

# SAIC DE Profile

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## **DE Profile Validation Rules**

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**Activity Diagram Integrity**

**Completeness**

**Flow Integrity**

**Forbidden Elements**

**Interface Integrity**

**Parametric Element Integrity**

**Requirements**

**Sequence Diagram Integrity**

**State Machine Integrity**

**Structural Integrity**

**System Context Integrity**

**Use Case Integrity**

## **SAIC DE Profile**

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**Customizations**

**Customization stereotypes**

**Macros**

**Stereotypes**

**Architecture Stereotypes**

**Units**

**Value Types**

# Appendix A: Diagram

## Customizations

NA

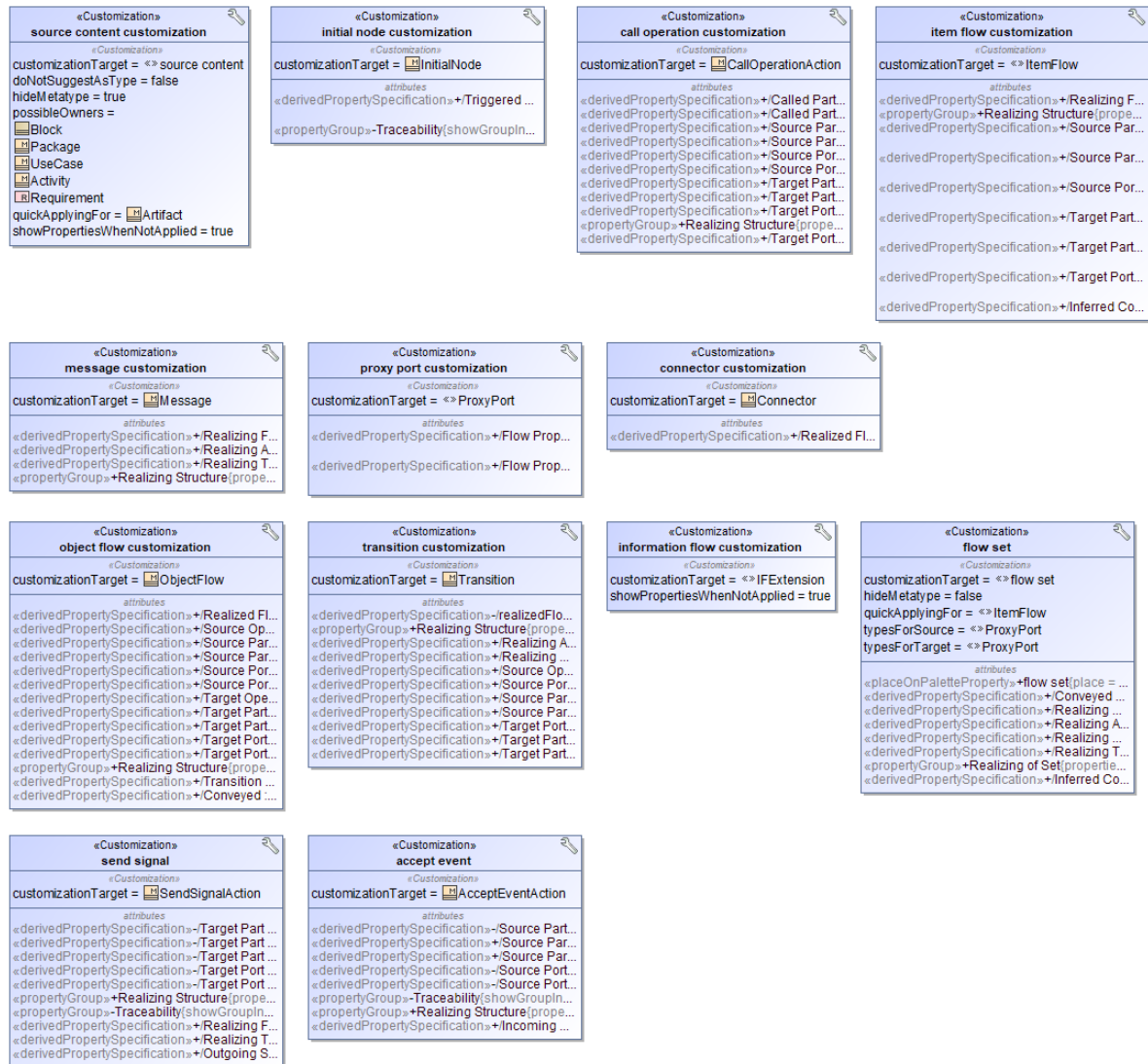


Figure 1. Customizations

## SAIC DE Profile

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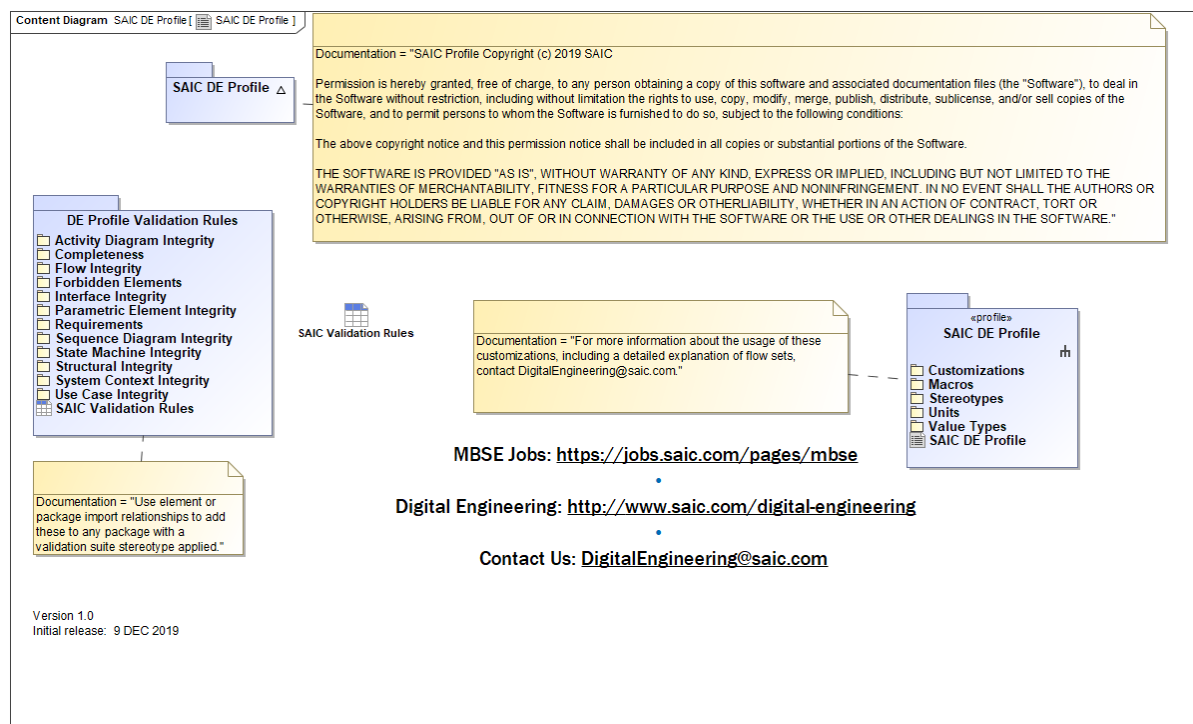


Figure 2. SAIC DE Profile

## SAIC Validation Rules

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#	Name	Abbreviation	Owner	Constrained Element	Severity	Error Message
1	( ) NOATTACHMENT	NOATTACHMENT	Forbidden Elements	AttachedFile [Comment]	error	Embedding files in the model is not allowed. Use a hyperlink to an authoritative source instead (use an ar
2	( ) SRCONT	SRCONT	Completeness	source content [Artifact]	error	All source content elements must have either a file name or hyperlink.
3	( ) UCTRACE	UCTRACE	Use Case Integrity	UseCase	error	All use cases must have an outgoing trace, extend or refine relationship or an incoming include relationship.
4	( ) UCDOCUMENTATION	UCDOCUMENTATION	Completeness	UseCase	error	All use cases must have documentation.
5	( ) ACTREALIZATION	ACTREALIZATION	System Context Integrity	Actor	error	All actors and other use case elements must be realized by at least one part property in the structure tree.
6	( ) CONTEXTREALIZATION	CONTEXTREALIZATION	System Context Integrity	PartProperty [Property]	error	All part properties owned by system context blocks must realize one or more use case elements.
7	( ) ACTORASSOCIATIONS	ACTORASSOCIATIONS	Use Case Integrity	Actor	error	All actors and other use case elements must be associated with at least one use case.
8	( ) CONBLOODEDOCUMENTATION	CONBLOODEDOCUMENTATION	Completeness	Block [Class]	error	All blocks that type part properties of the system context must have documentation.
9	( ) OPODOCUMENTATION	OPODOCUMENTATION	Completeness	Operation	error	All operations must have documentation.
10	( ) PARATYPE	PARATYPE	Completeness	Parameter	error	All parameters owned by operations must be typed.
11	( ) PARTTYPE	PARTTYPE	Structural Integrity	PartProperty [Property]	error	All part properties must be typed.
12	( ) LOGICALARCH	LOGICALARCH	Structural Integrity	PartProperty [Property]	error	Part properties that are owned by a block with a logical stereotype must be typed by a block with a logical
13	( ) PHYSICALARCH	PHYSICALARCH	Structural Integrity	PartProperty [Property]	error	Part properties that are owned by a block with a physical stereotype must be typed by a block with a physical
14	( ) LOGICALPHYSICAL	LOGICALPHYSICAL	Structural Integrity	Block [Class]	error	Blocks cannot have both logical and physical stereotypes applied.
15	( ) INPINCON	INPINCON	Activity Diagram Integrity	InputPin	error	Input pins must have an incoming object flow (target pins are exempt from this rule).
16	( ) OUTPINCON	OUTPINCON	Activity Diagram Integrity	OutputPin	error	Output pins must have an outgoing object flow.
17	( ) OPUISAGE	OPUISAGE	Completeness	Operation	info	This operation is not used (called on an Activity or Sequence) in the model.
18	( ) PHYSTERMPARTS	PHYSTERMPARTS	Structural Integrity	physical [Class]	error	Physical blocks with ATOMIC = TRUE may not own part properties.
19	( ) LOGTERMPARTS	LOGTERMPARTS	Structural Integrity	logical [Class]	error	Logical blocks with ATOMIC = TRUE may not own part properties.
20	( ) STMTINTEGRITY	STMTINTEGRITY	State Machine Integrity	StateMachine	error	State machines may only call operations owned within their owning block's structural decomposition (owned
21	( ) REALIZEDIRECTION	REALIZEDIRECTION	Structural Integrity	Realization	error	Realization relationships between logical and physical elements must have the physical element as the
22	( ) SOFTWAREFUNCTION	SOFTWAREFUNCTION	Structural Integrity	software [Class]	info	This software element does not own any operations.
23	( ) INTBLOOCPFLOW	INTBLOOCPFLOW	Interface Integrity	InterfaceBlock [Class]	error	Interface blocks must own at least one flow property or port.
24	( ) FLOWTYPE	FLOWTYPE	Flow Integrity	FlowProperty [Property]	error	All flow properties must be typed by signals.
25	( ) PROXYPORTTYPE	PROXYPORTTYPE	Interface Integrity	ProxyPort [Port]	error	Proxy ports must be typed by interface blocks.
26	( ) ACTORDOCUMENTATION	ACTORDOCUMENTATION	Completeness	Actor	error	All actors must have documentation.
27	( ) ITEMFLOWCONVEIYED	ITEMFLOWCONVEIYED	Flow Integrity	ItemFlow [InformationFlow]	error	All item flows must convey one or more signals or be part of a flow set.
28	( ) ACTIVITYEDGEGUARD	ACTIVITYEDGEGUARD	Activity Diagram Integrity	ActivityEdge	error	All control and object flows exiting a decision node must have guards defined.
29	( ) TRANSITIONTRIGGER	TRANSITIONTRIGGER	State Machine Integrity	Transition	error	All transitions (except those exiting connection points or pseudostates) must have triggers.
30	( ) TRANSITIONCHOICE	TRANSITIONCHOICE	State Machine Integrity	Transition	error	All transitions exiting a choice must have guards defined.
31	( ) OPOWNER	OPOWNER	Structural Integrity	Operation	error	Operations must be owned by activities or blocks with context, logical, or physical stereotypes applied.
32	( ) SIGNALDOCUMENTATION	SIGNALDOCUMENTATION	Completeness	Signal	error	All signals must have documentation.
33	( ) ACTORASSOCIATION	ACTORASSOCIATION	Use Case Integrity	Association	error	Actors may not be associated with other actors.
34	( ) ACTIVITYPARAMETERSTM	ACTIVITYPARAMETERSTM	State Machine Integrity	Activity	error	State Machine Entry, Do, Exit, and Transition activities may not have parameters.
35	( ) PERFORMANCEFUNCTIONREFINE	PERFORMANCEFUNCTIONREFINE	Requirements	performanceRequirement [Class]	error	Performance requirements must refine one or more functional requirements.
36	( ) REQUIREMENTSATISFY	REQUIREMENTSATISFY	Requirements	Requirement [Class]	info	This requirement does not have any satisfy relationships. (Requirements that have blank text are exempt
37	( ) REQUIREMENTVERIFY	REQUIREMENTVERIFY	Requirements	Requirement [Class]	info	This requirement does not have at least one verify relationship. (Requirements that have blank text are
38	( ) MESSAGESIGNATURE	MESSAGESIGNATURE	Sequence Diagram Inte...	Message	error	All messages on sequence diagrams must have signatures assigned (signal or operation).
39	( ) ACTIVITYACTIONSTM	ACTIVITYACTIONSTM	State Machine Integrity	Activity	error	All activities owned by state machines must have at least one action node.
40	( ) CONTROLNODEINCOMING	CONTROLNODEINCOMING	Activity Diagram Integrity	JoinNode MergeNode	error	Joins and merges must have at least two incoming flows.
41	( ) CONTROLNODEOUTGOING	CONTROLNODEOUTGOING	Activity Diagram Integrity	ForkNode DecisionNode	error	Forks and decisions must have at least two outgoing flows.
42	( ) DECISIONNODENAME	DECISIONNODENAME	Activity Diagram Integrity	DecisionNode	error	Decision nodes must have a name (this is used to specify the decision).
43	( ) ACTIVITYINITIAL	ACTIVITYINITIAL	Activity Diagram Integrity	Activity	error	Activities that own diagrams must own one initial node and it must have one outgoing control flow.
44	( ) ACTIVITYFINAL	ACTIVITYFINAL	Activity Diagram Integrity	Activity	error	Activities that own diagrams must own one final node and it must have one incoming control flow.
45	( ) SUBMACHINECONNECTIONS	SUBMACHINECONNECTIONS	State Machine Integrity	State	error	States that are submachines must have all entry and exit points associated with connection points.
46	( ) CONNECTIONPOINTCONNECT	CONNECTIONPOINTCONNECT	State Machine Integrity	ConnectionPointReference	error	Connection points must have one transition (outgoing or incoming).
47	( ) ACTIVITYPARAMETERFLOW	ACTIVITYPARAMETERFLOW	Activity Diagram Integrity	ActivityParameterNode	error	All activity parameter nodes must have incoming or outgoing object flows.
48	( ) TIMEEVENTWHEN	TIMEEVENTWHEN	State Machine Integrity	Transition	error	All transitions triggered by time events must have WHEN defined.
49	( ) CHANGEEVENTEXPRESSION	CHANGEEVENTEXPRESSION	State Machine Integrity	Transition	error	All transitions triggered by change events must have CHANGE EXPRESSION defined.
50	( ) LIFELINETYPE	LIFELINETYPE	Sequence Diagram Inte...	lifeline	error	All lifelines must be typed by blocks.
51	( ) SEQUENCELEVEL	SEQUENCELEVEL	Sequence Diagram Inte...	Interaction	error	Sequence diagrams may not mix physical and logical lifeline types.
52	( ) OPAQUEACTIONBODY	OPAQUEACTIONBODY	Completeness	OpaqueAction	error	Opaque actions must have a BODY specified.
53	( ) CALLBEHAVIORBEHAVIOR	CALLBEHAVIORBEHAVIOR	Activity Diagram Integrity	CallBehaviorAction	error	Call behavior actions must have the called behavior specified.
54	( ) CALLOPERATIONOPERATION	CALLOPERATIONOPERATION	Activity Diagram Integrity	CallOperationAction	error	Call operation actions must have the called operation specified.
55	( ) PROXYPORT	PROXYPORT	Interface Integrity	Port	error	All ports must be proxy ports.
56	( ) LOGICALCONNFLOWS	LOGICALCONNFLOWS	Interface Integrity	Connector	info	All connectors that connect ports in the logical architecture must have at least one flow.
57	( ) LOGICALPORT	LOGICALPORT	Interface Integrity	ProxyPort [Port]	error	All proxy ports owned by blocks with the <logical> stereotype applied must be typed by interface blo
58	( ) PHYSICALPORT	PHYSICALPORT	Interface Integrity	ProxyPort [Port]	error	All proxy ports owned by blocks with the <physical> stereotype applied must be typed by interface blo
59	( ) CONNECTOREND	CONNECTOREND	Interface Integrity	Connector	error	Connector ends must be proxy ports.
60	( ) UCASSOCIATION	UCASSOCIATION	Use Case Integrity	Association	error	Use cases may not be associated with other use cases.
61	( ) ACTORNAME	ACTORNAME	Completeness	Actor	error	All actors must have names.
62	( ) FLOWSETSOURCE	FLOWSETSOURCE	Flow Integrity	flow set [InformationFlow]	error	Ports that are the source of a flow set must have flow properties compatible with the conveyed signals of
63	( ) ACTIVITYEDGESEMATCH	ACTIVITYEDGESEMATCH	Activity Diagram Integrity	ControlNode	error	Flows into and out of a control node (join, fork, merge, or decision) must be of the same type (object or c
64	( ) ACTORUSECASE	ACTORUSECASE	Use Case Integrity	Actor	error	All use case elements must be associated with at least one use case or be specialized by other actors.
65	( ) ACTPARTTYPE	ACTPARTTYPE	Activity Diagram Integrity	ActivityParameterNode	error	All activity parameter nodes must be typed by signals.
66	( ) ALLOCATIONPROHIBIT	ALLOCATIONPROHIBIT	Forbidden Elements	Allocate [Abstraction]	error	Allocations are prohibited; use realization (between levels of abstraction) or satisfy (between requiremen
67	( ) CONTEXTPARTS	CONTEXTPARTS	System Context Integrity	System context [Class]	error	System context blocks must own at least one part property.
68	( ) CONTEXTTYPE	CONTEXTTYPE	System Context Integrity	PartProperty [Property]	error	Part properties may not be typed by system context blocks; they should typically be the top-level block of
69	( ) CONVEIYTYPE	CONVEIYTYPE	Flow Integrity	ItemFlow [InformationFlow]	error	Item flows may only convey signals.
70	( ) DATASTORETYPE	DATASTORETYPE	Activity Diagram Integrity	DataStoreNode CentralBufferNode	error	Data stores must be typed by signals.
71	( ) EXTERNALPARTTYPE	EXTERNALPARTTYPE	System Context Integrity	PartProperty [Property]	error	Part properties typed by external blocks must be owned by system context or external blocks.
72	( ) FLOWDIRECTION	FLOWDIRECTION	Interface Integrity	FlowProperty [Property]	error	All flow properties must be out or inout; this ensures consistent connotation (all 1-way in flows are conq
73	( ) FLOWFINALINCOMING	FLOWFINALINCOMING	Activity Diagram Integrity	FlowFinalNode	error	All flow final nodes must have one incoming flow.
74	( ) IBDOOWNER	IBDOOWNER	Interface Integrity	Diagram	error	IBDs must be owned by a block.
75	( ) IBNOTSPECBLOCK	IBNOTSPECBLOCK	Interface Integrity	InterfaceBlock [Class]	error	Interface blocks may not specialize non-interface blocks.
76	( ) INPTITEMFLOWCONPAT	INPTITEMFLOWCONPAT	Flow Integrity	flow set [InformationFlow]	error	Flow properties of proxy ports connected by flow sets must be compatible.
77	( ) PARTTB	PARTTB	Structural Integrity	PartProperty [Property]	error	Part properties may not be typed by interface blocks.
78	( ) RECEPTIONPROHIBIT	RECEPTIONPROHIBIT	Forbidden Elements	Block [Class]	error	There is a part property loop associated with the block (a block in the structure owns a part property typ
79	( ) REFPROPHIBIT	REFPROPHIBIT	Forbidden Elements	ReferenceProperty [Property]	error	Reference properties are prohibited; use operations instead.
80	( ) SIGNALEVENTSIGNAL	SIGNALEVENTSIGNAL	Activity Diagram Integrity	SignalEvent	error	Signal Events must have a signal defined.
81	( ) SIGNALNAME	SIGNALNAME	Completeness	Signal	error	All signals must be named.
82	( ) STATEOWNER	STATEOWNER	State Machine Integrity	StateMachine	error	State machines must be owned by blocks.
83	( ) STATEREACHABILITY	STATEREACHABILITY	State Machine Integrity	State	error	All states must have at least one incoming transition.
84	( ) SWIMLANEPROHIBIT	SWIMLANEPROHIBIT	Forbidden Elements	ActivityPartition	error	Swimlanes are prohibited; see customizations for operations and flows that can display part-level owner
85	( ) TRIGGERFLOWSEMATCH	TRIGGERFLOWSEMATCH	Flow Integrity	Transition	error	The signal triggering this transition is not conveyed on any related item flows or flow sets.
86	( ) USECASENAME	USECASENAME	Completeness	UseCase	error	Use Cases must be named.
87	( ) VALUEVARIABLE	VALUEVARIABLE	Completeness	ValueProperty [Property]	error	Value properties must be named.
88	( ) VALUETYPE	VALUETYPE	Completeness	ValueProperty [Property]	error	Value properties must be typed by value types.
89	( ) FLOWSETTARGET	FLOWSETTARGET	Flow Integrity	flow set [InformationFlow]	error	Ports that are the target of a flow set must have flow properties compatible with the conveyed signals of
90	( ) ACCEPTOUTGOING	ACCEPTOUTGOING	Flow Integrity	AcceptEventAction	error	If an Accept Event outgoing object flow is realized by an item flow or flow set, the signal that triggers the
91	( ) FLOWSETENDS	FLOWSETENDS	Flow Integrity	flow set [InformationFlow]	error	If a flow set has individual flows assigned, the individual flows must connect the source and target of the
92	( ) SENDINCOMING	SENDINCOMING	Flow Integrity	SendSignalAction	error	If incoming object flows to a Send Signal event are realized by an item flow or flow set, the signal that
93	( ) MESSAGEFLOWS	MESSAGEFLOWS	Flow Integrity	Message	error	If a message is associated with item flows or flow sets, they must convey its signature signal.
94	( ) SENDSIGNALMATCH	SENDSIGNALMATCH	Activity Diagram Integrity	SendSignalAction	error	The signal sent by a send signal action must match the signal typing its input pin.
95	( ) ACCEPTEVENTPORTMATCH	ACCEPTEVENTPORTMATCH	Flow Integrity	AcceptEventAction	error	The assigned and inferred ports (via item flow realization) must match.
96	( ) OBJECTFLOWCONPAT	OBJECTFLOWCONPAT	Flow Integrity	ObjectFlow	error	If an object flow is realized by an item flow or flow set, those flows must convey the signal typing its sou
97	( ) SENDSIGNALPORTMATCH	SENDSIGNALPORTMATCH	Flow Integrity	SendSignalAction	error	The assigned and inferred ports (via item flow realization) must match.
98	( ) ACCEPTEVENTMATCH	ACCEPTEVENTMATCH	Activity Diagram Integrity	AcceptEventAction	error	The signal triggering an accept event action must match the signal typing its output pin.
99	( ) ACCEPTEVENTOUTPUT	ACCEPTEVENTOUTPUT	Activity Diagram Integrity	AcceptEventAction	error	Accept Events must own an output pin. If you are modeling a signal that triggers a state transition, ass
100	( ) ACCEPTEVENTTIMEVARIABLE	ACCEPTEVENTTIMEVARIABLE	Activity Diagram Integrity	AcceptEventAction	error	Accept events triggered by time events must have WHEN defined.
101	( ) STATEMACHINEOPERATIONS	STATEMACHINEOPERATIONS	State Machine Integrity	Operation	error	State machines may not own operations in their structure (move operation to a block or activity).
102	( ) OPERATIONNAME	OPERATIONNAME	Completeness	Operation	error	Operations must be named.
103	( ) BLOCKNAME	BLOCKNAME	Completeness	Block [Class]	error	Blocks must be named.
104	( ) ACTIVITYNAME	ACTIVITYNAME	Completeness	Activity	error	Activities must be named.
105	( ) STATENAME	STATENAME	Completeness	State	error	States must be named.
106	( ) ACTIVITYOWNS	ACTIVITYOWNS	Completeness	Activity	error	Activities must own at least one diagram or operation. If it will not be further decomposed, set its 'leaf
107	( ) REGIONNAME	REGIONNAME	Completeness	Region	error	Regions of orthogonal states must be named.
108	( ) INTERFACENEED	INTERFACENEED	Interface Integrity	ObjectFlow	info	The owners of the ends of the object flow are different and it is not realized by an item flow.
109	( ) CONSTRAINTPARAM	CONSTRAINTPARAM	Parametric Element Inte...	ConstraintBlock [Class]	error	Constraint blocks must own one or more constraint parameters.
110	( ) CONSTRAINTSPECIFICATION	CONSTRAINTSPECIFICATION	Parametric Element Inte...	Constraint	error	Constraint specifications may not be empty.
111	( ) BUFFERFLOW	BUFFERFLOW	Activity Diagram Integrity	CentralBufferNode	error	Buffers and data stores must have at least one object flow (incoming or outgoing).
112	( ) EXTENDEDPOINT	EXTENDEDPOINT	Use Case Integrity	Extend	error	Extend relationships must be assigned to at least one extension point.
113	( ) PACKAGENAME	PACKAGENAME	Completeness	Package	error	Packages must be named.
114	( ) REQEXTEND	REQEXTEND	Forbidden Elements	Requirement [Class]	error	Non-extended requirements are forbidden.
115	( ) REQTRACE	REQTRACE	Requirements	Requirement [Class]	error	Requirements must have at least one outgoing trace (to artifact) or refine relationship.
116	( ) SENDSIGNALPIN	SENDSIGNALPIN	Activity Diagram Integrity	SendSignalAction	error	Send signal actions must have at least one input pin.
117	( ) OBJECTFLOWENDS	OBJECTFLOWENDS	Activity Diagram Integrity	ObjectFlow	error	Object flows must have non-output pins as their source/target (no direct connection with send or accep
118	( ) CALLBEHAVIORSELF	CALLBEHAVIORSELF	Activity Diagram Integrity	CallBehaviorAction	error	Call behavior actions may not call the activity that owns them.
119	( ) TRANSITIONTRIGGERFLOW	TRANSITIONTRIGGERFLOW	State Machine Integrity	Transition	info	This transition is triggered by a signal but is not associated with any item flows or flow sets.
120	( ) MESSAGEFLOWNEEDED	MESSAGEFLOWNEEDED	Sequence Diagram Inte...	Message	info	This message signature is a signal and is not realized by any item flows or flow sets.
121	( ) FLOWCONNECTOR	FLOWCONNECTOR	Flow Integrity	InformationFlow	error	This flow is not realized by any connectors.
122	( ) ACTIVITYDOCUMENTATION	ACTIVITYDOCUMENTATION	Completeness	Activity	error	All activities must have documentation.
123	( ) STATEDOCUMENTATION	STATEDOCUMENTATION	Completeness	State	error	All states must have documentation.
124	( ) EXTENSIONPOINTUSE	EXTENSIONPOINTUSE	Use Case Integrity	ExtensionPoint	error	Extension points must be associated with at least one Extend relationship.
125	( ) OBJFLOWSOURCE	OBJFLOWSOURCE	Activity Diagram Integrity	ObjectFlow	error	Object flows must have pins as their source (not call operations or call behaviors).

Figure 3. SAIC Validation Rules

## Stereotypes

NA






#	△ Name	Metaclass	Documentation
1	<> conceptual	 Class	Stereotype applied to elements of the conceptual architecture.
2	<> context	 Class	Stereotype applied to context elements.
3	<> logical	 Class	Stereotype applied to elements of the logical architecture.
4	<> physical	 Class	Stereotype applied to elements of the physical architecture.
5	<> software	 Class	This stereotype is applied to a block that represents a software element in the system.

Figure 4. Stereotypes