should run (governs ui text and error messages/notes)
 - i. font.X – specific fonts for each language (country-independent). If not specified, 12pt Dialog will be used.
4. **profile.properties** – contains a set of properties used in creating the object profile.
- a. displayType.Default.[field type] – the display type for the specified field type for the Default object profile
 - b. displayTypeProperty.Default.[display type].[display type property] – special properties for specific display types in the Default object profile.
5. **reportingSchema.properties** – contains default computed field formulas to use if formulas are specified in the input schema file or AFCON template
- a. X.default.equation – Equations for each object type
 - b. X.default.objectid – Object IDs for each object type
 - c. X.default.rpid – Reporting Period IDs for each object type
6. **synonym.properties** – contains a list of properties whose keys are strings expected by AFCON, and whose values are comma-separated lists of synonyms for those strings. E.g. “entity=entities” means that where AFCON expects the string “entity”, it should also accept the word “entities” as meaning the same thing.
7. **db2.properties** – contains a list of properties for determining how much space will be allocated per field type in the reporting schema tables. OpenPages v7.0.0+ no longer requires special considerations for db2 space allocation in the reporting schema tables.
- a. is.db2 – true or false: is this schema for a DB2 system? If you say true, the values in the file will be used to compute table sizes for reporting. If false, no notes or errors will be printed regarding table size.
 - b. db2.limit – the maximum size, in bytes, of a table in a db2 database. The combined size of all fields on an object type cannot be greater than this value.
 - c. [field type].length – the length allocated to this field type. These values can be found by looking at the Settings of your target system.

d. system.fields.length – all fields in the System Fields field group count towards the 32k limit, even fields not typically included in an AFCON template. To get the correct table size, put the sum total of all non-simple-string system fields into this property.

e. simple.string.length – the length allocated to the ‘Simple String’ field type, plus the size in bytes of the truncation suffix string. By default, this is 1024 + ‘...’ (which is 3 bytes) = 1027. These values can be found by looking at the Settings of your target system.

f. system.comment.desc.length – the length allocated to each of the System fields ‘Comment’ and ‘Description,’ plus the size in bytes of the truncation suffix string. By default, this is 1024 + ‘...’ (which is 3 bytes) = 1027. These values can be found by looking at the Settings of your target system.

8. **messages_[locale code].properties** – contains a list of properties whose keys are expected by AFCON and whose values are note and error text displayed by AFCON.

9. **ui_[locale code].properties** – contains a list of properties whose keys are expected by AFCON and whose values are UI text displayed by AFCON.

10. **template_[locale code].properties** – contains a list of properties whose keys are expected by AFCON and whose values are labels used in locale-specific data load templates.

Appendix B: Notes and Errors Glossary

Known Error: RAFCON adds a SingleFile field to QuestionTemplate worksheet which is only for internal use for workflow jobs and cannot be added to the profile. AFCON tool does not support SingleFile field type and may throw errors, in which case remove the complete row for SingleType field and run the tool again.

Code	Category	Message	Explanation
AG-001	Fatal Error	The following exception occurred: [exception trace]	A general exception occurred during execution of AFCON. Refer to the exception trace for details, and contact OpenPages for assistance.
AG-002	Fatal Error	The following error occurred: [error name]	A general error occurred during execution of AFCON. Refer to the error name for details, and contact OpenPages for assistance.
DT-001	Note	Could not create Data Template from input workbook: [input workbook] The Data Template will be created from scratch.	The input data template could not be opened. Details can be found in error.log.
DT-002	Error	Could not write to file: [file name]. See error.log for details.	A general exception occurred, and the output file could not be written. Refer to error.log for an exception trace.
DU-001	Fatal Error	File not found: [file name]	The input XML file could not be found. Make sure you provide valid values for the input XML files in the AFCON interface; it is suggested to Browse to the desired files to prevent typing errors.
DU-002	Fatal Error	File found, but could not be read: [file name] See error.log for details.	The input XML file could not be read. Make sure you provide a valid value for the input spreadsheet in the AFCON interface; it is suggested to Browse to the desired file to prevent typing errors. This error may also occur if the input XML is malformed.
DU-003	Fatal Error	Could not write to file: [file name] See errors above.	The output file could not be written. This error is likely to be related to the errors appearing above it; resolve those errors and try again.
DU-004	Error	Could not write to file: [file name] See error.log for details.	A general exception occurred, and the output file could not be written. Refer to error.log for an exception trace.
DU-005	Error	An output XML document could not be created due to the following exception.	
EU-001	Fatal Error	No Field Name column was found in the detail sheet for the “[Field Type]” type.	The specified worksheet must contain a Field Name column.
EU-002	Fatal Error	No Object Type column was found in the detail sheet for the “[Field Type]” type.	The specified worksheet must contain an Object Type column.
EU-003	Fatal Error	The “[Field Name]” field is of the complex type “[Field Type]”, but was not found in the “[Field Type]” worksheet.	Fields with a complex Field Type (e.g. Currency), must have an entry in the Field Type’s detail worksheet (e.g. the Currency worksheet).
EX-004	Note	A column heading was found that does not have an entry in the synonym.properties file: “[column name]” The	A column was encountered that AFCON does not know how to interpret.

Code	Category	Message	Explanation
		column will be ignored.	
EX-005	Note	The field “[Field Name]” already exists. Each field within an object must have a unique name; please rename the duplicate field.	Fields must be uniquely named for a particular object type.
EX-006	Error	The field name cannot be left blank, provide a valid field name. Check [worksheet], [row]. <<	Field name should not be left blank. Need to provide a valid field name.
FL-001	Fatal Error	File not found: [file name]	The input spreadsheet could not be found. Make sure you provide a valid value for the input spreadsheet in the AFCON interface; it is suggested to Browse to the desired file to prevent typing errors.
FL-002	Fatal Error	Error reading file: [file name]	A general exception occurred while reading the input spreadsheet. Refer to error.log for an exception trace.
FL-003	Fatal Error	Error reading file: [file name]	An Excel exception occurred while reading the input spreadsheet. Refer to error.log for an exception trace.
FL-004	Note	Worksheet found whose name has no entry in the synonym.properties file. The “[sheet name]” worksheet will be ignored.	The worksheet name is not a synonym for any object types defined in the synonym.properties file.
FL-005	Note	Worksheet found whose name has no entry in the contentType.properties file. The “[sheet name]” worksheet will not be processed as a content type.	The worksheet name was recognized as an object type in the synonym.properties file, but that object type does not have an entry in the contentType.properties file. The worksheet is therefore not interpreted as a valid compliance object type.
FL-006	Note/Fatal Error	The [sheet name] worksheet was not found in the input schema template.	The input schema template must contain the worksheet named “[sheet name]” (case-sensitive).
FL-008	Error	The following columns were not found in the [worksheet name] worksheet: [columns] Make sure the following properties have values matching headings in the input worksheet: [properties]	Key fields in the worksheet could not be located; they are identified by the column heading, which is specified in the given properties file.
FL-009	Note	A column heading was found that does not have an entry in the synonym.properties file: “[column name]” The column will be ignored.	A column was encountered that AFCON does not know how to interpret.
FL-010	Error	Please specify the Object Types to include for the “[object type name]” overview. Check the [Overviews] worksheet, row [row].	At least one object type must be included in an object type overview.
FL-011	Error	Please specify whether Object Descriptions should be shown for the [object type] overview.	In the ‘Overviews’ worksheet, the column ‘Show Object Description’ does not read ‘Yes’ or ‘No’
FL-013	Error	Unrecognized object type: [object type]	The object type listed is missing from

Code	Category	Message	Explanation
		name]	the AFCON properties file, or the name of the tab is not included in the synonyms properties file
FL-016	Error	The following object types to be included in the [Overview Type] overview were not recognized	Content types could not be found for the specified object types.
FL-017	Error	Please specify whether the object string label for the “[object type name]” object type is singular or plural.\r\n\t>> Check the [Labels – Object Types] worksheet, row [row number]. <<	The column “Singular or Plural” on the “Labels – Object Types” tab is missing a value for the row mentioned. The value must either be “Singular” or “Plural”.
FL-019	Error	Value not recognized as either “singular” or “plural”: [value]	The cells in the Labels – Object Types worksheet, column “Singular or Plural”, must contain the value “Singular Value:” or “Plural Value:”.
FL-020	Error	The schema spreadsheet is not the correct version; key “[template version]” was not found.	The spreadsheet is not compatible with AFCON 6.0 or the Template information in cell G24 of the Instructions tab is incorrect
FL-021	Error	The schema spreadsheet is not the correct version; the [worksheet name] worksheet is not correctly formatted.	The spreadsheet is not compatible with AFCON 6.0.
FL-022	Fatal Error	The date format [format] specified in worksheet [sheet name] is not valid.	The text in cell C9 of the INSTRUCTIONS tab is not valid. Try MM instead of mm or yyyy instead of YYYY.
FL-023	Fatal Error	A value in row [row] of the [sheet name] worksheet is blank. Please enter data for all columns of this row.	A value is missing from the specified row in one of the following sheets: Filters, Dependencies, Home Page, or Dependent Picklists, activity views. All non-translation related columns on these sheets are required.
FL-025	Note	The object type [type] in row [row] on the [sheet name] worksheet is not visible in this profile. Please make sure this object type exists in your target system.	This appears for the worksheets Filters, Dependencies, or Dependent Picklists. Because these tabs are global, not profile based, there may be mentions of object types that are not visible for this profile.
FL-026	Note/Error	The field [field] in field group [field group] in row [row] on the [sheet name] worksheet is not visible in this profile. Please make sure this field exists in your target system.	This appears for the worksheets Filters, Dependencies, or Dependent Picklists. Because these tabs are global, not profile based, there may be mentions of fields that are not visible for this profile. This appears as an error for Activity View pages – these are profile specific and can only include fields that are included in the profile.
FL-027	Error	The controlling value [drop down value] for the field dependency with controller field [field group.field name] in row [row] of the [Dependencies] worksheet does not exist for this profile.	This field dependency is not valid because the controlling value doesn’t exist. Either add this value to the “Possible Values” list for the field in question or change the controlling value on the “Dependencies” sheet.
FL-028	Error	The controlling value [drop down value]	This dependent picklist is not valid be-

Code	Category	Message	Explanation
		for the dependent picklist with controller field [field group.field name] in row [row] of the [Dependent Picklists] worksheet does not exist.	cause the controlling value doesn't exist. Either add this value to the "Possible Values" list for the field in question or change the controlling value on the "Dependent Picklists" sheet.
FL-029	Error	The dependent value [drop down value for the dependent picklist with dependent field [field group.field name] in row [row] of the [Dependent Picklists] worksheet does not exist.	This dependent picklist is not valid because a dependent value doesn't exist. Either add this value to the "Possible Values" list for the field in question or change the dependent value on the "Dependent Picklists" sheet.
FL-030	Error	The dependency on row [row] of the [Dependencies] sheet needs to have a behavior type of EDITABLE, VISIBLE, or REQUIRED.	Replace the Behavior Type in the row in question on the Dependencies tab with "EDITABLE", "VISIBLE", or "REQUIRED", case-sensitive.
FL-031	Error	The home page type [type] on row [row] of the [Home Page] sheet is not valid. Valid options are "Predefined", "Embedded", and "Listing".	Replace the Type on the Home Page tab with either "Predefined", "Embedded", or "Listing".
FL-032	Error	The predefined list [name] on row [row] of the [Home Page] sheet is not valid. Valid options are "myJobs", "myTasks", "myCheckedOutFiles" and "myReports".	Replace the predefined list name (column Report Name) with either "myJobs", "myTasks", "myReports", or "myCheckedOutFiles", case-sensitive
FL-033	Error	The sort type [type] on row [row] of the [activity view name] sheet is not valid. Valid options are "Ascending" and "Descending".	Replace the sort type with either "Ascending" or "Descending", case-sensitive
FL-034	Error	The navigational default view [navigational view] on row [row] of the [Default Views] sheet is not valid. Valid options are "Filtered List", "Overview", and "Folder".	Change the value in the "Navigational Default View" column for that row to one of: "Filtered List", "Overview", or "Folder".
FL-035	Error	The object default view [view] on row [row] of the [Default Views] sheet is not valid. Valid options are "Detail" or one of the activity views. Make sure any activity view worksheets are listed before the Detail Views worksheets.	Change the value in the "Object Default View" column to "Default" or one of the activity views defined for that object. Make sure that activity view worksheet is listed to the left of the Default Views worksheet.
FL-036	Error	Please specify the Object Type. >> Check the [Default Views] worksheet, row [row]. <<	Fill in the "Object Type" column for that row on the Default Views worksheet.
FL-037	Error	Please specify the default navigational view for "[object type]". >> Check the [Default Views] worksheet, row [row]. <<	Fill in the "Navigational Default View" column for that row on the Default Views worksheet.
FL-038	Error	Please specify the default object view for "[object type]". >> Check the [Default Views] worksheet, row [row]. <<	Fill in the "Object Default View" column for that row on the Default Views worksheet.
FL-039	Error	Computed Fields can only have VISIBLE behavior type for Field Dependencies. >> Check the [Field Dependencies] worksheet, row [row]. <<	Change the behavior type for this row to VISIBLE, or choose a different dependent field.

Code	Category	Message	Explanation
FL-040	Error	Field Dependency controlling fields must be of type “Drop Down” or “Multi-Select”. >> Check the [Field Dependencies] worksheet, row [row]. <<	Change the controlling field to a field that is an enumerated field.
FL-041	Error	Dependent Picklist controlling fields must be of type “Drop Down” or “Multi-Select”. >> Check the [Dependent Picklist] worksheet, row [row]. <<	Change the controlling field to a field that is an enumerated field.
FL-042	Error	Dependent Picklist dependent fields must be of type “Drop Down” or “Multi-Select”. >> Check the [Dependent Picklist] worksheet, row [row]. <<	Change the dependent field to a field that is an enumerated field.
FL-043	Error	The navigational default view [view name] on row [number] of the [Default Views] sheet is not valid. Make sure the Overviews tab appears to the left of the Default views tab and that an overview is defined for the object type [object type name].	“Overview” was listed as the default navigational view for this object type, but AFCON doesn’t think a overview view exists for this object type. If you have defined an overview view, make sure the Overviews tab is to the left of the Default Views tab, as AFCON processes tabs from left to right.
FL-044	Error	Please specify whether the “[object type name]” overview should be enabled. >> Check the [Overviews] worksheet, row [number]. <<	Fill in “Yes” or “No” for the Enabled column for this row.
FL-045	Error	The Object Type “[name]” specified on the Activity View tab “[av tab name]” on row “[number]” is not visible in this profile and cannot be included in the activity view.	You are trying to include an object type in an activity view that isn’t included in the profile. Either remove this object type from the activity view or add an object type tab for this object type.
FL-046	Error	The home page tab type [type name] on row [number] of the [Home Page Tabs] sheet is not valid. Valid options are “DEFAULT” and “REPORT”.	Change the type to “DEFAULT” or “REPORT”
FL-047	Error	The level [level name] on row [row number] of the [Hierarchy Dimensions] sheet does not correspond to a recursive hierarchy level name or object type included in this profile and thus may not valid. Please make sure this object type exists in your target system.	AFCON first checked to see if this level name matched a level name on the Recursive Hierarchies sheet, and then checked the object types included in this profile. If the object type listed doesn’t exist on your target system, ObjectManager will throw an error during the load.
FL-048	Error	The recursive hierarchy name [name] on row [number] of the [Recursive Hierarchies] sheet is not valid. Non-Business Entity recursive hierarchies must be named after the object type they are associated to.	If you’re creating a recursive hierarchy for Sub-Account, set the name to “SOXSubaccount”. If you’re creating one for Sub-Mandate, set the name to “Submandate”. If you’re creating one for Sub-Process, set the name to “SOXSubprocess”. If you’re creating one for Milestone, set the name to “SOXMilestone”.
FL-049	Note	The root path entered on row [number] of the [Recursive Hierarchies] sheet is	Only Business Entity recursive hierarchies use a root path.

Code	Category	Message	Explanation
		not valid and will be ignored.	
FL-050	Error	The [number] level labels on row [number] of the [sheet name] sheet are incorrect. The field has [number] levels, but [number] [locale] possible value labels. If labels are specified, each level must have exactly one label.	The “Levels” column contains a different number of entries than one of the Level translation columns. Delete or add entries from levels or the level translation column until the number of entries match.
FL-051	Error	The recursive hierarchy “[hierarchy name]” already exists. Each recursive hierarchy must have a unique name; please rename the duplicate hierarchy. >> Check the [Recursive Hierarchies] worksheet, row [number]. <<	Delete one of the duplicate hierarchies or rename one of them.
FL-052	Error	The hierarchy dimension “[dimension name]” already exists. Each object type dimension must have a unique name; please rename the duplicate dimension. >> Check the [Hierarchy Dimensions] worksheet, row [number]. <<	Delete one of the hierarchy dimensions or rename one of them.
FL-053	Error	The date dimension type “[type name]” already exists. Each date dimension type must have a unique name; please rename the duplicate dimension type. >>Check the [Date Dimension Types] worksheet, row [number]. <<	Delete one of the dimension types or rename one of them.
FL-054	Error	The date dimension type “[type name]” does not exist on the date dimension types tab and cannot be included in a date dimension association. >> Check the [Date Dimension Associations] worksheet, row [number]. <<	Compare the name of the missing type to the list of available types on the Date Dimension Types tab.
FL-055	Error	The object type “[name]” has too many recursive hierarchies defined. Only Business Entity can have more than one recursive hierarchy.\r\n\t>> Check the [Recursive Hierarchies] worksheet. <<	Delete all hierarchies for non-Entity types except for one.
FL-056	Error	The object type “[name]” is not recursive and cannot have a recursive hierarchy defined. >>Check the [Recursive Hierarchies] worksheet, row [number]. <<	The following object types are self-recursive and can have recursive hierarchies define: Business Entity, Sub-Process, Sub-Account, Sub-Mandate, Milestone.
FL-057	Error	The date dimension “[name]” on row [number] of the [Date Dimension Types] sheet is not valid.	Remove or change the invalid value.
FL-058	Error	The dependent picklist on row [number] of the [Dependent Picklist] sheet cannot be a dimension because the controlling field ([Object Type].[Field Group].[Field Name]) is not a dimension.	Change the “Is Dimension” column value to “No” for this row on the Dependent Picklist row or change the controlling field’s “Is Dimension” value to “Yes” on the appropriate Object Type sheet.
FL-059	Error	The recursive hierarchy level “[level]	Rename the level in question.

Code	Category	Message	Explanation
		<p>"name]" already exists.</p> <p>Each recursive hierarchy level must have a unique name; please rename the duplicate hierarchy level.</p> <p>>> Check the [Recursive Hierarchies] worksheet, row [number]. <<</p>	
FL-060	Error	The home page tab "DEFAULT" must be included on the [Home Page Tabs] sheet.	Add an entry for the classic home page to the sheet. If you do not want it to display, set Enabled = No.
FL-061	Error	The subsystem [subsystem] is not valid. Acceptable values are "Workflow" or "Reporting Framework". See row [number] of the Field Exclusions sheet.	The only acceptable subsystem values are 'Workflow' and 'Reporting Framework'
FL-062	Error	The provided value [column name] in row [number] of the [worksheet name] sheet is an invalid value. "Granted" is the only valid cell entry.	The only acceptable cell entry of access rights in Security Rules Worksheet and Field Level Security Rules Worksheet is "Granted". If you want to deny access, leave cell blank.
FL-063	Error	A value of [column name] in row [number] of the [sheet name] worksheet is blank. Please enter data for all columns of this row.	The Object Type, Rule Name, Formula, Field group, Field Name cannot be blank in Field Level Security Rules Worksheet.
FL-064	Error	The value of "Read Only" and "Read And Update" in row [number] of the [sheet name] worksheet is blank. Please enter at least one access right.	At least one access right is required in Field Level Security Rules Worksheet
FL-065	Error	The creation default view [view name] on row [number] of the [sheet name] worksheet is not valid. Valid options are "Add New" or one of the creation views.	Change the value in the "Creation Default View" column to "Add New" or one of the activity views defined for that object or leave it blank. Make sure that creation view worksheet is listed to the left of the Default Views worksheet.
FL-066	Error	The Object Type [name] specified on the Creation View [name] on row [number] is not visible in this profile and cannot be included in the creation view.	Make sure the Object type included in the view is included in the profile
FL-067	Error	The JSON data in row [number] of the [sheet name] worksheet is not valid. Please enter a valid JSON config.	Make sure the JSON provided in the JSON Config column is in valid JSON format.
FL-068	Error	The [name(s)] attribute(s) for the widget of type [name] in panel [name] are either blank or missing. Please make sure all the attributes for the widget are provided in the JSON in the row [number] of worksheet [name].	Make sure all the widget attributes for the panel in the provided JSON in the JSON Config column are present.
FL-069	Error	The [name(s)] attribute(s) for the widget of type [name] in panel [name] are not valid. Please enter a valid value in the row [number] of worksheet [name].	Make sure all the widget attributes for the panel in the provided JSON in the JSON Config column are valid.
FL-070	Error	The [name(s)] attribute(s) for the panel [name] are either blank or missing. Please make sure all the attributes for	Make sure all the panel attributes in the provided JSON in the JSON Config column are present.

Code	Category	Message	Explanation
		the panel are provided in the JSON in the row [number] of worksheet [name].	
FL-071	Error	The [name(s)] attribute(s) for the panel [name] are not valid. Please make sure all the attributes for the panel are provided in the JSON in the row [number] of worksheet [name].	Make sure all the panel attributes in the provided JSON in the JSON Config column are valid.
FL-074	Error	The field: "[name]" in field group: "[name]" is not defined in any objects.	Makes sure all fields in the Enumerations sheet are defined and valid
FL-075	Error	Enumerations should be unique for each field.\r\n\t>> Check the [Name] worksheet, row [number]. <<	Possible values defined in the Enumeration sheet are not unique per field name.
FL-076	Error	Hierarchical fields must have valid parentName.\r\n\t>> Check the [Name] worksheet, for field [Name], for value [Name]. <<	Makes sure the parent value of a hierarchical field is valid and is defined for that field.
FL-077	Error	Hierarchical field's parent must be in the same field group.\r\n\t>> Check the [Name] worksheet, for field [Name], for value [Name]. <<	Makes sure the parent value of a hierarchical field is valid and is defined for that field.
FL-078	Error	Only hierarchical fields can have parents. \r\n\t>> Check the [Name] worksheet, for field [Name], for value [Name].<<	Only Hierarchical or Multi-Select Hierarchical field types can have parent value defined for them.
FU-001	Error	Invalid logic expression for filter “[filter name]” on the [Filter] sheet.	Make sure all of the opening parentheses are closed properly and that the spacing is correct (no “AND1”, it must be “AND 1”)
FU-002	Error	Invalid condition “[condition]” for filter “[filter]” on the [Filter] sheet.	The formula column can only contain references to labels that are numbers.
FU-003	Error	Conditions not referenced in logic expression ([formula]) for filter “[filter]” on the [Filter] sheet.	The filter contains rows (labels) that aren’t mentioned in the Formula column.
SU-001	Error	Values must be unique for each field. A field in row [row number] of the [sheet name] sheet has more than one of the following values; please delete the duplicates: [duplicates]	Delete or rename the duplicates listed.
MA-001	Fatal Error	Could not create output directory: [directory name] [exception trace]	The output directory does not exist, and a general exception occurred while trying to create it. This can occur if the output directory’s parent directory is read-only.
MA-002	Error	Could not create data load template: [file name] Make sure the file is not currently open. See error.log for details.	An exception occurred while creating the output file for the data load template. This is usually attributable to the file being currently open, or the file being read-only.
MA-004	Error	Could not generate schema loader script “Load_[Customer abbreviation]_Schema.bat”: Check to make sure Environment_Variables.bat and Load_[[CustomerName]]_Schema.bat	The files Environment_Variables.bat and Load_[[CustomerName]]_Schema.bat could not be found in the input\loader-execution directory.

Code	Category	Message	Explanation
		exist in the input\loader-execution directory.	
MA-007	Fatal Error	The Customer abbreviation contains the following illegal characters: [list of illegal characters]	The list of illegal characters is defined in the general.properties file. It is suggested not to modify this list.
MA-008	Fatal Error	The name of the input loader execution file “[file name] contains invalid special text.\r\n\r\n\r\n\r\n\r\n\tReason: [stack trace]\r\n\r\n\r\n\r\n\t> Check the [file path] file. <<	Make sure the input file mentioned does not contain “[“ without also specifying “]”
MA-009	Fatal	Could not copy input loader execution file: [file name]	Verify drive permissions on input and output directories.
MA-011	Fatal Error	File not found: [file name]	The specified properties file could not be found. Make sure the “properties” folder of AFCON contains all the properties files defined in Appendix A.
MA-012	Fatal Error	File found, but could not be loaded: [file name] See error.log for details.	A general exception occurred while loading the properties file. Refer to error.log for an exception trace.
MA-015	Error	Could not create sample data load template: [file name] Make sure the file is not currently open. See error log for details.	An exception occurred while creating the output file for the data load template. This is usually attributable to the file being currently open, or the file being read-only.
MA-016	Note	The following fields are hidden: [list of hidden fields]	
MA-017	Fatal Error	The Customer abbreviation may not be blank.	
MA-018	Fatal Error	The Number of entity levels must be an integer greater than zero.	
MA-019	Fatal Error	The Base Currency Code may not be blank.	
MA-020	Note	Object Type: Object Size in bytes	Header message
XM-001	Error	You cannot change the type of out-of-the-box field “[Field Name]” from [original type] to [new type]. Instead, hide the out-of-the-box field and create a new custom field.	Multi>Selects can be changed to Drop Downs and vice versa, and Text Boxes can be changed to Text Areas and vice versa, but no other type changes are allowed.
XM-002	Fatal Error	The Field Name “[Field Name]” contains the following illegal characters: [list of illegal characters]	The list of illegal characters is defined in the general.properties file. It is suggested not to modify this list, but instead to strip all illegal characters from Field Names, and use the Display Label to include any “illegal” characters.
XM-003	Fatal Error	Invalid format specified for integer range. Use the following: <min value>:<max value>	The value entered in the Possible Values column for an Integer must be a colon-delimited range of numbers, e.g. 1:100. Note that if you type 1:100 into Excel, it may be converted to a decimal. To prevent this, precede the range with a single quote; e.g. enter a value of ‘1:100’.
XM-004	Fatal Error	Invalid range: [min:max]. “[number]” is not an integer.	The integer range could not be interpreted. Make sure the values for <min>

Code	Category	Message	Explanation
XM-005	Error	<p>Trying to hide a required field: “[Field Name]”</p> <p>Either unhide this field, or change its value in the Data Entry Required column to “No”.</p> <p>Check the [object type name] worksheet, row [row number].</p>	If a required field for an object is hidden, the user will not be able to enter data for it. However the system requires data for it, so in effect the user will not be able to create the object.
XM-006	Error	Possible values were not specified for the [Field Type]: [Field Name]	Drop Downs and Multi-Selects must contain a list of possible values.
XM-008	Error	The default value “[default]” could not be set for the “[Field Name]” field, because it does not match any of the [number] possible values: [list of possible values]	The default value must exactly match one of the possible values. Make sure that the possible values are what you intended them to be, and that the default matches one of them (the match is case-sensitive). Note that only a single value may be the default, even if the field is a Multi-Select field.
XM-010	Fatal Error	Unknown Field Type found: “[Field Type]”	A value in the Field Type column was not recognized (i.e. was not a synonym of Text Box, Text Area, User List, Drop Down, Multi-Select, Date, Integer, Currency, Boolean, or Decimal).
XM-012	Error	<p>Invalid default for the “[Field Name]” field: “[default]”</p> <p>The default value must be an integer, or left blank.</p>	The default for a numeric field must be numeric (integer for Integer, integer or decimal for Decimal).
XM-019	Note	The default value “[default]” was found for the “[Field Name]” field. Fields with a data type of [data type] cannot have default values, so this default will be ignored.	The field type is not a Drop Down, Multi-Select, Simple String, Decimal, Date, Boolean or Integer—but a default value is specified.
XM-020	Error	The Field Name is too long: “[Field Name]”. The maximum length for a Field Name is 256 characters; please remove [number] characters from the name.	Field names must be 256 characters or less.
XM-021	Error	The “[Field Name]” field on the [sheet name] worksheet has more possible values than the current enumeration gap allows. Please change the “enumGap” property in the general.properties file to a number less than [number].	The maximum internal integer value for an enumValue is 9999. Therefore there can be only (9999 / enumGap) enumValues.
XM-022	Error	<p>The Field Group name “[name]” exceeds 256 characters.</p> <p>Please shorten the Field Group Name in the [object type name] spreadsheet; [number] characters must be removed.</p>	The field group name is limited to 256 characters. After the name is shortened on the appropriate object type sheet, you must update any references to it on any other tabs on which it appears (e.g. Filters, Dependent Picklists, activity views)
XM-024	Fatal Error	<p>Possible values must be unique for each field. The “[Field Name]” field has more than one of the following values; please delete the duplicates:</p> <p>[list of duplicate values]</p>	You may not have more than one occurrence of the same Possible Value for a given field.

Code	Category	Message	Explanation
XM-028	Fatal Error	A non-blank Field Group Name must be specified for the “[Field Name]” field.	All fields must have a Field Group Name.
XM-032	Error	The “[Field Name]” field on the [sheet name] worksheet has too many possible values (more than 9999). Please make sure all fields have 9999 or fewer values. Note that out-of-the-box values are counted even if they have been removed from the schema template.	The maximum internal integer value for an enumValue is 9999. Therefore there can be only (9999 / enumGap) enumValues.
XM-033	Error	The “[Field Name]” field on the [sheet name] worksheet has too many possible values. Please remove at least [number] values from the list.	The maximum internal integer value for an enumValue is 9999. Therefore there can be only (9999 / enumGap) enumValues.
XM-034	Fatal Error	The Field Group “[field group name]” contains the following illegal characters: [list of characters]	Field Group Names may not contain illegal characters.
XM-035	Error	You may not change the data type of the “[Field Name]” field on the [sheet name] worksheet from [existing data type] to [new data type]. Make sure the Field Type for this field reflects its current type.	This error can occur when making an incremental schema change. Refer to Table II.7 for a list of Data Types with corresponding Field Types.
XM-037	Error	Invalid range: [min:max]. The expected format is: <min value>:<max value> but [min] is greater than [max].	Make sure the number before the colon is less than or equal to the number after the colon.
XM-039	Error	Invalid default for the “[Field Name]” field: “[default]” The default value must be greater than or equal to [the min value of the field], or left blank.	A minimum and/or maximum value was specified for the field, but the default does not lie within the range.
XM-040	Error	Property not found in profile.properties file: displayType.Default.[field type]	All field types must have a property in profile.properties of the form displayType.Default.[field type].
XM-041	Error	Invalid default for the “[Field Name]” field: “[default]” The default value must be less than or equal to [the max value of the field], or left blank.	A minimum and/or maximum value was specified for the field, but the default does not lie within the range.
XM-044	Note	The Object Type, Field Group, and Field Names combined exceed 64 characters: “[object type, field group, field name]”. This field will not be available for workflows. Please shorten the Field Group and/or Field Name in the input spreadsheet “[sheet name]”; [number] characters must be removed.	Workflow has a length restriction for the UDAs it creates for fields. The maximum length is 64 characters. If the combination of the object type name, field group name, field name is more than 62 characters (spaces removed), then it will not be automatically available for workflows.
XM-046	Error	The “[field name]” field on the [sheet name] worksheet contains a possible value “[drop down value]” that matches an existing enumerated value (case insensitive) “[drop down value]”. Please use the original enumerated value name in the possible values field.	Drop down values must be unique for a field, ignoring capitalization. For instance, a field cannot have both “CO-BIT” and “CobiT” (even if one is hidden). Instead, use the “Possible Values (locale)” columns to re-label the dropdown value with the desired capi-

Code	Category	Message	Explanation
XM-047	Error	The “[field name]” field on the [sheet name] worksheet is set to be both Read-Only and Required. Fields marked to be read-only and required will be loaded as neither.	Change this field to be either read-only or required. Fields marked to be read-only and required will be loaded as neither.
XM-048	Error	The “[field name]” field on the [sheet name] worksheet is set to be both Computed and Required.	Computed fields are non-persistent, and so cannot be required.
XM-049	Error	You may not change the “[field name]” field from multi-valued to drop down. \r\n\t>> Check the [sheet name] worksheet, row [number]. <<	Enumerated string fields can be changed from dropdowns to multiselects, but not multiselects to dropdowns.
XM-050	Error	An incorrect default value “[value]” was found for the “[field name]” field. The possible default values for this field are “true” or “false”. \r\n\t>> Check the [sheet name] worksheet, row [number]. <<	This warning applies to Boolean fields, which can only be “true” or “false”.
XM-051	Note	The object type [type name] has been included in the [type name] Overview but is not visible in this profile.	The overview includes object types that will not be seen in the overview in the system. If this type doesn’t exist for another profile in the system, the AFCON output will fail to load into the system.
XM-053	Note	The field [field] is missing part of its computed field formula definition. Default values from reportingSchema.properties will be substituted for the missing values. \r\n\t>>Check the [Computed Fields] worksheet. <<	The computed field mentioned does not have all of the required columns on the “Computed Fields” tab filled in, and does not exist in the input schema.
XM-054	Error	Invalid range: [range]. “[value]” is not a decimal. \r\n\t>> Check the [sheet name] worksheet, row [row]. <<	The possible values for the decimal field mentioned are not valid.
XM-055	Error	The entered default value for field [field] is not in a valid format as required. Allowed Date formats are \nMMM dd, yyyy or MM/dd/yyyy or MM/dd/yyyy:HH or MM/dd/yyyy:HH:mm or MM/dd/yyyy:HH:mm:ss>> Check the [object type] worksheet, row [row]. <<	Change the format of the date field in the cell in question by changing the Excel formatting.
XM-056	Error	Cannot find parent object [object type name] for activity level child [child object type name], defined as level [number]. Make sure this level is defined on sheet [activity view name] before adding sub levels.	Make sure the level 2 object type for an activity is listed as well as its intended level 3 objects types.
XM-057	Error	The system field “Location” is either missing or not included in the detail view for the object type “[object type]”.	The field “System Fields.Location” must be included in the detail view for all objects in the profile.
XM-058	Error	The field [field name] on row [row] of the [sheet name] sheet is incorrectly listed as fact-capable. Only Integer, Decimal, and Currency fields can have a value of “Yes” in the “Is Fact” column.	Set “Is Fact” to “No” for that row.

Code	Category	Message	Explanation
XM-059	Error	The field [field name] on row [row] of the [sheet name] sheet is incorrectly listed as a dimension. Only Drop Down, Multi-Select, and Date fields can have a value of "Yes" in the "Is Dimension" column.	Set "Is Dimension" to "No" for that row.
XM-060	Error	The report fragment field attribute "Report Path" is required. >> Check the [Reporting Fragments] worksheet, field [name]. <<	Enter a value for that column for all rows.
XM-061	Error	The report fragment field attribute "Fragment Name" is required. >> Check the [Reporting Fragments] worksheet, field [name]. <<	Enter a value for that column for all rows.
XM-062	Error	The Long String field [field name] cannot be included in any listing view. Check the [object type] worksheet.	Long String fields (Large On Demand, Large On Demand Rich Text, Medium On Demand, Medium On Demand Rich Text, Medium Rich Text, Medium Text Area) cannot be included on the following views: Filtered List View, Folder View, List View, Home Page View, and Context View.
XM-063	Error	Could not understand a field length in db2.properties. Make sure all values are integers.	Make sure all values are integers.
XM-064	Error	The combined length ([number]) of fields on object type [name] exceeds the DB2 32k limit. Check db2.properties to see the allocated lengths for each field type. You will need to adjust these values, remove fields, or exclude fields from the reporting schema to proceed on a DB2 system.	If you aren't generating a schema for a DB2 system, edit db2.properties and change the is.db2 property to false to get rid of this error. Otherwise, you will need to adjust the length values in db2.properties (and on the target system), remove fields, or exclude fields from the reporting schema to proceed on a DB2 system.
XM-065	Note	[object type name]:[number]	This note tells you how close to the 32k limit you are for each object type. If you aren't generating a schema for a DB2 system, edit db2.properties and change the is.db2 property to false to get rid of this note.
XM-066	Error	URL configuration string "[json]" is not valid JSON. See field [field name], row [number], on the [object type name] sheet.	You will see this error if you enter a default value for a URL type field that starts with a \$ but isn't valid JSON.
XM-067	Note	The Global Search value was No for [field name] field on the [object type name] object type. This is a shared field with Global Search enabled on at least one other worksheet so this value will be ignored >> Check the [object type] worksheet, row [number]. <<	Informs you when a shared field has Global Search value as Yes and No on different object type worksheets. If any object type lists a field as Yes, then Global Search will be enabled for that field.
XM-068	Error	Trying to enable Global Search for an	Global Search is incompatible for fields

Code	Category	Message	Explanation
		encrypted field: [field name] Either change the value for Data Entry Encrypted, or change its value in the Global Search column to "No". >> Check the [object type] worksheet, row [number]. <<	with Data Entry Encrypted.
XM-069	Error	Trying to enable Global Search for a [data type] field: [field name] Global Search is not supported for fields of this data type. Change its value in the Global Search column to "No". >> Check the [object type] worksheet, row [number]. <<	Global Search is not supported for fields of types: Computed, Reporting Fragment and URL fields with default value containing JSON and starts with \$
XM-070	Error	Yes or No must be specified in column Read-Only in Filtered List View for the [field name] field.\r\n\t>> Check the [object type] worksheet, row [number]. <<	The Read-Only in Filtered List must be specified with either Yes or No values
XM-071	Error	In Grid View [grid view name], the order of fields is not correct for Object Type [object type name].\r\nName field should be put before all the other fields.	Name field should always appear before all the other fields in grid views.
XM-072	Error	The value specified in column Field Type Attributes for the [field type property] property of the field type [field type] for the [field name] field must be a positive integer value.\r\n\t>> Check the [object type] worksheet, row [number]. <<	The specified Field type property for the Field Type must be a positive integer.
XM-073	Error	The value specified in column Field Type Attributes for the [field type property] property of the field type [field type] for the [field name] field must be a valid path (Ex: /Global Financial Services/Business Entity)\r\n\t>> Check the [object type] worksheet, row [number]. <<	The specified Field type property for the Field Type must be a valid path and must start with "/".
XM-074	Error	The classifier field attribute "Classifier Name" is required. >> Check the [Classifier] worksheet, field [name]. <<	Enter a value for that column for all rows.
XM-075	Error	The classifier field attributes "Classifier Input Field Group" and/or "Classifier Input Field Name" are missing. Both the attributes are required. >> Check the [Classifier] worksheet, field [name]. <<	Enter a value for that column for all rows.
XM-076		Possible values should not be specified for hierarchical values. Possible values were specified for the [name]: [name]\r\n\t>> Check the [name] worksheet, row [number]. <<	Makes sure Possible values are not be defined for Hierarchical or Multi-Select Hierarchical fields.
XM-077		Enumeration values can only be defined in one way, either in possible values	Makes sure Enumerations are only defined in Possible values or in the

Code	Category	Message	Explanation
		column in the same sheet or in the enumeration sheet for the [name]: [name].\r\n\n\t>> Check the [name] work-sheet, row [name]. <<	Enumerations worksheet.

Appendix C: Notices

This information was developed for products and services offered in the U.S.A.

IBM® may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
19-21, Nihonbashi-Hakozakicho, Chuo-ku
Tokyo 103-8510, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling:
(i) the exchange of information between independently created programs and other programs (including this one) and
(ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
Location Code FT0
550 King Street
Littleton, MA 01460-1250
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only. This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

Copyright

Licensed Materials – Property of IBM Corporation.

© Copyright IBM Corporation, 2003, 2018.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp. This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. You may copy, modify, and distribute these sample programs in any form without payment to IBM for the purposes of developing, using, marketing, or distributing application programs conforming to IBM's application programming interfaces.

Trademarks

IBM, the IBM logo, ibm.com, OpenPages, and Cognos are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide.

The following terms are trademarks or registered trademarks of other companies:

- Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other product and service names might be trademarks of IBM, OpenPages, Inc., or other companies. A current list of IBM trademarks is available on the Web at "[Copyright and trademark information](#)" at www.ibm.com/legal/copytrade.shtml.