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
	InstanceNamingMaxLength
	The process named "Checkpoint A (BW-Checkpoint-001).process" is too long. Use shorter names for improved performance.
	UnnecessaryRedundantCheckpoints
	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.
	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.
	NoneRepeatableCheckpointExecution
	Parallel execution of checkpoint named "Checkpoint-2" with activities "Checkpoint-1", "Null" may lead to unexpected and none repeatable behaviour.

	UnnecessaryRedundantCheckpoints
	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 (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
	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	/CheckPoint Issues/Starter B (BW-CheckPoint-004).process
	ProcessNotAlwaysCheckpointed
	Not all execution paths leaving starter "Timer" via "Null-1" reach a checkpoint. 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	/Design/Check Params Complex Type.process
	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "Start" is named "root". Consider assigning a more meaningful name to the root element.

	ProcessEndpointRootElementNotExplicit
	The root element of Process Endpoint activity named "End" is named "root". Consider assigning a more meaningful name to the root element.
	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
	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
	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 ...
	ProcessWithMultipleNestedLoops
	Process definition contains too many nested loop groups, depth of nesting for "Group" is 2. Consider refactoring process definition.
	ProcessWithMultipleNestedLoops
	Process definition contains too many nested loop groups, depth of nesting for "Group (1)" is 2. Consider refactoring process definition.
	ProcessWithMultipleLoops

	Process definition contains too many loop groups (5), consider refactoring process definition.
processDefinition	/ErrorHandling/Error Handling.process
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
	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
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Timer". Design of process should reviewed by BW Architect.
	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.
	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.
	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
	InstanceNamingMaxLength

	The process named "Transitions To Error A (BW-Transition-003).process" is too long. Use shorter names for improved performance.
	BranchOutLogicToErrorActivityConfusing
	There are conditional and none conditional transitions leaving "Do Something" 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" 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 names for improved performance.
	BranchOutLogicToErrorActivityConfusing
	There are conditional and none conditional transitions leaving "Do Something" 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	/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 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.
	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Listen Advisory" doesn't have an error transition leaving it and yet it has a

	schema.
processDefinition	/Listen Advisory Failed.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 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.
	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
	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
	EventSentNotCertified
	Potential loss of messages by "Publish Rendezvous Message" using none Certified transport "/Rv Sub Transport.rvtransport".
processDefinition	/SendMsg.process
	EventSentNotPreregistered
	Potential loss of messages by "Send CM message" using transport "/RvCM Pub.rvtransport" due to absence of preregistration.

	EventSentNotPreregistered
	Potential loss of messages by "Send-CM-message-1" using transport "/RvCM Pub.rvtransport" due to absence of preregistration.
processDefinition	/Spawn/Spawnee With Far Cp (BW-Checkpoint-006).process
	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".
processDefinition	/Spawn/Spawnee.process
	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
	EventReceivedNotConfirmed
	Wait activity named "Rendezvous Subscriber" using transport "/RvCM Sub 1.rvtransport" isn't confirmed.
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
	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.
	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
	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
	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
	DuplicateEventConfirmation
	Potential duplicate confirmation of "Wait 1" by "Confirm 2" conflicting with activity "Confirm 1".
	EventReceivedNotConfirmed
	Wait activity named "Wait 2" using transport "/RvCM Sub 2.rvtransport" isn't confirmed.
	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
	EventReceivedNotConfirmed
	Wait activity named "Rendezvous Subscriber" using transport "/RvDQ Transport.rvtransport" isn't confirmed.
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
	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.
	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
	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.
	InstanceNamingMaxLength
	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
	EventReceivedNotConfirmed
	Wait activity named "Wait for Adapter Message" using transport "cm.name" isn't confirmed.
	InstanceNamingMaxLength
	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
	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.
	InstanceNamingMaxLength
	The process named "Confirm Path AeCM 2 (BW-Confirm-003).process" is too long. Use shorter names for improved performance.

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.
	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.
	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
	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.
	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
	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
	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
	ProcessDefinitionConfusing
	Looks as if we have a good candidat "[0%:125%]/[16]" for the Yucky Yuck BW Process Design Awards
	TransitionFanOutComplexity

	There are many transitions leaving "Start", the design should be reviewed as it impacts performance, scalability and maintainability of the process.
processDefinition	/Transitions/Transition Logic A (BW-Transition-001).process
	InstanceNamingMaxLength
	The process named "Transition Logic A (BW-Transition-001).process" is too long. Use shorter names for improved performance.
processDefinition	/Transitions/Transition Logic B (BW-Transition-002).process
	BranchOutLogicConfusing
	There are conditional and none conditional transitions leaving "Start" this could be a design flaw. None conditional transitions are going to "None Conditional Destination".
	InstanceNamingMaxLength
	The process named "Transition Logic B (BW-Transition-002).process" is too long. Use shorter names for improved performance.
processDefinition	/Wait Sub 1.process
	StarterWithNoCheckpoint
	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
	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.
	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a schema.
processDefinition	/Wait Sub 2.process
	StarterWithNoCheckpoint

	Starter Process definition contains no checkpoints for "Rendezvous Subscriber". Design of process should reviewed by BW Architect.
	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.
	SubscriberWithSchemaHasNoErrorHandling
	The subscriber activity "Rendezvous Subscriber" doesn't have an error transition leaving it and yet it has a schema.