

EIRA v6.1.0

Release notes



EIRA

EUROPEAN
INTEROPERABILITY
REFERENCE
ARCHITECTURE

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1 Introduction

1.1 Purpose of this document

This document contains the description of the release version 6.1.0 of the EIRA.

EIRA is an architecture content metamodel defining the most salient architectural building blocks (ABBs) needed to build interoperable e-Government systems (Decoupled functionalities).

1.2 Release date

This version of the EIRA has been released on the 31st of May 2024 in [Joinup](#).

1.3 Description

EIRA v6.0.0 was released on the 31st of May 2023 after a quality review. A minor version 6.1.0 of the EIRA has been released, containing the fix of minor aspects that improve the quality and consistency of EIRA. The content of the release has been developed through an agile project management approach. Tickets from EC internal and external stakeholders have been analysed to address their feedback and requirements.

1.4 List of acronyms used in this document


ABB	Architectural Building Block
EC	European Commission
EIRA	European Interoperability Reference Architecture.
IoP	Interoperability
SKOS	Simple Knowledge Organization System

2 Release Components


The EIRA consists of the following release components.

2.1 [EIRA v6.1.0 Open Exchange XML](#)

The Open Group ArchiMate Exchange File Format, containing the model.

Modification	Details
Version 6.1.0	
Minor	<p>The minor release contains changes that ensure completeness and consistency. Changes have been made to the Ontology viewpoint for narrative explanations, ensuring the readability and understanding of models. Additionally, there are slight changes in the Semantic view for the Data Mapping specialisations, which were conceptually misleading. All specialisations have been relocated within the view under "Metadata" as specialisations and aggregations.</p> <p>The structure of the model has been simplified and restructured to make reading and navigation easier. There is now just one high-level folder that contains EIRA viewpoints. Within this folder, all different viewpoints are included, along with two specific subfolders for explanation purposes.</p> <p>Also, some definitions and properties have been addressed to ensure coherence all over the model.</p> <div style="text-align: center;">  <p>ChangeLog-EIRAv6.1.0.xlsx</p> </div>
Version 6.0.1	
Bug Fixing	<p>This release contains a set of fixes to: correction of typos in property names, business domain identification, cleansing of unused relationships, update properties to aligned them with relevant vocabularies (eira:ABB_status to adms:status), ABBs and SBBs belonging to a unique EIF Layer, unification of dct:identifier along the model, and fixes on some ABBs' definitions.</p>
Version 6.0.0	
ABBs, Views and Viewpoints update	<p>The quality review carried out has been focused on enhancing the consistency of all views and between them. Properties have been harmonized amongst the whole model. LOST views have been reviewed and modified to make them broader and detailed, putting an additional effort to the Technical view - Infrastructure. Also, a focus on Data Spaces</p>

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	<p>has been considered to ensure that technical aspects for the implementation of data spaces are covered within EIRA. The different viewpoints have been refined according to the new approaches presented in the views. Specifically, an “Enterprise Architecture Framework alignment guidelines” viewpoint has been added to ensure and help users to align an Enterprise Architecture Framework to EIRA.</p> <div style="text-align: center;">  <p>EIRA v6.0.0 Changes.xlsx</p> </div>
Version 5.0.0	
<p>ABBs, Views, and Viewpoints update</p>	<p>All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach. Furthermore, views and viewpoints have been revised</p>
<p>Enhancement of the EIRA Security viewpoint</p>	<p>Specific ABBs dealing with Security have been introduced</p>
Version 4.1.0	
<p>ABBs update</p>	<p>All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach.</p>
<p>Alignment of the Archi Model with the Business Agnostic Reference Architecture</p>	<p>The EIRA has been updated with the inclusion of new ABBs to enable the support of end-to-end design of digital public services taking into account the concepts defined in the eGovERA Business Agnostic Reference Architecture.</p>
Version 4.0.0	
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Alignment of the Archi Model with the Business Agnostic Reference Architecture	The EIRA has been updated with the inclusion of new ABBs to enable the support of end-to-end design of digital public services taking into account the concepts defined in the eGovERA Business Agnostic Reference Architecture.
Introduction of the Architecture Principle viewpoint	The EIF Underlying Principle viewpoint has been substitute by the Architecture Principle viewpoint which enriches and enlarges the scope of the interoperability principles.
Introduction of the EIRA Ontology Viewpoint	The Metamodel viewpoint has been aligned with the new EIRA Ontology introducing the Ontology viewpoint
Version 3.1.0	
ABBs definition update	All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach.
Archimate notation (v3.1.0)	Update of the EIRA to the new version of the Archimate notation (v3.1.0)
Introduction of the multidimensional nature of interoperability	Introduction of the multidimensional nature of interoperability involving structural interoperability, behavioural interoperability and governance Interoperability. Each ABB has been mapped with one or more interoperability dimension.
Update of the key interoperability viewpoint	Update of the key interoperability viewpoint introducing four key concepts "Shared Legal Framework", "Shared Governance Framework", "Shared Knowledge Base" and "Shared Platform", which enable the achievement of structural, behavioural and governance interoperability.
Version 3.0.0	

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ABBs definition update	All the ABBs definitions have been reviewed in relation to the feedback provided by EC internal and external stakeholders through an agile project management approach. A section referring the interoperability saliency has been introduced in order to state the ABBs interoperability relevance for EU integrated public services. EIF is the fundamental framework on which has been developed ABBs interoperability saliency.
EIRA viewpoints update	EIRA viewpoints have been updated in relation to the feedback provided by EC internal and external stakeholders through an agile project management approach.
Introduction of new viewpoints: EIRA Metamodel viewpoint and Interoperability Privacy viewpoint	New viewpoints have been added to match the "EIRA Metamodel viewpoint" as it is provided in the New European Interoperability Framework and to match the "Interoperability GDPR viewpoint" as it is stated in the "EU General Data Protection Regulation (GDPR)".
Examples	ABB examples have been reviewed. Obsolete examples have been replaced with up-to-date ones.
Version 2.1.0	
ABBs definitions Update	All the ABBs definitions have been reviewed and now include a synonym to the ABB name and an example of an existing Solution Building Block specializing this ABB.
Introduction of a new viewpoint: Conceptual Model for Integrated Service Provisioning	A new viewpoint has been added to match the "Conceptual Model for Integrated Service Provisioning" as it is provided in the New European Interoperability Framework.
Examples	Architecture Building Blocks have received examples to guide the user in the type of implementation that can be imagined for these building blocks.
Version 2.0.0	
ArchiMate® 3 upgrade	EIRA© v1.2.2 was aligned with ArchiMate® 2.1, EIRA© v2.0.0 is aligned with ArchiMate® 3.0

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<p>Alignment with the new version of the EIF (the New European Interoperability Framework)</p>	<p>Introduction of new viewpoints to align with the cross-cutting concerns that are introduced in the new version of the "European Interoperability Framework(EIF):</p> <ul style="list-style-type: none">• "Interoperability Governance viewpoint"• "Integrated Public Service Governance"• "Security and privacy viewpoint" <p>Introduction of a new view:</p> <ul style="list-style-type: none">• "EIF Underlying Principles" <p>Introduction of new Architecture Building Blocks (ABBs), specialising "Organisational Interoperability Enablers" on the "Organisational View":</p> <ul style="list-style-type: none">• "Security Policy"• "Security Framework" (as specialisation of "Security Policy") <p>Introduction of new Architecture Building Blocks (ABBs), specialising "Data" on the "Semantic View":</p> <ul style="list-style-type: none">• Open Data Base Registry (as specialisation of "MasterData")
<p>Better use of in Interoperability Specifications</p>	<ul style="list-style-type: none">• Each view has a grouping to which Interoperability Specifications have been attached, indicating that any Architecture Building Block can be associated with any Interoperability Specification.• The "Data standards" ABB on the "Semantics view" has been removed as parent ABB, the implementing ABBs have been recognised as ABBs specialising the Semantic Interoperability Specifications ABB.• The "Interoperability Specification Underpinning view" has become a viewpoint with some adaptations to support these changes.• The "Technical Interoperability Specification" is no longer attached to the "Service Registry Component" in the "Technical view – infrastructure", but associated to the entire "Digital Service Infrastructure", via its more generic parent class "Interoperability Specification".

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Simplification of the Legal View	Simplification of the “Public Policy Cycle”, the internals have been removed in order to remove the process restrictions that were implicitly present. The “Public Policy Development Enabler” has been removed.
Descriptions of all the ABBs have been revised	References have been verified and updated where possible.
Minor changes	<ul style="list-style-type: none"> • Change of the ArchiMate® icon of representation. • The High-level overview has become a viewpoint. • The “Hosting and Networking Infrastructure” has been implemented as a grouping for the different attached services. • Introduction of a “Service Discovery Component” on the “Technical view – application”.
Version 1.1.0	
Added IoP spec attributes	The Interoperable European Solution building block now includes attributes to record the interoperability assessment results.
Added GovIS 2 ID attribute	The Interoperable European Solution building block now includes the GovIS2 ID as an attribute for EC solutions. Govis2 is an internal EC portfolio management solution.
Changed relation between Public Policy Formulation and Implementation Instrument	The relation is now: "is realised by"
Completed documentation of “assign” relations	
Added TES attributes	All building blocks are updated to define the attributes used by the data collection and analysis activities of the ISA TES Action (2.14).
Additional relationship in the semantic view	[Data policy] influences [Data]
All services in the technical view are now considered application services	
All components in the technical view are now considered DSI components	


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2.2 EIRA v6.1.0 ArchiMate

The 'Archi' version of the model.

Modification	Details
Version 6.0.1	
Minor version	<p>The minor release contains changes that ensure completeness and consistency. Changes have been made to the Ontology viewpoint for narrative explanations, ensuring the readability and understanding of models. Additionally, there are slight changes in the Semantic view for the Data Mapping specialisations, which were conceptually misleading. All specialisations have been relocated within the view under "Metadata" as specialisations and aggregations.</p> <p>The structure of the model has been simplified and restructured to make reading and navigation easier. There is now just one high-level folder that contains EIRA viewpoints. Within this folder, all different viewpoints are included, along with two specific subfolders for explanation purposes.</p> <p>Also, some definitions and properties have been addressed to ensure coherence all over the model.</p> <p style="text-align: center;"> ChangeLog-EIRAv6.1.0.xlsx</p>
Version 6.0.1	
Bug Fixing	<p>This release contains a set of fixes to: correction of typos in property names, business domain identification, cleansing of unused relationships, update properties to aligned them with relevant vocabularies (eira:ABB_status to adms:status), ABBs and SBBs belonging to a unique EIF Layer, unification of dct:identifier along the model, and fixes on some ABBs' definitions.</p>
Version 6.0.0	
ABBs, Views and Viewpoints update	<p>The quality review carried out has been focused on enhancing the consistency of all views and between them. Properties have been harmonized amongst the whole model. LOST views have been reviewed and modified to make them broader and detailed, putting an additional effort to the Technical view - Infrastructure. Also, a focus on Data Spaces has been considered to ensure that technical aspects for the implementation of data spaces are covered within EIRA. The different viewpoints have been refined according to</p>

EIRA version 6.1.0 release notes

	<p>the new approaches presented in the views. Specifically, an “Enterprise Architecture Framework alignment guidelines” viewpoint has been added to ensure and help users to align an Enterprise Architecture Framework to EIRA.</p> <div style="text-align: center;">  <p>EIRA v6.0.0 Changes.xlsx</p> </div>
Version 5.0.0	
<p>ABBs, Views, and Viewpoints update</p>	<p>All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach. Furthermore, views and viewpoints have been revised</p>
<p>Enhancement of the EIRA Security viewpoint</p>	<p>Specific ABBs dealing with Security have been introduced</p>
Version 4.1.0	
<p>ABBs update</p>	<p>All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach.</p>
<p>Alignment of the Archi Model with the Business Agnostic Reference Architecture</p>	<p>The EIRA has been updated with the inclusion of new ABBs to enable the support of end-to-end design of digital public services taking into account the concepts defined in the eGovERA Business Agnostic Reference Architecture.</p>
Version 4.0.0	
<p>ABBs update</p>	<p>All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach.</p>
<p>Alignment of the Archi Model with the Business Agnostic Reference Architecture</p>	<p>The EIRA has been updated with the inclusion of new ABBs to enable the support of end-to-end design of digital public services taking into account the concepts defined in the eGovERA Business Agnostic Reference Architecture.</p>

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Introduction of the Architecture Principle viewpoint	The EIF Underlying Principle viewpoint has been substitute by the Architecture Principle viewpoint which enriches and enlarges the scope of the interoperability principles.
Introduction of the EIRA Ontology Viewpoint	The Metamodel viewpoint has been aligned with the new EIRA Ontology introducing the Ontology viewpoint
Version 3.1.0	
ABBs definition update	All the ABBs definitions have been reviewed, new ABBs have been created and obsolete ABBs have been deprecated based on the feedback received by EC internal and external stakeholders through an agile project management approach.
Archimate notation (v3.1.0)	Update of the EIRA to the new version of the Archimate notation (v3.1.0)
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Update of the key interoperability viewpoint	Update of the key interoperability viewpoint introducing four key concepts "Shared Legal Framework", "Shared Governance Framework", "Shared Knowledge Base" and "Shared Platform", which enable the achievement of structural, behavioural and governance interoperability.
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EIRA viewpoints update	EIRA viewpoints have been updated in relation to the feedback provided by EC internal and external stakeholders through an agile project management approach.
Introduction of new viewpoints: EIRA Metamodel viewpoint and Interoperability Privacy viewpoint	New viewpoints have been added to match the "EIRA Metamodel viewpoint" as it is provided in the New European Interoperability Framework and to match the "Interoperability GDPR viewpoint" as it is stated in the "EU General Data Protection Regulation (GDPR)".
Examples	ABB examples have been reviewed. Obsolete examples have been replaced with up-to-date ones.
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ABBs definitions Update	All the ABBs definitions have been reviewed and now include a synonym to the ABB name and an example of an existing Solution Building Block specializing this ABB.
Introduction of a new viewpoint: Conceptual Model for Integrated Service Provisioning	A new viewpoint has been added to match the "Conceptual Model for Integrated Service Provisioning" as it is provided in the New European Interoperability Framework.
Examples	Architecture Building Blocks have received examples to guide the user in the type of implementation that can be imagined for these building blocks.
Version 2.0.0	
ArchiMate® 3 upgrade	EIRA© v1.2.2 was aligned with ArchiMate® 2.1, EIRA© v2.0.0 is aligned with ArchiMate® 3.0

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<p>Alignment with the new version of the EIF (the New European Interoperability Framework)</p>	<p>Introduction of new viewpoints to align with the cross-cutting concerns that are introduced in the new version of the "European Interoperability Framework(EIF):</p> <ul style="list-style-type: none">• "Interoperability Governance viewpoint"• "Integrated Public Service Governance"• "Security and privacy viewpoint" <p>Introduction of a new view:</p> <ul style="list-style-type: none">• "EIF Underlying Principles" <p>Introduction of new Architecture Building Blocks (ABBs), specialising "Organisational Interoperability Enablers" on the "Organisational View":</p> <ul style="list-style-type: none">• "Security Policy"• "Security Framework" (as specialisation of "Security Policy") <p>Introduction of new Architecture Building Blocks (ABBs), specialising "Data" on the "Semantic View":</p> <ul style="list-style-type: none">• Open Data Base Registry (as specialisation of "MasterData")
<p>Better use of in Interoperability Specifications</p>	<ul style="list-style-type: none">• Each view has a grouping to which Interoperability Specifications have been attached, indicating that any Architecture Building Block can be associated with any Interoperability Specification.• The "Data standards" ABB on the "Semantics view" has been removed as parent ABB, the implementing ABBs have been recognised as ABBs specialising the Semantic Interoperability Specifications ABB.• The "Interoperability Specification Underpinning view" has become a viewpoint with some adaptations to support these changes.• The "Technical Interoperability Specification" is no longer attached to the "Service Registry Component" in the "Technical view – infrastructure", but associated to the entire "Digital Service Infrastructure", via its more generic parent class "Interoperability Specification".

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Descriptions of all the ABBs have been revised	References have been verified and updated where possible.
Minor changes	<ul style="list-style-type: none"> • Change of the ArchiMate® icon of representation. • The High-level overview has become a viewpoint. • The "Hosting and Networking Infrastructure" has been implemented as a grouping for the different attached services. • Introduction of a "Service Discovery Component" on the "Technical view – application".
Version 1.1.0	
Added IoP spec attributes	The Interoperable European Solution building block now includes attributes to record the interoperability assessment results.
Added GovIS 2 ID attribute	The Interoperable European Solution building block now includes the GovIS2 ID as an attribute for EC solutions. Govis2 is an internal EC portfolio management solution.
Changed relation between Public Policy Formulation and Implementation Instrument	The relation is now: "is realised by"
Completed documentation of "assign" relations	
Added TES attributes	All building blocks are updated to define the attributes used by the data collection and analysis activities of the ISA TES Action (2.14).
Additional relationship in the semantic view	[Data policy] influences [Data]
All services in the technical view are now considered application services	
All components in the technical view are now considered DSI components	

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2.3 [EIRA v6.1.0 Web version](#)

A compressed folder containing the web version of the EIRA model.

Modification	Details
Version 6.1.0	
Minor	<p>The minor release contains changes that ensure completeness and consistency. Changes have been made to the Ontology viewpoint for narrative explanations, ensuring the readability and understanding of models. Additionally, there are slight changes in the Semantic view for the Data Mapping specialisations, which were conceptually misleading. All specialisations have been relocated within the view under "Metadata" as specialisations and aggregations.</p> <p>The structure of the model has been simplified and restructured to make reading and navigation easier. There is now just one high-level folder that contains EIRA viewpoints. Within this folder, all different viewpoints are included, along with two specific subfolders for explanation purposes.</p> <p>Also, some definitions and properties have been addressed to ensure coherence all over the model.</p>
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Version 6.0.0	
ABBs, Views and Viewpoints update	<p>The quality review carried out has been focused on enhancing the consistency of all views and between them. Properties have been harmonized amongst the whole model. LOST views have been reviewed and modified to make them broader and detailed, putting an additional effort to the Technical view - Infrastructure. Also, a focus on Data Spaces has been considered to ensure that technical aspects for the implementation of data spaces are covered within EIRA. The different viewpoints have been refined according to the new approaches presented in the views. Specifically, an "Enterprise Architecture Framework alignment guidelines" viewpoint has been added to ensure and help users to</p>

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	<p>align an Enterprise Architecture Framework to EIRA.</p>  <p>EIRA v6.0.0 Changes.xlsx</p>
Version 5.0.0	
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<p>Better use of in Interoperability Specifications</p>	<ul style="list-style-type: none">• Each view has a grouping to which Interoperability Specifications have been attached, indicating that any Architecture Building Block can be associated with any Interoperability Specification.• The "Data standards" ABB on the "Semantics view" has been removed as parent ABB, the implementing ABBs have been recognised as ABBs specialising the Semantic Interoperability Specifications ABB.• The "Interoperability Specification Underpinning view" has become a viewpoint with some adaptations to support these changes.• The "Technical Interoperability Specification" is no longer attached to the "Service Registry Component" in the "Technical view – infrastructure", but associated to the entire "Digital Service Infrastructure", via its more generic parent class "Interoperability Specification".

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All services in the technical view are now considered application services	
All components in the technical view are now considered DSI components	

EIRA version 6.1.0 release notes

2.4 [EIRA v6.1.0 Online documentation](#)

A Joinup page containing an introduction to the EIRA, including its key concepts, used ArchiMate notation, tool support and views.

2.5 [EIRA v6.1.0 SKOS.rdf](#)

The EIRA as controlled vocabulary in SKOS format.

Modification	Details
	Version 6.1.0
Alignment with EIRA v6.1.0	
	Version 6.0.1
Alignment with EIRA v6.0.1	
	Version 6.0.0
Alignment with EIRA v6.0.0	
	Version 5.0.0
Alignment with EIRA v5.0.0	
	Version 4.1.0
Alignment with EIRA v4.1.0	
	Version 4.0.0
Alignment with EIRA v4.0.0	
	Version 3.1.0
Alignment with EIRA v3.1.0	
	Version 3.0.0
Alignment with EIRA v3.0.0	
	Version 2.1.0
Alignment with EIRA v2.1.0	
	Version 2.0.0
Alignment with EIRA v2.0.0	
	Version 1.1.0
Creation of the controlled vocabulary	
	Version 1.0.0

EIRA version 6.1.0 release notes

2.6 [ISA Product License v1.4.zip](#)

The license under which the EIRA is released.

Modification	Details
Version 1.4.0	
New version of the ISA license	
Version 1.3.0	
Replacement of specific ISA Product licenses by a generic license	
Version 1.2.0	
Typo "hereafter"	
"or later versions" replaced by "which replaces earlier versions"	
Version 1.1.0	
Typo "above" replaced by "below".	
Version or ArchiMate explicitly mentioned (i.e. 2.1).	
Reference to citizens of the EU included.	
Version 1.0.0	

2.7 [EIRA v6.1.0 release.zip](#)

An archive containing each of the above-mentioned files.

Modification	Details
Version 6.1.0	
Release package of all new components – EIRA v6.1.0	
Version 6.0.1	
Release package of all new components – EIRA v6.0.1	
Version 6.0.0	
Release package of all new components – EIRA v6.0.0	
Version 5.0.0	
Release package of all new components – EIRA v5.0.0	
Version 4.1.0	
Release package of all new components – EIRA v4.1.0	
Version 4.0.0	
Release package of all new components – EIRA v4.0.0	
Version 3.1.0	

EIRA version 6.1.0 release notes

Release package of all new components – EIRA v3.1.0

Version 3.0.0

Release package of all new components – EIRA v3.0.0

Version 2.1.0

Release package of all new components – EIRAv2.1.0

Version 2.0.0

Release package of all new components – EIRAv2.0.0

Version 1.1.1

Replacement of specific ISA Product licenses by a generic license

Version 1.1.0

Update version of components

Add EIRA_v_1_1_0_SKOS.rdf

Version 1.0.0