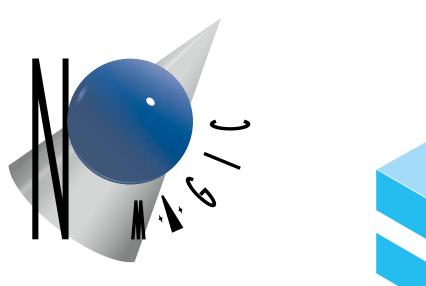
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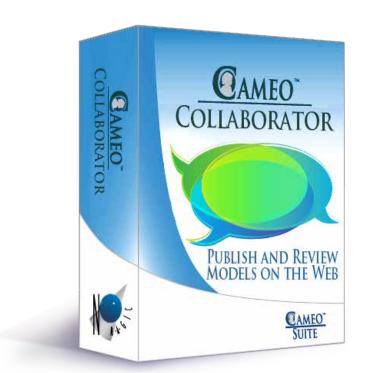
	Taxonomy Tx	Structure Sr	Connectivity Cn	Processes Pr	States St	Interaction Scenarios Is	Information If	Parameters Pm	Constraints Ct	Roadmap Rm	Traceability Tr
Metadata Md	Metadata Taxonomy Md-Tx	Architecture Viewpoints Md-Sr	Metadata Connectivity Md-Cn	Metadata Processes Md-Pr	-	-			Metadata Constraints Md-Ct	-	Metadata Traceability Md-Tr
Strategic St	Strategic Taxonomy St-Tx	Strategic Structure St-Sr	Strategic Connectivity St-Cn	-	Strategic States St-St	-			Strategic Constraints St-Ct	Strategic Deployment Strategic Phasing St-Rm	Strategic Traceability St-Tr
Operational Op	Operational Taxonomy Op-Tx	Operational Structure Op-Sr	Operational Connectivity Op-Cn	Operational Processes Op-Pr	Operational States Op-St	Operational Interaction Scenarios Op-Is			Operational Constraints Op-Ct	-	Operational Traceability Op-Tr
Services Sv	Service Taxonomy Sv-Tx	Service Structure Sv-Sr	Service Connectivity Sv-Cn	Service Processes Sv-Pr	Service States Sv-St	Service Interaction Scenarios Sv-Is	Conceptual Data Model	Environment Pm-En	Service Constraints Sv-Ct	Service Roadmap Sv-Rm	Service Traceability Sv-Tr
Personnel Pr	Personnel Taxonomy Pr-Tx	Personnel Structure Pr-Sr	Personnel Connectivity Pr-Cn	Personnel Processes Pr-Pr	Personnel States Pr-St	Personnel Interaction Scenarios Pr-Is	Logical Data Model		Competence Drivers Performance Pr-Ct	Personnel Availability Personnel Evolution Personnel Forecast Pr-Rm	Personnel Traceability Pr-Tr
Resources Rs	Resource Taxonomy Rs-Tx	Resource Structure Rs-Sr	Resource Connectivity Rs-Cn	Resource Processes Rs-Pr	Resource States Rs-St	Resource Interaction Scenarios Rs-Is	Physical Data Model	Measurements Pm-Me	Resource Constraints Rs-Ct	Resource evolution Resource forecast Rs-Rm	Resource Traceability Rs-Tr
Security Sc	Security Taxonomy Sc-Tx	Security Structure Sc-Sr	Security Connectivity Sc-Cn	Security Processes Sc-Pr	-	-			Security Constraints Sc-Ct	-	Security Traceability Sc-Tr
Projects Pj	Project Taxonomy Pj-Tx	Project Structure Pj-Sr	Project Connectivity Pj-Cn	-	-	-			-	Project Roadmap Pj-Rm	Project Traceability Pj-Tr
Standards Sd	Standard Taxonomy Sd-Tx	Standards Structure Sd-Sr	-	-	-	-			-	Standards Roadmap Sd-Rm	Standards Traceability Sd-Tr
Actuals Resources Ar	-	Actual Resources Structure Ar-Sr	Actual Resources Connectivity Ar-Cn		Simulation				Parametric Execution/ Evaluation	-	-
	Dictionary Dc										



MagicDraw + UPDM

MagicDraw + UPDM is the award-winning enterprise architecture, business process, software and system modeling tool. The product is designed for Enterprise Architects, Business Analysts, Software Analysts and System Engineers.

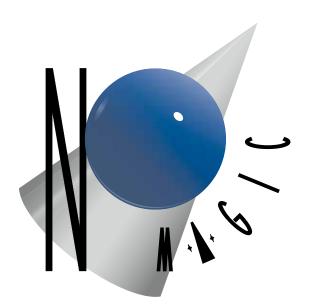
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Cameo Collaborator

Cameo Collaborator is a web-based solution designed to present models in a simplified form for stakeholders, sponsors, customers and engineering teams, allowing modelers and non-modelers to collaborate. The product makes it easy for users to review model and diagrams in a transparent, collaborative environment keeping the entire project team up to date on any changes made to the model.

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Enterprise Architecture Framework





Summary & Overview **Sm-Ov**

Requirements Rq



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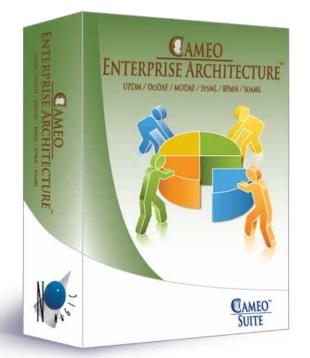
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Cameo Enterprise Architecture

Cameo Enterprise Architecture is the industry leading cross-platform collaborative Enterprise Architecture environment, which provides smart, robust, and intuitive modelling tools. CEA fully supports the standard-based enterprise architecture frameworks including the new UAF standard.

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Teamwork Cloud

Teamwork cloud is the next generation repository for collaborative development and version model storage. It is envisioned and architected to provide significant future improvements in the areas of model governance, model analysis and integration with third-party tools.

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Model

Simulate

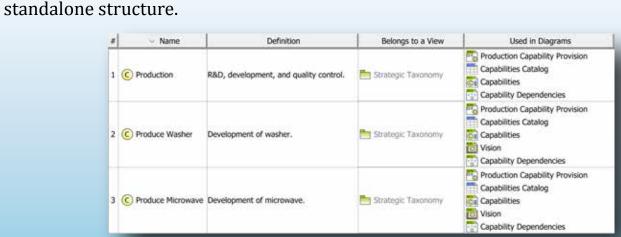
Analyze



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DICTIONARY DOMAIN

The **Dictionary (Dc)** is a table presenting all the elements used in an architecture as a



REQUIREMENTS DOMAIN

The **Requirements Domain (Rq)** represent requirements, their properties, and relationships (trace, verify, satisfy, refine) between each other and to UAF architectural elements.

#	 Name 	Text
1	R 1 General Requirements	General requirements
2	I.1 Problem Statement	In three years period develop two new products to cover the new markets.
3	R 1.1.1 Requirements for New Products	Each new product will have a new development team. The new vision of each product shall be prepared in two months.

Strategic Domain (St) provides a capability view of the enterprise. It shows the relationships between capabilities and between the capabilities and the resources required to realize them.

Strategic Taxonomy

The Strategic Taxonomy (St-Tx) describes the relationships between individual capabilities including composition, association, and generalization.

Capability: The ability to achieve a desired effect under specified [performance] standards and conditions through combinations of ways and means [activities and resources] to perform a set of activities.



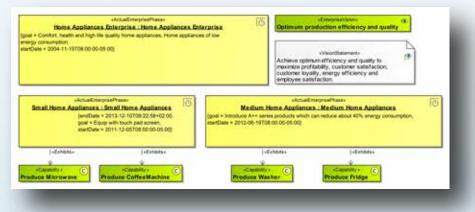
Strategic Structure

The Strategic Structure (St-Sr) diagram depicts a schedule for delivering the Capabilities of the Enterprise.

Vision: The definition of strategic context for a group of capabilities, measured by a timeline and specific goals.

Vision Statement: Narrative form of the Vision.

Exhibits: Used to link architecture elements to the capabilities they provide.



The **Operational Domain (Op)** identifies what needs to be accomplished by the enterprise and who needs to accomplish it. Domain describes the tasks and activities, operational elements and exchanges of information, systems and energy that are required to conduct the operations.

Operational Structure

The High-Level Operational Structure (Op-Sr) diagram illustrates the primary scenario for which the architecture is intended.

Operational Performers: Conceptual participants in the primary scenario of the architecture.

Arbitrary Relationship: The simplest indication that there is some kind of relationship that must be detailed in the architecture.

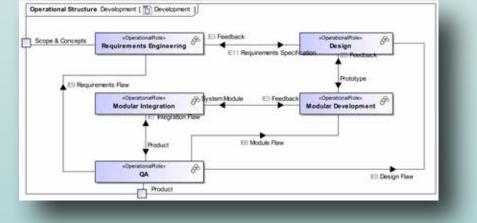


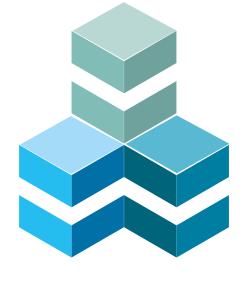
The **Internal Operational Structure (Op-Sr)** diagram shows the interaction of operational performers within the aggregate Development operational performer. The diagram also illustrates the Operational Exchanges into and out of the Development operational performer. Furthermore, the diagram depicts which internal part consumes each input and which part produces each output. An operational performer that is Part of another Whole Performer appears as a Operational Role within that enclosing operational performer.

Operational Connector: An operational connctor documents the requirement to exchange information between operational performers. The operational connector does not indicate how the information transfer is implemented.

Operational Port: A port is a property of an operational performer that specifies a distinct interaction point between the operational performer and its environment or between the (behavior of the) operational performer and its internal parts. It is the "entry/exit" point where resources (e.g., energy, information/data and people, etc) flow in and out of an operational performer.

Operational Role: Represents the internal elements (other operational performers) of an operational performer.





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STRATEGIC DOMAIN

Strategic Connectivity The Strategic Connectivity (St-Cn) diagram depicts relationships between

-Capability Property : Legal

«Capability Property : Finance

Capacity Property +

capabilities in which one capability cannot succeed without some form of assistance from another capability.

: R&D

Development

Capability Property + : Production

Produce CoffeeMachine

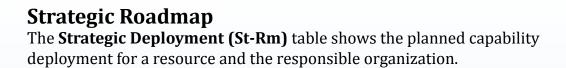
-Capability Property + : Produce Washer

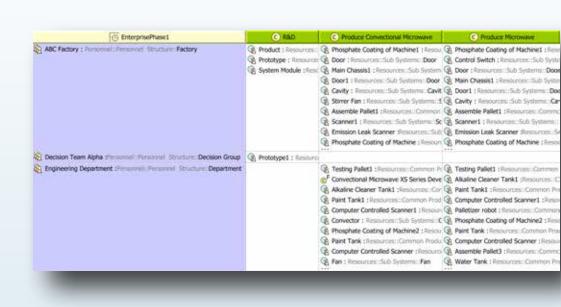
Produce Convectional Microwave

+Capability Property + : Produce Microwave

+Capability Property + : Produce Fridge

-Capability Property : Quality Centre





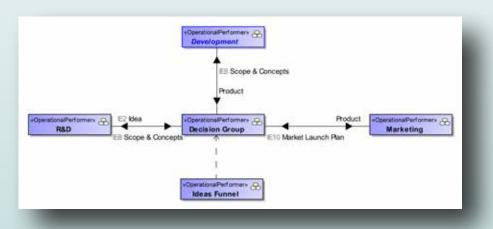
OPERATIONAL DOMAIN

Operational Taxonomy

The **Operational Taxonomy (Op-Tx)** shows the main Operational Performers of the architectural scenario and the flows of information and materiel between these Operational Performers specified in the Operational Information model.

Operational Association: An operational association describes a structural relationship between operational performers. An operational role can provide the means to pass operational exchanges between operational performers.

Operational Exchange: Describes the characteristics of the item/s passed between operational performers such as an Information Exchange, OrganizationalExchange, EnergyExchange, MaterielExchange, ConfigurationExchange, or GeoPoliticalExtent.

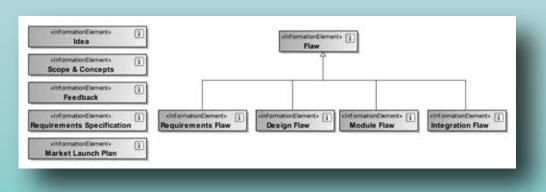


Operational Information

The **Conceptual Data Model (If)** defines the high-level information elements used in the operational scenarios.

It is used to document the business information requirements and structural business process rules of the architecture. It describes the information that is associated with the information of the architecture. Included are information items, their attributes or characteristics, and their inter-relationships.

Information Element: A conceptual definition of the data exchanged between elements of the architecture.



Operational Connectivity

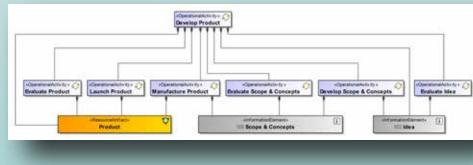
The **Operational Connectivity (Op-Cn)** matrix summarizes logical exchanges between Operational Performers of information, systems, personnel, energy etc. and the logical activities that produce and consume them. Measurements can optionally be included.

*	Exchange	Operational Exchange Item	Sending Operational Performer	Receiving Operational Performer	Producing Operational Activity	Consuming Operational Activity
1.	OEI	354 Prototype	A Design	db Design		Lord and a state of the
2	062	1 IEI Requirements Plaw	- Costility Amuranese	& Requirements Expressing	C Report Flaw (content Quality Con	C Specify Requirements(content D
3	OE3	1 151 Module Raw	Country Assurance	A Modular Development	Report Revcontext Quality Car	Develop Module contrast Develop
4	OE4	II III Scope & Concepts	& \$80	& Decisiin Group	C Develop Scope & Concepts and	Evaluate Scope & Concepts;
5	QES	V Product	A Development	Christen Group	C Manufacture Product/context Pr	Evaluate Product/content Quality
6	OE6	V Product	A becaun Group	& Merketing	C Evaluate Product: context Quality	C Laurch Product content Markets
7	OE7	V Product	A Holizer Drogration	A Quality Assurance	C Integrate Modules control Devi	Perform Quality Check/context (
8	OEB	111 Feedback	de Devini	A Reportements Engineering	Send Feedback(content Develop	Specify Requirements connect D
9	OE9	11 113 Feedback	A Modular Development	do tiespe	C Send Feedback(context Develop	C Identify Functional Prototype
50	OE30	113 Peedback	A Modular Integration	& Modular Development	Send Feedback content Develop	Overlop Module:content Devenie
11	OE11	10 Integration Flaw	Co Quality Assurance	A Polular Integration	Report FlewCountent Quality Con	C Integrate Modules control Deve
12	OE12	113 Design Flaw	County Assuration	do Deligi	C Report NewContent Quality Con	C Identify Functional Prototype::::
13	CE13	V Prototype	a Design	A Modular Development	C Review Prototype Itomat Dave	Develop Module contant Develop
24	0614	Ø Prototype	AS Design	dga Design		C Review Prototype (contraint Devie C Onate Prototype (contraint Deviet
15	OE15	V System Module	A Haluar Development	Sa Modular Integration	O Develop Module context Director	C Integrate Hodules context Deve
	OE16	1 III Harket Launch Plan	A Harlabog	S Debem Group		
17	OE17	1111 Requirements Specification	So Representa Engracement	St Design	C Specify Requirements content D	C Identify Functional Prototype
18	OE18	112 Idea	Co Iticas Funnel	So Decision Group		
29	OE19	1 HI Idea	🔂 Decisian Garage	do tako	C Evaluate Ideactorment Productio	Develop Scope & Concepts:
20	OE20	(i) ITS Scope & Concepts	Chemitan Grissip	Development	C Evaluate Scope & Concepts:	C Narufacture Product Institut Pr

Operational Processes

The **Operational Processes (Op-Pr)** diagram describes the activities that are normally conducted in the course of achieving business goals that support a capability.

Operational Activity: An activity is an action performed in conducting the business of an enterprise. It is a general term that does not imply a placement in a hierarchy (e.g., it could be a process or a task as defined in other documents and it could be at any level of the hierarchy of the Operational Processes). It does not describe hardware/software system functions.



SUMMARY & OVERVIEW DOMAIN

The Summary & Overview domain provides executive-level summary information in a consistent form that allows quick reference and comparison between architectural descriptions. It includes assumptions, constraints, and limitations that may affect high-level decisions relating to an architecture-based work program.

Architectural Description: Provides the information that scopes the architecture in terms of purpose, artifacts, tools used, the architectural framework, approving authority and more.

Actual Enterprise Phase: A portion of the enterprise that addresses a subset of capabilities toward the fulfillment of the Mission.



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In the **Strategic Phasing** diagram the Production Capability and its constituent Capabilities are arranged along the Time Line according to their Increment Dates. This illustrates the provisioning of the Production Capability over calendar time.

Necessary data for the chart is obtained from:

1. The Capability Configurations, as modeled in an Resource Taxonomy.

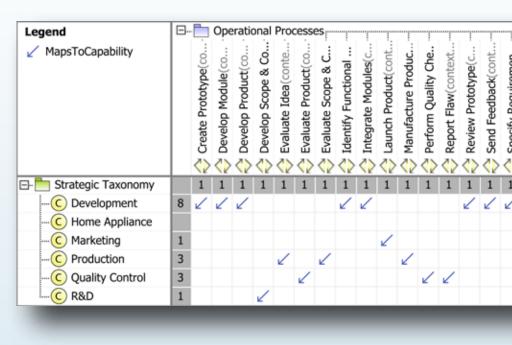
2. The tracing between Capabilities to Capability Configurations, as modeled in a Capability to Capability Configuration matrix.

3. Capability Increment Dates, as modeled in the Project Roadmap chart.



Strategic Traceability

The **Strategic Traceability (St-Tr)** matrix summarizes how Operational Activities support Capabilities.

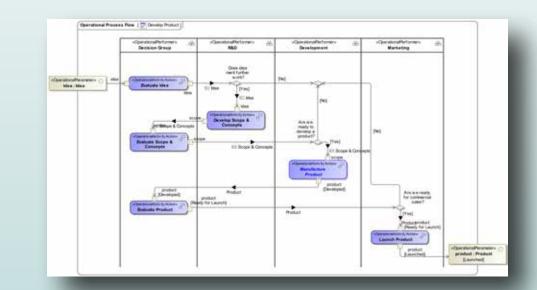


The **Operational Process Flow** diagram depicts a workflow, showing processes and information passing between processes. The diagram utilizes UML Activity Diagram notation to model Control Flow and Object Flow between Operational Activities, including decision and merge, as well as fork and join logical operators. For the modeling elements used to construct an operational process flow diagram refer to the UML Activity Diagram.

Operational Activity Action: The Operational Activity Action is defined as a call behavior action that invokes the activity that needs to be performed.



Operational Parameter: Represents inputs and outputs of an Operational Activity. It is typed by Operational Exchange Item.





Operational Constraints The **Operational Constraints (Op-Ct)** matrix specifies traditional textual operational or business rules that are constraints on the way that business is done in the enterprise.

Operational Constraint : A principle or condition that governs behavior; a prescribed guide for conduct or action.

#	- Applies To	Rule Specification	Rule Kind
1	C Develop Product(context Development)	Goal for operational efficiency: Idea to launch within 6 months	Constraint
z	If:9 Requirements Raw If:7 Integration Flaw If:5 Design Flaw If:5 Peedback If:1 Flaw	Must conform to STD-1924 for reporting product problems	StructuralAssertion

Operational States

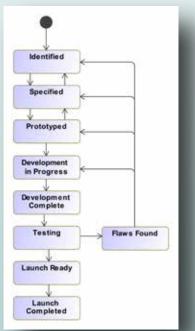
The **Operational States (Op-St)** diagram models how and why an element changes in response to the environment.

State: A description of the condition of an object in terms of the values of its various properties and relationships.

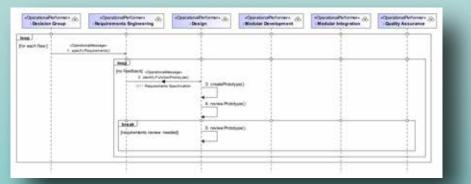
Transition: A change from one state to another, including an option Trigger, Signal, Operation Call, and guard conditions.

Initial State: A pseudo-state (solid dot) that points to the condition of the object at its inception.

Final State: A pseudo-state (bull's eye) describing a state from which the object cannot transition.



Operational Interaction Scenarios The **Operational Interaction Scenarios (Op-Is)** express a time ordered examination of the operational exchanges as a result of a particular operational scenario.



Model

Simulate

Analyze









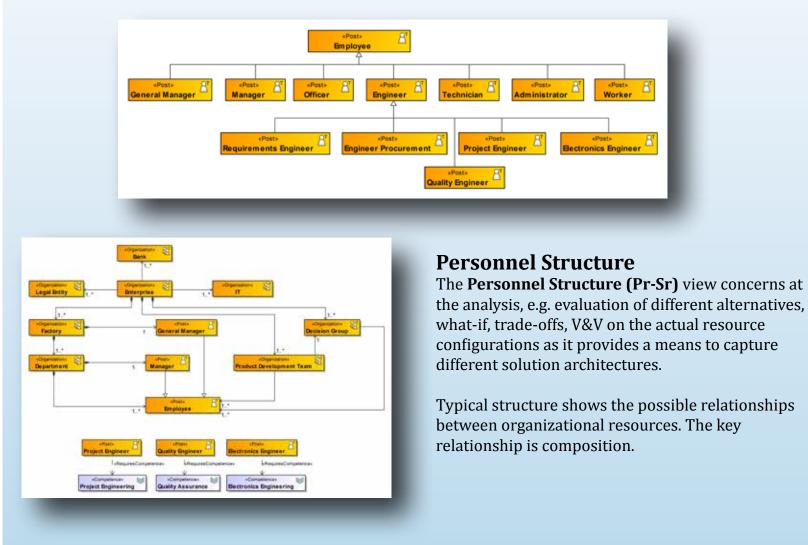
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PERSONNEL DOMAIN

The **Personnel (Pr)** viewpoint shows the human factors. It aims to clarify the role of Human Factors (HF) when creating architectures in order to facilitate both Human Factors Integration (HFI) and systems engineering (SE).

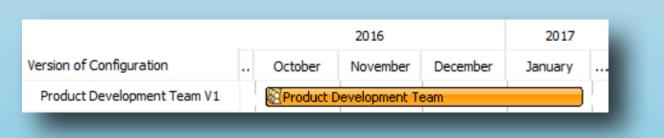
Personnel Taxonom

The **Personnel Taxonomy (Pr-Tx)** view shows the organizational resource types.



Personnel Roadmap

The **Personnel Roadmap** (Pr-Rm) view shows the staffing and training of resources. It defines the requirements and functions to ensure that actual persons with the right competencies, and in the right numbers, are available to fulfill actual posts.



and dependencies between projects. «Project» Home Appliances Project Decision Gate «StatusIndicators» DecisionKind Absent Proceed Suspend Cancel

Project Taxonomy milestones.

meet one or more Capability needs Themes.

progress of ActualProjects may be measured.

Miscoware XM1 DevelopmentHome	Misrowave XM2.De
developmentStatus = RegulementsXXI1, RegulementsXXI1, 2, DesgnXXI1, Developmen0041, ModularinegatioxXXI1, GuallipAssuranceXXI1 care < Gale XXI1, Gas2XXI1	Contractions Contr
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Washer WMI Development	Kashar Rashar WA2 Deve Applehous
developmentStatus = Requirements/WM1, Design/WM1, Development/WM1, GualityAssurence/WM1 gate = Gate1VM1, Gate2VM11	DesignWM2; DevelopmentBlatus * DesignWM2; Develop ModularHrepation/W GualtyAssuranceWM gate * Gate WM2; C

The **Resources (Rs)** domain concerns at definition of solution architectures to implement operational requirements. It captures a solution architecture consisting of resources, e.g. organizational, software, artifacts, capability configurations, natural resources that implement the operational requirements.

	Product Developer	nent de
Causing Correst		2
	Cases Configuration	
	ManufacturingConfiguration	
Construction of the line	Castro Contractor	
	Microwave XM Series Development	
ovvectional Mint	Server XX Series Manufacturing XS menufacturingConfiguration	
	Convectional Microwave XS Series Development	ė.
1000		

Resource Taxonomy

The **Resource Taxonomy (Rs-Tx)** view shows the taxonomy of types of resources and the flows of resources among them.

Capability Configuration: A composite structure representing the physical and human resources (and their interactions) in an enterprise, assembled to meet a capability.

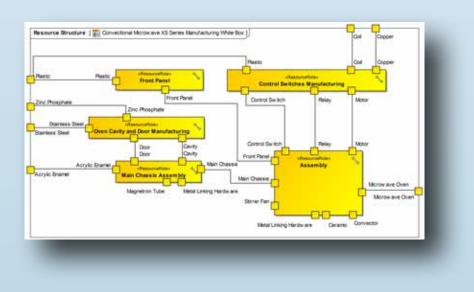
Resource Structure

The **Resource Structure (Rs-Sr)** view concerns at reference the resource structure, connectors and interfaces in a specific context. It defines the physical resources, e.g. capability configuration(s)/system(s) and interactions necessary to implement a specific set of Operational Performer(s). Can be used to represent communications networks and pathways that link communications resources and provides details regarding their configuration.

Resource Role: Usage of a Resource Performer in the context of another Resource Performer. Creates a whole-part relationship. **Resource Port:** Port is an interaction point for a resource through which it can interact with the outside environment and which is defined by a Resource Interface.

Resource Connector: A channel for exchange between two Resource Roles. **Resource Interface:** A contractual agreement between two resources. It is also intended to be an implementation of a specification of an Interface in the Business and/or Service layer. **Resource Exchange:** Asserts that a flow can exist between resources (i.e.

flows of data, people, material, or energy).



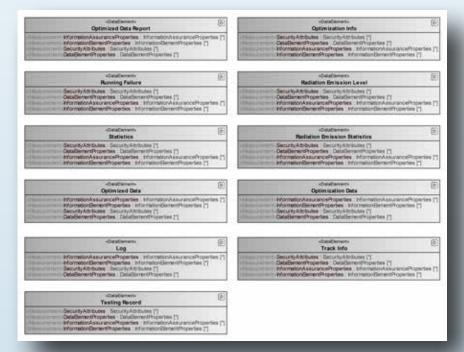
Resource Connectivity

The **Resource Connectivity (Rs-Cn)** matrix summarizes the interactions between resources. It summarizes interactions between resources of information, systems, personnel, natural resources etc. and the functions that produce and consume them. Measurements can optionally be included.



Resource Information

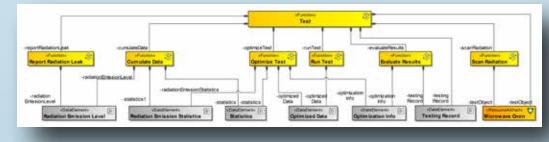
The **Resource Information (Rs-If)** view shows the information perspective on resource architecture. It allows analysis of an architecture's information and data definition aspect, without consideration of implementation specific issues.

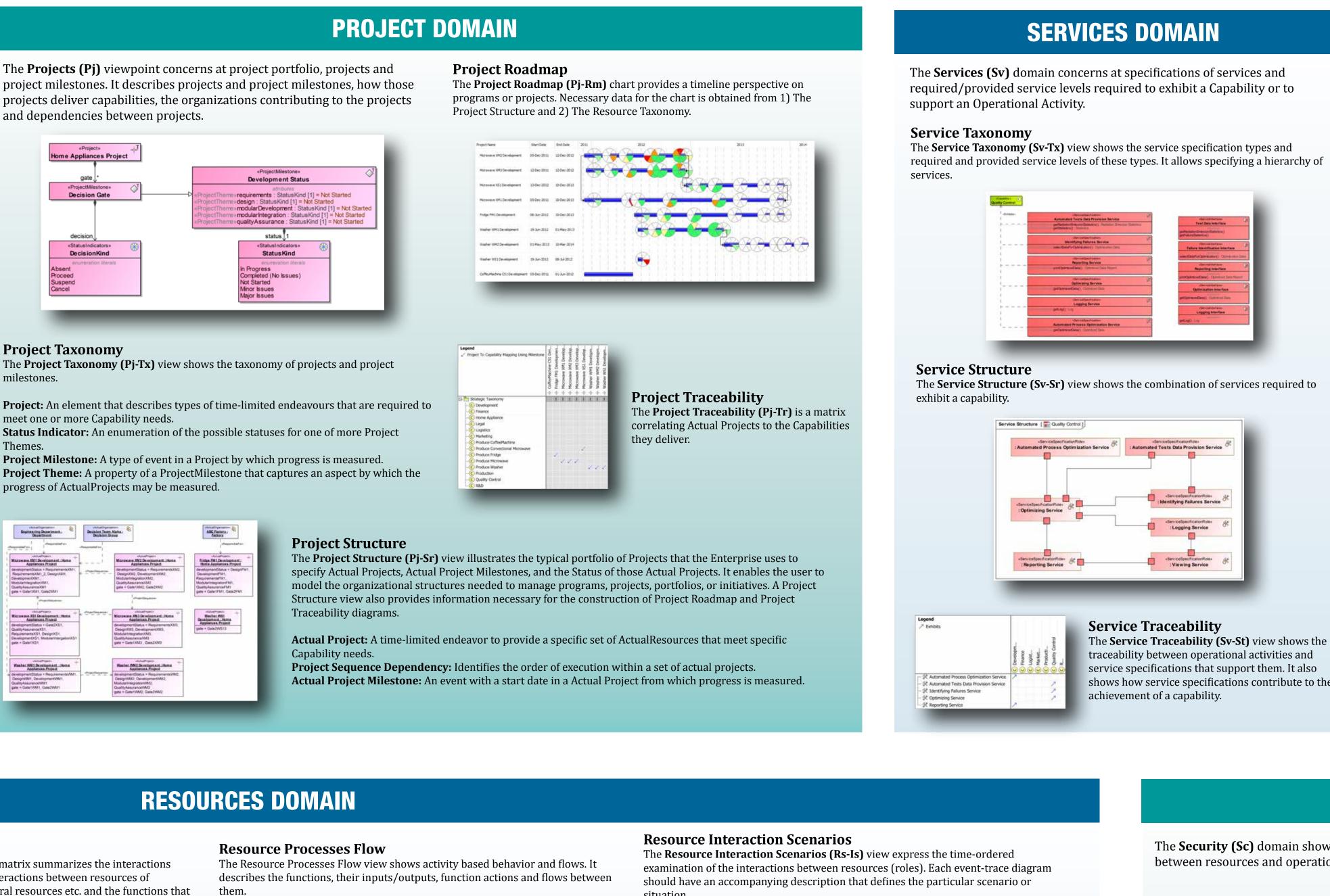


Resource Processes

The **Resource Processes (Rs-Pr)** diagram describes the functions that are normally conducted in the course of implementing operational activities in support of capabilities.

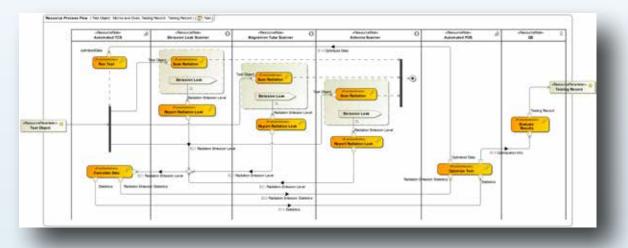
Function: An Activity which is specified in the context of the Resource Performer (human or machine) that Is Capable Of Performing it.





Function Action: The Function Action is defined as a call behavior action that invokes the Function that needs to be performed by a Resource Role in a specific

Resource Parameter: A type that represents inputs and outputs of the Function. It is typed by a Resource Interaction Item.

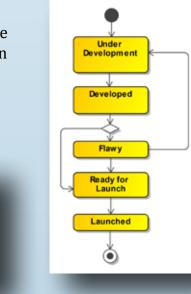


Resource Constraints

The **Resource Constraints (Rs-Ct)** matrix define limitations, constraints and performance parameters for resources, their interactions, performed functions, and data. It specifies traditional textual rules/non-functional requirements.

Resource Constraint: A rule governing the structural or functional aspects of an implementation

#	 Applies To 	Rule Specification	Rule Kind
1	Microwave XM Series Microwave	Power consumption for the complete device cannot exceed 100 Wats	Constraint



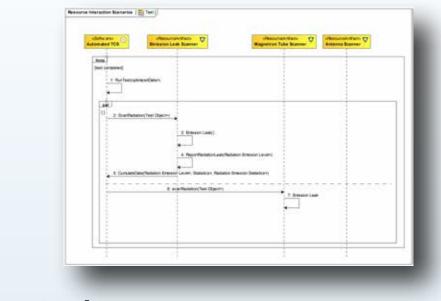
Resource States

The **Resource States (Rs-St)** view shows state-based behavior of a resource. It represents how the resource responds to various events and actions by changing the state. Each transition specifies an event and an action.

State: A description of the condition of an object in terms of the values of its various properties and relationships. **Transition:** A change from one state to another, including an option Trigger, Signal, Operation Call, and guard

Initial State: A pseudo-state (solid dot) that points to the condition of the object at its inception. Final State: A pseudo-state (bull's eye) describing a state from which the object cannot transition.

situation.

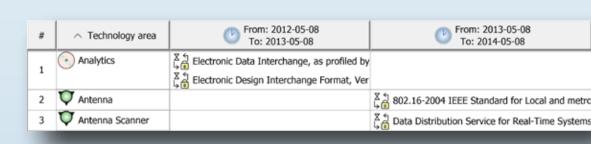


Resource Roadmap

The **Resource Evolution (Rs-Rm)** diagram view shows the resource structure changes over time.

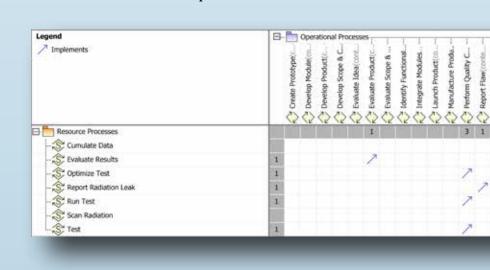
				CO AN-			
Version of Configuration		January-March	April-June	July-September	October-December	January-March	April-June
Microwave XM V1		Microwave XM S	enes Development				
Microwave XS V1		1.1		1 2 6 1	10.01	Convectional Micro	wave XS Series I
	_			1 1 1			

The **Resource Forecast (Rs-Rm)** table shows the technology forecast. It defines the underlying current and expected supporting technologies.



Resource Traceability

The **Resource Traceability (Rs-Tr)** view shows at traceability between operational activities and functions that implements them.



2013

The Service Traceability (Sv-St) view shows the traceability between operational activities and service specifications that support them. It also shows how service specifications contribute to the

STANDARDS DOMAIN

The **Standards (Sd)** viewpoint concerns at technical and non-technical Standards applicable to the architecture.

Standard Taxonomy

The **Standards Taxonomy (Pj-Tx)** view concerns at technical and non-technical standards, guidance and policy applicable to the architecture. It shows the taxonomy of types of technical, operational, and business standards, guidance and policy applicable to the architecture.

	#	 System element 	Standard / Policy
	1	Radiation	^X 히 ISO 361
	2	Plastic	ន្ត្រ៍ ISO 11357
	3	Microwave XM Series Manufacturing	ୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁୁ ଅତ୍ୟୁର୍ଗ୍ମ ISO 10003:2007 ଅଟି ISO 28000
	4	V Microwave Oven	ጄ ነ ISO 9001:2008 ጄ ነ ISO 10003:2007
	5	🔊 Microwave Development	पूर्व ISO 10003:2007 दूर्व ISO 9001:2008 दूर्व ISO 28000
	6	🔊 Marketing Configuration	Kan ISO 10003:2007
	7	Convectional Microwave XS Series Manufacturing	よう ISO 9001:2008 よう ISO 28000 ^変 気 ISO 10003:2007
	10		^포 취 ISO 10003:2007

Standard Roadmap

The Standards Roadmap (Sd-Rm) view concerns at expected changes in technologyrelated standards and conventions, operational standards, or business standards and conventions. It defines the underlying current and expected standards. Expected standards are those that can be reasonably forecast given the current state of technology, and expected improvements/trends.

One of the prime purposes of this model is to identify critical technology standards, their fragility, and the impact of these standards on the future development and maintainability of the architecture and its constituent elements.

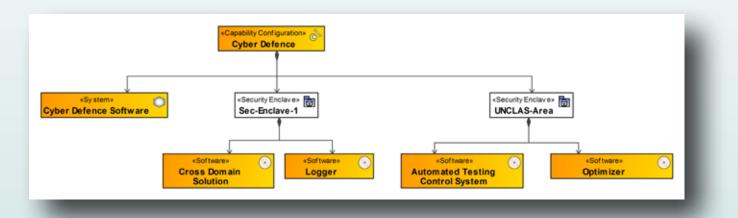
#	Technology area	Prom: 2012-06-19 To: 2013-06-19	Prom: 2013-0 To: 2014-06
1	⊈a ISO 9001:2008	ដ្តុត្តិ ISO 9001:2008	ន្ត្រី ISO 9004:200 ន្ត្តី ISO 9001:200
2	∑∰ ISO 28000	ដ្តុំ ISO 28000	ୟୁର୍ବ ISO 2801:200 ୟୁର୍ବ ISO 28000

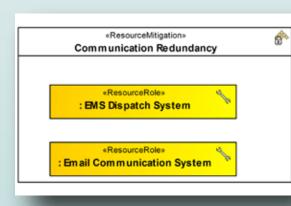
SECURITY DOMAIN

The **Security** (Sc) domain shows the security constraints and information assurance attributes that exist on exchanges between resources and operational performers.

Security Taxonomy

The **Security Taxonomy (Sc-Tx)** view shows the security assets and security enclaves. It defines the hierarchy of security assets and asset owners that are available to implement security, security constraints (policy, guidance, laws and regulations) and details where they are located (security enclaves).



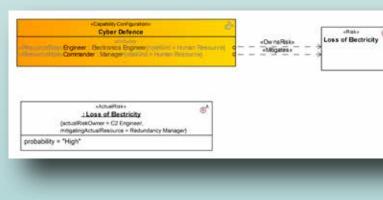


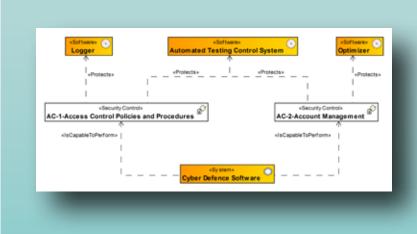
Security Structure

The **Security Structure (Sc-Sr)** view shows the structure of security information and where it is used at the operational and resource level. It captures the allocation of assets (operational and resource, information and data) across the security enclaves, shows applicable security controls necessary to protect organizations, systems and information during processing, while in storage, and during transmission. This view also captures Asset Aggregation and allocates the usage of the aggregated information at a location through the use of the Security Property.

Security Constraints

The **Security Constraints (Sc-Ct)** view shows the security-related policy, guidance, laws and regulations as applicable to resources. A common way of representing access control policy is through the use of XACML (eXtensible Access Control Markup Language), it is expected that implementations of UAF allow users to link security constraints to external files represented in XACML.





Security Processes

The **Security Processes (Sc-Pr)** view shows the specification of the Security Control families, security controls, and measures required to address a specific security baseline.

Model

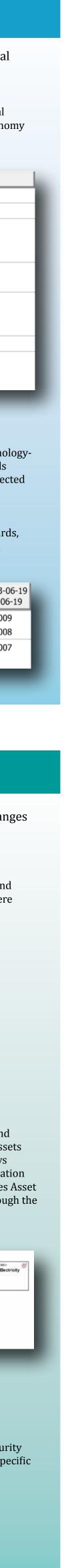
Simulate

Analyze

Execute

Validate/Score





Nov 2016 rev1