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Rev.	Date		Reason for Issue	Prepared by (Contractor)	Checked b (Contracto	y Approved by r) (Contractor)	Company Approval

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	Signed:
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	Date:
Checked by:	
(Contractor)	Name:
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Rev.	Date	Description of Revision
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#### 1. INTRODUCTION

Add text only if required.

#### 1.1 PURPOSE AND SCOPE

The purpose of this document is to explain EMDB+ feature and functioning.

This document shall apply to EMDB+ Application, the web site location is http://emdbplus.miap.it.

#### 1.2 DISTRIBUTION AND INTENDED AUDIENCE

State whether the document should be available to all, or to a restricted audience, and if so, why. Unless otherwise authorized by Agip KCO, the distribution of this document is confined to Agip KCO and authorized Contractors.

#### 1.3 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

#### 1.3.1 General Definitions

The **Company** is the party, which initiates the project and ultimately pays for its design and construction. The Company will generally specify the technical requirements. The Company may also include an agent or consultant authorized to act for, and on behalf of, the Company.

The **Contractor** is the party, which carries out all or part of the design, engineering, procurement, construction, commissioning or management of a project, or operation or maintenance of a facility. The Company may undertake all or part of the duties of the Contractor.

The **Supplier (Manufacturer/Vendor)** is the party, which manufactures or supplies equipment and services to perform the duties specified by the Contractor.

The word **shall** is used to indicate that a provision is mandatory.

The word **should** is used to indicate that a provision is not mandatory, but recommended as good practice.

Term / Acronym / Abbreviation	Explanation / Definition
EMBD +	"+" integrated project official DB
DCT	Data Collection Team
SPF	Smart Plant Foundation
PIM	Plant Information Management
I-PODE	Internet Purchase Order Deliverable Expediting
PRC	Permitting and Regulatory Compliance
DC/QC	Quality Control Team
ICSS	Integrated Control Safety System
MiapRE	Miap Reverse Engineering
Facility	A valid IMIS Sub-Project code used to identify the contractor that own and submit the tag numbers.

## 1.3.2 Specific Terms, Definitions, Acronyms and Abbreviations

Include, in alphabetical order, specific terms, definitions, acronyms and abbreviations used in this document.

## 1.4 REFERENCE DOCUMENTS AND LINKS

State the document numbers and titles for documents/bibliography referred to within this document. In case of Internet or Intranet sites specify the link in Document Number and the Description in Title.

Unless specifically designated by date, the latest edition of each publication shall be used, together with any amendments/supplements/revisions thereto.

Ref.	Document Number / Link	Title / Description					
(1)	KE01-00-000-AK-A-PR-0660-000	Pim File Format Specification.					
(2)	KE01-00-000-AK-A-PS-0001-000	ITEM NUMBERING AND CODING PROCEDURAL STANDARD.					
(3)	GE00-AKS-K63-LS-0001-000	Data Requirement Definition.					
(4)	KE01-00-000-AK-A-PS-0002-000	Facility Functional Unit Numbering					
(5)	E01-00-000-AK-A-PS-0003-000	Material coding Procedure					
(6)	KE01-00-000-KD-P-ST-0001-000	Piping specification					

## 2. LOGIN

At login the user has the possibility to use User Name and Password previously provided by KCO or to login as "Anonymous" (User Name and Password are not required).

Once selected the Anonymous check-box the User and Password fields will be disabled.

Users from the KCO intranet will be granted Anonymous access as AKCOAnonymous; privileges for both groups are defined by the Supervisors.

AKCOAnonymous will have access to the database congaing only the BV layer.

eni agip kco	EMDB Login	
	System Requirements	

When using credentials, at the first login the password is Password01 for all users; once clicked the Login button, the user will be asked to change the password, setting his own password.



Extension for the second secon	1/ - Change default Passwo 🔳 🗖 🔀
	Current User: [user]
Old Password:	Password01
New Password:	•••••
Re-type New Password:	••••••
Login	Exit
	s: at least 8 characters, at least one regular apital (A-Z), at least one number (0-9),at least one

Here below the EMDB+ security password policy:

- 1. Password length: 8 characters minimum, 20 characters maximum
- Password structure, 3 of the following 4 criteria has to be included: at least one upper case, at least one lower case, at least one number, at least one of the following special characters ! / \@ # \$ % ^ & + =

Once the user has logged the first time, he can choose to save his credential in order to automatically login the subsequent times.

## 3. MAIN CONTROL BOARD LAYOUT

The Main Control Board is the starting point for every user action.

From the Main Control Board the user can choose an item from the Side Menu Bar; can input query criteria in the Search Criteria Area; can perform specific actions using the Top Menu & Button Bar and finally can view the query results in the Search Result Area.

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## Side Menu Bar

The Side Menu bar allows the user to select:

• Engineering and Maintenance Items (e.g. Loops, Tags, ...)



- Maintenance Data (e.g. Corrective Maintenance, Criticality Analysis, Job Plans, ...)
- Document References (e.g. Certificates, Documents, ...)
- Procurements (e.g. Company, Contracts,...)
- Materials (e.g. Models, Spare Parts, ...)
- Control Panel (e.g. Query List...)
- Reporting Items (e.g. Batch Processes, Plant Tree, ...)
- MiapRE (e.g. Code Validation)

#### 3.1 TOP MENU BAR

In the Top Menu Bar the user can find all the functionalities available for the specified type of item selected from the Side Menu Bar (e.g. View, Search, Export, Logout ...).

#### 3.2 SEARCH CRITERIA AREA

In this area the user can find all the fields that can be used to query the records of the current type of item.

Search criteria Area can be hidden or shown using the buttons <sup>2</sup>Hide Criteria</sup>, <sup>2</sup>Show Criteria</sup> in the toolbar.

The user has the possibility to narrow down the search criteria to be applied using, when available, the button "Search by List". See par 6.2 on how to manage the Query List.

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	B4-3651-EPT-446	Pressure transmitter	BOSA	RGI Compressor Barge	365-CU476	I	INSTRUMENTATION & CONTROLS	FT PT			
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PROCUREMENT	B4-3651-LT-404	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
	B4-3651-LT-601	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
MATERIALS	B4-3651-LT-605	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
CONTROL PANEL	B4-3651-LT-561	Level transmitter	BOSA	RGI Compressor Barge	400-CU025	1	INSTRUMENTATION & CONTROLS	LT			
	B4-3651-LT-402	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
REPORTING	B4-3651-LT-410	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
MIAPRE	B4-3651-LT-493	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
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	B4-3651-LT-606	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
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	B4-3651-LT-609	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	IT			
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	B4-3651-LT-640	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	TBA			
	B4-3651-PDIT-257	Differential pressure tran		RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	PT			
	B4-3651-LT-600	Level transmitter	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	LT			
	B4-3651-PDIT-219	Differential pressure tran	BOSA	RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	PT			
	B4-3651-PDT-011	Differential pressure tran.		RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	PDT			
	84-3651-PDT-093	Differential pressure tran		RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	PDT			
	B4-3651-PDT-114	Pressure differential tran		RGI Compressor Barge	365-CU476		INSTRUMENTATION & CONTROLS	TBA			
	B4-3651-PDT-227	Differential pressure tran.		RGI Compressor Barge	365-CU476	1	INSTRUMENTATION & CONTROLS	PDT			
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## 3.3 SEARCH RESULT AREA

This area shows the list of records as the result of the query action

## 4. DATA INPUT FORM LAYOUT

Each type of item (Engineering, Maintenance, Procurement, Security) can be viewed and according to permissions also Inserted or Edited through the Data Input Form Layout

# Agip KCO



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Correct Facility:					Service Description:				
hort Description:				÷	Russian Description:				
upplier:	PETROLVALVES	10		P	Supplier Tag Number:				
ackage Tag:	N/A	R	Dummy Tag for Package Tag Nu	imbe 拿	Contractor:				
lanufacturer:	ABB			ها	Maintenance Item:	(Ves)			
ag Group:	Instrument	R	Common Tag D For Tage		A Aroa	B4		(KE01) Offshore Complex D	
tem Type:	EPT	P	EMERGENCY PALSONC TRANS		u Alca				
lodel:	264HS	P		Â.	Loop:	B4-3651-E-429		Automatic created loop number	for 1
rea:	PT			÷	Discipline:	I		INSTRUMENTATION & CONTRO	NS
unctional Unit:	365	P	RAW GAS INJECTIO	÷	Fire Zone:		P		
rain:	1		Train 1	, T	Progressive No.:	429			
edundancy:					Functional Status:	0		Object Identified (default)	
hysical Status:	0		Object Identified (default)	\$	Detailed Location:	B4-3651-EDV-429			
Commissioning Unit:	365-CU476				]				_
lotes:									
				_					
New Delete	Undelete								
ommon Attributes	Specific Attributes	Document R	elations Tag Connections	MIAPIN	Data ACS Data	Certificates Short L	ine Relations	DCQC Fields Purchase	Orde
ag Hierarchies									
									_
Total Rows: 8	Law and the second s		Doloto	a li	tem Are				
Attribute	Attribute Definition		neiale	an	lem Are	a			A
Criticality Code	Criticality Value	coming from th	ne Analysis						3
uture Flag	indicates the ite	m is a future r	equirement						N
tem Class	Is this item - Eq	uipment, Line,	Valve or Instrument						I
	e m Item Operating								Т
	e m Item Operating								Т
dditional information Contractor Supplier C			ion relevant to the item e Originating Execution Contract						P
									N

## 4.1 TOP MENU BAR

These bars allow the user to perform all actions available for the opened item (e.g. Edit, Save, Export Details, Close...)

## 4.2 FIELD AREA

This area contains the fields of the opened item.

## 4.3 RELATED ITEM AREA

In this area the user can find all possible items related to opened item (e.g. Documents related to a Tag, Spare parts related to a Model...)

## 5. COMMON FUNCTIONALITIES

#### 5.1 DATA CONTROLS

In order to help users to get data navigation and data input experience more friendly and efficient some specific controls have been used in EMDB+ application.

#### 5.1.1 Selection control

Each time the user has to fill in a value that is constrained to a list of permitted values, a Selection Control is used to guide this action.

In the selection control the first field identifies the Code and the second field identifies the Description.



-

Functional Unit:			*
	Code field	Description field	
The user can dire	ectly write the text into the Co	de field:	
Functional Unit:	111	WELLHEAD GAS INJECTION	*

Or, as an alternative, click on the lens button 🔎 and choose the value, or if multiple choices are available, the list of values from the list. Multiple choices can be selected using the checkboxes.

The user can also pre-filter the values in the list writing a part of the value searched into the Code field or into the Description field:

Functional Unit:

In order to view the list of allowable values the user can also put the cursor into the field and use the up and down arrow key on the keyboard.

Once the list is displayed, the user can navigate possible multiple pages using the navigation panel Value from 谷心心影 000 to 330 <u>Go</u> Page 1 of 4

The two textboxes with the labels "Value from" and "to" can be used filter the values in the Code columns, while the textbox Page allows the user to go back and forth through the pages.

The outer arrows can be used to go directly to the first and last page of the list, while the inner ones can be used to navigate pages one by one.

To confirm the wanted values the user can:

Click on the specific record to insert the value in the field:

Functional Unit:

- 111 WELLHEAD GAS INJECTION
- Select multiple values using the checkboxes and then using the button Ok to confirm and close the list:

Functional Unit:	110    111    112		A T
	Select a Functional Unit	OK I	X
	Value from 000 to	330 Go Page 1 of 4	
	Code	Description	
	000	GENERAL	
	100	WELLHEAD PRODUCTION	
	105	WELLHEAD SUBSEA COMPLETION	E
	110	WELLHEAD INJECTION	
	111	WELLHEAD GAS INJECTION	
	. 📝 112	WELLHEAD TREATED OILY WATER INJECTION	
	113	WELLHEAD WATER INJECTION	
	114	WELLHEAD INJECTION - SUBSEA COMPLETION	
	115	WELLHEAD INJECTION - SUBSEA COMPLETION	
	120	CHEMICAL INJECTION	
	125	WELLHEAD – DRILLING	
	130	MANIFOLD	
	135	WELL SERVICING EQUIPMENT	-



Agip KCO

The red button will close the list without confirming any selected value.

#### 5.1.2 Hyper Link Label

When a field value is related to the items of another table that is managed by *EMDB*+<sup>3</sup> interface, a Hyperlink Label is used to supply the View Item features:

If the field already contains a value, when clicking on the Hyperlink Label a window with the item details will appear:

		TAG: B4-:	3651-LT-561			User: [H	COAnonym
Exports Layou						n - 104	
👂 Edit 📔 🚽 Save	e 🕌 Save as 🙀 Save a		eria 🔟 Export Details	Save Layout	Restore L	ayout	
		BVL	)ataBase				
g Code: B4-3651-LT-561			Tag Description:	Level transmitter			
cility:	B05A	RGI Compressor Barge	Facility Grid:	B05A			
ared ject/Battery Limit:			Duplicate List:				
rrect Facility:			Service Description:				
ort Description:			Russian Description:				
oplier:	INVENSYS SYSTEMS/FUJI		Supplier Tag Number				
ckage Tag:	N/A	Dummy Tag for Package Tag Numbe	Contractor:				
anufacturer:	FUJI		Maintenance Item:	Ves)			
g Group:	Instrument	Common Tag Data For All Tagged Ins	Sub Asset:	B4		(KE01) Offshore Comp	lex D
em Type:	LT	DISPLACER TRANSMITTER/LEVEL TR		-	_		
del:	FKDW65VE-LKCFY-SWJVYHY		Loop:	B4-3651-L-561		GLYCOL EXP.DRUM - L	
ea:	LT		Discipline:	I		INSTRUMENTATION &	CONTROLS
nctional Unit:	365	RAW GAS INJECTIO	Fire Zone:			P	
Edit		IDNRR=148745&OpenMode=Esa Loop: B4-3	651-L-561		_	User: [KCOAnonyi	nous]
N Edit   ],	Save 🕌 Save as 🕅 :		taBase				
Loop Code:	B4-3651-L-561		Loop Description: G	LYCOL EXP.DRUM - LEVE	3		
Discipline:	I	INSTRUMENTATION & CONTROL 💲	Item Type:			VEL	\$
Sub Asset:	в4	(KE01) Offshore Complex D		65		W GAS INJECTIO	+
Train:	1	P Train 1		05A		I Compressor Barge	¢
Progressive No	.: 561	- 19-19-19-19-19-19-19-19-19-19-19-19-19-1	Redundancy:				
Notes:							
		No.	1	100		1	

## 5.1.3 Calendar Control

This type of control is used to insert a date into a field that requires a value in date format.

Date Start To:	
----------------	--

The user has to press the calendar button 🕮	to open the control.
---	----------------------

•	► Ja	anuar	y 🖪	200	08 🔻	7	×
Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1		1	2	3	4	5	6
2	7	8	9	10	11	12	13
3	14	15	16	17	18	19	20
4	21	22	23	24	25	26	27
5	28	29	30	31			
		С	lear D	ate			

The control, when opened, shows the date in the field if present; if not, shows the current date. The calendar navigation features are the following:

- Left Arrow button shows the previous month
- Right Arrow button Shows the next month
- Month button shows the list of selectable months
- Year button 2008 Shows the list of selectable years
- Calendar Days area 28 29 30 31 shows the list of selectable calendar days
- Clear Date button Clear Date empties field value
- Close button 🖄 closes the calendar

Each Item has its own search area that allows the user to look for the desired information.

Once the user has set query criteria as explained in par. 5.2.1 he has to click on Search button (or press enter) to view the query result.

## 5.2 DATA QUERY

## 5.2.1 Search Criteria

The search area contains the fields to be used to narrow down search results for specific records.

The following types of user controls are available:

Textbox & Selection Control.

The Selection Control (explained in par 5.1.1) can help the user to choose a "text" included in a list of admissible values.

The following special character are available for advanced filtering:

- <u>Character && (the "logic AND")</u>In order to search only the items which contains in a field both two texts the user has to input the "&&" in the desired field between two texts inserted (e.g. "00\*&&\*PA" matches with "001-PA", "002-PA", "003-PA"... et cetera)
- <u>Character || (the "logic OR")</u>

In order to search the items which contains in a field a text or another one the user has to input the "||" in the desired field between two texts inserted (e.g. "PA||CV" matches with "PA" and with "CV")

<u>Character <> (the logic NOT)</u>

In order to search the items which doesn't contain in a field a text the user has to input the "<>" in the desired field before a text (e.g. "<>000" matches with all texts except "000")

Word EMPTY

In order to search only the items which has an empty field the user has to input the "EMPTY" in the desired field

All the special characters can be used at the same time in the same field, producing complex filters.



Effective Solution

## Calendar Control.

In order to search for a record with some criteria based on "date" field the user has to:

1. input a date using the Calendar Control as specified in par. 5.1.3

#### Checkbox Control.

In order to search for a record with some criteria based on "Yes\No" field the user has to:

- 1. click on the Checkbox control one time to search for all records which filed value is "Y"
- 2. click on the Checkbox control two times to search for all records which filed value is "N"
- 3. click on the Checkbox control three times to search for all records which filed value is not set (neither "Y" nor "N")

## 5.2.2 Result Table Navigation

The user has at his disposal the following features that help him to improve the Result Table Navigation activity:

Data Sorting

The user can sort the records displayed clicking on the column header of the field he wants to sort by. An arrow will appear to show that record are sorted and which sorting direction is being applied (Ascending\Descending)

Data Grouping

The user can group the records displayed dragging on the top grey area of the table the column header of the field he wants to group by. A maximum number of 4 fields can be used for hierarchical data grouping.

## <u>Column Sequencing</u>

The user can change the sequence of columns displayed dragging each column header in the desired position.

Paging

If the number of records extracted exceeds the number of record displayed on each page, the result set is paginated and the user can use the following controls to navigate:

- 1. Next Page Button: this button allows the user to move to the next table page
- 2. Previous Page Button: this button allows the user to move to the previous table page
- 3. Next Block Button: this button allows the user to move to the next block page (Blocks consists of 10 pages)
- 4. Next Block List: this list allows the user to move to a specific page

## 5.2.3 Result table Layout Management

There are two sets of layout settings that can be managed by each user for each item.

- <u>Sorting, Grouping and Column Sequencing</u> After the user has sorted\grouped records and changed the column sequence he can save this set of layout settings clicking on the Save Layout button. This layout options will be applied each time the Search functionality will be used. Then the user shall click on Restore Layout button in order to restore the original layout settings
- <u>Columns and Rows Displaying</u> In order to set the columns displayed into the Search Result Table and to decide the number of records displayed on each page, the user shall:

Effective Sol

- 1. Click on the Grid Options menu item of the Layout Menu Voice
- 2. Flag the list of columns he wants to display
- 3. Input the number of rows displayed per page
- 4. Click on Save button to save these settings

## 5.2.4 Data Export

This functionality allows the user to export data as a result of data query process, or as related item details.

In order to do this, the user has to:

- 1. Set data query criteria, and/or use the Search By List and click on Search button (1)
- 2. Click on Data Export button (2)
- 3. Choose the desired options:
  - Send mail: to be checked if the user wants the exported file to be sent to the Email address saved in the user profile (Available only for Batch Process).
  - Export file format: Excel, Text, Access
  - Compression method available according to the export type. Batch Process (.zip, .rar), Real time (uncompressed, .zip, .rar)
  - File name to be used instead of the standard one.
- 4. Click on Export Button (3)

					Enginee	ring Data	a - Tag Search					ser: [KCOA	nanymou
(mail)	Record Filter Exports	Layout Log ?											
eni agip kco	🍸 View 🎾 Search 🍃	) Search by List	🧲 Reset 🛛 🛃 His	le Criteria 🛛 🕱 Esp	port 🕱 Export Item No. Classes	St Expx	rtFadilies 🛛 🔐 Conflic	Analysis 😳 Compare	e 🔰 👩 Logou	it 📋 📸 Contact Us			
					R	BV Data	Base						
ENGINEERING DATA	Tag Number:				1		Facility:	-					1
MAINTENANCE DATA	Service Description:	$\mathbf{X}$			- \		Tag Description:						100
DOCUMENT REFERENCES	Tag Group:	$\mathbf{h}$					Purchase Order:						4
	ing aroup	Exclude		Exclude Loops:		*							
PROCUREMENT			)		(2)								
/ Companies	Item Type:				$\smile$	4.5	Commissioning Unit:						
/ Contracts	Supplier:					P	Maintenance Item:	? (AII)					
/ Purchase Orders	Package Tag:					1	Supplier Tag Number:						
MATERIALS	Manufacturer:			104100		P	Contractor:						6
CONTROL PANEL	Model:						Reserved Only:	? (All)					
CONTROL PAREL								[] (Ait)					
REPORTING	Area Code:		1			_	Loop:		D	2			4
MIAPRE	Functional Unit:			🞯 frmRealOrBat	tch - Windows Internet Explorer		-						4
	Train:			Attp://emdb	plus.miap.it/frmRealOrBatch.asp	c?ckRepo	rt=Griglia&RepType=(	rid&IdReport=EMDB					4
	Physical Status:					process ty	2 7 77	er: [KCOAnonymous]					4
	Progressive No.:					nocess (	ypes 0.	ar (keekinenyinees)					4
	Redundancy:			Esport	Close					2			4
	-			Proces	s type:    Batch    Real								-
	Total Rows: 260 of 260			Send									
		$\sim$			Address:								
	Drag a column header here	(3)	column the results		ess Type: O Unzipped O Z	n Ela	Dar File			110 M			
	Tag Tag Number Description	Fact Jescrip	Commission Unit						lorrect acility	Service Description	Tag Group	Item	Туре
	B4-3651 Pressure tr	1000000000	mpr 365-CU476			Text F	File 🔘 Acce	is	dency	Description	Instrument	EPT	-
	84-3651 Level trans		mpr 365-CU476	File Na	ame:						Instrument	LT	
	84-3651 Level trans	B05A RGI Co	mpr 365-CU478	1.		_			9		Instrument	LT	
	B4-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	B4-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	84-3651 Pressure tr	B05A RGI Co	mpr 420-CU733	I	INSTRUMENTATI PT						Instrument	EPT	
	B4-3651 Pressure tr	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI PT						Instrument	EPT	/
	B4-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	B4-3651-L Level trans	B05A RGI Co	mpr 365-CU476		INSTRUMENTATI LT								
	B4-3651 Level trans	B05A RGI Co	mpr 400-CU025	I	INSTRUMENTATI LT						Instrument	LT	
	84-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	84-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	B4-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	B4-3651 Level Tran	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	B4-3651 Level trans	B05A RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
	84-3651 Level trans	BOSA RGI Co	mpr 365-CU476	I	INSTRUMENTATI LT						Instrument	LT	
					INDIROPERTITIES ET						1150 dilleric		
				- E									



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tp://emdbplus. <b>miap.it</b> /fi	mRealOrBatch.aspx?ckReport=GrigI	ia&RepType=Grid&IdReport=EN
	Choose process type:	User: [KCOAnonymou
Export   🐔 Olose		
Process type:	Batch      Real     Real     A	
Send mail:		
EMail Address:		
Compress Type:	🔘 Unzipped 🔘 Zip File 🔘 Rar File	
Exported File Type:	Excel     Text File	Access
File Name:		

If Access is chosen as Exported File Type then automatically the Zip File option is checked with no possibility to be unchecked.

The maximum number of records to be exported in Real Time is 3000.

## 6. SPECIFIC FUNCTIONALITIES

## 6.1 MIAPRE CODE VALIDATION.

MiapRE is the acronym for Miap Reverse Engineering. The menu item available in this section is the Code Validation. The main functionality is to validate AKCO code according the procedure listed section 1.4. Alongside to the information provided there are engineering code checks that highlight peculiar code structure combinations and also database checks that give information on code availability, status and ownership.

MiapRE gives support to the Supply Chain and serve the purpose of Tag Numbers Duplication Prevention and Tag Ownership checks. It also allows checking the engineering standards implementation for materials.

The following codes types are identified:

- Tagged Item Number.
- Non-Piping Project Standard.
- Piping Project Standard.
- Commercial Spare.
- Model Spare.
- Specific Spare Part.
- Miscellaneous Deliverables Item.
- Piping Specialty.
- Manufacturer Spools.

Codes can be checked individually or by submitting a list contained in an excel file. The excel template file is provided by clicking on the "Template Download" link. The use of the template is mandatory.

Codes are validated in terms of their structure or they are searched within catalogues that are uploaded, or in database. Catalogues are uploaded by the Automatic Update Process that retrieves files via FTP and updates database.

Code	Гуре	Validation				
•	Tagged Item Number.	They are validated according to the Item Numbering procedure (see section 1.4, ref. 2) and a further check is done into the EMDB+ database for tag availability and ownership.				
		On Line Tagged Item Number the identification process can add warnings to the code check regarding the coherence between Commodity Class and Piping Class and the validation of the Piping Diameter.				
		For the Instrument Tag a check is performed in Database showing also if the Loop Number that can be derived from the Instrument have been uploaded in EMDB+.				
		The Column Doc Reference will contain the list of Documents that have been related to any combination of the Tag/Facility.				
•	Miscellaneous Deliverables Item	They are validated according the structure defined in the Material Coding procedure (see section 1.4, ref. 5)				
•	Piping Specialty.					
All othe	er codes:	They are validated according to MIAP coding rule and				
•	Non-Piping Project Standard.	checked against the uploaded catalogues and databases.				
•	Piping Project Standard.					
•	Commercial Spare.					
•	Model Spare.					
•	Specific Spare Part.					
•	Manufacturer Spools.					

These functionalities can be accessed according to the permissions set to the user group and also to the users that access EMDB+ as Anonymous.

## 6.1.1 Main Form.

The Main Form has the following specific functionality:

- Download Template: allows the user to download the template to be used in the File code validation (See section 6.5.1.1 for Template download and section 7 for Bulk Validation).
- Single Code Validation (Par 6.5.1.2) used to validate a single code.
- Bulk Validation (Par 6.5.1.3) used to validate a list of codes.
- Export: Allows the user to export the Single Code validation only in Real Time.
- Info: Shows MiapRE Information (Par 6.5.1.4).
- Help: Shows the MiapRE Manual (Par 6.5.1.5).
- Logout.



Eni	Data Owner: [BV]         Code Validation         User: [m	npessina]
Eni	Record Exports Layout ?	
EMDB PLUS	🕅 Download Template 🔞 Single Code Validation 🍓 Bulk Validation   🕱 Export 🤃 Info 🔞 Help   👩 Logout	
ENGINEERING DATA		
V Loops	Total Rows: 0	
Tag Connections	Drag a column header here to group by that column.	
Tag Documents	Imported Code Imported Description Reverse Description Code Check Code Check Datalis Status Description Check Discipline Known Data Owners Item Class Code Description Loop Duplicate Doc Reference	
🗸 Tags		,
Attributes	There are no items to show in this view	
Tag Hierarchy		
MAINTENANCE DATA		
DOCUMENT REFERENCES		
PROCUREMENT		
MATERIALS		
CONTROL PANEL		
CONFLICTS		
REPORTING		
SECURITY		
MIAPRE		
🗸 Code Validation		
MIAPIN		

## 6.1.1.1 Download Template.

This functionality allows the user to download the excel file template to be used to validate a list of AKCO Codes. The use of the Template is mandatory.

The following steps are required:

- To click on "Download Template"
- To Save the Template in the user Hard Disk.

#### 6.1.1.2 Single Code Validation.

This functionality allows the user to check a single code. Code can be of any of the types described in Par 6.5.

	Finestra di dialogo pagina Web frmMiapRESingleCodeValidation.a	
	Single Code Validation	User: [KCOAnonymous]
🗸 Validate 🔰 🐔 Close		
Code:		

In order to submit a code the user has to:

- Click on Single Code Validation from the Top Menu Bar.
- Type the code to check (copy and paste is also allowed).
- Click on the "Validate" button.

The result will be shown in the main board window and can be exported using the Export functionality available for all grids.. See Par 6.1.2 for details on the code validation result.



## 6.1.1.3 Bulk Validation.

This functionality allows the user to upload a list of codes for validation by means of an excel Template file (See Par 6.1.1.1 "Template Download" for details on the mandatory template to use).

Bulk Validation will open a new window.

📔 🌌 Import Excel File 🖌 Validate 🍨	Close		
Select and xcel file (.xls) to import:	Send Mail	Mail Address:	se
Code 1	Descr	There are no items to show in this view	

From the opened window the user has to set the following values in order to run the process:

Batch or Real Time (1

Send Mail and Mail Address: Available only for Batch process, when the flag is checked then an email will be sent to the specified email address. When a user is logged on with credentials then the email address will be automatically shown filled with the value saved in EMDB+. (2)

File excel to import: is the prepared template with codes that has to be uploaded in order to validate the code list. (3)

Once selected the correct parameters the user has to click on the button "Import Excel File". If the file compliant to the Template then the content will be displayed in the grid.

To run the validation the user has to click the button "Validate".

<u>Batch Process</u>: In Batch Process the result can be found under Batch Processes. If the Send Mail checkbox is checked then the user will receive one or more mail, to the specified email address in the Mail Address text box, according to the number of codes to be validated.

<u>Real time Process</u>: The maximum number of rows that can be process in Real Time is set in a parameter and it is 3000. Email options will not be available and once completed the result will be shown in an excel file.





List Validation Web Page Dialog Data Owner: [BV]	List Validation	<b>?]</b> User: [r3Admin
📓 Import Excel File 🗸 Validate 🛛 🐔 Close		
C Batch C Real Time Send Mail Select an excel file (.xls) to import:	Mail Address:       r3admin@trancube.it         File Download       Image: Some files can harm your computer. If the file information below looks suspicious, or you do not fully trust the source, do not open or save this file.         File name:      n_Export_20110215_1740.zip         File type:       Compressed (zipped) Folder         From:       endoplus.miap.it         Would you like to open the file or save it to your computer?       Open         Open       Save         Cancel       More Info         Image: Algraph ask before opening this type of file	

## 6.1.1.4 Info.

This form shows MiapRE Information such as version, last modified date, last catalogue uploaded date. It also shows the versions of the Item Numbering procedure and Material Coding procedure that provides the rules on which MiapRE is based.

## 6.1.1.5 Help

Help allows the user to open or save a copy of the MiapRE manual as Portable Document Format (pdf).

## 6.1.2 Code Validation Result

The information shown in grid are:

- 1. Imported Code.
- 2. Imported Description.
- 3. Reverse Description.
- 4. Code Check.
- 5. Code Check Details.
- 6. Status.
- 7. Description Check.
- 8. Discipline.
- 9. Item Type.
- 10. Item Type Desc.
- 11. Loop
- 12. Doc. Details.
- 13. Warning
- 14. Facility
- 15. Doc. Reference

- 1. Code: is the code from the uploaded file in MiapRE.
- 2. Description: is the code and description from the uploaded file in MiapRE. In the single code validation the description will be empty as the user can only submit the code.
- 3. Rev. Engineering Description: gives engineering details on single section of the code or on the code as a whole according to the result of the process identification. In case of Tag Number, Miscellaneous Deliverables Item and Piping Specialty each section is shown with its description. In case of piping bulk, spare part or auxiliary code, it gives the AKCO description.
- 4. Code check: states if the code is correct or wrong. A correct code could also have a warning message which usually is a discrepancy not severe as an error. This could happen for example in case of Line Numbers that are correct from the code structure point of view but have a combination of piping class and commodity code that are not allowed.
- 5. Code Check Details: give the Identified rules or could give a hint of an error when a code is wrong.
- 6. Status: gives the Status of the code. The Status depends on the type of code. In case of Tag Numbers it can be: Available when the Tag Number is not found in EMDB + database, Terminated when it is found in the database but terminated (with the information of the Facility), or the Duplicate Status when the tag is found in EMDB + .

Except Miscellaneous Deliverables Item and Piping Specialty, all the other codes can have the following status: active/void according to the MIAP description.

- 7. Descr. Check: gives the Description Check. The check is based on the exact match of Piping bulk, Auxiliary and Spare part codes that should use Agip KCO given description.
- 8. Discipline: gives the type of code identified see Par 6.5 for the list of codes.
- 9. Item Type Code: gives the Item Type Code of the tag number.
- 10. Item Type Code Desc.: gives the Item Type Code Description of the tag number.
- 11. Loop: gives information on the possible corresponding Loop Code when the Code Validated is an Instrument and the Loop Code is found in EMDB+.
- 12. Doc. Details: gives the list of document sent for the specific Tag Code validated.
- 13. Warning: gives information regarded as warning during validation (e.g. The coherence check between Piping Class and Piping Diameter block for lines)
- 14. Facility / Doc Reference: Not in use by the Validation process.

## 6.2 QUERY LIST

The user has the possibility to add a list of tags Facility that can be used to narrow down the filter to be applied in any of the Search Form where the button "Search by List " is available. Multiple lists can be uploaded by only one can be active and used for filtering purposes.

From the Search form all the lists uploaded by the user can be filtered according to the search criteria.

The following functionality are available from the Search form:



<u>Download Template</u>: Allows the user to download the template to be used to prepare the file list to upload.

	Control Panel - Query Lists Search Users	[KCOAnonymous]
	Record Filter Exports Layout Log ?	
eni agip kco	📔 📝 Weev   🔎 Search 💈 Reset 🤰 Hide Criteria 📓 Export   🖓 Download Template 🛹 Set as Active   🧕 Logsut	
	BY DataBase	
ENGINEERING DATA	List Name: Description:	
MAINTENANCE DATA	Active: 2 (All)	
DOCUMENT REFERENCES	Total Rows: 0	
PROCUREMENT	Drag a column header here to group by that column the results in the below grid	
MATERIALS	List Name Description Active No. of Items Type	
	There are no items to show in this view.	
CONTROL PANEL	inere are no items to snow in this view.	
V Query Lists		
REPORTING		
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		€ 100% ▼

Set as Active: Allows the user to set the selected list as Active.

The list to be uploaded has to be compliant to the template available using the Download Template functionality.

To download the excel file template to be used to upload the list the user has to:

- To click on "Download Template"
- To Save the Template.

To add a new List the user has to click on the New button and to:

- Fill the fields List Name and Description. (1)
- Locate the file to excel (2)
- Click on the button Save. (3)

The uploaded list will then be viewed in the Grid.



ist Name:	3	Description:	
Search:			Browse
QueryLists Tags New Delet Total Rows: 0 Drag a column hear	e der here to group by that column.		2
Tag Code	Data Owner Code	Facility Code	
	There are no items to s	now in this view	

The following Specific functionality are also available in the form Query List:

<u>Import List – Add</u>: allows the user to add a list of tag to the existing list. The new rows will be appended. The rows that are duplicated will not be added.

Import List – Replace: allows the user to replace a list of tags to the existing list.

It is also possible from the grid to manage new tags to be added, and also to delete them.

## 7. REPORTING

## 7.1 PLANT TREE

This functionality shows the Plant information inserted into EMDB in the form of a tree, displaying all the relation between items.

(1

For every node, the number of children is displayed on the right.

To expand the node to show the child nodes, the user has to click on the symbol "+".

On clicking the child node the related data input form will be displayed.

In order to browse the Plant Information the user has to :

• Click on the "Plant Tree" item on the Side Menu Bar



100	Reporting - Plant Tree User: [KCOAnonym	nous]
Euch	Edit ?	
eni agip kco	🙍 Logout   🛃 Print	
NGINEERING DATA	BV DataBase	
	- Plant	
AINTENANCE DATA	Facilities (65)	
OCUMENT REFERENCES	+ A01A - Onshore Power Generation (3 Sub Assets) + A01B - Onshore Utilities (4 Sub Assets) + A01B - Ladotte (5 C Sub Assets)	
ROCUREMENT	+ A02A - Industrial Areas (OUT of RoK) (5 Sub Assets) + A02B - Industrial Buildings (1 Sub Asset) + A03A - Tanks (2 Sub Assets)	
IATERIALS	+ A03B - North Offsites (6 Sub Assets) + A06A - Oil Treatment (1 Sub Asset)	
ONTROL PANEL	+ A07A - Water Systems (2 Sub Assets) + A08A - Steam Generation (1 Sub Asset)	
EPORTING	+ A10A - Erection of Main Piperads Steel (2 Sub Assets) + A10B - Main Works Construction Contract (1 Sub Asset) + A10E - Onshore MWA E&I&T Contract (1 Sub Asset)	
Batch Processes	+ A 10F - Main Works Aarea - Substation & Compressor Buildings (X SULPHUR) Finishings (1 Sub Asset)	
Plant Tree	+ A10G - Onsite Construction - Gas Area (1 Sub Asset) + A10H - Onshore Tranche 3 Power Generation (3 Sub Assets)	
IIAPRE	+ A10J - EWRP Preliminary Civil Works - Temirzhol Kurylys - Atyrau (TKA) (3 Sub Assets) + A10K - EWRP Early Engineering (9 Sub Assets)	
	+ A10R - MWA SIS Buildings Finishings (1 Sub Asset) + A10S - Onshore MWA Sulphur, Slug Catcher & Flare (1 Sub Asset)	
	A 10U - Onsite Construction - Underground (2 Sub Assets)	
	A16A - Full Field Development Feed Services (1 Sub Asset) + A17A - EPC for Process liquid waste disposal areas (1 Sub Asset)	
	+ AKCO - AGIPKCO and Direct Suppliers (12 Sub Assets)	
	+ B02A - Process & Utilities Barges (4 Sub Assets) + B03A - Living Quarter Barges (3 Sub Assets)	
	+ B03B - Construction Services for Living Quarter (1 Sub Asset)	
	+ B04A - Offshore Power Generation (2 Sub Assets) + B04B - Offshore Power Station (GTG) (2 Sub Assets)	
	+ B05A - RGI Compressor Barge (3 Sub Assets)	
	+ B06A - Offshore Flash Gas (4 Sub Assets)	
	+ B06B - Flash Gas Compression additional Eng (1 Sub Asset) + B07A - Pile & Flare Fabrication & Installation (2 Sub Assets)	
	+ B09A - Procurement & Fabrication of Ancillary Steelworks and Piperacks (1 Sub Asset)	
	+ B09C - Ancillary Steelwork and Piperack (EA) (1 Sub Asset) + B12A - Temporary Refuge (1 Sub Asset)	
	+ B14B - Civil & Structural Design and Engineering Offshore Islands (2 Sub Assets)	
	+ B18B - Kashagan HUC - Early Works Activities (3 Sub Assets) + B18E - HUP, Pre Commissioning & Commissioning Assistance (2 Sub Assets)	
	+ B18F - Design & Construction of Temporary Refuge Barges (4 Sub Assets)	
	( ) III	

## 8. BATCH RESULT

#### 8.1 BATCH PROCESSES

Batch Process Logs can be viewed under Reporting  $\rightarrow$  Batch Processes.

The processes shown are the ones that extract data from EMDB+. According to the batch process type the result can be a specific report or a file containing a grid export.

100 M					Reporting - Batch Pr	ocesses Sear	-ch			User: [KCOAnonymc
	Record Fi	lter Exports Layout	Log ?							
eni agip kco	📝 Vienw	🔑 Search 🛛 💈 Rese	t 🔮 Hikle Griteria 🛛	Export	oj Logout					
ENGINEERING DATA					BV Data6	ase				
	<u>~</u>						Contract of			
MAINTENANCE DATA	Total Rov	vs: 2 of 2								
DOCUMENT REFERENCES	Drag a col	lumn header here to gro	up by that column the res	sults in the belo	w grid					
PROCUREMENT	Id Process	Start Date	End Date	Elapsed Time	Process Action	Process Status	Attachments Quantity	Message	Search Filter	User Login
MATERIALS	30	18/10/2012 11:48:33	18/10/2012 11:48:37	00.00.04	GridExport	Finished	1		Search By List: T	. KCOAnonymous
ONTROL PANEL	27	16/10/2012 07:48:39	16/10/2012 07:48:43	00.00.04	TagValidationExport	Finished	1			KCOAnonymous
EPORTING										
Batch Processes										
Plant Tree										
IIAPRE										
Literative securiors										

To view the result the user has to double click on the grid the desired batch process.

A window will then open showing the attachments.







	nBatchProcess.aspx?IDN	RR=30&OpenMo	de=Esa	
		Batch P	Process Logs	User: [KCOAnonymo
lit Layout Exports				
X Abort Process 🚮 Close	Save Layout	Seport Details	Restore Layout	
Due to your computer setting Open, in order to save and op			iles inside the archive (.zip, .rar ) . Use the ${}^{\underline{c}}$	iave option, instead of
Search Filter:		Searc	ch Filter:	
earch By List: Transmitter List				
Total Rows: 1	roup by that column.			
Drag a column header here to g		1100	Notes	
Id Batch				
Id Batch Process Batch File Name				-
Id Batch Process Batch File Name	js_Data_Export.zip			
Id Batch Process Batch File Name	is_Data_Export.zip		1000	
Id Batch Process Batch File Name	s_Data_Export.zip			
Id Batch Process Batch File Name	is_Data_Export.zip			
Id Batch Process Batch File Name	is_Data_Export.zip			