How To Use Dragon1 To Speed Up Digital Transformation As Catalyst For Sustainable Organization Models, Generating diagrams and a bit of AI

PoEM 2023, The Practice of Enterprise Modeling
TU Wien, November 29, 2023

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What is happening?

Vienna

Every day around the world in 100+ cities directors, managers, professors, students and others need to get insights and overview for their goals and projects.

London

New York

100+ cities have a population of 4 million people or more, with related population challenges.

Paris

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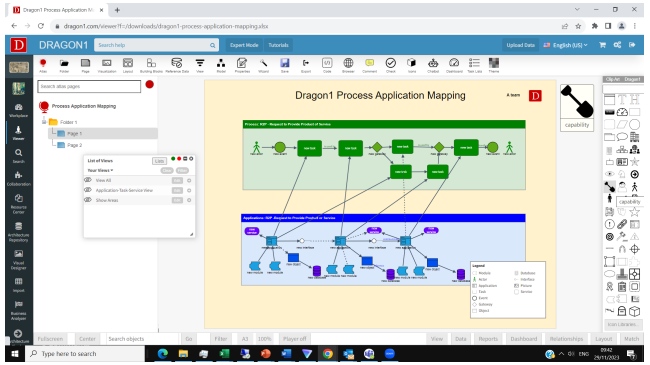
What is Dragon1?

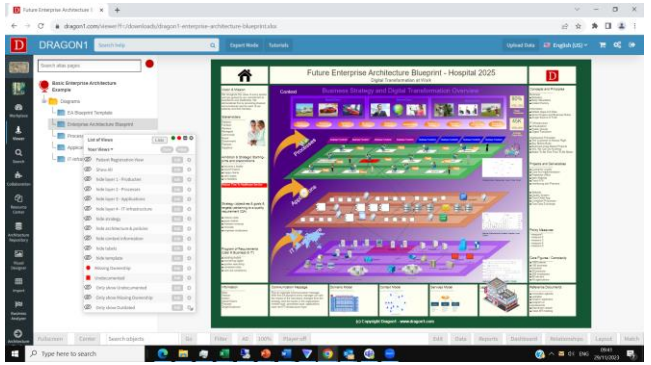
Vienna

Dragon1 is aiming to be the tool that people in 100+ cities find easy and nice to use daily to create architecture models and generate achitecture visualizations with.

London

New York





Paris

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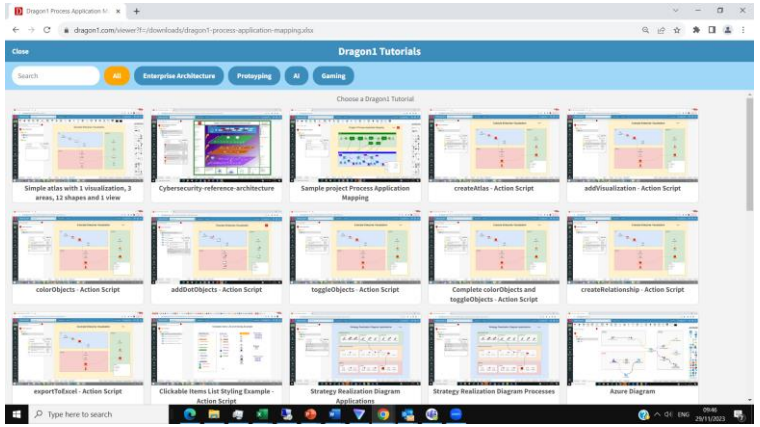
What do users do?

Vienna

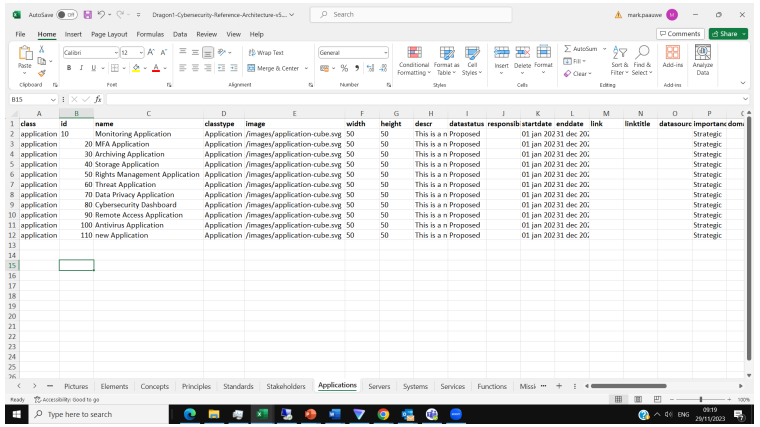
In order to get insights and overview users only have to go to the Dragon1 Viewer, select a tutorial and edit it to their liking and provide their data to Dragon1

London

New York



Tutorials screen in the Dragon1 Viewer, with tutorials in Excel Sheets, JSON, XML and CSV



Excel sheet with client data that can be uploaded in the Dragon1 Viewer and linked to a tutorial or visualization template.

Paris

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What about Cybersecurity?

Vienna

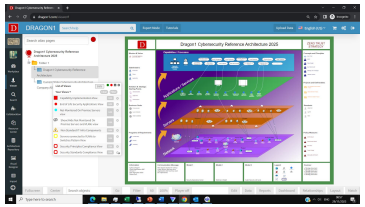
Suppose people from an organization need to know how mature or completely implemented their cybersecurity capabilities are and where there is business debt and technical debt slowing down innovation or preventing transformation?

London

New York

Then they could choose to generate a cybersecurity landscape and measure their data and situation against an editable Cybersecurity Architecture Framework on Dragon1.

Paris



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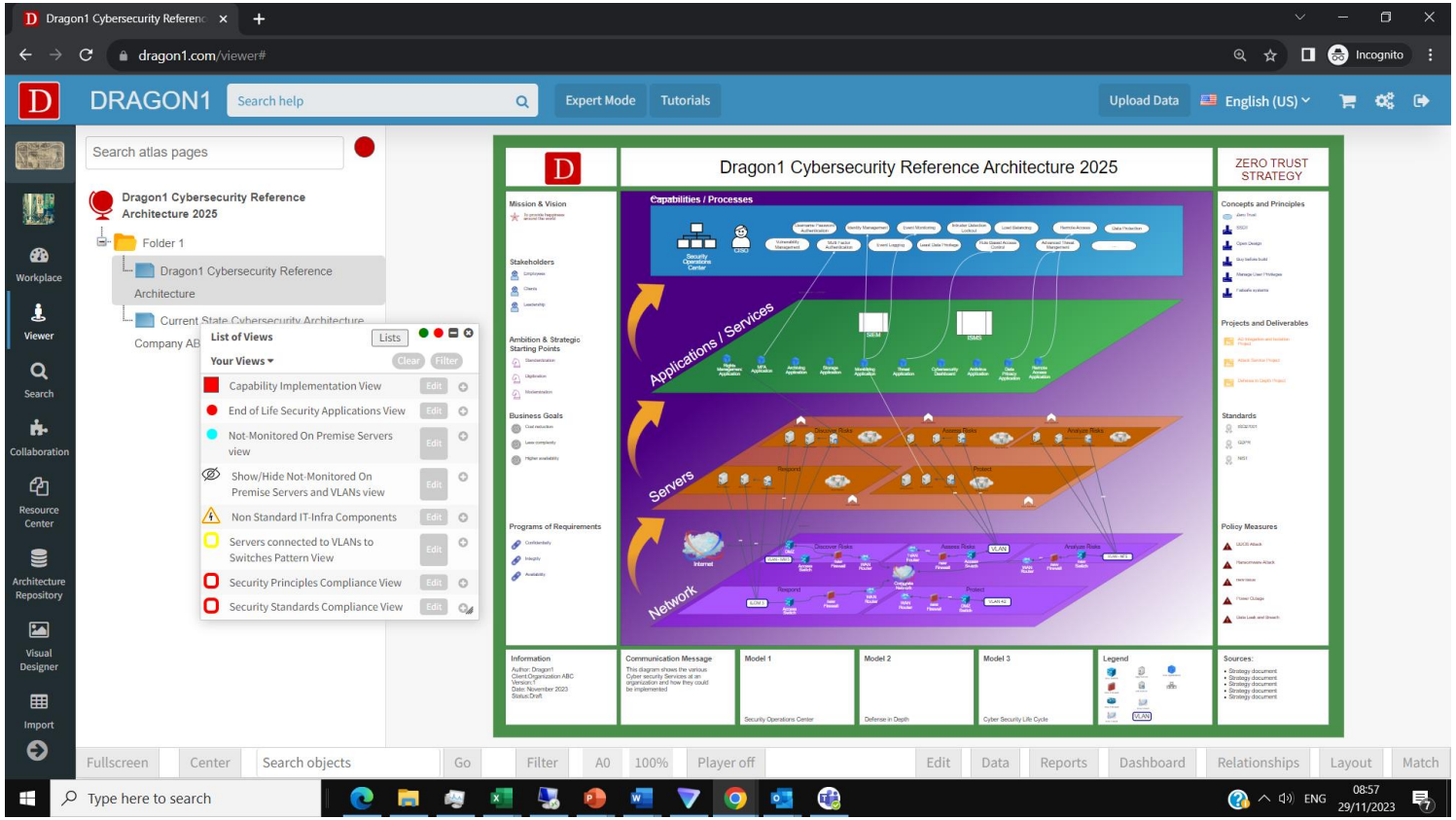
People are able to collaborate on Dragon1

Vienna

Create/Edit
Visualization
Template

New York

Create/Edit Framework
Models & Rules



The Dragon1 Viewer generates clickable/interactive diagrams from one or many datasources (databases, apis or files) and its own repository.

London

Collect Client Data

Paris

Measure Client Data against
Reference models and rules

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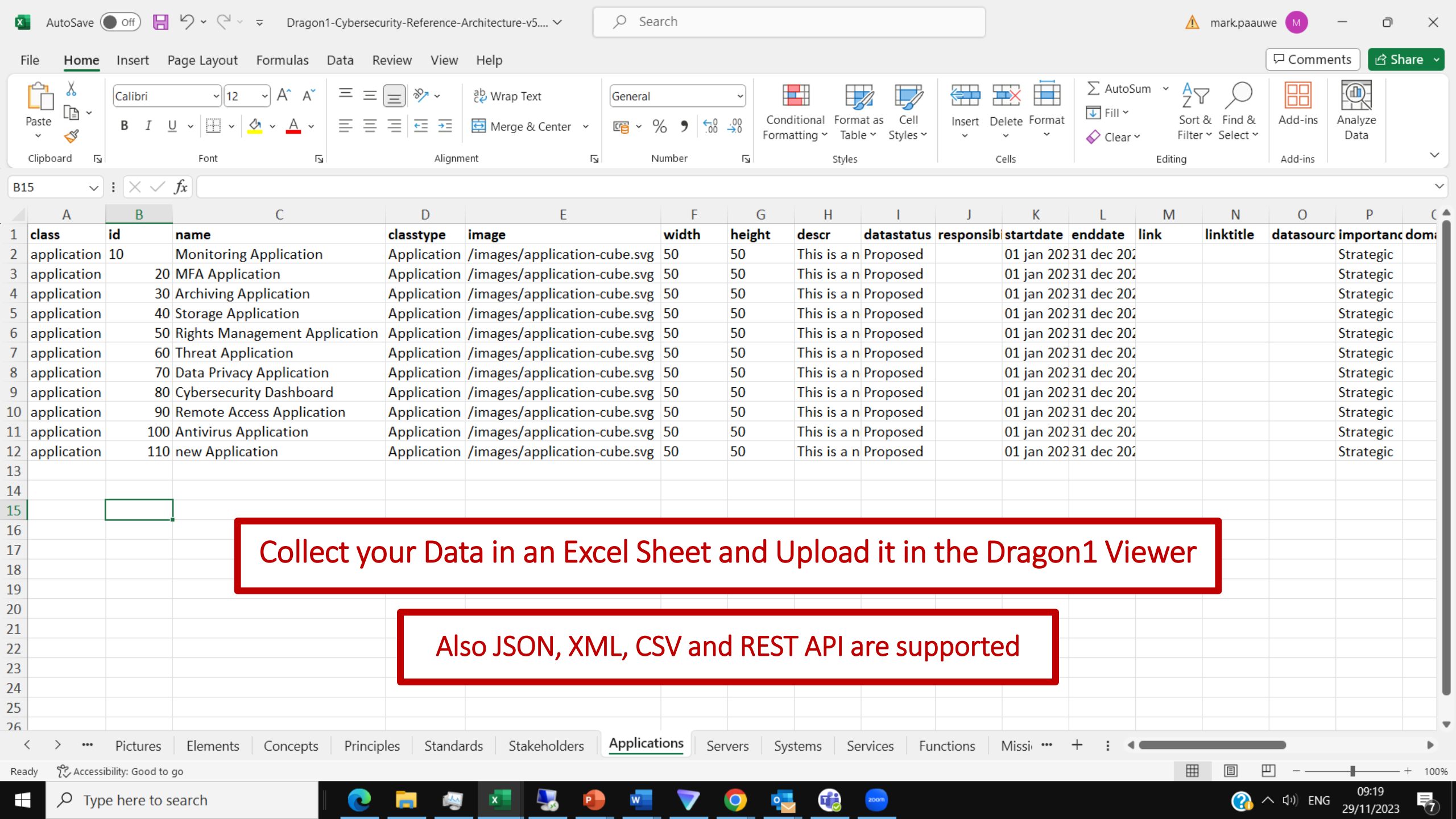


class	id	name	classtype	image	width	height	descr	datastatus	responsib	startdate	enddate	link	linktitle	datasourc	importanc	doma
application	10	Monitoring Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	20	MFA Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	30	Archiving Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	40	Storage Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	50	Rights Management Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	60	Threat Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	70	Data Privacy Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	80	Cybersecurity Dashboard	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	90	Remote Access Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	100	Antivirus Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	
application	110	new Application	Application	/images/application-cube.svg	50	50	This is a n	Proposed		01 jan 202	31 dec 202				Strategic	

Dragon1 Process Application Ma

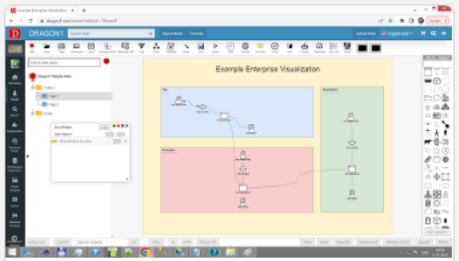
dragon1.com/viewer?f=/downloads/dragon1-process-application-mapping.xlsx

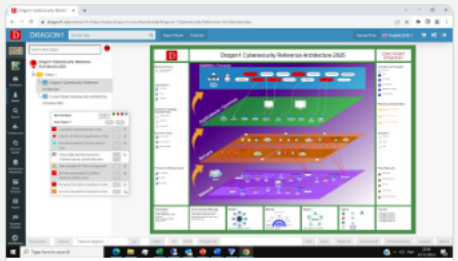
Close

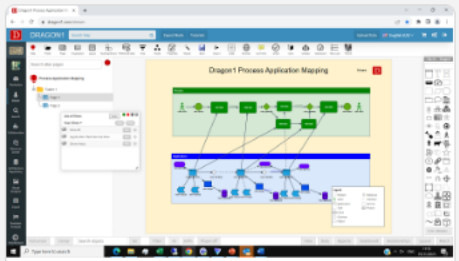
Dragon1 Tutorials

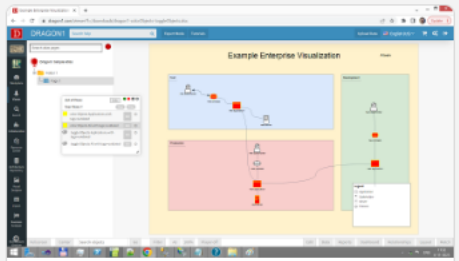
Search | All | Enterprise Architecture | Protoyping | AI | Gaming

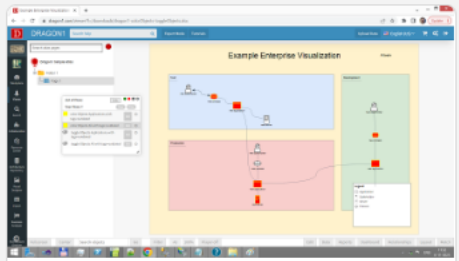
Choose a Dragon1 Tutorial

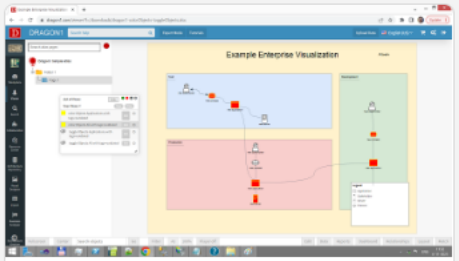

Simple atlas with 1 visualization, 3 areas, 12 shapes and 1 view

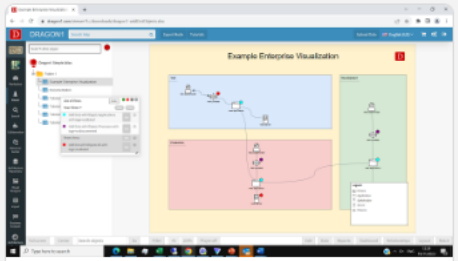

Cybersecurity-reference-architecture

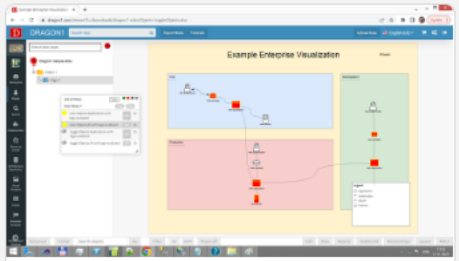

Sample project Process Application Mapping


createAtlas - Action Script


addVisualization - Action Script

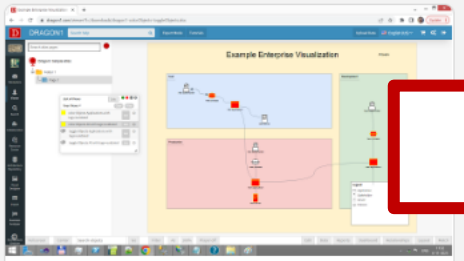

colorObjects - Action Script

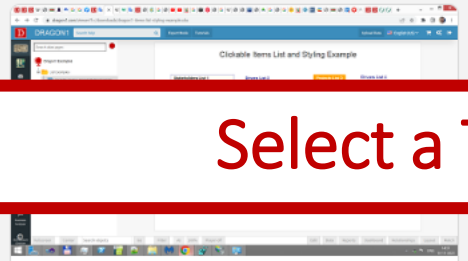

addDotObjects - Action Script

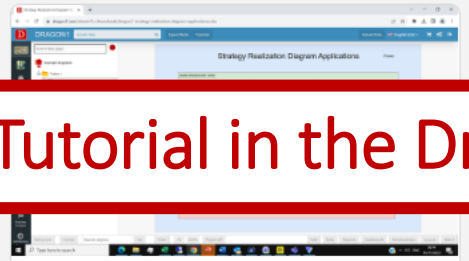

toggleObjects - Action Script

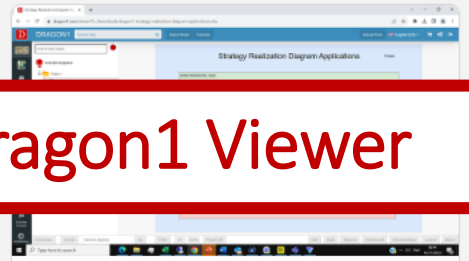
Complete colorObjects and toggleObjects - Action Script

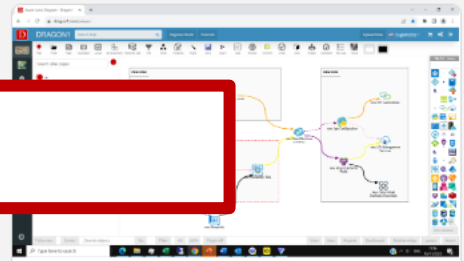
createRelationship - Action Script


exportToExcel - Action Script


Clickable Items List Styling Example - Action Script


Strategy Realization Diagram Applications


Strategy Realization Diagram Processes


Azure Diagram

Select a Tutorial in the Dragon1 Viewer

https://www.dragon1.com/viewer?f=/downloads/dragon1-process-application-mapping.xlsx#

Type here to search

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Example Enterprise Visualization

dragon1.com/viewer?f=/downloads/dragon1-colorObjects-toggleObjects.xlsx#

DRAGON1

Search help

Expert Mode | Tutorials | Upload Data | English (US)

Atlas | Folder | Page | Visualization | Layout | Building Blocks | Reference Data | View | Model | Properties | Wizard | Save | Export | Code | Browser | Comment | Check | Icons | Chatbot | Dashboard | Task Lists | Theme

Workplace | Viewer | Search | Collaboration | Resource Center | Architecture Repository | Visual Designer | Import | Business Analyzer | Architecture Checker | Settings

Search atlas pages

Dragon1 Simple Atlas

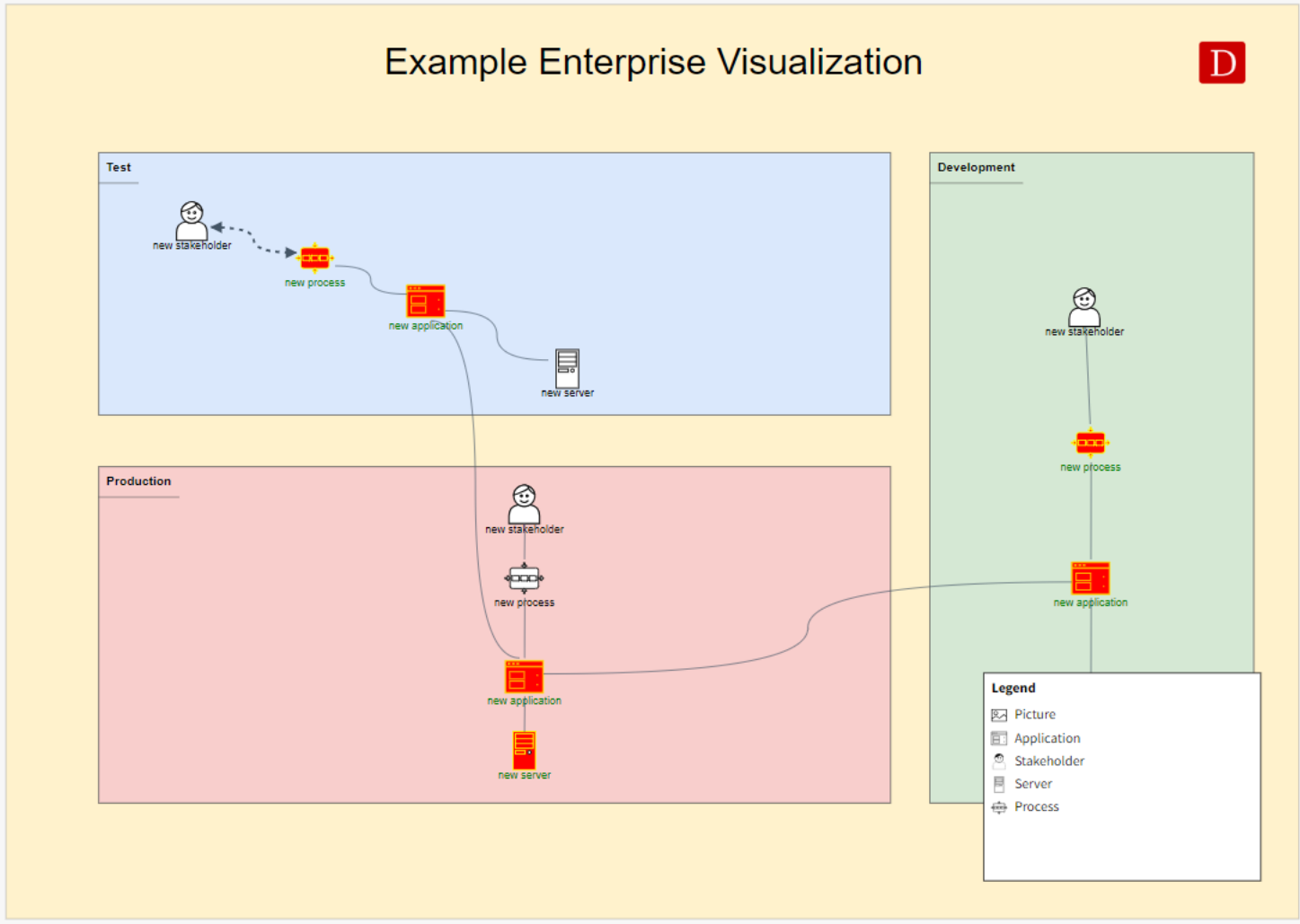
- Folder 1
  - Example Enterprise Visualization
  - Documentation
  - Tutorial
  - Tutorial
  - Tutorial
  - Tutorial
  - Tutorial

List of Views | Lists

Your Views | Clear | Filter

- color Objects Applications with tags=outdated — Edit
- color Objects All with tags=outdated — Edit
- toggle Objects Applications with tags=outdated — Edit
- toggle Objects All with tags=outdated — Edit

Example Tutorial



Clip Art | Dragon1

Icon Libraries...

Fullscreen | Center | Search objects | Go | Filter | A3 | 100% | Player off | View | Data | Reports | Dashboard | Relationships | Layout | Match

Type here to search

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Dragon1 Process Application Ma

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Atlas | Folder | Page | Visualization | Layout | Building Blocks | Reference Data | View | Model | Properties | Wizard | Save | Export | Code | Browser | Comment | Check | Icons | Chatbot | Dashboard | Task Lists | Theme

Workplace | Viewer | Search | Collaboration | Resource Center | Architecture Repository | Visual Designer | Import | Business Analyzer

Search atlas pages

Process Application Mapping

- Folder 1
  - Page 1
  - Page 2

List of Views | Lists

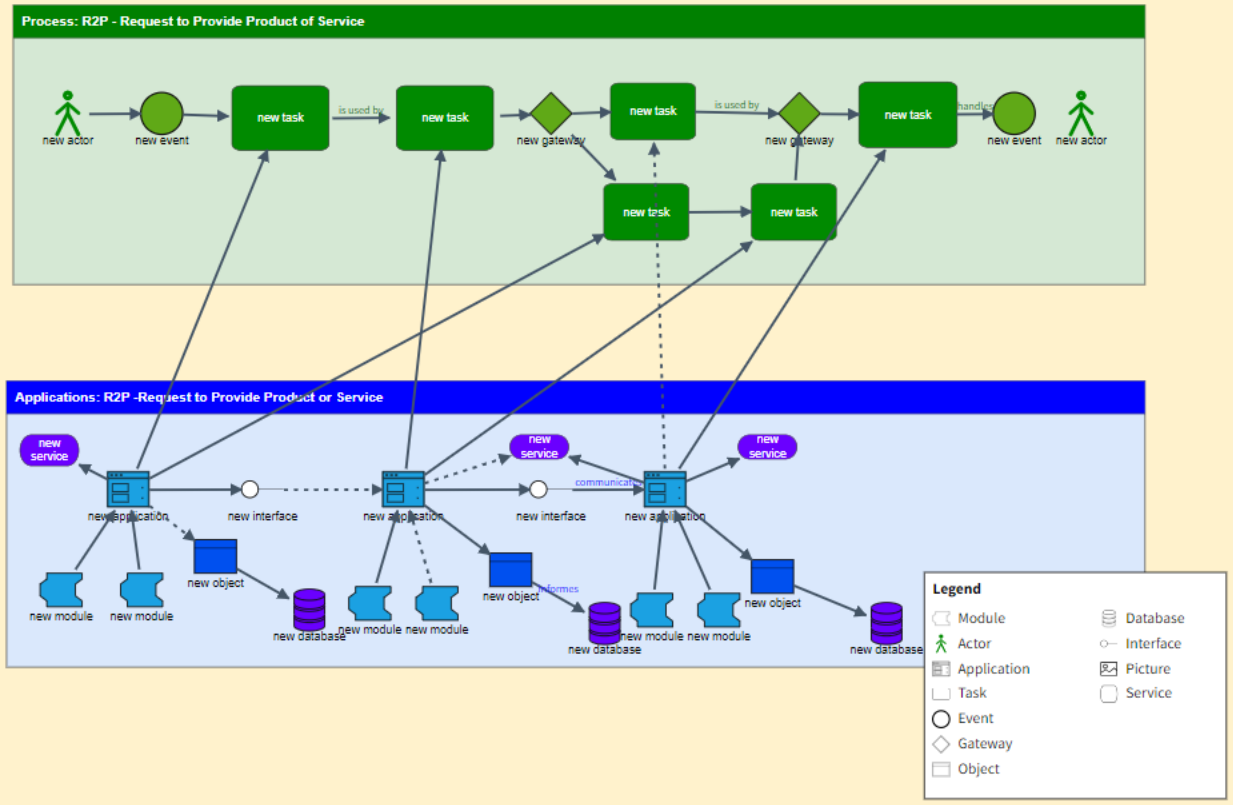
Your Views | Clear | Filter

- View All | Edit
- Application-Task-Service View | Edit
- Show Areas | Edit

Example Tutorial

Dragon1 Process Application Mapping

A team



capability

Clip Art | Dragon1

Icon Libraries...

Fullscreen | Center | Search objects | Go | Filter | A3 | 100% | Player off | View | Data | Reports | Dashboard | Relationships | Layout | Match

Type here to search

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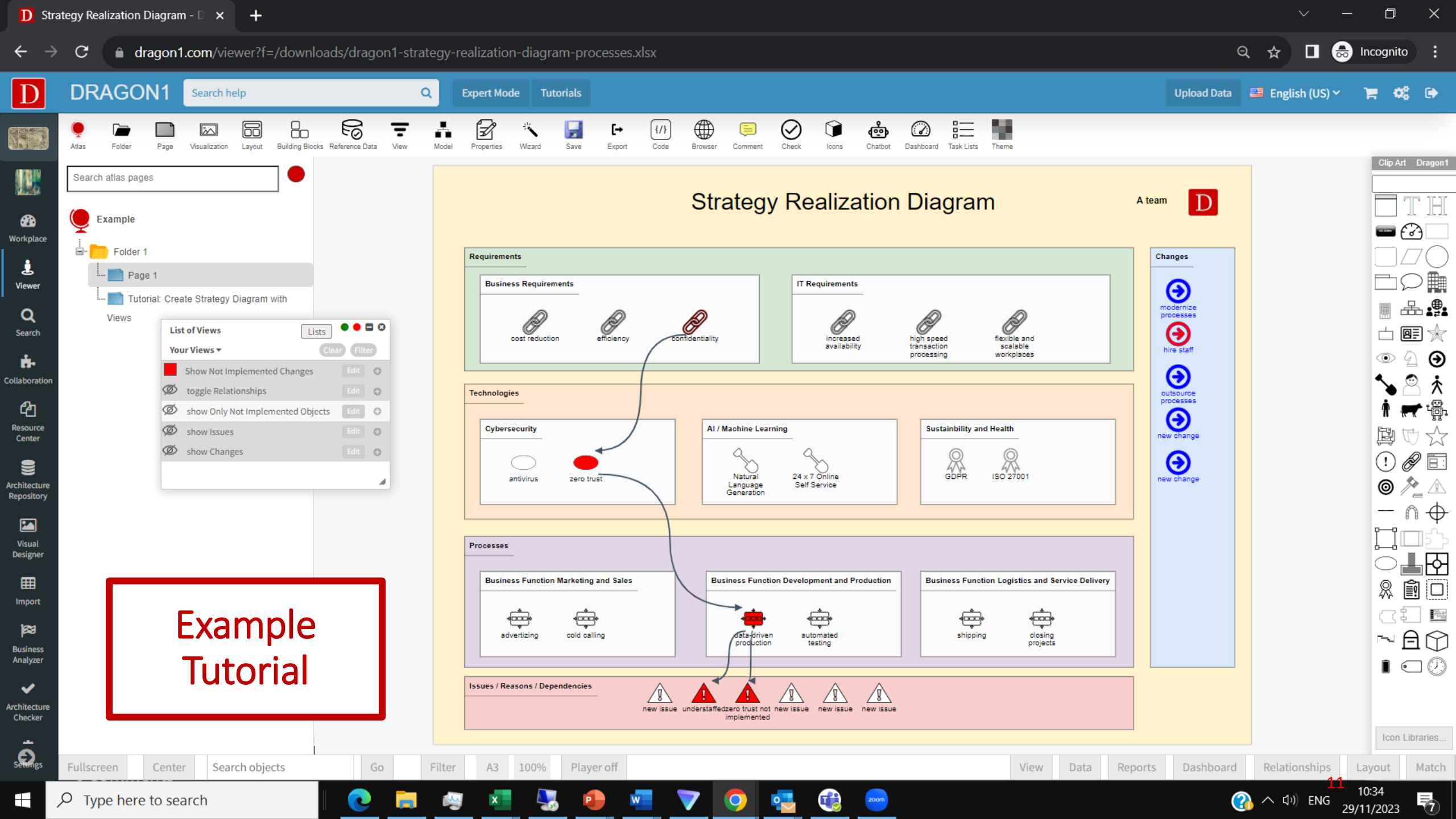
Strategy Realization Diagram - D
dragon1.com/viewer?f=/downloads/dragon1-strategy-realization-diagram-processes.xlsx
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Icons
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Theme
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Example
Folder 1
Page 1
Tutorial: Create Strategy Diagram with Views
List of Views
Lists
Your Views
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Filter
Show Not Implemented Changes
toggle Relationships
show Only Not Implemented Objects
show Issues
show Changes
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Visual Designer
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Architecture Checker
Settings
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Strategy Realization Diagram
A team
Requirements
Business Requirements
cost reduction
efficiency
confidentiality
IT Requirements
increased availability
high speed transaction processing
flexible and scalable workplaces
Technologies
Cybersecurity
antivirus
zero trust
AI / Machine Learning
Natural Language Generation
24 x 7 Online Self Service
Sustainbility and Health
GDPR
ISO 27001
Processes
Business Function Marketing and Sales
advertizing
cold calling
Business Function Development and Production
data-driven production
automated testing
Business Function Logistics and Service Delivery
shipping
closing projects
Issues / Reasons / Dependencies
new issue
understaffed
zero trust not implemented
new issue
new issue
new issue
Changes
modernize processes
hire staff
outsource processes
new change
new change
Clip Art
Dragon1
Icon Libraries...
Fullscreen
Center
Search objects
Go
Filter
A3
100%
Player off
View
Data
Reports
Dashboard
Relationships
Layout
Match
Type here to search
ENG
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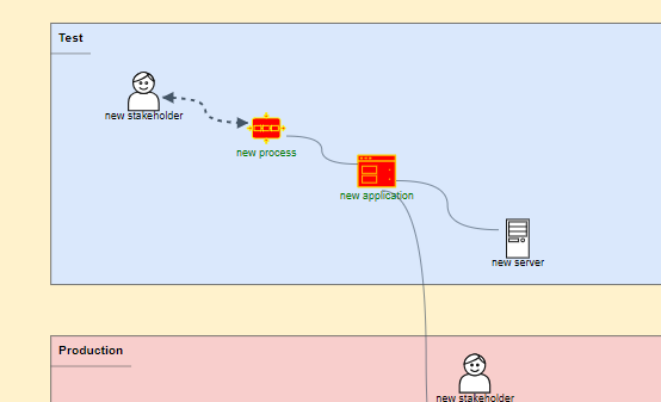
29/11/2023
11

Example Language and Method Specification

Dragon1 supports to specify your own language or method with metamodel rules, icons and patterns.

Watch and download the example tutorial in the Dragon1 Viewer on creating your own language or method.



- **Example new metamodel**
  - {**class**:metamodel,**id**:1,**name**:mymetamodel,**type**:reference model}
- **Example new entityclass**
  - {**classname**: myclass1, **classatributes**:{id:integer(18,0),name:string(varchar,255), icon:/images/myclass1.svg}, **metamodelid**:1,**cardinality**:0, **fill**:white,**stroke**:blue,**strokewidth**:5, **color**:blue}
- **Example new relationship**
  - {**classname**: myrelationships, **metamodelid**:1, **classatributes**:{id:integer(18,0), **name**:string(varchar,255), **fill**:white,**stroke**:blue,**strokewidth**:5, **color**:blue, **sourceclass**:<classname>,**sourceid**:integer(18,0),**targetclass**:<classname>,**targetid**:id:integer(18,0), ...}, **text**:string(255), **cardinality**:1, icon:/images/myrel.svg}}
- **Example new rule**
  - **{class:**rule,id:1,**name**:rule1,**eventtrigger**:on(draw),**eventaction**:cancel(draw), **eventrule**:myclass1 is connected to myclass2}
  - **{class:**rule,id:2,**name**:rule2,**eventtrigger**:on(load),**eventaction**:delete(entity), **eventrule**:myclass1.age <= 18}
  - Event options: load, draw, create, read, update, delete
  - Operator options: is connected, is not connected, is, and, or, xor, =, &&, ||, <>, <, >, <=, >=
  - Wildcards: * (any character), ~ (starts or ends with)

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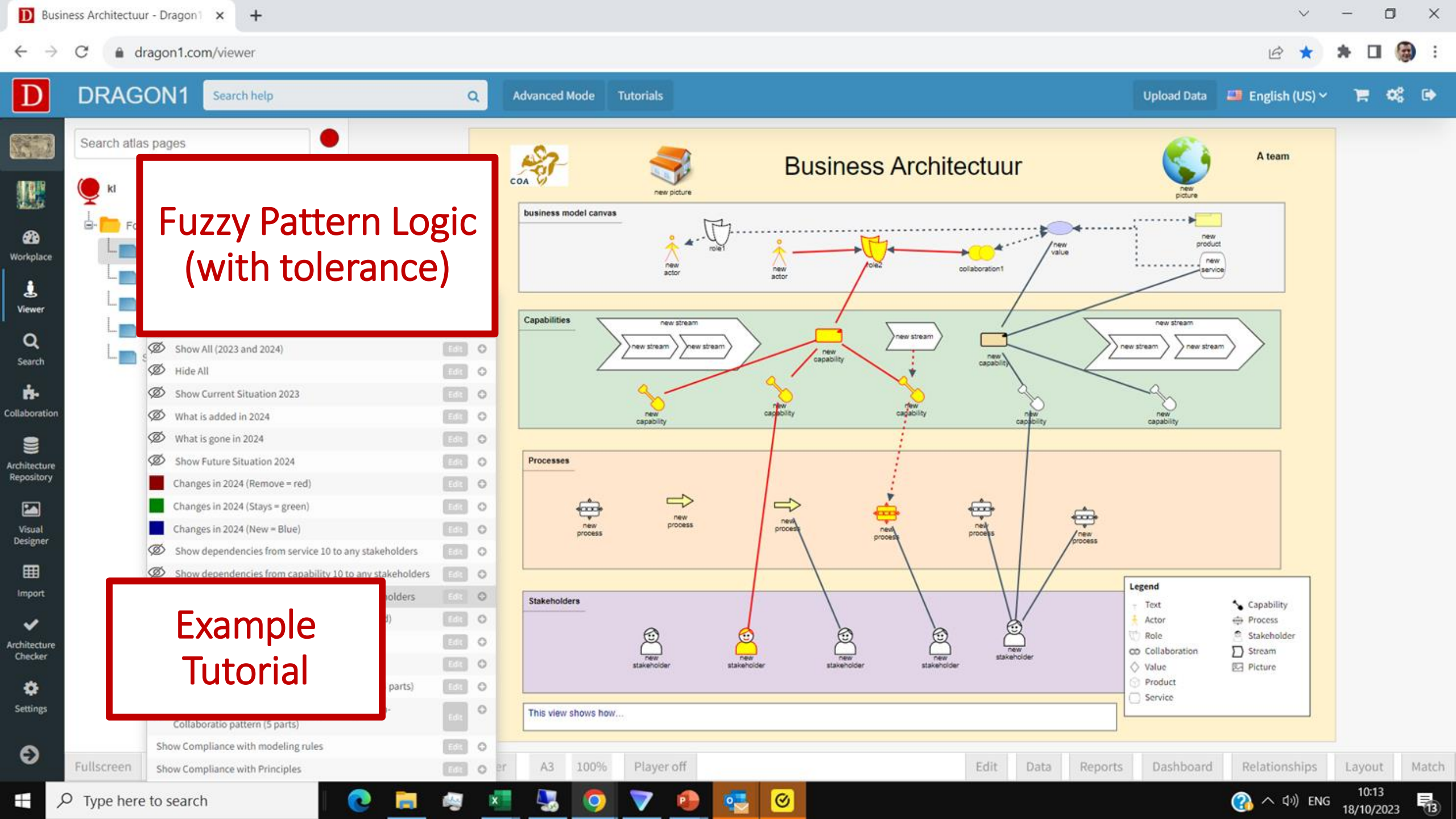
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Search atlas pages
Workplace
Viewer
Search
Collaboration
Architecture Repository
Visual Designer
Import
Architecture Checker
Settings
Fuzzy Pattern Logic (with tolerance)
Example Tutorial
Show All (2023 and 2024)
Hide All
Show Current Situation 2023
What is added in 2024
What is gone in 2024
Show Future Situation 2024
Changes in 2024 (Remove = red)
Changes in 2024 (Stays = green)
Changes in 2024 (New = Blue)
Show dependencies from service 10 to any stakeholders
Show dependencies from capability 10 to any stakeholders
Show Compliance with modeling rules
Show Compliance with Principles
Business Architectuur
A team
business model canvas
Capabilities
Processes
Stakeholders
Legend
This view shows how...
Fullscreen
A3
100%
Player off
Edit
Data
Reports
Dashboard
Relationships
Layout
Match
Type here to search
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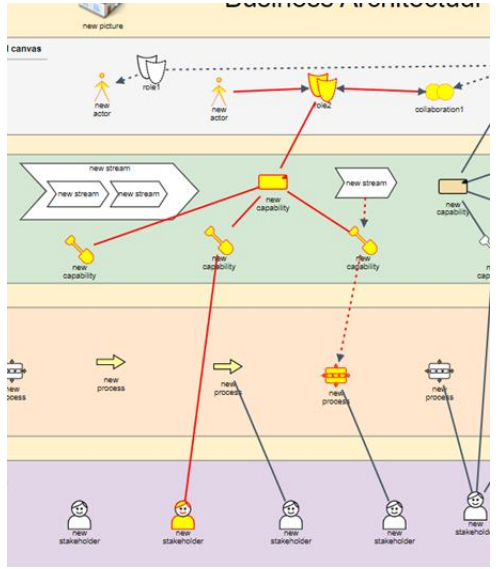
18/10/2023

Example Pattern Specification

- A model is a coherent set of related entities
- Examples of Entities are:
  - {**Class**:Product,**Id**:10,**Name**:Product1,**Type**:Business Product}
  - {**Class**:Service,**Id:**20,**Name**:Service1,**Type**:Business Service}
- Example of a Relationship is
  - {**Class:**Relationship, **Id**:1,**Modelid**:1
    Sourceclass: Product, **Sourceid**: 10, **Sourcecardinality**:1
    Targetclass: Service, **Targetid**: 20, **Targetcardinality**:0..3
    Routingtype: curved, **Type**: Flow, **Text**: Is Used by}



- A pattern is a coherent set of included or excluded related entities and linked relationships
- Example of a Pattern Specification is:
  - Pattern:[{**class**:pattern,**name**:pattern1,**id**:1, **descr**:'This is a pattern'},
    {**patternid**:1,**class**:product,**id**:*,**name**:pro*,**type**:*,**include**:no,**tolerancevalues**:{type:{business,IT}}}, {...},
    {**patternid**:2, **class**:relationship,**id**:1,**sourceclass**:product,**sourceid**:*,**targetclass**:*,**targetid**:*,
    sourcecardinality:1,**targetcardinality**:0..3,**type**:*,**include**:yes,**relationshiplinkids**:{2,4.9},**tolerancevalues**:{}}, {...}, ...
    ]

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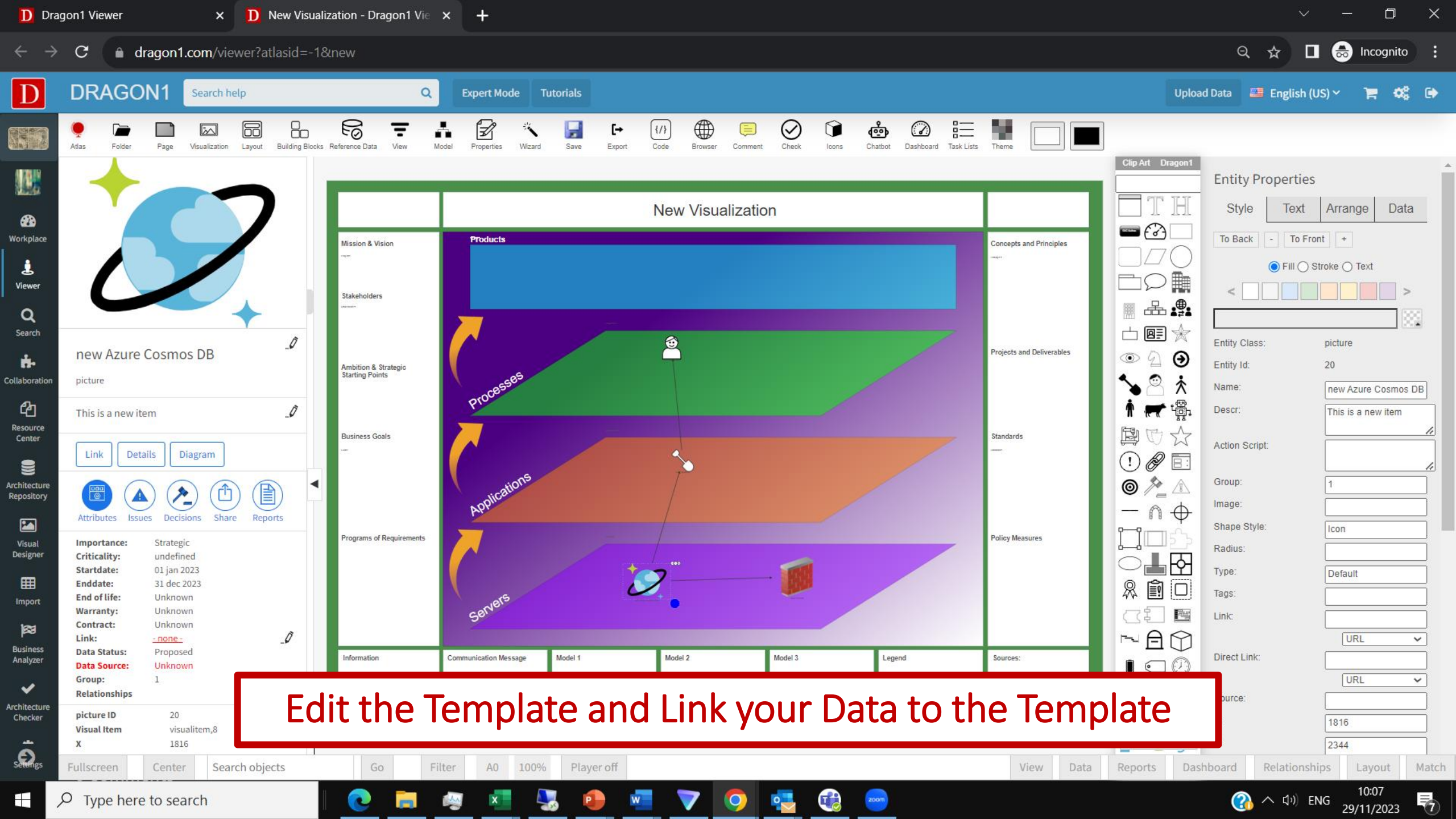
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Building Blocks
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Wizard
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Export
Code
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Comment
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Visual Designer
Import
Business Analyzer
Architecture Checker
Settings
new Azure Cosmos DB
picture
This is a new item
Link
Details
Diagram
Attributes
Issues
Decisions
Share
Reports
Importance: Strategic
Criticality: undefined
Startdate: 01 jan 2023
Enddate: 31 dec 2023
End of life: Unknown
Warranty: Unknown
Contract: Unknown
Link: - none -
Data Status: Proposed
Data Source: Unknown
Group: 1
Relationships
picture ID 20
Visual Item visualitem,8
X 1816
New Visualization
Mission & Vision
Stakeholders
Ambition & Strategic Starting Points
Business Goals
Programs of Requirements
Products
Processes
Applications
Servers
Concepts and Principles
Projects and Deliverables
Standards
Policy Measures
Information
Communication Message
Model 1
Model 2
Model 3
Legend
Sources:
Clip Art
Dragon1
Entity Properties
Style
Text
Arrange
Data
To Back
To Front
Fill
Stroke
Text
Entity Class: picture
Entity Id: 20
Name: new Azure Cosmos DB
Descr: This is a new item
Action Script:
Group: 1
Image:
Shape Style: Icon
Radius:
Type: Default
Tags:
Link:
URL
Direct Link:
URL
1816
2344
Edit the Template and Link your Data to the Template
Fullscreen
Center
Search objects
Go
Filter
A0
100%
Player off
View
Data
Reports
Dashboard
Relationships
Layout
Match
Type here to search
ENG
10:07
29/11/2023

Dragon1 Cybersecurity Referenc

dragon1.com/viewer#

Incognito

DRAGON1

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Expert Mode | Tutorials | Upload Data | English (US)

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Dragon1 Cybersecurity Reference Architecture 2025

Folder 1

Dragon1 Cybersecurity Reference Architecture

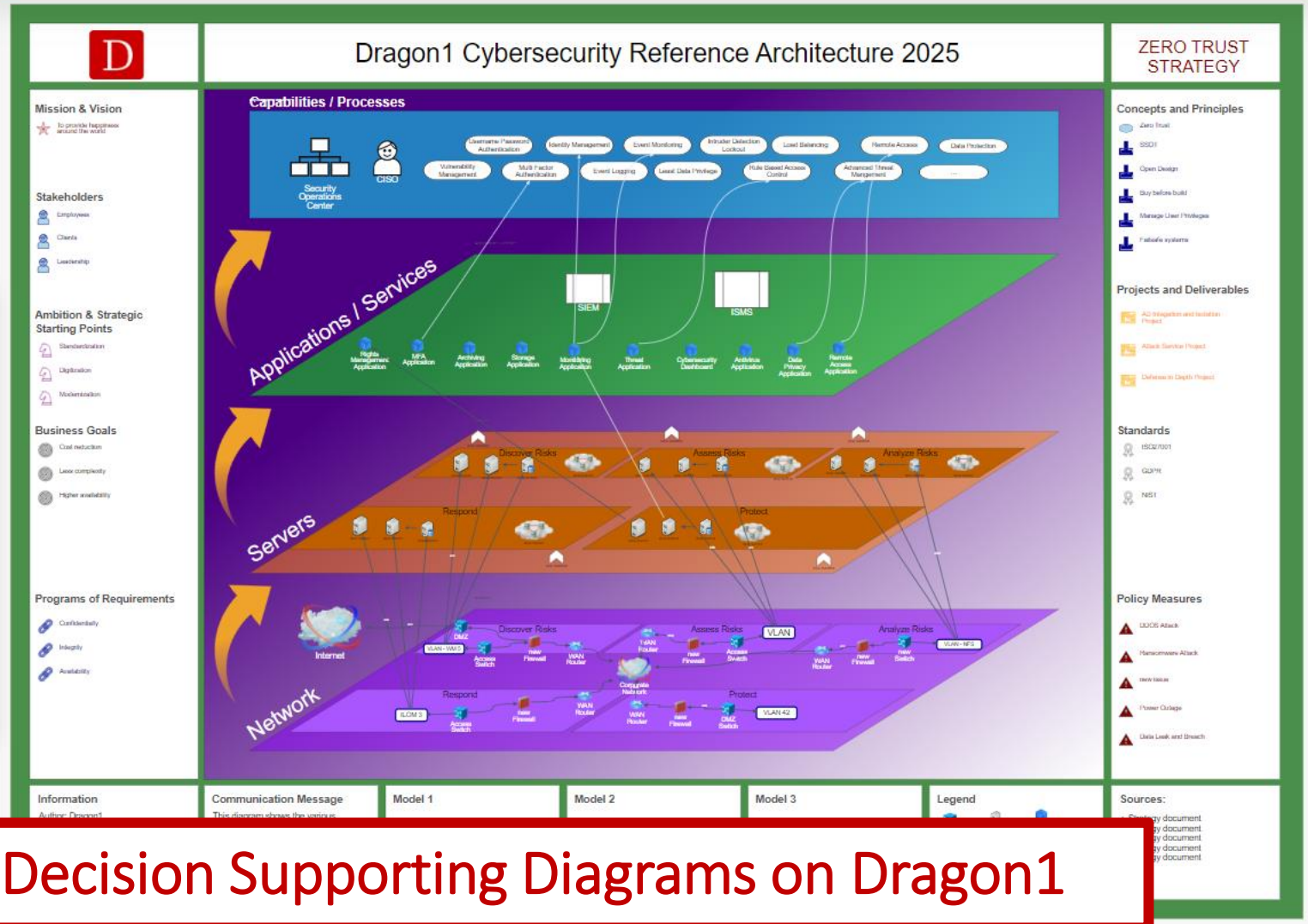
Current State Cybersecurity Architecture

Company AB

List of Views | Lists

Your Views | Clear | Filter

- Capability Implementation View — Edit
- End of Life Security Applications View — Edit
- Not-Monitored On Premise Servers view — Edit
- Show/Hide Not-Monitored On Premise Servers and VLANs view — Edit
- Non Standard IT-Infra Components — Edit
- Servers connected to VLANs to Switches Pattern View — Edit
- Security Principles Compliance View — Edit
- Security Standards Compliance View — Edit



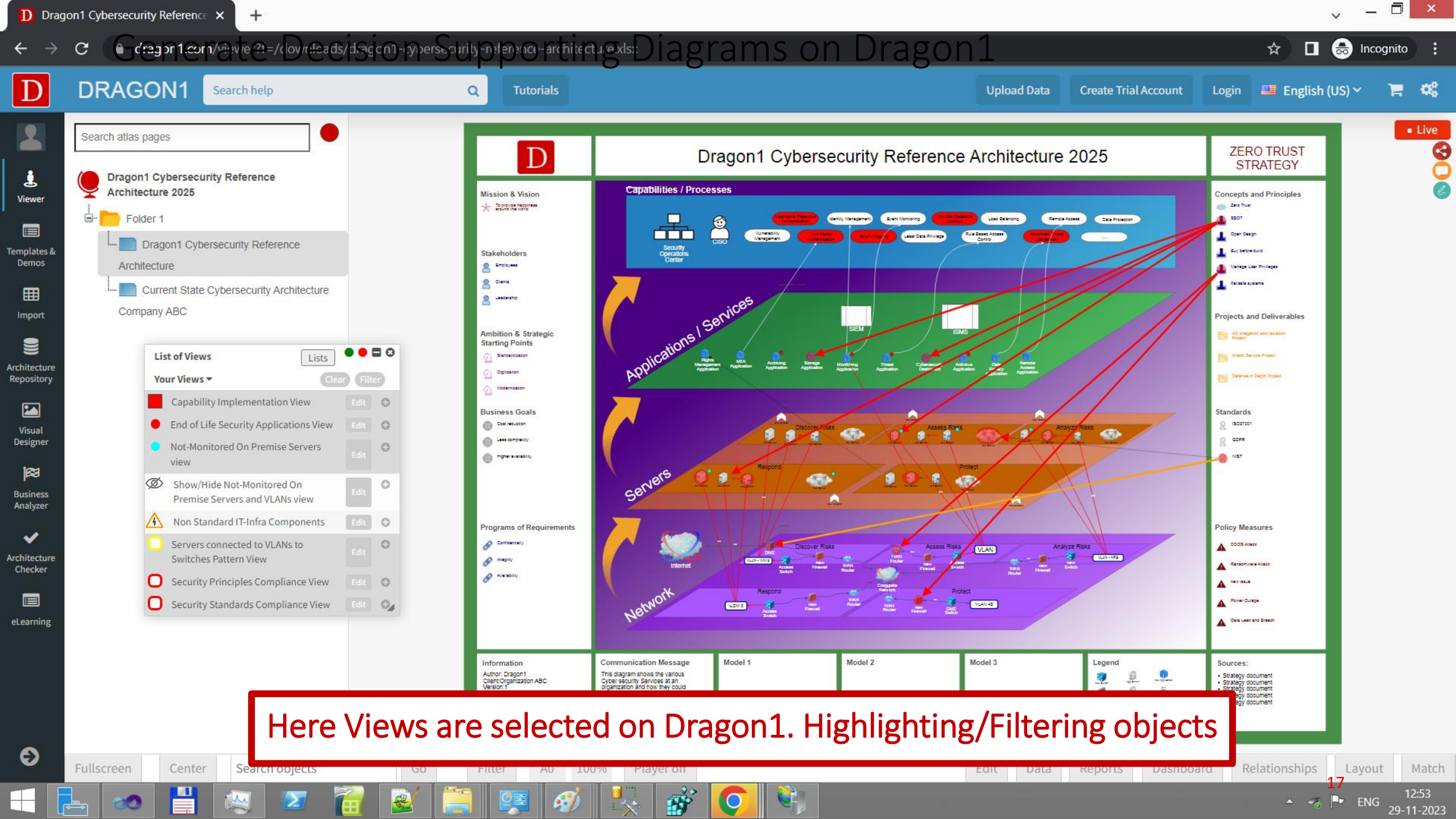
Generate Decision Supporting Diagrams on Dragon1

Fullscreen | Center | Search objects | Go | Filter | A0 | 100% | Player off | Edit | Data | Reports | Dashboard | Relationships | Layout | Match

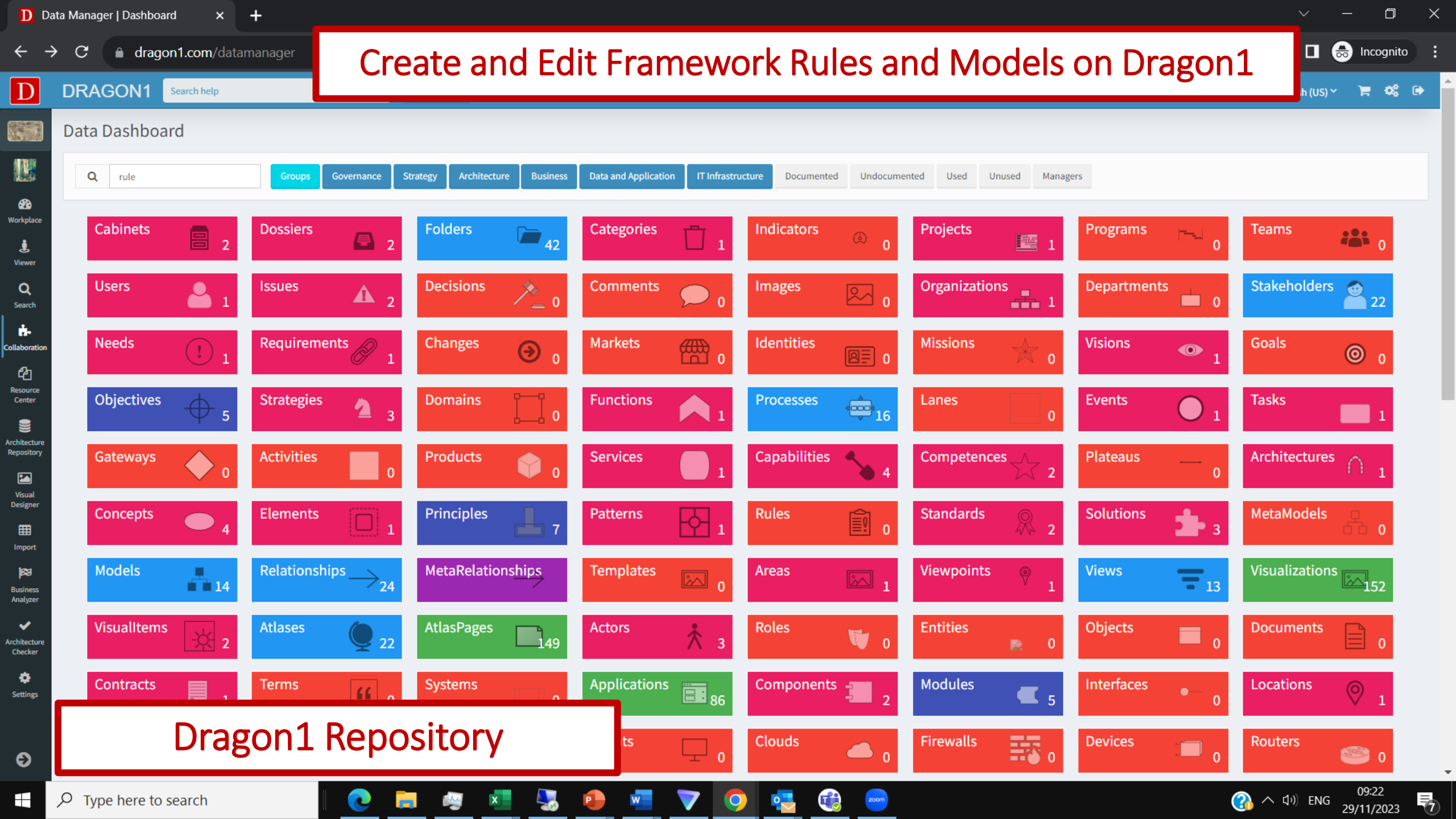
Type here to search

ENG 08:57 29/11/2023

Generate Decision Supporting Diagrams on Dragon1



Create and Edit Framework Rules and Models on Dragon1



Dragon1 Repository

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