



Mercator

Mapping the information system

October 25th, 2024

Mercator

What is Mercator?

Mercator is a Web application used to manage the mapping of an information system as described in the ANSSI Guide to Information System Mapping.

What is mapping?

Mapping is a way of representing an organisation's information system and its connections with the outside world. The term 'cartography' refers to a schematic representation of a set of information.

Cartography <-> Inventory

Who is Mercator?

Mercator was a cartographer. He was the author of the Mercator projection, which is a conformal projection, i.e. it preserves the angles of the Earth's surface.

(very useful for sailing in the 16th century).



Mercator

Methodology

Implementing IS mapping is a strategic project.

Stages of implementation :

- Management support
- Define objectives and requirements
- Identify stakeholders
- Gather information on IS assets
- Model the IS architecture
- Analyse and validate the mapping
- Communicating and using the map

Mercator

Ontology

The aim is to reference and classify detailed knowledge about each component of an information system.

The elements inventoried are related on the basis of organisational, functional, technical and data flow dependencies.

Nicolas Hartmann



Philosophe allemand,
1833 – 1905

Existence and essence

Mercator

Epistemology

The way in which knowledge of the system is acquired and validated.

It explores the assumptions and approaches used to understand and document how the IS works, ensuring that the information collected is reliable and relevant.

Mercator

Capability / Authority

Capability: This is the ability of objects or systems to perform certain actions or carry out specific tasks. In other words, it is what an object (an application, a server, a service) can do within the information system.

Authority: This term refers to the authorisation or delegation granted by a responsible person (such as a head of department) to allow access to or use of a resource or system.

Mercator

Configuration \neq Objective

- The current configuration often reflects a static state that may no longer match your objective.
- Systems evolve quickly, with additions, modifications, or removals that are not always correctly implemented.
- Basing a mapping on this state can lead to inconsistencies.

You should not start building all your cartography based on the actual configuration.

Mercator

Why map?

Mapping is an essential tool for managing an information system. Mapping provides information on all the components of the IS and makes it easier to understand by presenting it from different angles.

Four digital security challenges :

Controlling the information system: mapping provides a common, shared vision of the information system within the organisation.

Protecting the information system: mapping makes it possible to identify the most critical and most exposed systems, to anticipate possible attack paths on these systems and to put in place appropriate measures to protect them.

Information system defence: mapping makes it possible to react more effectively in the event of an incident or digital attack, to qualify the impacts and to predict the consequences of the defensive actions taken.

Information system resilience: mapping helps to identify the organisation's key activities and to define a business continuity plan and is an essential tool for crisis management, whether digital or not.

Mercator

Composition of a map

1. Business view

- The ecosystem view presents the different entities or systems with which the IS interacts to fulfil its function.
- The business view of the information system represents the IS through its main processes and information.
- The RGPD view presents the processing operations with their processes, applications, information and security measures.

2. Application view

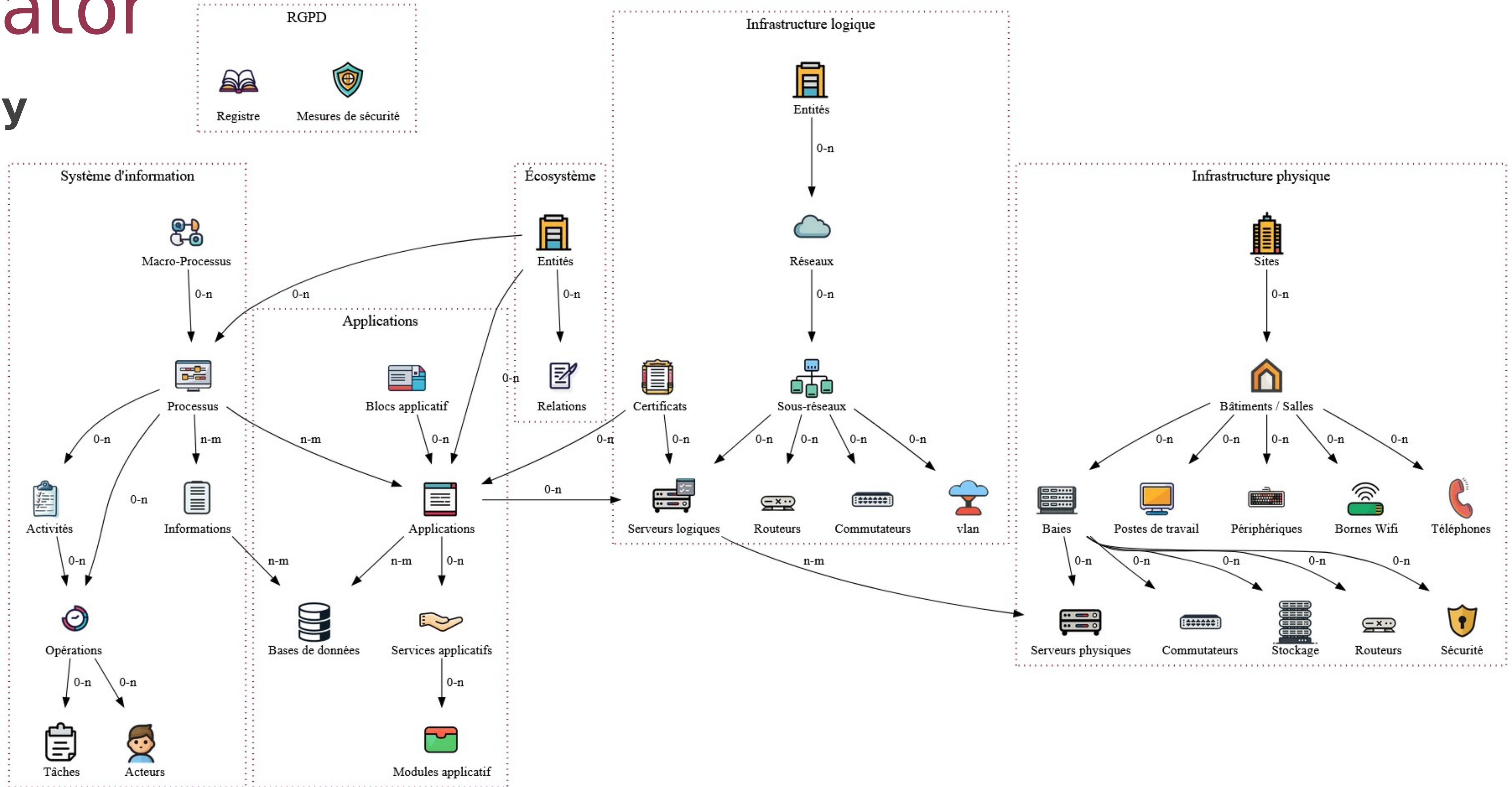
- The application view describes the software components of the information system, the services they offer and the flux of data between them.
- The administration view lists the perimeters and privilege levels of users and administrators.

3. Infrastructure view

- The logical infrastructure view illustrates the logical partitioning of networks, in particular through the definition of IP address ranges, VLANs and filtering and routing functions ;
- The physical infrastructure view describes the physical equipment that makes up the information system or is used by it.

Mercator

Topology



Mercator

Levels of granularity

Each stage has its own level of granularity.

Level 1 minimum granularity :

Initial elements essential to digital security operations

Level 2 intermediate granularity:

Digital security-oriented mapping. Vital information systems (SIIV) must have mapping at this minimum level of maturity.

Level 3 fine granularity:

Exhaustive and detailed mapping, incorporating digital security requirements.

Objets/Attributs concernés	Démarche de cartographie orientée sur la sécurité numérique		Démarche globale de cartographie
	Maturité de niveau 1	Maturité de niveau 2	Maturité de niveau 3
Vue de l'écosystème			
Granularité 1	●	●	●
Granularité 2			●
Vue métier du système			
Granularité 1	●	●	●
Granularité 2		●	●
Granularité 3			●
Vue des applications			
Granularité 1	●	●	●
Granularité 2			●
Vue de l'administration			
Granularité 1		●	●
Vue des infrastructures logiques			
Granularité 1	●	●	●
Granularité 2		●	●
Vue des infrastructures physiques			
Granularité 1		●	●
Granularité 2			●

Mercator

Calculation of maturity level

Presence of information :

- no description
- no person in charge
- no type ...

Links between elements :

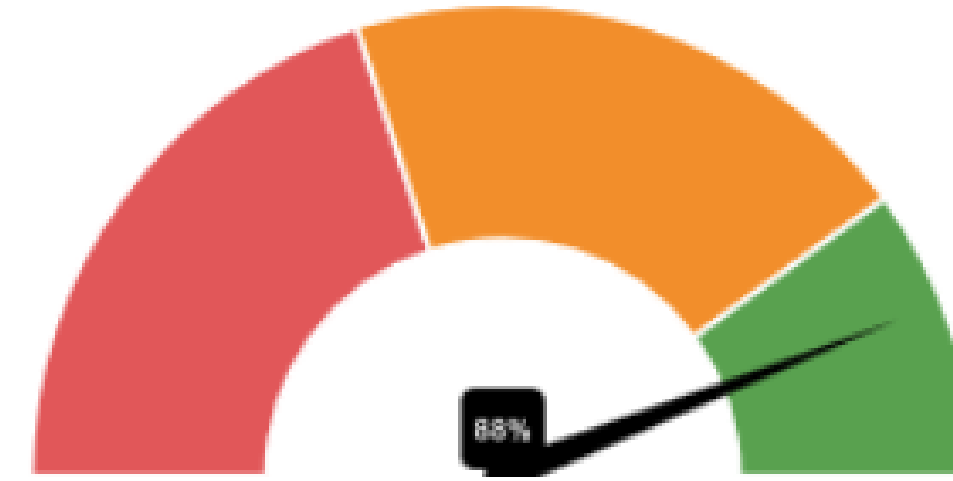
- entity without relationships
- process without operations
- application that does not support any process
- server without applications

Calculation :

compliant elements / total elements

% represents the effort required to comply

Niveaux de maturité Niveau de maturité 1



Granularité minimale de niveau 1 : informations indispensables.

Écosystème	#	Mature	79 %
Entités	12	12	100 %
Relations	12	7	58 %
Système d'Information	#	Mature	87 %
Processus	5	5	100%
Opérations	5	4	80%
Informations	5	4	80%
Applications	#	Mature	74%
Applications	10	5	50%
Bases de données	5	5	100%
Flux	12	10	83%

Mercator

Main screen

- Level of maturity
- Breakdown by domain
- Global proportional map



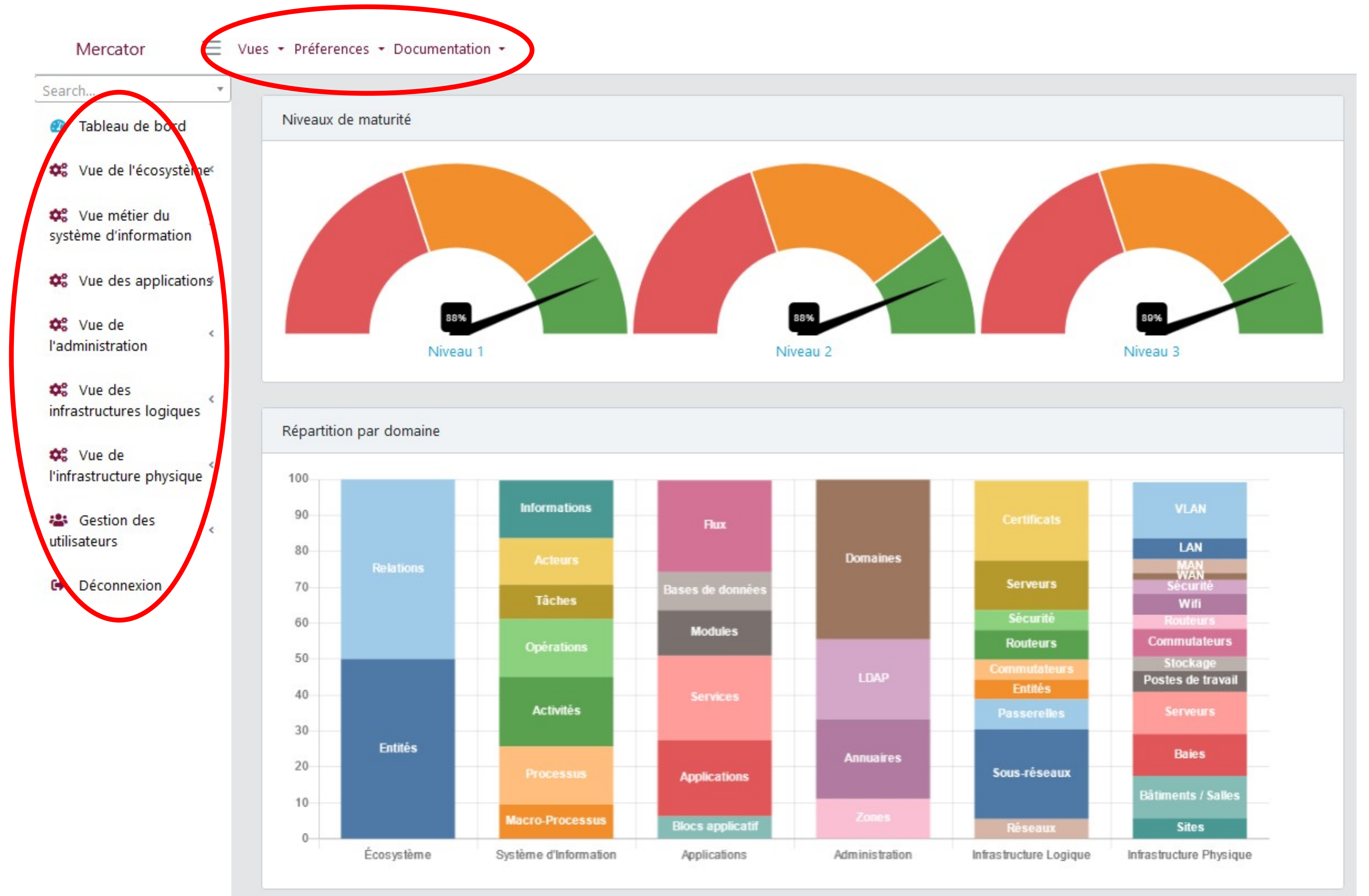
Mercator

Top panel

- Views
- Preferences
- Documentation / Reports

Left panel

- Data entry



Mercator

Lists

- Sort by column
- Search for
- Hide a column
- View / Modify / Delete
- Copy
- Print
- Export: Excel, PDF, CSV, ...

Ajouter Entité

Entité Liste

Afficher 100 éléments [Tout sélectionner](#) [Unselect All](#) [To copy](#) [CSV](#) [Excel](#) [PDF](#) [To print](#) [Column visibility](#) [Delete selected items](#)

Rechercher :

	Nom ↑↓	Description ↑↓	Point de contact ↑↓	Niveau de sécurité ↑↓	Exploite ↑↓	
<input type="checkbox"/>	Acme corp.	Looney tunes academy	Do not call me, I will call you back.	None sorry...	Application 2 , DB Compta	Afficher Modifier Supprimer
<input type="checkbox"/>	Entité1	Entité de tests1	<ul style="list-style-type: none">• Commercial• Service Delivery• Helpdesk	Néant	Application 1 , Database 1	Afficher Modifier Supprimer
<input type="checkbox"/>	Entité2	Description de l'entité 2	Point de contact de l'entité 2	ISO 27001		Afficher Modifier Supprimer
<input type="checkbox"/>	Entité3	Description de la troisième entité.	Point de contact de la troisième entité	ISO 9001		Afficher Modifier Supprimer
<input type="checkbox"/>	Entité4	Description de l'entité quatre	Pierre Pinon Tel: 00 34 392 484 22	ISO 27001		Afficher Modifier Supprimer
<input type="checkbox"/>	Entité5	Description de l'entité 5	Servicedesk@entite5.fr	Néant		Afficher Modifier Supprimer
<input type="checkbox"/>	entité6	Description de l'entité six	support_informatique@entite6.fr	Néant		Afficher Modifier Supprimer
<input type="checkbox"/>	HAL	Very big HAL corporation	hal@corp.com	Top security certification		Afficher Modifier Supprimer

Mercator

Forms

- RTF editor
- Drop-down lists
- Links between objects
- Security requirements
- Role management
- Change history

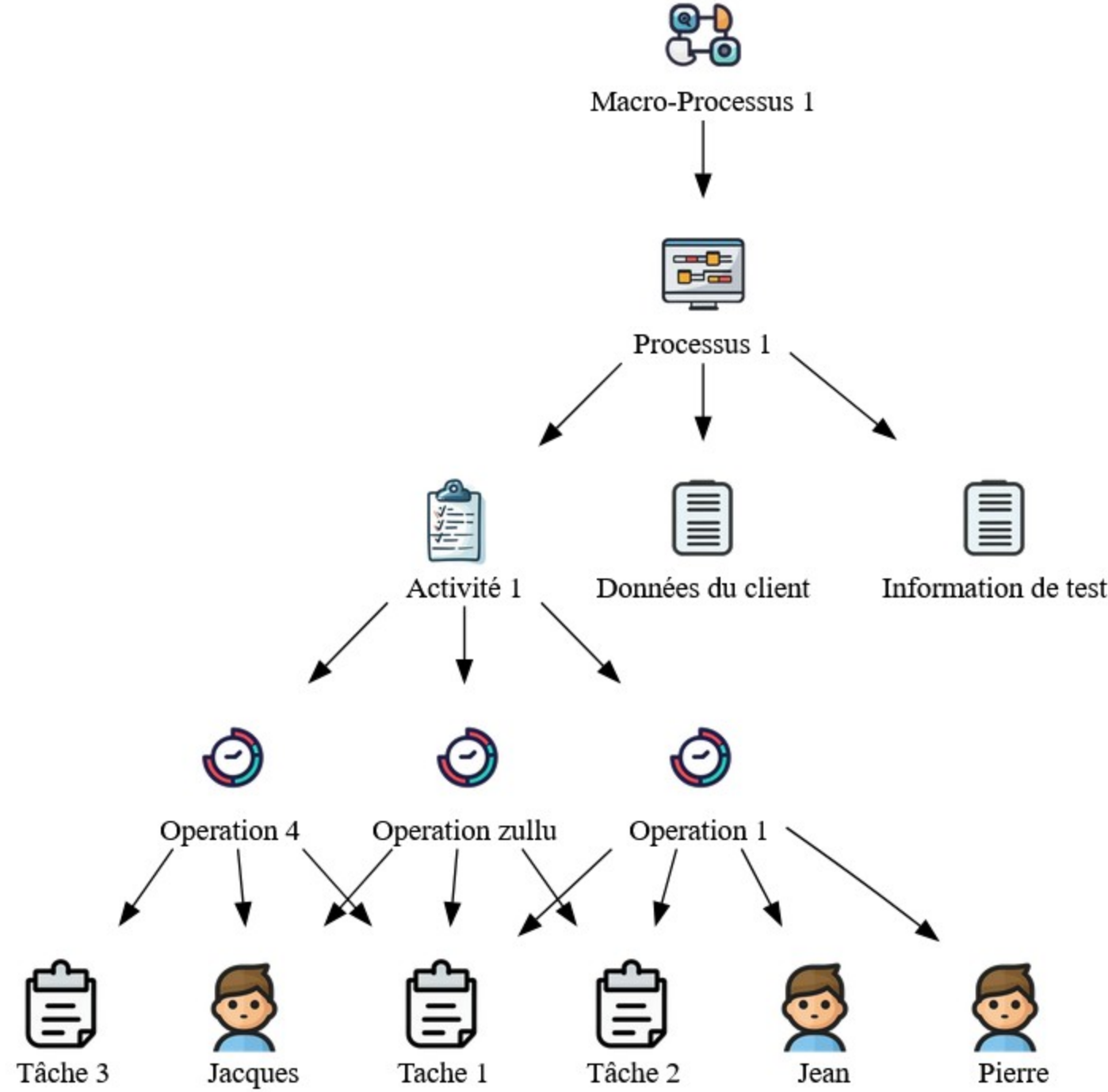
The screenshot shows a web form for configuring a server application. It includes several sections:

- Nom ***: A text field containing "Acme corp." with a sub-label "Nom de l'entité ou du système".
- Description ***: A text area containing "Looney tunes academy" with a sub-label "Description".
- Configuration**: A rich text editor containing "Configuration du serveur A", "OS : Linux 23.4", and "RAM: 32G". It has a sub-label "Configuration" and a toolbar with bold, italic, link, list, and other icons.
- Source *** and **Destination ***: Two text fields with sub-labels "Source du flux" and "Destination du flux".
- Bâtiment / Salle**: A dropdown menu showing "ROOM 100" with a sub-label "Bâtiment / Salle dans lequel se trouve le routeur".
- Baie**: A dropdown menu showing "BAIE 101".
- CPE Editeur ***, **CPE Produit ***, and **CPE Version ***: Three search-style dropdown menus with sub-labels "Editeur de l'application", "Nom de l'application chez l'éditeur", and "Version de l'application".
- Besoins de sécurité**: A section with four dropdown menus for "Confidentialité" (Moyen), "Intégrité" (Fort), "Disponibilité" (Très fort), and "Traçabilité" (Moyen). The sub-label is "Besoins de sécurité de l'application".
- Serveurs logiques**: A section with "Tout sélectionner" and "Unselect All" buttons and a text area. The sub-label is "Liste des serveurs logiques soutenant l'application".
- RTO** and **RPO**: Two sections for "Durée maximale d'interruption admissible" and "Objectif de point de reprise" respectively, each with three spinners for "jours", "heures", and "minutes".
- Responsable d'exploitation**: A text field containing "Pierre".
- VLAN**: A section with "Tout sélectionner" and "Unselect All" buttons and a text area containing "xVLAN_2" and "xVLAN_3". The sub-label is "VLAN associés".

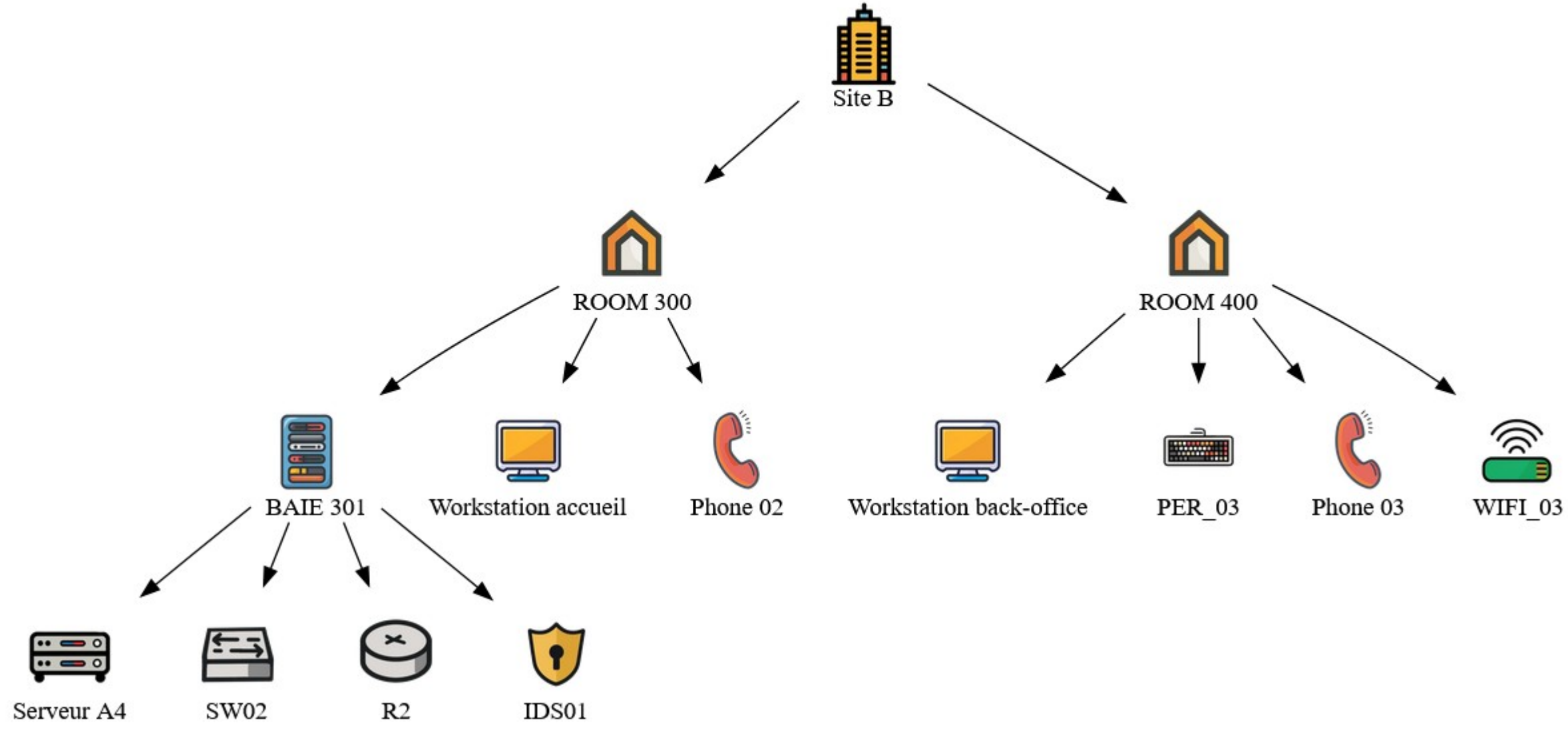
Mercator

Links between objects

Macro-Processus : Processus :

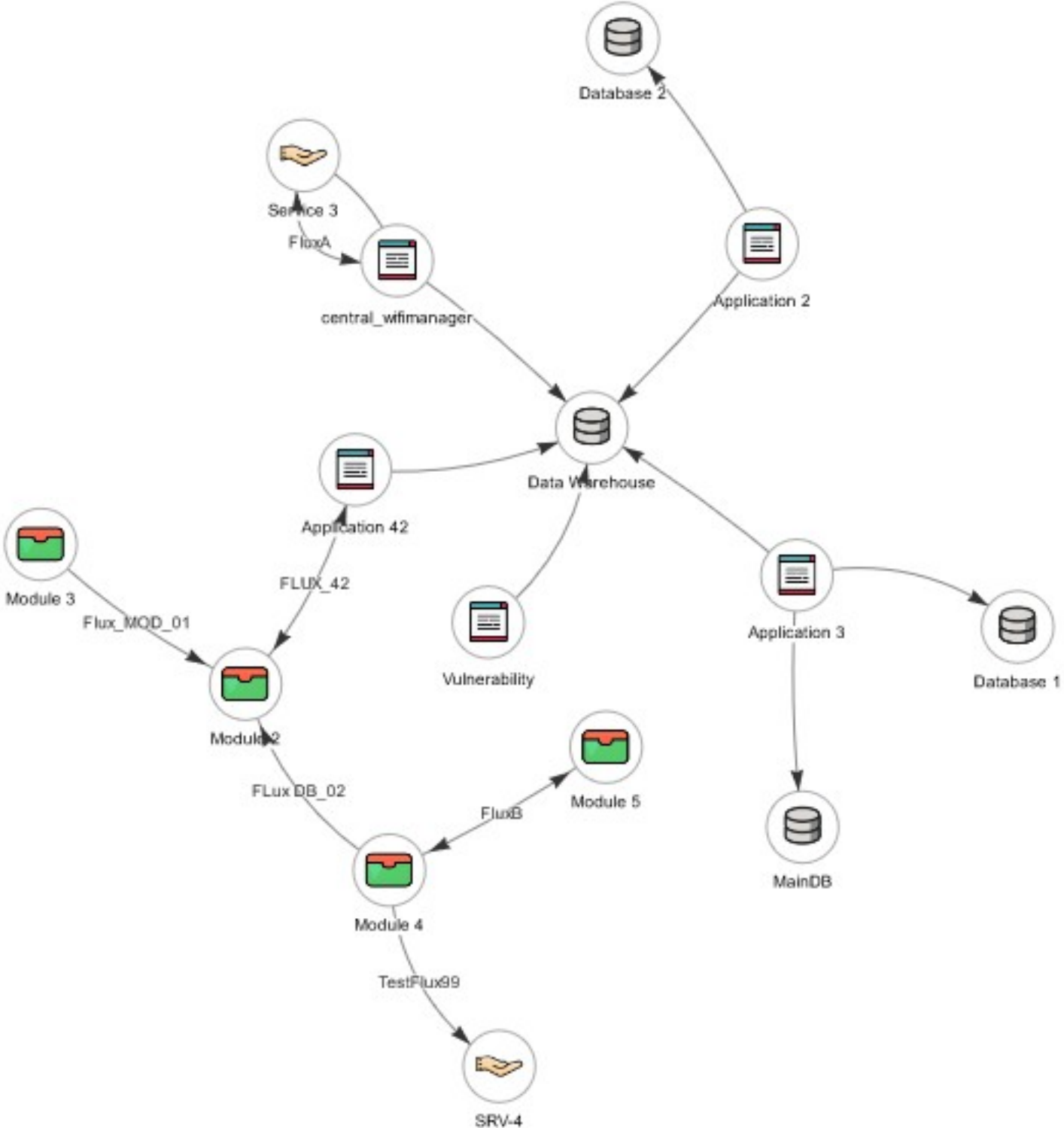
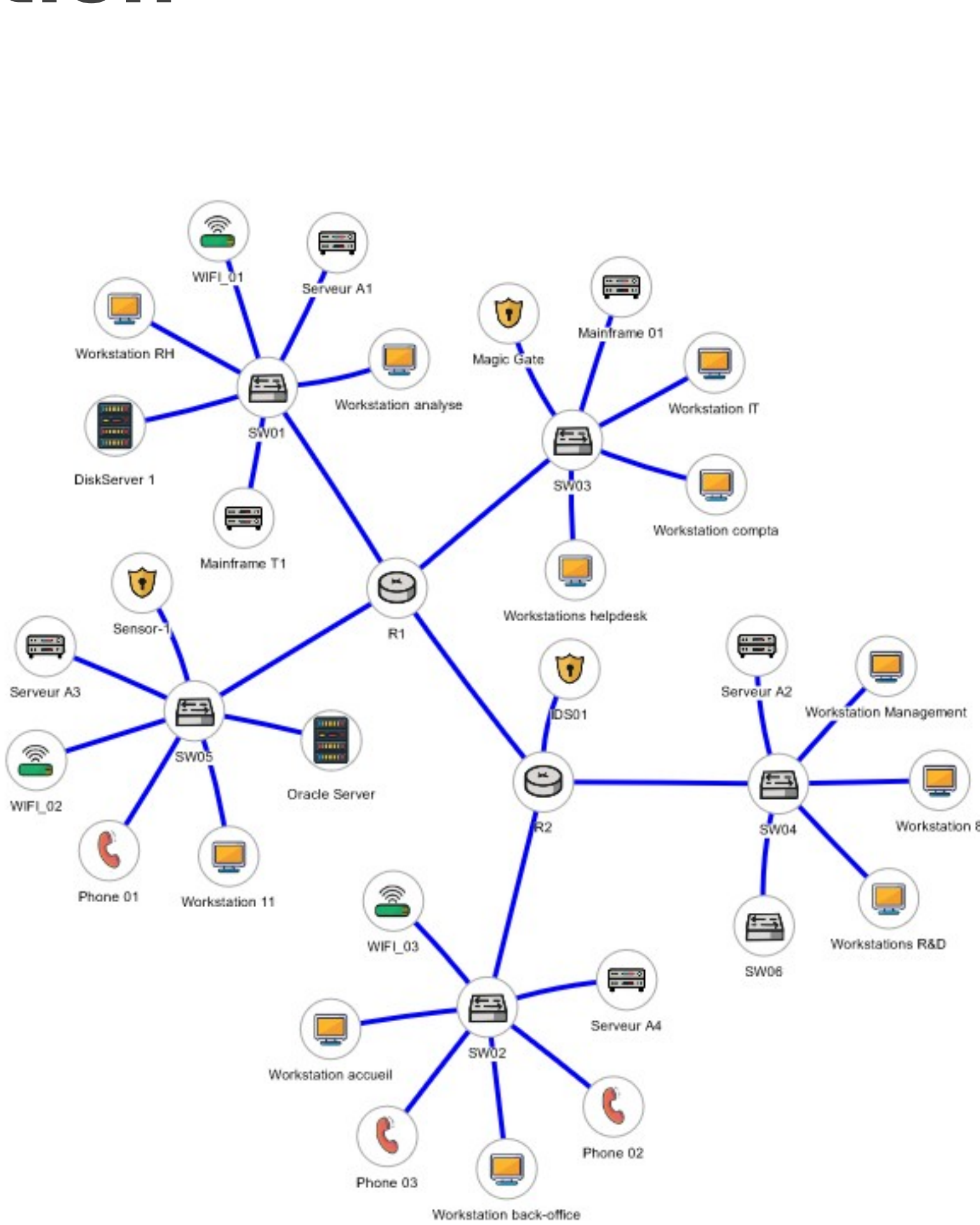


Site : Bâtiment / Salle :



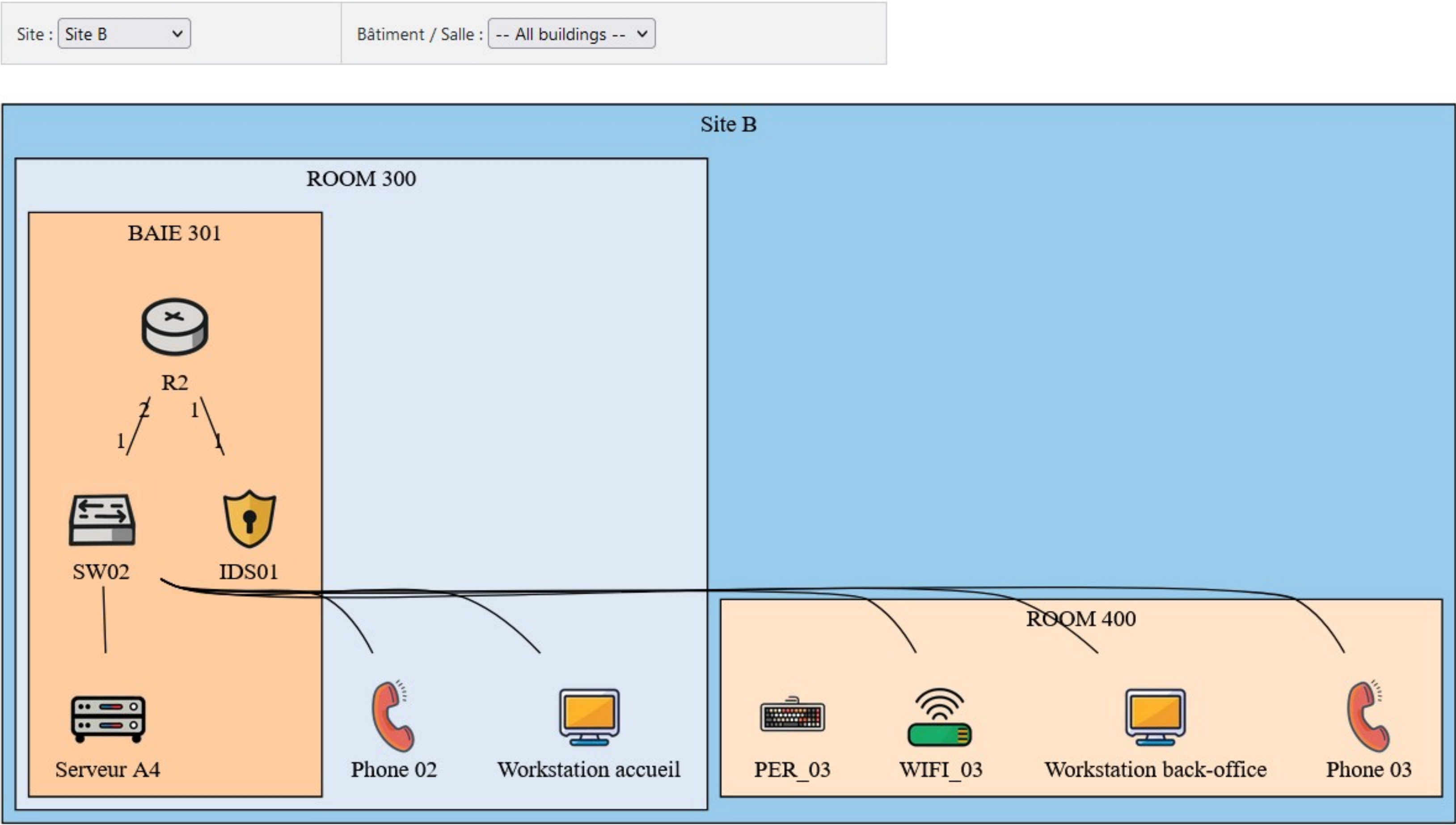
Mercator

Exploration



Mercator

Network infrastructure



Mercator

Reports

Information system mapping report

Lists

Supported entities and applications

List of information system entities and their supported applications

Applications by application group

List of applications by application group

Logical servers

List of logical servers by applications and managers

Analysis of security requirements

List of security requirements between macro-processes, processes, applications, databases and information.

Logical server configuration

List of logical server configuration

Physical infrastructure inventory

List of equipment by site/location

GDPR

Registers of processing operations

List of processing operations, applications, databases and related information.

Audit

Maturity levels

Lists the levels of maturity achieved by the various mapping objects.

Updates / changes

Traces the changes made to the map over the last 12 months

Mercator

Information system mapping report

Rapport de Cartographie du Système d'Information

Vue de l'écosystème
 Entité
 Relation
 Système d'information
 Macro-Processus
 Processus
 Actifs
 Opérateurs
 Tâches
 Acteurs
 Contraintes physiques
 Ressources physiques
 Ressources virtuelles
 Bases de données
 Flux
 Vue de l'administration
 Zones d'administration
 Services d'administration
 Fichiers Active Directory / LDAP
 Domaines Active Directory / LDAP
 Vue des infrastructures logiques
 Réseau
 Sous-réseau
 Routeurs
 Passerelles d'accès depuis l'extérieur
 Entités multiples connectées

Serveurs physiques
 Serveurs DHCP
 Serveurs DNS
 Certificats
 VLAN - Virtual Local Area Network
 Vue de l'infrastructure physique
 Salle
 Bâti / Salle
 Bâti
 Services physiques
 Processus de travail
 Infrastructures de stockage
 Périphériques
 Téléphones
 Contraintes physiques
 Ressources physiques
 Ressources virtuelles
 Bases de données
 Equipements de sécurité physique
 WAN - Wide Area Network
 MAN - Middle Area Network
 LAN - Local Area Network

1. Vue de l'écosystème

La vue de l'écosystème décrit l'ensemble des entités ou systèmes qui gravitent autour du système d'information considéré dans le cadre de la cartographie. Cette vue permet à la fois de décrire le périmètre de la cartographie, mais aussi de disposer d'une vision d'ensemble de l'écosystème sans se limiter à l'étude individualisée de chaque entité.

1.1. Entités

Partie de l'organigramme (ou : Bâti, département, etc.) ou système d'information en relation avec le SI qui est à être cartographié.

Acma corp.	
Description	Looney tunes academy
Niveau de maturité	None entry
Point de contact	Do not call me, I will call you back.
Relation	
Processus associés	Processus 4

Entité	
Description	Description de l'entité 1
Niveau de maturité	Niveau
Point de contact	<ul style="list-style-type: none"> Contraintes Service Delivery Helpdesk
Relation	Fournisseur -> Entité1, Fournisseur -> Pierre et Bé, Membres -> Entité1, Membres -> Entité1, Membres -> Entité1, Membres -> Entité1, Membres -> Entité1
Processus associés	Processus 1

Entité	
Description	Description de l'entité 2
Niveau de maturité	ISO 27001
Point de contact	Point de contact de l'entité 2
Relation	Rapports -> Magellan System
Processus associés	Processus 2

Entité	
Description	Description de la troisième entité.
Niveau de maturité	ISO 8001
Point de contact	Point de contact de la troisième entité
Relation	Membres -> Entité1, Fournisseur -> Entité1
Processus associés	Processus 5

Entité	
Description	Description de l'entité quatre
Niveau de maturité	ISO 27001
Point de contact	Marie Piron Tel: 00 34 962 406 22
Relation	Membres -> Magellan System, Membres -> Entité1, Membres -> Entité1, Membres -> Entité1, Membres -> Entité1
Processus associés	Processus 4

Entité	
Description	Description de l'entité 5
Niveau de maturité	Niveau
Point de contact	Service@service0.fr
Relation	Fournisseur -> Magellan System, Fournisseur -> Entité1
Processus associés	Processus 4

Entité	
Description	Description de l'entité six
Niveau de maturité	Niveau
Point de contact	Support_technique@entite6.fr
Relation	Rapports -> Magellan System
Processus associés	Processus 5

Entité	
Description	Very Big IAL corporation
Niveau de maturité	Top security certification

Point de contact	hal@corp.com
Relation	
Processus associés	Processus 3

Magellan System	
Description	Fournisseur équipement réseau
Niveau de maturité	ISO 27001
Point de contact	hal@corp.com 27, Rue des pins 72643 Ménil-sur-Illiers la Vallée hal@corp.com
Relation	Membres -> Entité1, Rapports -> entité6, Rapports -> Entité2, Fournisseur -> Entité1, Fournisseur -> NetworkSys
Processus associés	Processus 1, Processus 2, Processus 3, Processus 4

NetworkSys	
Description	Description de l'entité NetworkSys
Niveau de maturité	ISO 27001
Point de contact	hal@corp.com

Relation	Fournisseur -> Magellan System
Processus associés	Processus 1, Processus 2, Processus 3, Processus 4, Processus 5

Pierre et Bé	
Description	Description de l'entité de test
Niveau de maturité	Certification - ISO 8001 - ISO 27001 - ISO 31000
Point de contact	Paul Piron Contact: 00 34 9643 432 420
Relation	Fournisseur -> Entité1
Processus associés	Processus 1

1.2. Relations

Liens entre deux entités ou systèmes.

Fournisseur	
Description	Description de la relation entre A et B
Nature	Fournisseur de service
Importance	Faible
Lien	Entité1 -> Magellan System

Fournisseur	
Description	Description de l'entité
Nature	Fournisseur de service
Importance	Faible
Lien	Entité1 -> Pierre et Bé

Membre	
Description	None is the description of this relation
Nature	Fournisseur de service
Importance	Faible
Lien	Magellan System -> Entité1

Fournisseur	
Description	
Nature	Fournisseur de service
Importance	Moyenne
Lien	NetworkSys -> Magellan System

Fournisseur	
Description	Aktive de logiciel
Nature	Fournisseur de service
Importance	Faible
Lien	Entité1 -> Pierre et Bé

Fournisseur	
Description	Description du service
Nature	Fournisseur de service
Importance	Faible
Lien	Entité1 -> Pierre et Bé

Membre	
Description	None is the description of this relation
Nature	Fournisseur de service
Importance	Faible
Lien	Magellan System -> Entité1

Importance	Moyenne
Lien	Entité1 -> Entité4

Membre	
Description	Description du service
Nature	Fournisseur de service
Importance	Moyenne
Lien	Entité1 -> Entité4

Membre	
Description	
Nature	Fournisseur de service
Importance	Moyenne
Lien	Entité1 -> Entité4

Membre	
Description	
Nature	Fournisseur de service
Importance	Moyenne
Lien	Entité1 -> Entité4

Rapports	
Description	
Nature	
Importance	Faible
Lien	Magellan System -> entité6

Description	Régime de gestion AF34
Nature	Fournisseur de service
Importance	Moyenne
Lien	Magellan System -> Entité2

2. Système d'information

La vue relative du système d'information décrit l'ensemble des processus métiers de l'organisme ainsi que les acteurs qui y participent, indépendamment des choix technologiques liés par l'organisme et des responsabilités à sa disposition. La vue relative ne représente que des parties de l'ensemble des éléments technologiques dans son environnement interne et sans de comprendre leur contenu d'implémentation.

2.1. Macro-Processus

Ensemble des macro-processus.

Macro-Processus 1	
Description	Description du macro-processus de test.
Niveau de maturité	Entité1 - entité 1 - entité 2

Mercator

Physical inventory

List of equipment by site/location

	A	B	C	D	E	F	G
1	Site	Room	Bay	Asset	Name	Type	Description
2	Site A	Building 0		Workstation	Workstation 1	ThinThink 460	Station de travail compta
3	Site A	Building 0	BAIE 101	Server	Mainframe 01	Type 404	Central accounting system
4	Site A	Building 0		Workstation	Workstation 1	ThinThink 460	Station de travail compta
5	Site A	Building 0	BAIE 101	Switch	Switch 2	Alcatel 430	Description switch 2
6	Site A	Building 0	BAIE 101	Router	R1	Fortinet	Routeur prncipal
7	Site A	Building 0	BAIE 101	Sécurité	Magic Gate	Gate	BIG Magic Gate
8	Site A	Building 1		Phone	Phone 01	MOTOROAL 3110	Téléphone de test
9	Site A	Building 1		Wifi	WIFI_02	ALCALSYS 3001	Borne Wifi 2
10	Site A	Building 1	BAIE 102	Storage	Oracle Server	Oracle Server	Main oracle server
11	Site A	Building 1		Phone	Phone 01	MOTOROAL 3110	Téléphone de test
12	Site A	Building 1		Wifi	WIFI_02	ALCALSYS 3001	Borne Wifi 2
13	Site A	Building 1	BAIE 103	Server	Serveur A3	System 840	Serveur mobile
14	Site A	Building 1	BAIE 103	Storage	DiskServer 1	DiskServer 1	Description du serveur d stockage 1
15	Site A	Building 1		Phone	Phone 01	MOTOROAL 3110	Téléphone de test
16	Site A	Building 1		Wifi	WIFI_02	ALCALSYS 3001	Borne Wifi 2
17	Site A	Building 2		Peripheral	PER_01	IBM 3400	important peripheral
18	Site A	Building 2		Wifi	WIFI_01	Alcatel 3500	Borne wifi 01
19	Site A	Building 2	BAIE 201	Server	Mainframe T1	HAL 340	Mainframe de test
20	Site A	Building 2	BAIE 201	Server	Serveur A1	System 840	Description du serveur A1
21	Site A	Building 2	BAIE 201	Switch	Switch de test	Nortel A39	Master test switch.
22	Site A	Building 2		Wifi	WIFI_01	Alcatel 3500	Borne wifi 01
23	Site B	Building 3		Workstation	Workstation 2	ThinThink 410	Station de travail accueil
24	Site B	Building 3		Phone	Phone 02	IPhone 2	Description phone 02
25	Site B	Building 3		Sécurité	Sensor-1	Sensor	Temperature sensor
26	Site B	Building 3	BAIE 301	Server	Serveur A4	Mini 900/2	Departmental server
27	Site B	Building 3		Workstation	Workstation 2	ThinThink 410	Station de travail accueil
28	Site B	Building 3		Phone	Phone 02	IPhone 2	Description phone 02
29	Site B	Building 3	BAIE 301	Switch	Switch 1	Nortel 2300	Desription du premier switch.
30	Site B	Building 3	BAIE 301	Router	R2	CISCO	Routeur secondaire
31	Site B	Building 3	BAIE 301	Sécurité	Magic Firewall	Firewall	The magic firewall - PT3743
32	Site B	Building 4		Workstation	Workstation 3	ThinThink 420	Station de travail back-office
33	Site B	Building 4		Peripheral	PER_03	HAL 8100	Space device
34	Site B	Building 4		Phone	Phone 03	Top secret red phne	Special AA phone
35	Site B	Building 4		Wifi	WIFI_03	SYSTEL 3310	Borne Wifi 3
36	Site C	Building 5		Peripheral	PER_02	IBM 5600	Description
37	Site C	Building 5	BAIE 501	Server	Serveur A2	System 840	Description du serveur A2
38	Site C	Building 5	BAIE 501	Switch	Switch 3	Alcatel 3500	Description du switch 3
39							
40							

Mercator

Analysis of security requirements

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	Macro-Processus	C	I	A	T	Processus	C	I	A	T	Applications	C	I	A	T	Bases de données	C	I	A	T	Informations	C	I	A	T
2	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Application 1	1	1	1	1										
3	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Application 2	2	2	2	2	Database 2	1	1	1	1	information 2	2	1	1	1
4	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Application 2	2	2	2	2	Database 2	1	1	1	1	information 3	4	4	3	4
5	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	Information 1	1	3	2	2
6	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 2	2	1	1	1
7	Macro-Processus 1	4	3	2	1	Processus 1	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 3	4	4	3	4
8	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Application 4	2	2	3	2	Data Warehouse	2	2	2	2	information 2	2	1	1	1
9	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Application 4	2	2	3	2	Data Warehouse	2	2	2	2	information 3	4	4	3	4
10	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Application 4	2	2	3	2	DB Compta	2	2	2	2	Données du client	2	2	2	2
11	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Application 4	2	2	3	2	DB Compta	2	2	2	2	Information 1	1	3	2	2
12	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	Information 1	1	3	2	2
13	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 2	2	1	1	1
14	Macro-Processus 2	1	2	3	4	Processus 3	3	2	3	1	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 3	4	4	3	4
15	Macro-Processus 2	1	2	3	4	Processus 4	4	2	2	2	Queue Manager	4	4	4	4	Database 1	1	2	3	4	Information 1	1	3	2	2
16	Macro-Processus 2	1	2	3	4	Processus 4	4	2	2	2	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 2	2	1	1	1
17	Macro-Processus 2	1	2	3	4	Processus 4	4	2	2	2	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 3	4	4	3	4
18	Macro-Processus 2	1	2	3	4	Processus 4	4	2	2	2	SuperApp	1	1	1	1										
19	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 2	2	2	2	2	Database 2	1	1	1	1	information 2	2	1	1	1
20	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 2	2	2	2	2	Database 2	1	1	1	1	information 3	4	4	3	4
21	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 3	1	2	3	3	Database 1	1	2	3	4	Information 1	1	3	2	2
22	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 3	1	2	3	3	Database 1	1	2	3	4	information 2	2	1	1	1
23	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 3	1	2	3	3	Database 1	1	2	3	4	information 3	4	4	3	4
24	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Application 3	1	2	3	3	MainDB	2	2	2	2	information 2	2	1	1	1
25	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Queue Manager	4	4	4	4	Database 1	1	2	3	4	Information 1	1	3	2	2
26	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 2	2	1	1	1
27	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 3	4	4	3	4
28	Macro-Processus 3	2	2	2	2	Processus 2	3	4	2	4	Windows Calc	2	0	0	0										
29	Macro-Processus 3	2	2	2	2	Processus 5	4	3	2	3	Queue Manager	4	4	4	4	Database 1	1	2	3	4	Information 1	1	3	2	2
30	Macro-Processus 3	2	2	2	2	Processus 5	4	3	2	3	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 2	2	1	1	1
31	Macro-Processus 3	2	2	2	2	Processus 5	4	3	2	3	Queue Manager	4	4	4	4	Database 1	1	2	3	4	information 3	4	4	3	4

Denormalise the links between macro-processes, processes, applications, databases and information

Analyse the differences in requirements between each object.

Mercator

Updating the cartography

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Objet	Action	05/2021	06/2021	07/2021	08/2021	09/2021	10/2021	11/2021	12/2021	01/2022	02/2022	03/2022	04/2022	05/2022
2	Écosystème														
3	Entités	created	1		8	2	3		1					2	
4		updated	3		5		2				1			1	2
5		deleted	1		1										
6	Relations	created	2		20	2	2		1						
7		updated	4		4										
8		deleted	3		1										
9	Système d'Information														
10	Macro-Processus	created													
11		updated	4				2								
12		deleted													
13	Processus	created													
14		updated				4	2								
15		deleted													
16	Activités	created													
17		updated													
18		deleted													
19	Opérations	created													
20		updated													
21		deleted													
22	Tâches	created													
23		updated													
24		deleted													
25	Acteurs	created													
26		updated													
27		deleted													
28	Informations	created						2							
29		updated	18					1					1		
30		deleted													
31	Applications														
32	Blocs applicatif	created													
33		updated											1		
34		deleted													
35	Applications	created	1		8	2	1		2	9					
36		updated	6	2	14	51	5	15	39	56		2			
37		deleted		1		1			14						
38	Services applicatifs	created			5	3									
39		updated			4	1									
40		deleted			5										
41	Modules applicatif	created													
42		updated													
43		deleted													
44	Bases de données	created						4		14					
45		updated					25	14		13			2		
46		deleted						1	2	3					
47	Flux	created			3					55					

Track changes made to the map over the last 12 months

Track the updating of the map

Demonstrate that the map is regularly updated

Mercator

Link with ISO 27001



Section	Titre
A5.09	Inventory of information and other related assets
A.5.10	Proper use of information and other associated assets
A.5.12	Classification of information
A.7.08	Location and protection of equipment
A.8.32	Change management
A.8.06	Sizing
A.8.08	Management of technical vulnerabilities
A.8.23	Network partitioning
A.8.19	Information security in supplier relationships
A.5.24	Information security incident
A.8.14	Redundancy of information processing means

Mercator

CVE Search

Detect CVEs based on the name of installed applications



CVE Search Configuration

This screen allows you to configure the sending of notification by email when CVEs are detected on applications.

Message sujet *

Sent from *

to *

every *

Provider *

CVE-Search provder (ex: https://cvepremium.circl.lu)

Mercator

Certificate expiry

Send notifications before the certificate expiry date.

Ticket creation

Sending reminders

Configuration des alertes d'expiration des certificats

This screen allows you to configure the sending of notification by email when certificates expire.

Subject *

Sent from *

to *

Certificates that expire in *

Every *

Send one mail per expired certificate

Send one mail with all expired certificates

Send one notification for each expired certificate

Repeat expired certificate notifications

Mercator

Application available on GitHub <https://github.com/dbarzin/mercator>
under GPLv3 Open Source Licence

Users

Universities, Hospitals, Laboratories,
Banks, Administrations

Contributions

15 contributors

Roadmap

Link with Monarc

