BW Project Analyzer, (c) The Raccoon Framework



## Analysis

This report was generated for Business Works Designer project located in the folder

Analyzed 47 Process Definitions of which 12 have process starters and 3 are spawned. A total of 258 activities were reviewed.

processDefinition	/CheckPoint Issues/Checkpoint A (BW-Checkpoint-001).process
processberiniteron	<pre>/ InstanceNamingMaxLength</pre>
<u> </u>	
	The process named "Checkpoint A (BW-Checkpoint-001).process" is too long. Use shorter names for improved
	performance.
8	VINNECESSARYRedundantCheckpoints
<b>•</b>	
	Redundant checkpoints from activity "Start" by activities "Checkpoint-1", "Checkpoint-2", replace with single
	checkpoint. Unnecessary checkpointing impacts performance.
•	✓ HighCheckPointRatio
	The checkpoint to activity ratio (40%) in quite high, consider using less checkpoints for performance
	reasons. Design of process should reviewed by BW Architect.
processDefinition	/CheckPoint Issues/Checkpoint B (BW-Checkpoint-002).process
	InstanceNamingMaxLength
	The process named "Checkpoint B (BW-Checkpoint-002).process" is too long. Use shorter names for improved performance.
8	♥ NoneRepeatableCheckpointExecution
	Parallel execution of checkpoint named "Checkpoint" with activities "Log" may lead to unexpected and none repeatable behaviour.
processDefinition	/CheckPoint Issues/Checkpoint C (BW-Checkpoint-001 and BW-Checkpoint-002).process
	InstanceNamingMaxLength
	The process named "Checkpoint C (BW-Checkpoint-001 and BW-Checkpoint-002).process" is too long. Use shorter
	names for improved performance.
8	NoneRepeatableCheckpointExecution
<b>•</b>	
	Parallel execution of checkpoint named "Checkpoint-2" with activities "Checkpoint-1", "Null" may lead to unexpected and none repeatable behaviour.
1	

8	UnnecessaryRedundantCheckpoints
	Redundant checkpoints from activity "Start" by activities "Checkpoint-1", "Checkpoint-2", replace with single checkpoint. Unnecessary checkpointing impacts performance.
<u>^</u>	✓ HighCheckPointRatio
	The checkpoint to activity ratio (29%) in quite high, consider using less checkpoints for performance reasons. Design of process should reviewed by BW Architect.
processDefinition	/CheckPoint Issues/Starter A (BW-CheckPoint-003).process
<u>^</u>	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
1	StarterWithNoErrorHandling
	Starter "Timer" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
processDefinition	/CheckPoint Issues/Starter B (BW-CheckPoint-004).process
1	ProcessNotAlwaysCheckpointed
	Not all execution paths leaving starter "Timer" via "Null-1" reach a checkpoint. Design of process should reviewed by BW Architect.
1	StarterWithNoErrorHandling
	Starter "Timer" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
processDefinition	/Design/Check Params Complex Type.process
(پ	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "Start" is named "root". Consider assigning a more meaningful name to the root element.

٩	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "End" is named "root". Consider assigning a more meaningful name to the root element.
4	ProcessEndpointElementConfusing
	Process Endpoint activity named "End" contains an any element mixed with none any elements at the node named any. Consider creating a complex element containing only the any element.
processDefinition	/Design/Check Params Simple Type.process
<b></b>	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "Start" is named "root". Consider assigning a more meaningful name to the root element.
•	ProcessEndpointNotDesignedForExtension
	Process Endpoint activity named "Start" presents an element of type "xsd:string". Consider using a complex element named "Input" containing the element of type "xsd:string" for more flexibility.
processDefinition	/Design/Double Group.process
Q	Y ProcessDefinitionVeryConfusing
	Looks as if we have a serious challenger "[42%:126%]/[19]" for the Yucky Yuck BW Process Design Awards. Master Skywalker had better keep a lookout
<u>^</u>	Y ProcessWithMultipleNestedLoops
	Process definition contains too many nested loop groups, depth of nesting for "Group" is 2. Consider refactoring process definition.
<u>^</u>	Y ProcessWithMultipleNestedLoops
	Process definition contains too many nested loop groups, depth of nesting for "Group (1)" is 2. Consider refactoring process definition.
<u>^</u>	Y ProcessWithMultipleLoops

	Process definition contains too more loss means (5) consider references definition
	Process definition contains too many loop groups (5), consider refactoring process definition.
processDefinition	/ErrorHandling/Error Handling.process
<u>^</u>	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
8	BranchOutLogicToErrorActivityConfusing
	There are conditional and none conditional transitions leaving "Group" of which one leads to the generate error activity named "Generate Error" via "Null". This is a design flaw and will lead to issues at runtime. The transition(s) to "Null", "End" should be conditional.
processDefinition	/ErrorHandling/No Suspend (BW-Design-009).process
A	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
8	BranchOutLogicToErrorActivityConfusing
	There are conditional and none conditional transitions leaving "Group" of which one leads to the generate error activity named "Generate Error" via "Group With No Suspend". This is a design flaw and will lead to issues at runtime. The transition(s) to "Group With No Suspend", "End" should be conditional.
<u>^</u>	ErrorGroupWithNoSuspend
	The error group "Group With No Suspend" doesn't suspend the engine if there are issues. It is recommended to consider using the "suspend (if still error)" feature.
A	ErrorGroupWithNoSuspend
	The error group "Group" doesn't suspend the engine if there are issues. It is recommended to consider using the "suspend (if still error)" feature.
processDefinition	/ErrorHandling/Transitions To Error A (BW-Transition-003).process
<u>^</u>	1 InstanceNamingMaxLength
(Annual Contraction of the Contr	

The process named "Transitions To Error A (BW-Transition-003).process" is too long. Use shorter name improved performance.         Image: BranchOutLogicToErrorActivityConfusing	es for
There are conditional and none conditional transitions leaving "Do Something" of which one leads to generate error activity named "Generate Error" via "Null". This is a design flaw and will lead to is runtime. The transition(s) to "Null" should be conditional.	
processDefinition /ErrorHandling/Transitions To Error B (BW-Transition-003).process	
InstanceNamingMaxLength	
The process named "Transitions To Error B (BW-Transition-003).process" is too long. Use shorter name improved performance.	es for
8 BranchOutLogicToErrorActivityConfusing	
There are conditional and none conditional transitions leaving "Do Something" of which one leads to generate error activity named "Generate Error" via "Null". This is a design flaw and will lead to is runtime. The transition(s) to "Null", "End" should be conditional.	
processDefinition /Listen Advisory Complete.process	
EventReceivedNotConfirmed	
Wait activity named "Listen Advisory" using transport "/RvCM Pub.rvtransport" isn't confirmed.	
StarterWithNoCheckpoint	
Starter Process definition contains no checkpoints for "Listen Advisory". Design of process should r by BW Architect.	reviewed
StarterWithNoErrorHandling	
Starter "Listen Advisory" has no associated error handling group. It is recommended to consider usin "Repeat On Error" with the "suspend (if still error)" feature.	ıg a
SubscriberWithSchemaHasNoErrorHandling	
	s a

	schema.
processDefinition	/Listen Advisory Failed.process
8	EventReceivedNotConfirmed
	Wait activity named "Listen Advisory" using transport "/RvCM Pub.rvtransport" isn't confirmed.
<u>^</u>	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Listen Advisory". Design of process should reviewed by BW Architect.
	StarterWithNoErrorHandling
	Starter "Listen Advisory" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
8	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Listen Advisory" doesn't have an error transition leaving it and yet it has a schema.
processDefinition	/Naming/Naming Process Check.process
4	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "Start" is named "root". Consider assigning a more meaningful name to the root element.
processDefinition	/Send Issues/Send Reliable.process
<u>^</u>	EventSentNotCertified
	Potential loss of messages by "Publish Rendezvous Message" using none Certified transport "/Rv Sub Transport.rvtransport".
processDefinition	/SendMsg.process
8	EventSentNotPreregistered
	Potential loss of messages by "Send CM message" using transport "/RvCM Pub.rvtransport" due to absence of preregistration.

<ul> <li>Potential loss of messages by "Send-CM-message-1" using transport "/RvCM Pub.rvtransport" due to absence of preregistration.</li> <li>ProcessDefinition /Spawn/Spawnee With Far Cp (BW-Checkpoint-006).process</li> <li>InstanceNamingMaxLength</li> <li>The process named "Spawnee With Far Cp (BW-Checkpoint-006).process" is too long. Use shorter names for improved performance.</li> <li>CheckpointFarAfterProcessStart</li> <li>Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".</li> <li>Spawn/Spawnee.process</li> <li>Spawn/Spawnee.process</li> <li>There are no checkpoints in process and yet it is spawned from "/Spawn/Spawner (1).process", "/Spawn/Spawner.process". Consider using a checkpoint just after "Start".</li> </ul>		
preregistration. processDefinition /Spawn/Spawnee With Far Cp (BW-Checkpoint-006).process	8	EventSentNotPreregistered
InstanceNamingMaxLength     The process named "Spawnee With Far Cp (BW-Checkpoint-006).process" is too long. Use shorter names for     improved performance.     CheckpointFarAfterProcessStart     Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".     Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".     processDefinition /Spawnee.process		
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improved performance.         improved performance. <td< th=""><th></th><th>1nstanceNamingMaxLength</th></td<>		1nstanceNamingMaxLength
<ul> <li>Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".</li> <li>Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".</li> <li>SpawndWithNoCheckpoint</li> <li>There are no checkpoints in process and yet it is spawned from "/Spawn/Spawner (1).process", "/Spawn/Spawner.process". Consider using a checkpoint just after "Start".</li> <li>SpawndWithNoCheckpoint</li> <li>(Subscriber or Wait/Confirm A (BW-Confirm-001).process</li> <li>EventReceivedNotConfirmed</li> <li>Wait activity named "Rendezvous Subscriber" using transport "/RvCM Sub 1.rvtransport" isn't confirmed.</li> <li>Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.</li> <li>Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.</li> <li>SubscriberWithSchemaHasNoErrorHandling</li> </ul>		
processDefinition       /Spawn/Spawnee.process         Image: SpawnedWithNoCheckpoint         There are no checkpoints in process and yet it is spawned from "/Spawn/Spawner (1).process", "/Spawn/Spawner.process". Consider using a checkpoint just after "Start".         processDefinition       /Subscriber or Wait/Confirm A (BW-Confirm-001).process         Image: SpawnedWithNoCheckpoint       Subscriber or Wait/Confirm A (BW-Confirm-001).process         Image: SpawnedWithNoCheckpoint       Wait activity named "Rendezvous Subscriber" using transport "/RvCM Sub 1.rvtransport" isn't confirmed.         Image: StarterWithNoCheckpoint       Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.         Image: StarterWithNoErrorHandling       Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.         Image: SubscriberWithSchemaHasNoErrorHandling       SubscriberWithSchemaHasNoErrorHandling	<u>^</u>	
SpawnedWithNoCheckpoint         There are no checkpoints in process and yet it is spawned from "/Spawn/Spawner (1).process", "/Spawn/Spawner.process". Consider using a checkpoint just after "Start".         processDefinition       /Subscriber or Wait/Confirm A (BW-Confirm-001).process         Image: StarterWithNoCheckpoint       Image: StarterWithNoCheckpoint         Image: Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.         Image: StarterWithNoErrorHandling         Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.         Image: SubscriberWithSchemaHasNoErrorHandling		Checkpoints appear to be far from "Start". Consider using a checkpoint just after "Start".
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Image: Starter WithNoCheckpoint         Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.         Image: Starter WithNoErrorHandling         Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.         Image: SubscriberWithSchemaHasNoErrorHandling	8	
Image: Construct of the system       Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.         Image: Construct of the system       StarterWithNoErrorHandling         Image: Construct of the system       Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.         Image: Construct of the system       SubscriberWithSchemaHasNoErrorHandling		Wait activity named "Rendezvous Subscriber" using transport "/RvCM Sub 1.rvtransport" isn't confirmed.
reviewed by BW Architect.         Image: StarterWithNoErrorHandling         Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.         Image: SubscriberWithSchemaHasNoErrorHandling	A	StarterWithNoCheckpoint
Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.		reviewed by BW Architect.
"Repeat On Error" with the "suspend (if still error)" feature.         SubscriberWithSchemaHasNoErrorHandling	A	StarterWithNoErrorHandling
The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a	8	SubscriberWithSchemaHasNoErrorHandling
		The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a

[	schema.
processDefinition	/Subscriber or Wait/Confirm B (BW-Confirm-001) - Corrected.process
<u>^</u>	InstanceNamingMaxLength
	The process named "Confirm B (BW-Confirm-001) - Corrected.process" is too long. Use shorter names for improved performance.
processDefinition	/Subscriber or Wait/Confirm B (BW-Confirm-001).process
8	EventReceivedNotConfirmed
	Wait activity named "Wait for Rendezvous Message" using transport "/RvCM Sub 1.rvtransport" isn't confirmed.
processDefinition	/Subscriber or Wait/Confirm C (BW-Confirm-001 and BW-Confirm-002).process
<u>^</u>	DuplicateEventConfirmation
	Potential duplicate confirmation of "Wait 1" by "Confirm 2" conflicting with activity "Confirm 1".
8	EventReceivedNotConfirmed
	Wait activity named "Wait 2" using transport "/RvCM Sub 2.rvtransport" isn't confirmed.
<u>^</u>	InstanceNamingMaxLength
	The process named "Confirm C (BW-Confirm-001 and BW-Confirm-002).process" is too long. Use shorter names for improved performance.
processDefinition	/Subscriber or Wait/Confirm D (BW-Confirm-001).process
8	EventReceivedNotConfirmed
-	Mait activity named "Rendezvous Subscriber" using transport "/RvDQ Transport.rvtransport" isn't confirmed.
<u>^</u>	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
<u>^</u>	StarterWithNoErrorHandling

	Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
8	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a schema.
processDefinition	/Subscriber or Wait/Confirm Path A (BW-Confirm-003).process
A	EventReceivedNotAlwaysConfirmed
	Not all execution paths from "Wait for Rendezvous Message" lead to the confirmation of the event. This could lead to none reproducible behaviour in the event of a crash.
<u>^</u>	1nstanceNamingMaxLength
	The process named "Confirm Path A (BW-Confirm-003).process" is too long. Use shorter names for improved performance.
processDefinition	/Subscriber or Wait/Confirm Path AeCM (BW-Confirm-003).process
8	EventReceivedNotConfirmed
	Wait activity named "Wait for Adapter Message" using transport "cm.name" isn't confirmed.
<u>^</u>	SourceNamingMaxLength
	The process named "Confirm Path AeCM (BW-Confirm-003).process" is too long. Use shorter names for improved performance.
processDefinition	/Subscriber or Wait/Confirm Path AeCM 2 (BW-Confirm-003).process
<u>^</u>	EventReceivedNotAlwaysConfirmed
	Not all execution paths from "Wait for Adapter Request" lead to the confirmation of the event. This could lead to none reproducible behaviour in the event of a crash.
A	1 InstanceNamingMaxLength
	The process named "Confirm Path AeCM 2 (BW-Confirm-003).process" is too long. Use shorter names for improved performance.
)	

processDefinition	(Subgeniber or Weit/Confirm Deth JeDO (DW Confirm 002) process
processDefinition	/Subscriber or Wait/Confirm Path AeDQ (BW-Confirm-003).process
	InstanceNamingMaxLength
	The process named "Confirm Path AeDQ (BW-Confirm-003).process" is too long. Use shorter names for improved
	performance.
processDefinition	/Subscriber or Wait/Reliable Listener.process
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
<u>^</u>	StarterWithNoErrorHandling
	Starter "Rendezvous Subscriber" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
8	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a schema.
processDefinition	/Transitions/Test/Parallel Run.process
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
	StarterWithNoErrorHandling
	Starter "Timer" has no associated error handling group. It is recommended to consider using a "Repeat On Error" with the "suspend (if still error)" feature.
processDefinition	/Transitions/Too Complex B (BW-Design-002 and BW-Transition-003).process
<b>Q</b>	Y ProcessDefinitionConfusing
	Looks as if we have a good candidat "[0%:125%]/[16]" for the Yucky Yuck BW Process Design Awards

	TransitionFanOutComplexity
	There are too many conditional transitions leaving "Start". This is complex to maintain and hard to verify that the expressions of the conditions are correct.
<u>^</u>	BranchOutLogicConfusing
	There are conditional and none conditional transitions leaving "Start" this could be a design flaw. None conditional transitions are going to "Null-4", "Null-11", "Null-9", "Null-7", "Null-5", "Null-1".
	InstanceNamingMaxLength
	The process named "Too Complex B (BW-Design-002 and BW-Transition-003).process" is too long. Use shorter names for improved performance.
processDefinition	/Transitions/Too Many A (BW-Design-001) - Corrected.process
<u>^</u>	1 InstanceNamingMaxLength
	The process named "Too Many A (BW-Design-001) - Corrected.process" is too long. Use shorter names for improved performance.
processDefinition	/Transitions/Too Many A (BW-Design-001).process
4	Y ProcessDefinitionConfusing
	Looks as if we have a good candidat "[0%:105%]/[17]" for the Yucky Yuck BW Process Design Awards
	TransitionFanInContentionIssue
	There are many transitions arriving at "End". Consider introducing intermediate checkpoints between "End" and "Null", "Null-1", "Null-2", "Null-3", "Null-4", "Null-5", "Null-6", "Null-7", "Null-8", "Null-9", "Null-10", "Null-11". If these activities are checkpoints then there is probably a more general design issue here.
processDefinition	/Transitions/Too Many B (BW-Design-002).process
4	ProcessDefinitionConfusing
	Looks as if we have a good candidat "[0%:125%]/[16]" for the Yucky Yuck BW Process Design Awards
<u>^</u>	TransitionFanOutComplexity

There are many transitions leaving "Start", the design should be reviewed as it impacts performs scalability and maintainability of the process.         processDefinition       /Transitions/Transition Logic A (BW-Transition-001).process         Image: Start and Control of the process named "Transition Logic A (BW-Transition-001).process" is too long. Use shorter name improved performance.         processDefinition       /Transitions/Transition Logic B (BW-Transition-001).process" is too long. Use shorter name improved performance.         processDefinition       /Transitions/Transition Logic B (BW-Transition-002).process         Image: Start and Conditional and none conditional transitions leaving "Start" this could be a design floor of the process of the transitions are going to "None Conditional Destination".	
InstanceNamingMaxLength         The process named "Transition Logic A (BW-Transition-001).process" is too long. Use shorter name improved performance.         processDefinition       /Transitions/Transition Logic B (BW-Transition-002).process         Image: Start = 100 mark       BranchOutLogicConfusing         There are conditional and none conditional transitions leaving "Start" this could be a design fl conditional transitions are going to "None Conditional Destination".	es for
The process named "Transition Logic A (BW-Transition-001).process" is too long. Use shorter name improved performance.          processDefinition       /Transitions/Transition Logic B (BW-Transition-002).process         Image: Start = 1000 mark       BranchOutLogicConfusing         Image: Start = 1000 mark       There are conditional and none conditional transitions leaving "Start" this could be a design floor for the start = 1000 mark         Image: Start = 1000 mark       There are going to "None Conditional Destination".	es for
<pre>improved performance. processDefinition /Transitions/Transition Logic B (BW-Transition-002).process</pre>	es for
BranchOutLogicConfusing There are conditional and none conditional transitions leaving "Start" this could be a design fl conditional transitions are going to "None Conditional Destination".	
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	Law. None
InstanceNamingMaxLength	
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processDefinition /Wait Sub 1.process	
StarterWithNoCheckpoint	
Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of proces reviewed by BW Architect.	s should
StarterWithNoErrorHandling	
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SubscriberWithSchemaHasNoErrorHandling	
The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and schema.	yet it has a
processDefinition /Wait Sub 2.process	
processmentificion / wart aud z.process	

	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
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