1. Manage Keys SUC-AAS-MK-01

# Actors

DDC Ops

DDC System

# Activities

|  |  |
| --- | --- |
| Activity Name | Description |
|  |  |
| 1. Opt to manage keys | User opts to manage keys. |
| Which function to perform? | Decision node with two outcomes:   1. "Add" - user opts to add a new encryption key   2. "Modify" - user opts to modify an existing key |
| 2a. User chooses to add a key | User has picked to add a new key |
| 3a. Set the encryption type | The user here can set the encryption type, such as symmetric or asymmetric. |
| 4a. Set the level of encryption | The level of encryption is specified here, for example AES 256bit. |
| 5a. Add the key | The user uploads the key in this step. |
| 6a. Enter metadata | The user enters the corresponding metadata describing the key in question. |
| 7a. Submit information | User submits newly entered information. |
| 8a. Validate submission | The user's submission is validated (key length is matched against the key length specified, algorithms are matched, etc). |
| Submission valid? | Decision node with two outcomes:   1."Yes" - the submission is valid, proceed to saving the new key profile   2. "No" - the submission is not valid, go back to the data entry screen. |
| 9a. Save key profile | Save the key to a profile. |
| 10a. Activate key profile | Activate the profile. |
| 11a. Associate key profile with transport profile | A key profile must be associated with a transport profile, do that here. |
|  |  |
| 2b. User chooses to modify a key | User has chosen to modify an already existing key. |
| 3b. Submit search key criteria | In order to modify a key, user must search for it first. |
| 4b. Generate list of matching keys | The system generates a list of keys, subject to a search criteria provided. |
| 5b. Pick a key profile to modify | User picks a key profile to modify. |
| 6b. Ask user - modify or deactivate? | User can either modify a key profile or deactivate a key profile. |
| Modify or deactivate? | Decision node with two outcomes:   1. "Deactivate" - user opts to deactivate an existing encryption key profile   2. "Modify" - user opts to modify an existing key profile |
| 7ab. User picks modify | User chooses to modify an existing key. |
| 7c. User picks deactivate | User picks to deactivate an existing key. |

# Preconditions

1. In case of key management, the keys are available.  
2. The user has appropriate privileges to perform the functions requested.

# Postconditions

A key has either been created or modified or deactivated.