

Use Case #	UC-1 Device Installation
Overview	User attempts to install device application to get the smart device to work.
Subject Area	Installing Devices
Actors	IoT Owner
Trigger	User attempts initial setup of IoT device and system application.
Precondition 1	User has access to the IoT device application.
Precondition 2	User has access to network.
Precondition 3	User has access to power.
Precondition 4	User has access to smart device.
Flows	
Basic Flow	
Description	Successful installation of device application
	1. User provides power to IoT device.
	2. IoT system powers on.
	3. User downloads system application on smart device.
	4. System application downloads and prompts user for account information.
	5. User either creates account or sets up a new account
	6. System sets up account based on user's information.
	7. System prompts user to authenticate.
	8. User authenticates.
	9. User tries to pair system application to IoT device.
	10. System pairs IoT device to system application.
	11. User tries to connect system to network and provides proper network authentication.
	12. System connects to network.
Termination Outcome	User successfully installed IoT device and application.
Extension - 2a	
Description	IoT system does not power on.
2a1.	User tries to provide power by other means or user backs out of use case.
Extension = 4a	
Description	System application cannot be downloaded.
4a1.	User tries to re-download system application (finish step 4) or backs out of use case.
Extension = 4b	
Description	System does not prompt user for account information.
4b1.	System displays message that it cannot display options for setting up or creating user account and provides instructions for how to correct situation.
4b2.	User attempts to follow instructions to set up account (continue to step 5) or backs out of use case.
Extension = 6a	
Description	System application cannot set up user's account.
6a1.	System displays message that it cannot set up user's account and provides instructions for recovery.

6b2.	User attempts to follow instructions to finish setting up account (continue to step 7) or backs out of use case.
Extension = 10a	
Description	System does not pair IoT device to system application.
10a1.	System displays message that it cannot pair IoT device to system application and provides instructions for recovery.
10a2.	User attempts to follow instructions to pair IoT device to system application (continue to step 11) or backs out of use case.
Extension = 12a	
Description	System cannot connect to network.
10a1.	System displays message that it cannot connect to network and provides instructions for recovery.
10a2.	User attempts to follow instructions to system to network or backs out of use case.
Termination Outcome	User may or may not have installed IoT device and system application.
Subordinates	Refer to UC-2 for Authentication.