

Application Infrastructure RepositoryManual



Content

1	Int	troduction	6
	1.1	What is AIR?	6
	1.2	Conventions	6
2	Ge	et Started	7
	2.1	Requirements	7
	2.2	Login	
	2.3	Roles and Rights	
		· ·	
3	Gr	raphical User Interface	9
	3.1	Head Menu	9
	3.2	Navigation	9
	3.3	Content	10
	3.4	Help Pane	
		•	
	3.5	Tooltips	10
4	Me	lenu items	11
	4.1	My Place	11
	4.1.		
	4.1.		
	4.2		
	4.2. 4.2.		
	4.3	Create New Record	
	_		
	4.4 4.4.	View and Edit	
		4.4.1.1 CI Type Specifics	
		4.4.1.2 Contacts	
		4.4.1.3 Agreements	16
		4.4.1.4 Protection	
		4.4.1.5 Compliance	
		4.4.1.6 Compliance Control Detail	
		4.4.1.7 Documentation	
		4.4.1.9 Relationships	
		4.4.1.10 Documentation	
		4.4.1.11 History	
		1.2 Functions	
		4.4.2.1 Delete a Record	24
	4	4.4.2.2 Person-/Group Picker	24
5	Δι	dministration	26
9	A		20
6	E/	AOs	27





Document History

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List of Figures

figure 1: Overview of the Graphical User Interface	9
igure 2: My Place	11
igure 3: Search	12
igure 4: Search Results	12
igure 5: Advanced Search	13
igure 6: Org. Unit Search	13
igure 7: Create New Record - Step 1 Mandatory	14
igure 8: Create New Record - Step 2 Required	15
igure 9: Contacts	16
igure 10: Agreements	17
igure 11: Protection	17
igure 12: Compliance and Relevances	17
igure 13: Compliance Controls	18
igure 14: Compliance Control detail	
igure 15: Compliance Control information	19
igure 16: Compliance Control Statement	19
igure 17: Compliance Control Statement GAP information	19
igure 18: Compliance Control - GAP risk analysis	20
igure 19: License & Costs	21
igure 20: Relationships	21
igure 21: Structure Chart of Connections	22
igure 22: Add a New Connection	23
igure 23: Remove a Connection	23
igure 24: Documentation	24
igure 25: History	24
igure 26: Person-Picker	24
igure 27: Person- and Group-Picker	25



1 Introduction

1.1 What is AIR?

The *Application Infrastructure Repository* (short: AIR) is a web-based application provided by Bayer Business Services GmbH. It supports the documentation of IT relevant components like applications, server or server rooms and their interconnections as well as connections to business processes.

1.2 Conventions

In this document following notations are used:

[Label] Button / Link to click

• Chapter x.y Reference to other chapter



2 Get Started

2.1 Requirements

Only authorized users have access to the application. User access is granted on request. This requires a request sent by the supervisor to following email address:

ITILcenter@bayer.com

The application requires on client side a web browser. Supported browsers are

- Firefox 4.x
- Firefox 5.x
- Internet Explorer 8 (visual bug: inactive elements are displayed in light grey)
- Internet Explorer 9

2.2 Login

To start the application use the following URL

https://air.de.bayer.cnb

or for the QA-system

https://air-q.de.bayer.cnb

and enter your **Bayer LDAP** username and password. The LDAP password can be changed or requested on https://by-password.bayer-ag.com.

2.3 Roles and Rights

The application differentiates between following *roles*

AIR Default

All types of IT components can be created. The result of the standard search includes all types of IT components.

• AIR Application Layer

Only applications can be created. The result of the standard search includes only applications. For other record types the advanced search can be used.

• AIR Application Manager

Analogous to the role AIR Application Layer but with the addition that it is possible to edit all records of the type application regardless of the ownership.

• AIR Infrastructure Layer

All IT components except of applications can be created. The result of the standard search includes all types of records except applications. For other record types the advanced search can be used.



• AIR Administrator

No restrictions regarding roles and rights.

• Business Essential Editor

This role allows the modification of the attribute *Business Essential*. For more information see BEAM28290.

AIR Developer

This is a special role for software engineers that enables diagnostic functions.

Permission for a particular existing record depends on the ownership of the record.

• Application Owner Primary Person

The assigned user (identified by the CWID) can view and edit all attributes with relevance level 'strategic'.

• Application Owner Delegate / Steward

This is either a valid CIWD or group (groups can be created using prima4PWP). Assigned user(s) can view and edit all attribute with relevance level 'strategic'. Groups are resolved into CWIDs.

• CI Owner Primary Person

The assigned user (identified by the CWID) can view and edit all attributes with relevance level 'organizational'.

CI Owner Delegate

This is either a valid CIWD or group (groups can be created using prima4PWP). Assigned user(s) can view and edit all attribute with relevance level 'organizational'. Groups are resolved into CWIDs.

CI GPSC Owner

This is a valid group (groups can be created using prima4PWP). Assigned user(s) can view and edit all attribute with relevance level 'organizational'. Groups are resolved into CWIDs.



3 Graphical User Interface

The applications graphical user interface (short: GUI) is partitioned into four areas.



Figure 1: Overview of the Graphical User Interface

- 4. Help pane → chapter 3.4

3.1 Head Menu

The *Head Menu* provides three general application-specific functions:

- Switch language between *english* and *german*. The flag indicates the next availbale language. If *german* is choosed the flag shows №. Per default the language is set to english. The default can be change within the 'user options' → chapter 4.1
- Opens the application's versioninfo in a new windows. This is available only in english.
- Opens the application's manual in a new window. The manual is available only in english.
- This button is for logout. Use this for security reasons to close application. *Notice: Inactive seesions will be terminated after 90 minutes.*

3.2 Navigation

The Navigation shows appropriate matching menu items. The standard view provides

- My Place
- Search
- New & Delete

with *Search* as the default choice. By selecting an existing record a sub-menu for details is provided. The sub-menu items depend on user rights and the type of record selected.



3.3 Content

This is the main pane. Content is shown with reference to the selected (sub-) menu item. In respect to user rights information is viewable and/or editable.

Details are described within chapter 4.

3.4 Help Pane

The *Help Pane* provides useful information for a particular site. This pane can be hidden using the → button and displayed using the → button. Per default the help pane is visible. The default can be change within the 'user options' → chapter 4.1

3.5 Tooltips

Tooltips are available for active fields and show the semantics of an attribute. For displaying a tooltip move the mouse courser over the attribute label. After 2-3 seconds specific information is displayed.





4 Menu items

Generally applicable information: Clicking a menu item will change the content in the *content* area. Attributes for a record appear with three different characteristics:

- Mandatory: Saving a data set is not allowed if an attribute of this type is empty. This kind
 of attributes are bold and followed by a '*'.
- Required (Draft → Mandatory): Unlike Mandatory the record can be saved if an attribute of this type is empty. The record remains in the status draft until all required attributes are stated. This kind of attributes are followed by a '*'.
- Optional: This attribute is not mandatory and can be saved empty.

All dropdown boxes support typeahead1.

4.1 My Place

Displays information about the logged-in user like username and associated roles. In section 'user options' default values can be overwritten.

- Language: German
- → Changes the default value from english to german.
- Currency
- → Changes the currency default setting for new records
- Help pane hidden
- → Hides the help pane per default.
- Skip wizard intro
- → When creating a new record the information page is no longer displayed.
- Disable tooltip
- → Hides all tooltips per default.

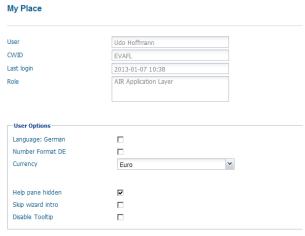


Figure 2: My Place

4.1.1 I'm Owner / Manager

Displays all records where logged-in user is *CI Owner Primary Person*/Group or *Application Owner Primary Person*/Group. Groups are resolved into appropriate CWIDs.

_

¹ Typeahead is a feature that enables users to continue typing regardless of program operation.



4.1.2 I'm Steward / Delegate

Displays all records where logged-in user is *CI Owner Delegate Person*/Group or *Application Owner Delegate Person*/Group. Groups are resolved into appropriate CWIDs.

4.2 Search

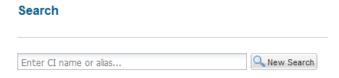


Figure 3: Search

This is start page. Here (see Figure 3) you can search for the name or alias of existing records. The result will display all records containing the entered name/alias. Depending on the associate roles (→ chapter 2.3) the record type (e.g. application, server, room, etc.) is considered for the result.

The results are displayed in a table and are ordered by name. Though the table allows to sort per column. Click on the column header to choose the order direction.

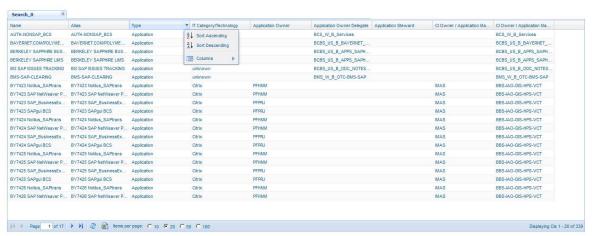


Figure 4: Search Results

At the bottom right the total number of displayed records is shown. You can change the number of displayed items per page. The page navigation is available at the bottom left.

4.2.1 Advanced Search

Advanced Search can be used for a more detailed search. Unlike the standard search a name or alias must not be entered. So, the owner (CWID) or description can be used as search criteria. It is possible to choose the "not" checkbox to negate the selection.



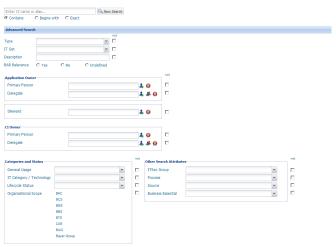


Figure 5: Advanced Search

The results are displayed similar to the standard search with all features. The *Advanced Search Options* are minimized (use to minimize manually) in order to make space for the results. Click on to maximize the panel.

4.2.2 Org. Unit Search

The Org. Unit Search can be used to select the data related to the organisational unit.

Use [more options] for more search criteria.



Figure 6: Org. Unit Search

The search criteria can be configured to select one object type or to include the concerned sub organizational units.

4.3 Create New Record

Creating a new record is supported by a *wizard*. With [wizard] the first of two steps has to be accomplished. In accordance with the permissions given the *Type* must either be chosen or it is set. This step requires all mandatory attributes to be set.



With the Button "Next" the user changes to the second step, where the user can edit all required attributes.

The Button "Finish" saves the record, or shows an error message if not all mandatory fields are filled.



Figure 7: Create New Record - Step 1 Mandatory

Important: Name and Alias must be unique values through all existing records regardless of the type. The Name and Alias will be cross-checked!



In the next step all the required information can be filled in.

Using [back] will not delete given answers made in step 2 unless the *Type* is changed. Using [cancel] open the *Search* page after a security question.

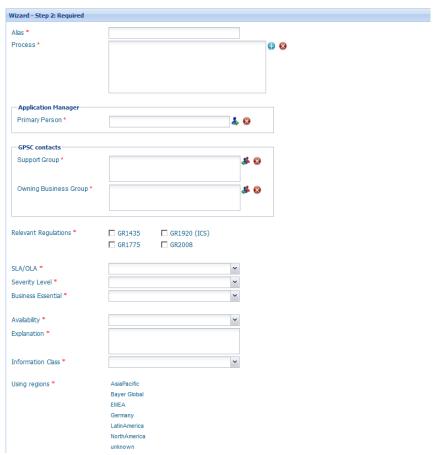


Figure 8: Create New Record - Step 2 Required

At this step, contacts must be specified. Use the ♣person- and ♣group-picker (→ chapter 0Figure 27) to add a person or group to an owner or delegate. It is not possible to add a person/group by entering the CWID/group name directly.

The new record can be saved using [Finish].

When record was successfully saved you can continue editing the record or add a new one.



4.4 View and Edit

The *View and Edit* menu includes several sub-menu items depending on the record type and user rights. When switching between the sub-menu items changes made are retained. When exiting the menu you will be prompted to save if something has changed.

The *Name* and *Type* is displayed within the header of the content pane. Below this content regarding the selected sub-menu is shown. The *Details* page itself shows all relevant information of a record at a glance. The save and cancel-buttons are displayed if values have been change in another sub-menu.

4.4.1 Sub-Menu

4.4.1.1 CI Type Specifics

Definition of general attributes specifying the record.

4.4.1.2 Contacts

For records of *Type* 'Application' the contact types are available and can be filled using the *Person*- and *Group-Picker* ($\rightarrow 0$) - for all other types the *Application Owner* is applicable:

- Application Owner. Rights and responsibilities → chapter 2.3
- Steward: Rights and responsibilities → chapter 2.3
- CI Owner. Rights and responsibilities → chapter 2.3
- GPSC Contacts: Different types of groups defined by GPSC and used for change or incident management as an example.

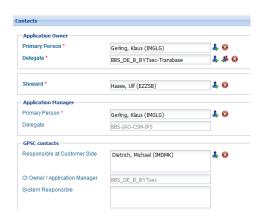


Figure 9: Contacts

4.4.1.3 Agreements

All concluded agreements can be specified here. The *Service Contract* depends on the chosen SLA/OLA. In some cases no *Service Contract* has been defined for a particular *SLA/OLA*. All other attributes have no dependencies.

The Attribute *Business Essential* is only editable for users with role "Business Essential Editor". For detailed information (→chapter 2.3)





Figure 10: Agreements

4.4.1.4 Protection

The Documentation of protection relevant values can be edited on this page The Protection class is calculated by the Information class.

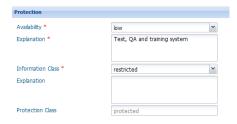


Figure 11: Protection

4.4.1.5 Compliance

Documentation of compliance relevant values.

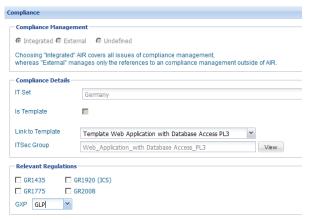


Figure 12: Compliance and Relevances

Define whether the compliance management for this record is "integrated", so that AIR covers all issues of compliance management, whereas "External" manages only the references to an compliance management outside of AIR. Define whether the record is GR1435, GR1775, GR1920 (ICS), GR2008 or GxP relevant or not and if a formal risk analysis is available. The *IT* Set is calculated using the *CI Owner Primary Person*'s country.



If *Use as BYTsec Template* is selected given compliance statements (→ Figure 13) can be linked to other records of the same type. If a record is used by another one, this attribute is disabled.

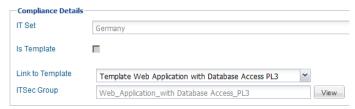


Figure 13: Compliance Controls

At the current version the group *Controls* can not be edited. With choosing the Button "View", the controls.

4.4.1.6 Compliance Control Detail

The compliance details list shows all controls, ordered by status and ident. The icon indicates that this control can be linked to a function. Choose the "Link – CI Type" and the "Link – CI". The Statement changes to read only mode. The "Compliant" and the "Justification" show the Statement from the linked CI.

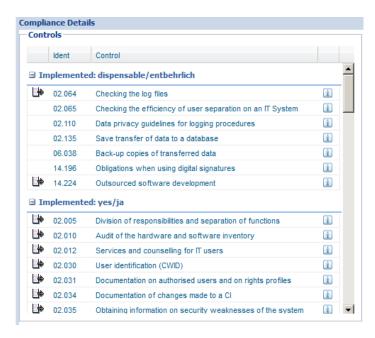


Figure 14: Compliance Control detail

The information button upons a new window and displays the documentation.



S 2.12 Services and counselling for IT users



Figure 15: Compliance Control information

To change the status control select the control in the left window and change the compliant to new status. For all answers (without "untreated") a justification is needed.

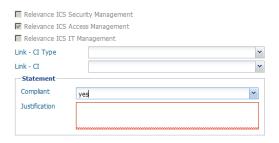


Figure 16: Compliance Control Statement

The answers "no" and "partly" demand more information about the GAP. The text description about the actual state of the gap must be entered in the field "Gap description".

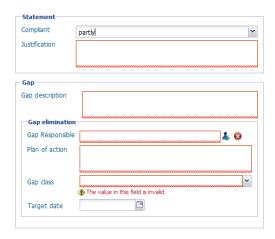


Figure 17: Compliance Control Statement GAP information

The gap must be assigned to a person, who is responsible to solve the gap. This person can be choosen with the person picker in the field "GAP Responsible". The planned actions to solve the gap can be documentated in the field "Plan of action".



After selecting a gap class with values ("short-term", "mid-term" or "long-term") the "Target Date" will be calculated.

If the selected value for the gap class is "technically not solvable" or "economically not solvable" the details risk analysis and management information are required.

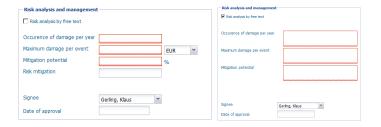


Figure 18: Compliance Control - GAP risk analysis

By selecting the checkbox "Risk analysis by free text" changes the data fields from calculated to text fields.

The selected person as "signee" is the only person who is able to set the "Date of approval".

4.4.1.7 Documentation

All other attributes for documentation purpose are free-text. If a url is entered it can be validated by ...

4.4.1.8 License & Costs

Document annual costs for run and changes as well as general properties of a license as extend or part of a contractual provisions.

Use *Using Regions* to specify the region(s) where the majority of belonging companies is using the application. Multiple selections can be done. Click one-time to select a second-time to unselect.



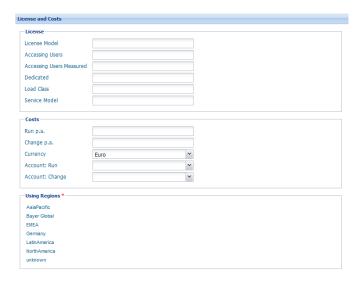


Figure 19: License & Costs

4.4.1.9 Relationships

This page shows all connections to directly attached business processes and other records.

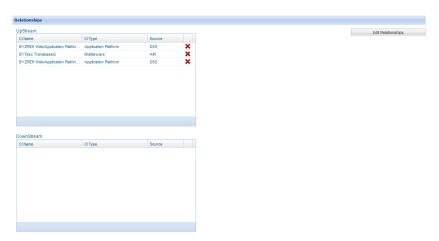


Figure 20: Relationships

Structure chart (example – not implemented in this application yet):

The structure charts gives an overview how records a related to each other. In addition the definition of *upstream* and *downstream* should be visible.



```
Earth

☐ Germany (DE)

☐ LEVERKUSEN (NW) (LEV)

☐ Leverkusen

☐ E 39

☐ B 39 I100

☐ 183 (G01_C83)

☐ K103

☐ SNR_2002961.2002961 (1251-000204502144)

☐ DC4622 (DC4622)

☐ BYZI6S (BYZI6S)

☐ BYTSec GSTOOL (GSTOOL)
```

Figure 21: Structure Chart of Connections

- Upstream: At the upper top lies the location.
- Downstream: Going down from a location, a room is followed by a server and a server might be followed by an application. A business process should be the lowermost entry.



Add a new relationship

A new relationship can be added by [Edit Relationships...]. At first the object type has to be selected. Following, enter characters (minimum: 2 characters) the connection to be added contains and press the Search button. Click on a row to select the object and drop it to "UpStream" or "DownStream". The changes are not stored until [Save].



Figure 22: Add a New Connection

Remove a relationship

Existing relationship(s) can be removed. Click ** to select entry to be removed. The changes are not stored until [Save]..



Figure 23: Remove a Connection

4.4.1.10 Documentation

All attributes for documentation purpose are free-text. If a url is entered it can be validated by **

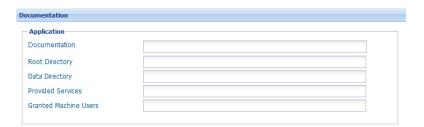




Figure 24: Documentation

4.4.1.11 History

The history function displays the dabase history information about the selected ci.

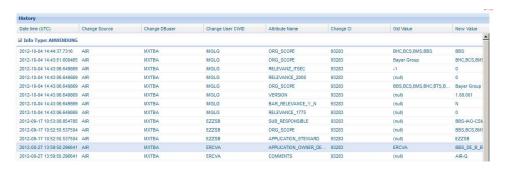


Figure 25: History

4.4.2 Functions

4.4.2.1 Delete a Record

The function "delete" lists all ci's where the user has the right to delete them. After selecting one entry, the action must be confirmed with the button "Delete". The entry will be marked for deletion with the delete source, user and date.

4.4.2.2 Person-/Group Picker

Within the *Person-Picker* 4 you can search either by CWID or last name. Results are displayed soon as the first two characters have been entered and the search icon will be pressed.

Clicking into a row will add the entry to the appropriate field.



Figure 26: Person-Picker

Within the *Group-Picker* you can search either (according to the selection: *Groupname or Manager (CWID))* by a group name or the manager of a group using the managers CWID.

For *group name* results containing the entered characters are displayed soon as the first three have been entered. For *manager* (CWID) results are displayed soon as the CWID is entered completely.



Clicking into a row will add the entry to the appropriate field.

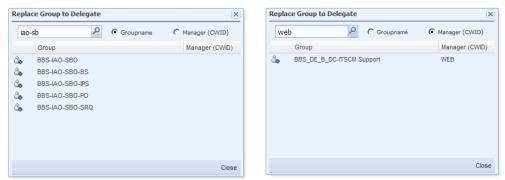


Figure 27: Person- and Group-Picker



5 Administration

This function is for the user without administrative privileges not available and therefore not relevant for this manual.

This functionality is described in a separate operation manual for AIR.



6 FAQs

Soon!