

SO Workflow Monitoring for Casablanca

- Ericsson ONAP SO Team

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SO Workflow Monitoring Problem Statement

- SO Workflow Monitoring has been a pain point since the first ONAP SO release.
- Camunda Cockpit requires the users Workflow design/relationship knowledge for service monitoring
- Camunda Community Cockpit does NOT support workflow execution history or Search
- Users need to go through tedious manual search; finding workflow definitions, corresponding instances, so on
 - VID/UUI/Ext App Users are not necessarily BPMN designers
 - There are so many BPMN Workflows could be used for a service request execution
 - Each workflow definition can have thousands of instances
 - Not an easy way to monitor workflows not practical!

CreateVcpeResCustSErviceV2.bpmn

// for vCPE use cases

- Decompose.bpmn
- Homing.bpmn
- ReceiveAsyncCallback ReceiveWorkflowMessage.bpmn
- DoCreateServiceInstance.bpmn
- DoCreateVnfAndModules.bpmn
- GenericGetService.bpmn
- GenericGetVnf.bpmn
- GenericPutVnf.bpmn
- GenerateVfModuleName.bpmn
- DoCreateVfModule.bpmn
- ConfirmVolumeGroupTenant.bpmn
- ConfirmVolumeGroupName.bpmn
- CreateAAIVfModule.bpmn
- SdncAdapterRestV2.bpmn
- VnfAdapterRestV1.bpmn

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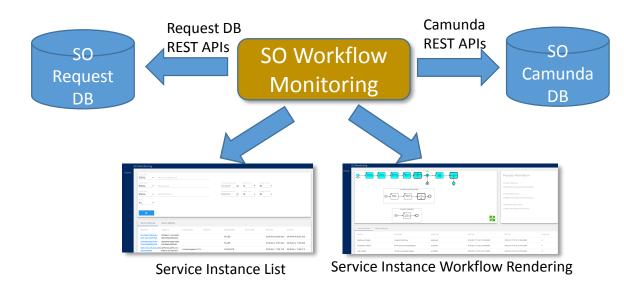
Number of Workflow Instances

* { daily transactions} *
History Retention Days

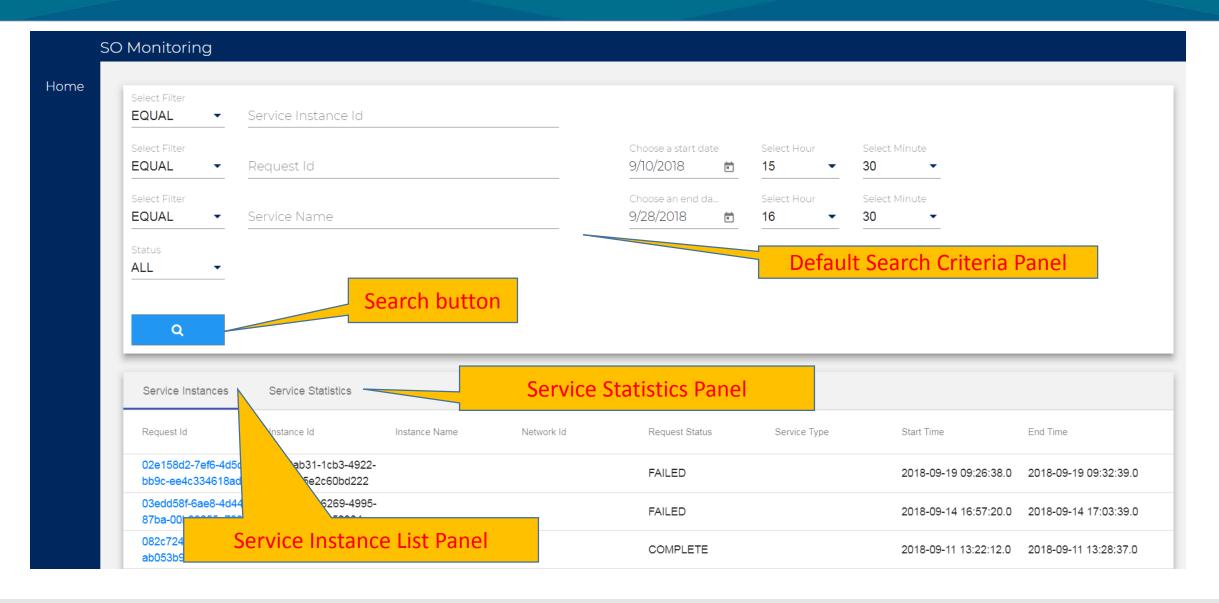


SO Workflow Monitoring Solutions

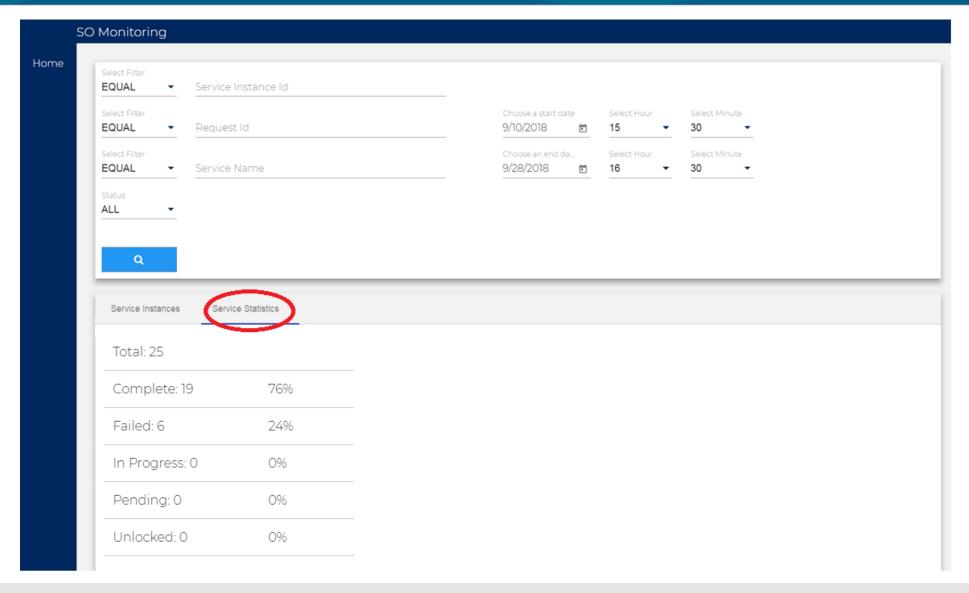
- SO Workflow Monitoring:
 - Allows SO clients (VID, UUI and External Apps) to monitor Workflows based familiar search criteria.
 - Provides search connections between service requests and workflows instances in an automated fashion
 - Navigates parent and child workflows
 - Shows color-coded workflow activity paths for trouble shooting
 - Works for both Camunda Community and Enterprise editions by leveraging existing Camunda REST APIs
- Design
 - Leverage SO Request DB and create Service Instance List
 - For a selected service instance, find corresponding Workflow instances from Camunda DB
 - By using Camunda Rest APIs, display workflow instance details (Activity Instances, Process Variables)
 - By using activity instance data, provide navigation between parent and child workflows



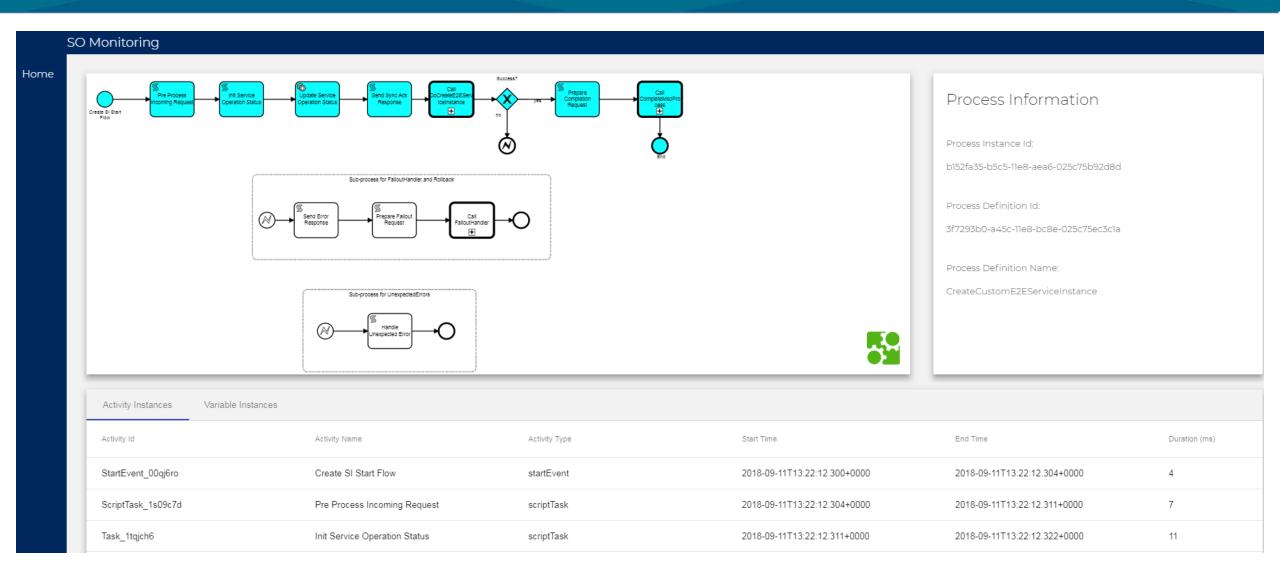
SO Workflow Monitoring - Service Instance List



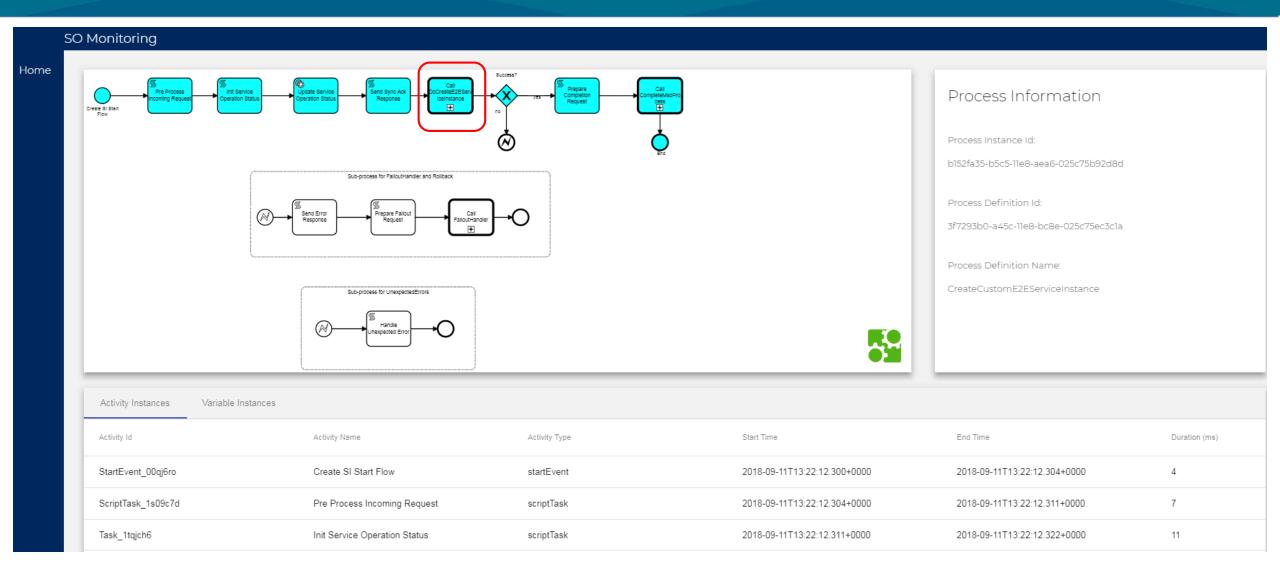
SO Workflow Monitoring – Service Statistics



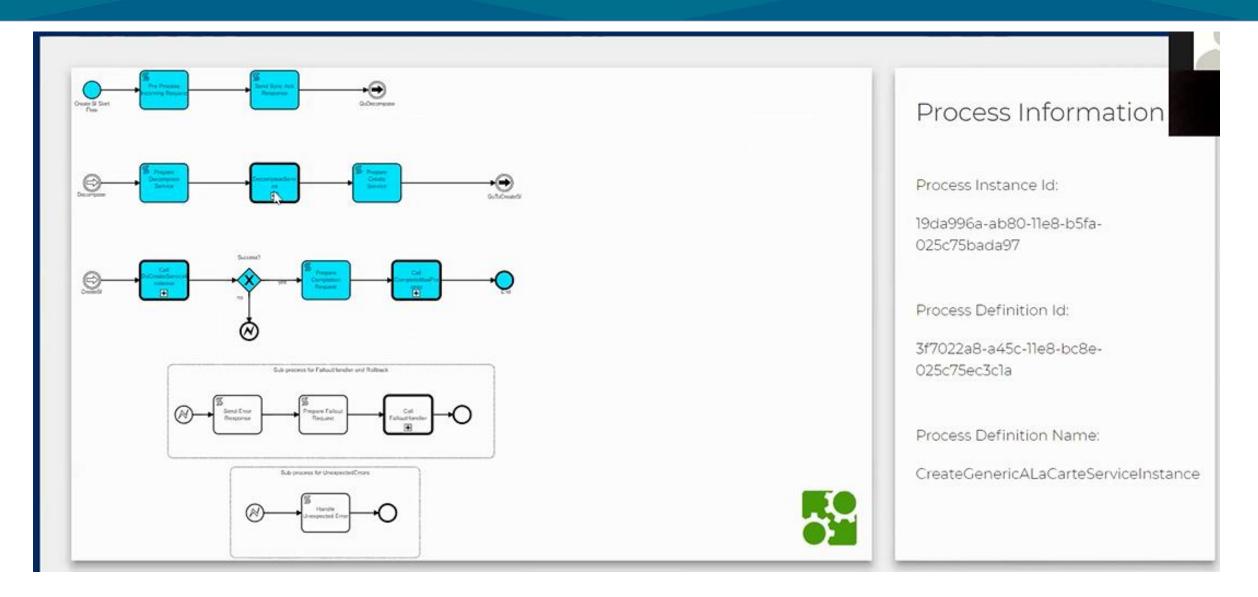
SO Workflow Monitoring - Service Instance Rendering



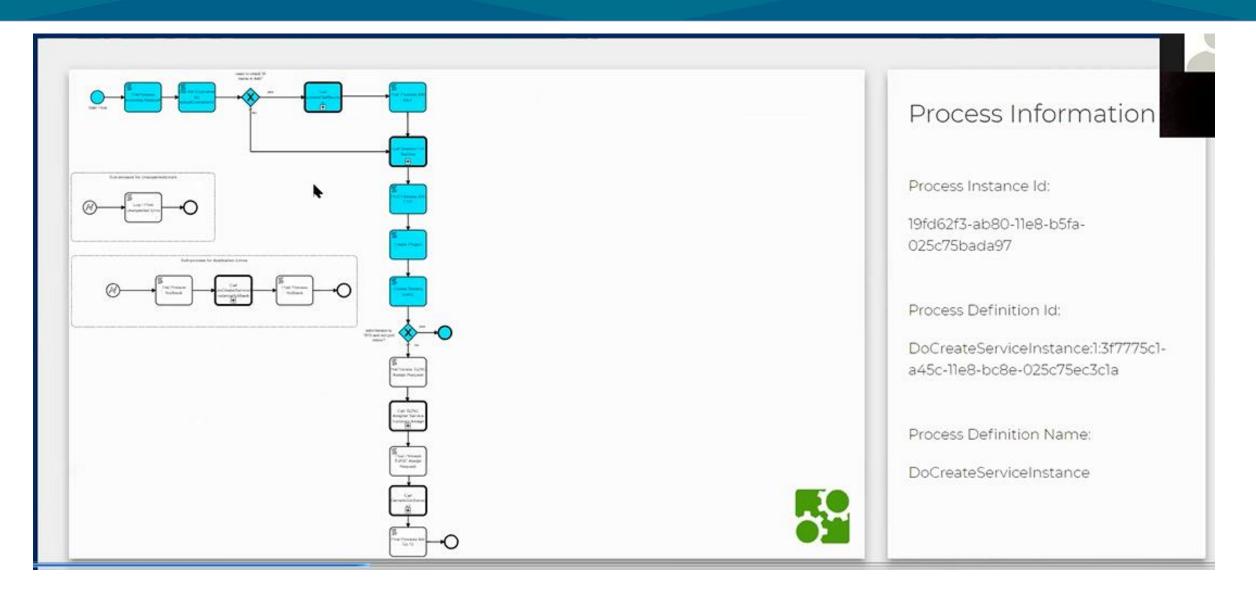
SO Workflow Monitoring – Parent-Child Navigation



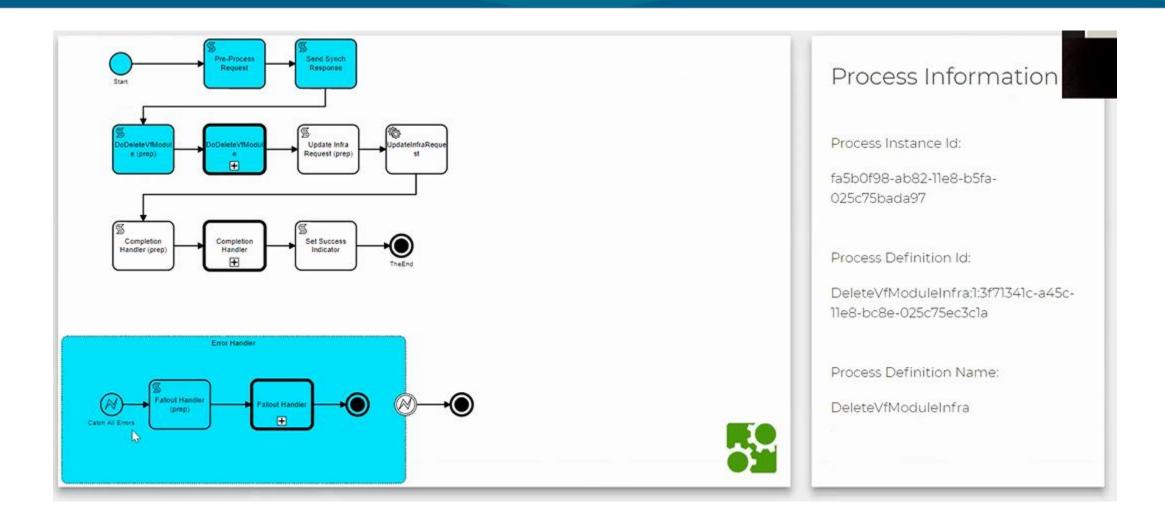
SO Workflow Monitoring – Parent-Child Drill Down...



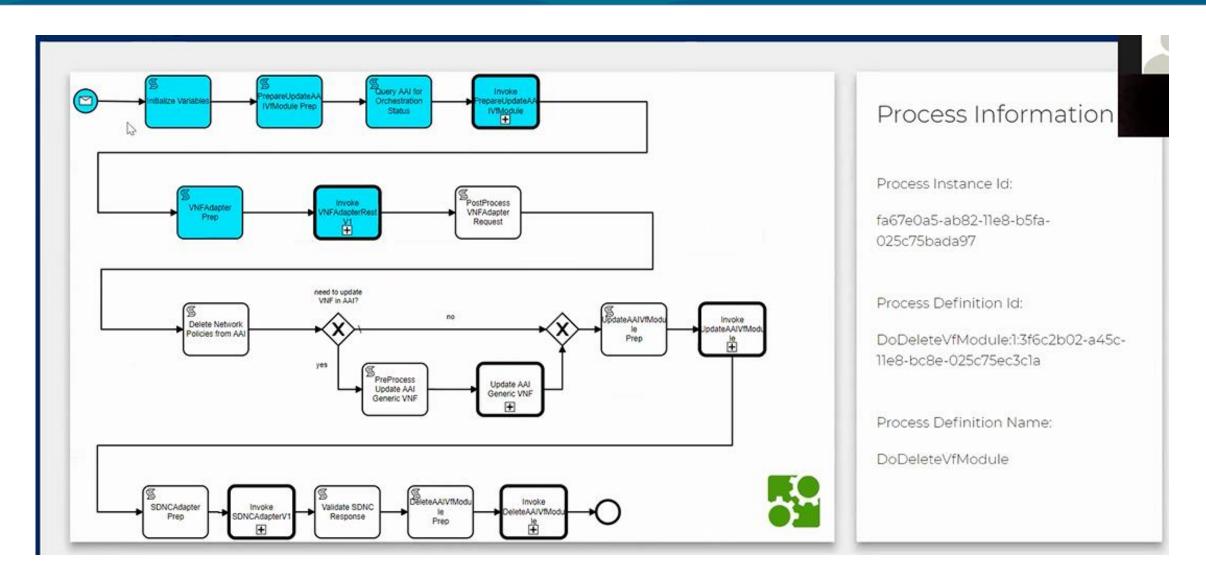
SO Workflow Monitoring – Parent-Child Drill Down



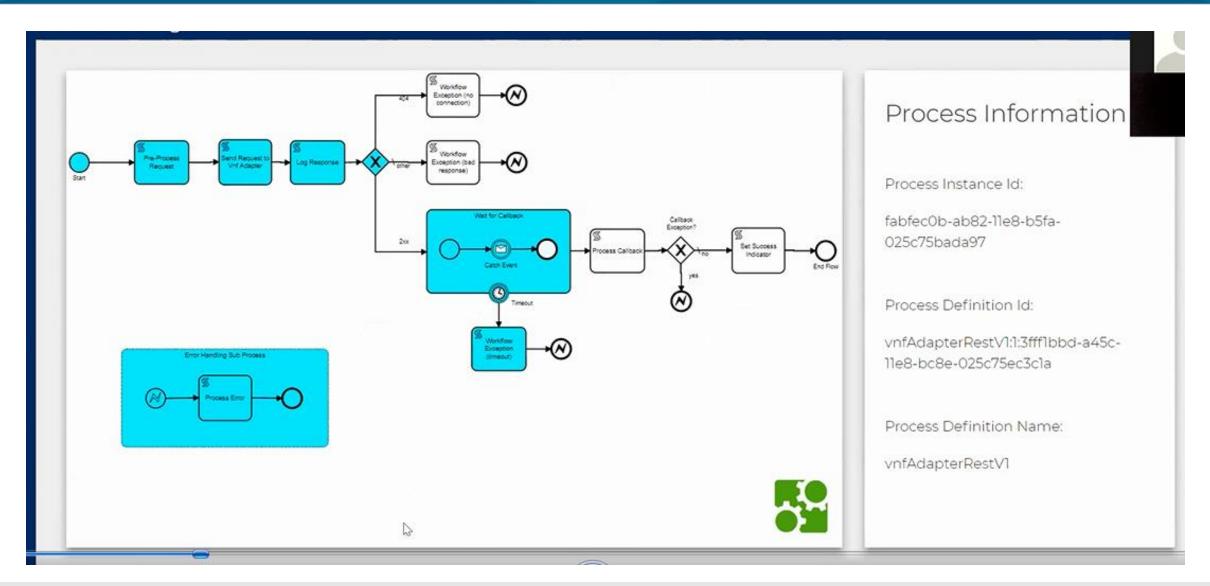
SO Workflow Monitoring – Failed Case



SO Workflow Monitoring – Failed One Drill Down



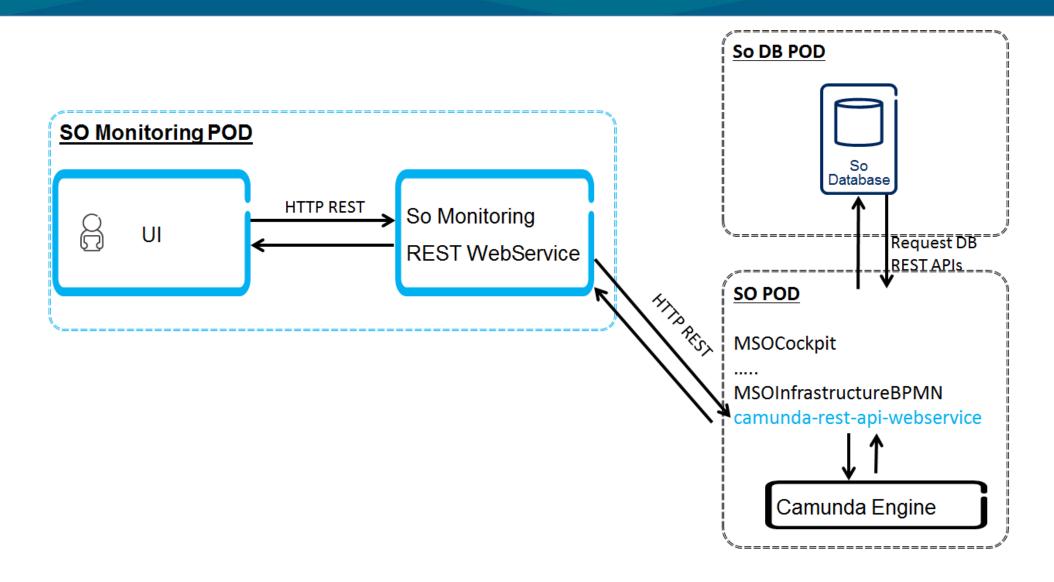
SO Workflow Monitoring – Failed One Drill Down



SO Workflow Monitoring – Failed One Drill Down

ScriptTask_2	Log Response	scriptTask	2018-08- 29T11:59:27.600+0000	2018-08- 29T11:59:27.601+0000	1_
ExclusiveGateway_1		exclusiveGateway	2018-08- 29T11:59:27.601+0000	2018-08- 29T11:59:27.602+0000	1
StartEvent_3		startEvent	2018-08- 29T11:59:27.603+0000	2018-08- 29T11:59:27.604+0000	1
waitForAsyncMessage	Wait for Callback	subProcess	2018-08- 29T11:59:27.603+0000	2018-08- 29T12:04:35.597+0000	307994
IntermediateCatchEvent_1	Catch Event	intermediateMessageCatch	2018-08- 29T11:59:27.604+0000	2018-08- 29T12:04:35.593+0000	307989
BoundaryEvent_1	Timeout	boundaryTimer	2018-08- 29T12:04:35.601+0000	2018-08- 29T12:04:35.602+0000	1
ScriptTask_5	Workflow Exception (timeout)	scriptTask	2018-08- 29T12:04:35.602+0000	2018-08- 29T12:04:35.664+0000	62
SubProcess_1	Error Handling Sub Process	subProcess	2018-08- 29T12:04:35.664+0000	2018-08- 29T12:04:35.665+0000	1
ScriptTask_8	Process Error	scriptTask	2018-08-	2018-08-	1
ounperdon_o	1100033 21101		29T12:04:35.664+0000	29T12:04:35.665+0000	

SO Workflow Monitoring Microservice Component



SO Workflow Monitoring References

- SO Workflow Monitoring Summary, https://wiki.onap.org/display/DW/SO+Monitoring
- SO Workflow Monitoring User Guide, https://wiki.onap.org/display/DW/SO-Monitoring+User+Guide
- SO Workflow Monitoring Feature Design, <u>https://wiki.onap.org/display/DW/SO+Monitoring+Feature+Design</u>
- SO Workflow Monitoring API, https://wiki.onap.org/display/DW/SO+Monitoring+API