



DCAE PM Subscription Handler (PMSH) Enhancements, Rel H

Nov 2020

PM Control Use Cases

UC#	Use Case Name	Description	
UC1	Create PM Subscription	A user creates a new PM subscription and configures it	
UC2	Activate PM Subscription	A user activates an inactive subscription, which triggers the pushing of the corresponding PM configuration to the matching xNF instances	
UC3	Deactivate PM Subscription	A user deactivates an active subscription, which triggers the deletion of the corresponding PM configuration on the matching xNF instances	
UC4	xNF Instance Removed From Network(*)	An xNF instance is removed from ONAP, which triggers the automatic removal of this xNF instance from all subscriptions it is currently included in	ONAP Rel F Scope
UC5	Delete PM Subscription	A user deletes a subscription	
UC6	New xNF Instance Added To Network(*)	A new xNF instance is added in ONAP, which triggers the automatic adding of this xNF instance to any subscription with a matching xNF filter	
UC7	Support for multiple NF config blueprints	Support for mixed NF type and/or versions.	ONAP Rel G
UC8	Configure xNF filter in PM Subscription (<i>Extended filtering attributes</i>)	A user configures the xNF filter in a subscription (added new filter attribs)	
UC9	Update Filter	Update filter attributes, e.g. Add or remove xNF instances.	ONAP Rel H
UC10	Modify Measurement Parameters	A user edits the subscription measurement parameters.	REQ-422
NN	JobId/Filter Enhancements		

Parameters in PMSH

There are different types of parameters in PMSH, with specific handling:

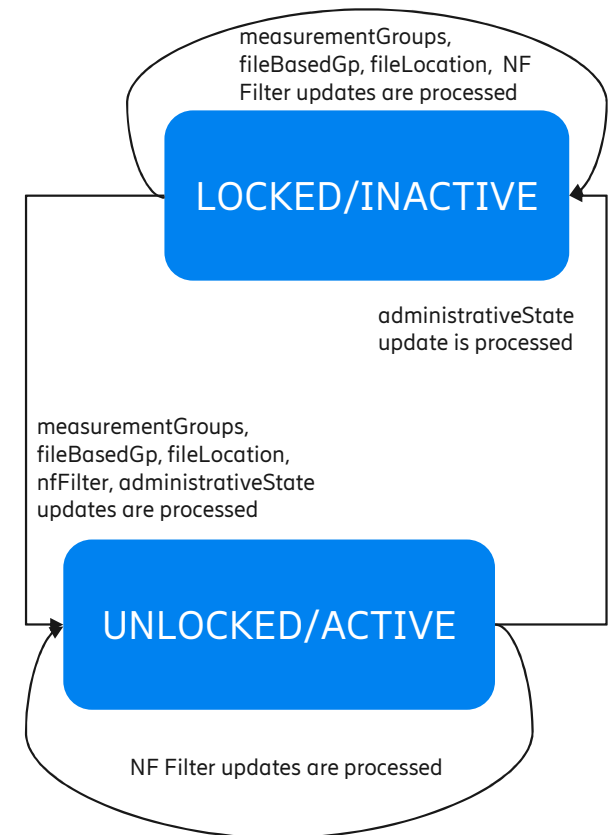
- PMSH subscription parameters
 - Params: subscriptionName
 - defined at subscription creation
 - Non-Modifiable (intended to be unique identifier)
- Measurement parameters
 - Params: measurementGroups, fileBasedGp, fileLocation
 - Modifiable only when subscription is LOCKED
- NF Filter parameters
 - Params: nfFilter
 - Modifiable at any time
- PMSH administrative state
 - Params: administrativeState
 - Modifiable at any time

Parameter handling in PMSH

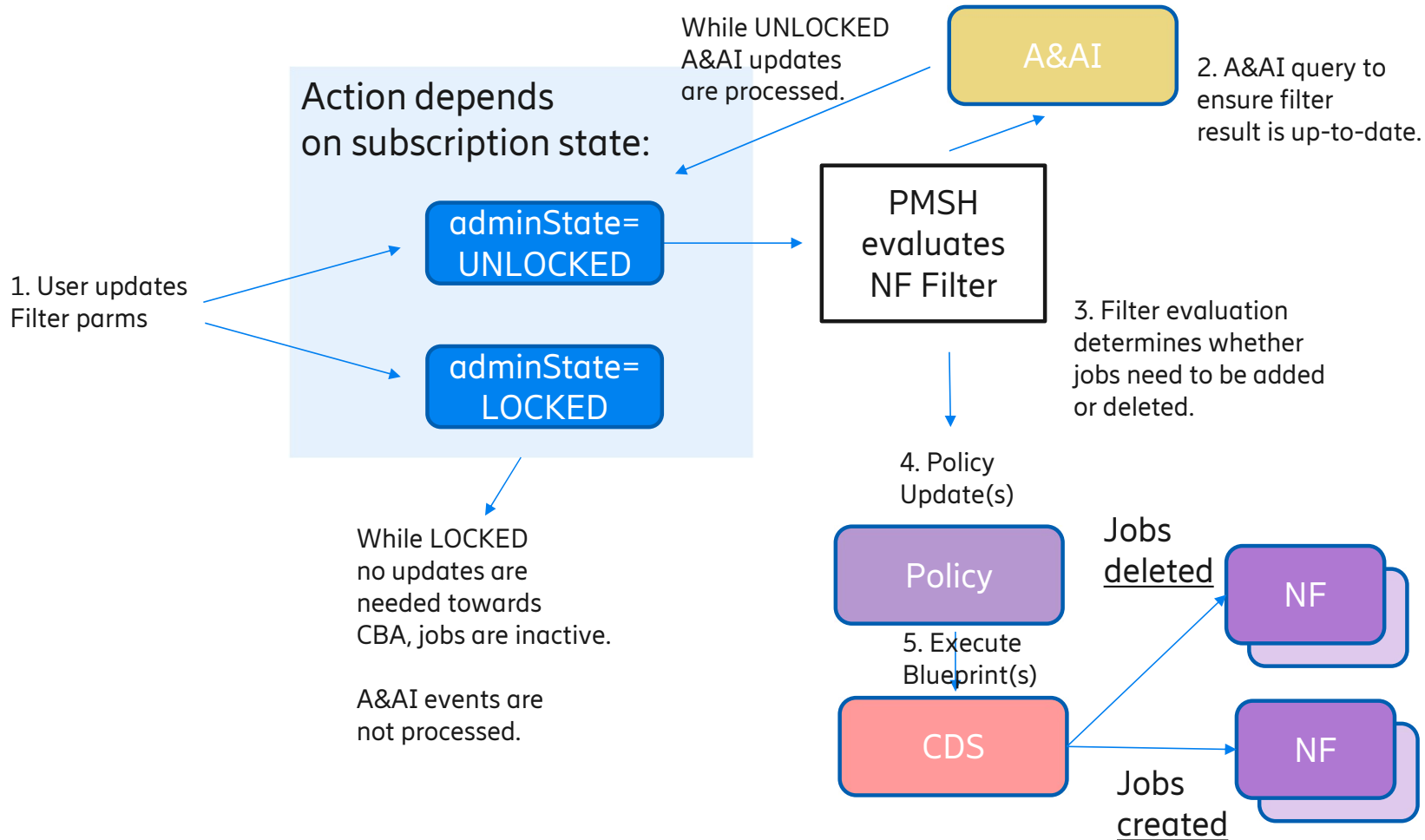
- Not all 3GPP defined parameters are defined in PMSH
 - operationalState: not required at PMSH; don't expect to add this
 - reportCtrl: only filebased job attributes are currently supported
 - jobId: not currently supported
- Similar parameters are not mapped directly to PMSH
 - administrativeState: This is admin state of the PMSH subscription object within ONAP.
 - Values: LOCKED, UNLOCKED
 - determines whether subscription can be modified, and when updates are applied
 - how this attribute is handled by controller varies based on NF support
 - See [Admin State value handling in PMSH](#)

Administrative State Handling (Rel H)

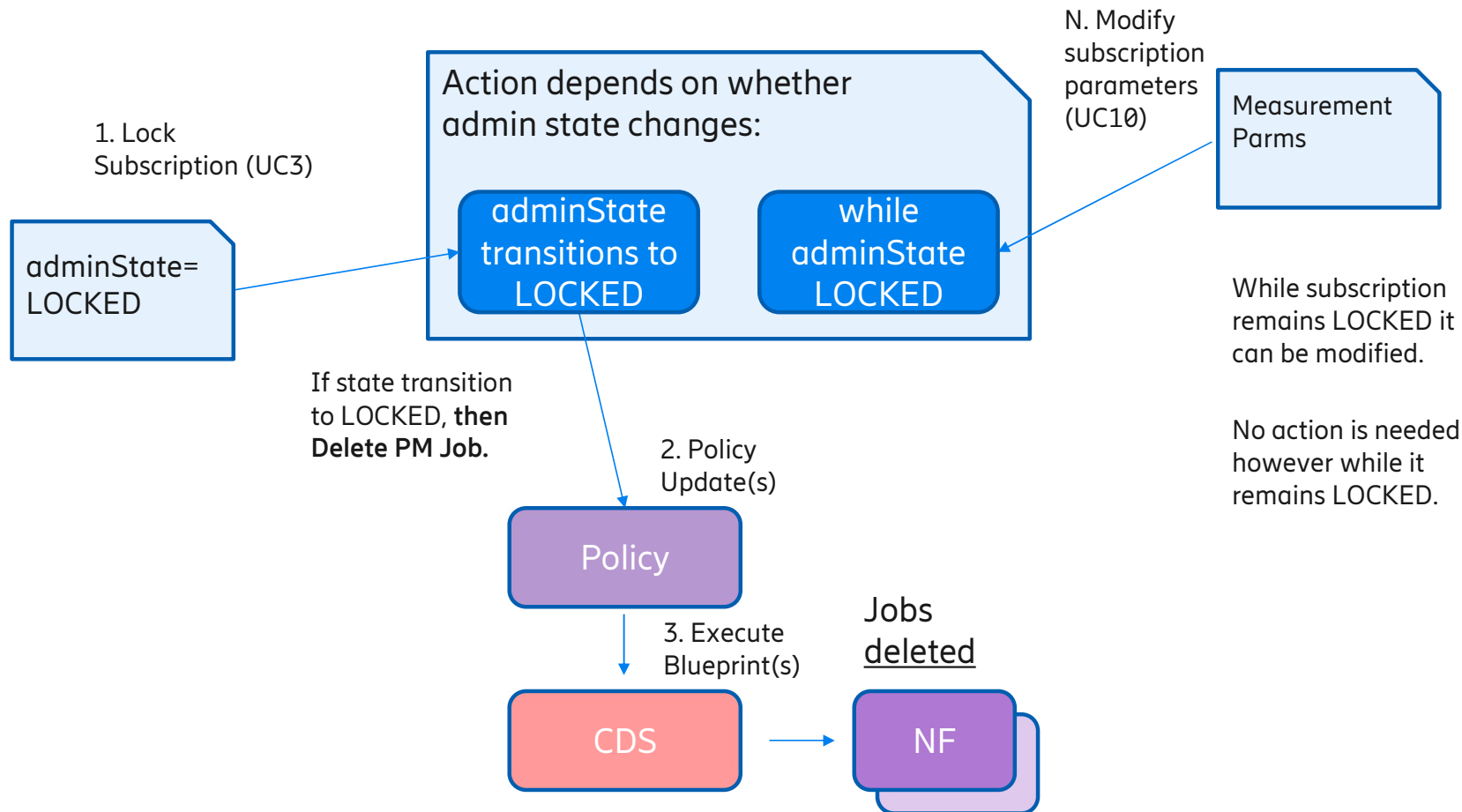
- LOCKED: PM subscription is "Inactive"
 - Subscription Parameter Handling
 - Modifiable: measurementGroups, fileBasedGp, fileLocation, nfFilter, administrativeState
 - When transitioning to LOCKED state, CBA updates occur to delete jobs
 - While in LOCKED state:
 - NF Filter updates are processed
 - No Policy updates towards CBA
 - A&I events are **not** processed (since added NF jobs are inactive, and deleted NF are removed)
- UNLOCKED: PM subscription in ONAP is "Active"
 - Subscription Parameter Handling
 - Modifiable: nfFilter, administrativeState
 - Non-modifiable: subscriptionName, measurementGroups, fileBasedGp, fileLocation
 - When transitioning to UNLOCKED state NF Filter is evaluated, CBA updates occur to create jobs
 - While in UNLOCKED state:
 - NF Filter updates are processed
 - Policy updates towards CBA occur
 - A&I events are processed



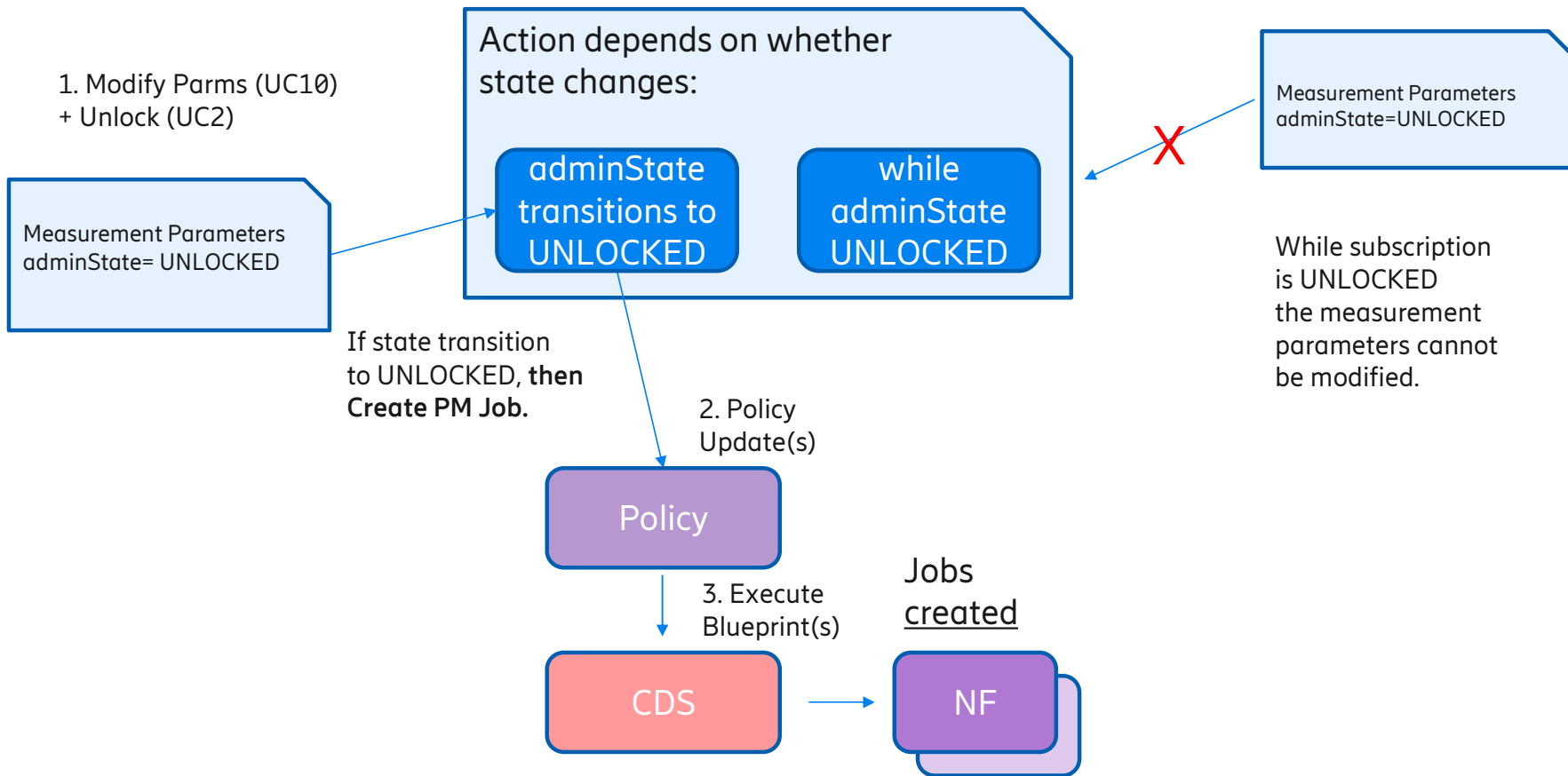
UC9: Update Filter (Rel H)



UC10: Modify Measurement Parameters (Rel H)



UC10: Modify Measurement Parameters (Rel H)



PMSH Use Cases and Workflows (Rel H)

UC#	ONAP UC Name (PMSH)	Workflow Name (CBA)
UC1	Create PM subscription	<i>If initial adminState=LOCKED - no WF, no CBA update needed If initial adminState=UNLOCKED - WF create-subscription (createSubscription.kt)</i>
UC2	Activate PM Subscription	<i>If transitioning from LOCKED ->UNLOCKED: - WF create-subscription (createSubscription.kt)</i>
UC3	Deactivate PM Subscription	<i>If transitioning from UNLOCKED -> LOCKED: - WF delete-subscription (deleteSubscription.kt)</i>
UC5	Delete PM Subscription	<i>- WF delete-subscription (deleteSubscription.kt)</i>
UC9	Update Filter	<i>If NF added to filter, if UNLOCKED: - WF create-subscription (createSubscription.kt) If NF removed from filter, if UNLOCKED: - WF delete-subscription (deleteSubscription.kt)</i>
UC10	Modify Measurement Parameters	<i>If UNLOCKED, reject If LOCKED, update parms in PMSH</i>

