

uc0502a0 : Use Case : Add a data set

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Larry creates a data set to identify the data he wants to make available. As part of creating the data set, he gives it an availability policy to identify the pool of OpenKey clients he wants the data to be available and the LKM (or LKMs) he wants to use to manage availability.

Special Requirements

- The system can discover the OpenKey clients that are online even before they've been enrolled.
- The system can represent data to users in a way that enables them to create data sets.
- The system can identify the OpenKey client that owns the key that was used to encrypt any represented collection of data.

Initial State

- At least one LKM is online and has been initialized.
- Data has been encrypted.

Flow [[workflow diagram](#)]

Step	What Larry does	What Dolphin does	Wireframe
1	Larry selects Data from the navigation bar.	Dolphin displays the Data > Data Sets > Availability tab. (For details, see uc0501a0, wireframe 01a , wireframe 02a .)	wireframe 01a
2	Larry clicks the Add button	Dolphin displays the Add Data Set wizard Welcome page.	wireframe 02a
3	Larry clicks the Next button.	Dolphin displays the Name and Description page.	wireframe 03a
4	Larry gives the data set he's creating a name, fills in the description, types in his name as the owner, and his email address and phone number as the contact info. <i>PRIMARY PATH</i>	Dolphin displays as the information as Larry enters it.	
5	Larry clicks Next .	Dolphin displays the Availability Policy page	wireframe 04a
6	Larry selects the Mutual Availability policy. <i>(See A0. Alternate Path - Select the Manual Availability Policy)</i>		
7	Larry clicks Next .	Dolphin displays the Data page.	wireframe 05a
8	Larry selects the data he wants in the data set. <i>(See A1. Alternate Path - Move Data from Another Data Set)</i>		
9	Larry clicks Next .	Dolphin displays the Managing LKMs page.	wireframe 06a
10	Larry selects the LKMs he wants to use to manage the availability of the data and clicks Next .	Dolphin displays the Availability Pool page.	wireframe 07a
11		Dolphin pre-populates the list of OpenKey clients in the availability pool with any clients that have encrypted any of the data in the data set.	
12	Larry reviews the list of clients to make sure it contains all the clients he wants in the data set. <i>(See A2. Alternate Path - Remove a Client)</i> <i>(See A3. Alternate Path - Add a Client)</i> <i>(See A4. Alternate Path - Add a Client from Another Pool)</i>		
13	Larry clicks Next . <i>(See A5. Alternate Path - Continue with Preview Warnings)</i>	Dolphin displays the Preview page. It gives the status of the LKMs' OpenKey licenses and the OpenKey clients' certificates.	wireframe 08a
14	Larry reviews the Preview page, then clicks Next .	Dolphin displays the Links page.	wireframe 09a
15	Larry clicks Link .	Dolphin links the LKMs with their respective OpenKey clients. It displays progress while the process is underway.	wireframe 09b
16	Larry clicks Next .	Dolphin displays the completion page.	wireframe 10a
17	Larry clicks Finish .	Dolphin closes the wizard.	

A0	<i>ALTERNATE PATH - SELECT MANUAL AVAILABILITY POLICY</i>		
A0.1	Larry selects the Manual Availability policy and clicks Next .	Dolphin displays the Data page.	wireframe 10d
A0.2	Larry can take either of these actions:		
A0.3	(a) If he adds data that's currently in another data set to the new data.	Dolphin <i>doesn't</i> move the data from its current data set to the new data set. It <i>doesn't</i> display the confirmation dialog box (see wireframe 10g). (A manual availability policy doesn't preclude data from being in another data set.)	

A0.4		Dolphin skips the Managing LKM page (wireframe 00a) -- because the data is managed by the current data set's LKM -- and displays the Availability Pool page (step A0.7).	
A0.5	(b) If he adds data that's currently unavailable to the data set and clicks Next .	Dolphin displays the Managing LKMs page.	wireframe 06a
A0.6	Larry selects the LKMs he wants to use to manage the availability of the data.		
A0.7	Larry clicks Next .	Dolphin displays the Availability Pool page.	wireframe 10e
A0.8	Larry selects the location of the clients in the availability pool (either on the same network as the data in the data set, or on a different network).	Dolphin stores the location setting. It uses the setting later to determine whether to launch the automatic (same network) or manual (different networks) trustee setup process.	
A0.9	If Larry selects "same network", he adds the client to the availability pool.	Dolphin uses the clients to determine which LKM to create a trustee relationship with.	
A0.10	If he adds a client that's currently in another data set to the new data.	Dolphin <i>doesn't</i> move the client out of its current data set to the new data set. It <i>doesn't</i> display the confirmation dialog box (see wireframe 19a). (A manual availability policy doesn't preclude a client from being in another data set.)	
A0.11	Larry clicks Next .	Dolphin displays the Preview page.	wireframe 10f
A0.12		If one or more of the clients Larry has added to the availability pool isn't in a data set (and so doesn't have a managing LKM), Dolphin displays an error message. (See A6.Alternate Path - Save and Quit)	
A0.13	Larry reviews the preview and clicks Next .	Dolphin displays the Completion page.	wireframe 10g
A0.14	<i>After the trustee relationship has been established:</i>	When a client needs the data set's keys to gain access to the data, Dolphin generates a request and displays it as a pending job in the Jobs panel on the dashboard.	wireframe 10h
A0.15	Larry clicks the go button next to the job.	Dolphin displays the Data > Data Sets > Availability tab, with the request highlighted.	wireframe 10i
A0.16	Larry clicks Share Keys Manually .	Dolphin launches the Share Keys Manually wizard (see uc0506a0).	
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A1	ALTERNATE PATH - MOVE DATA FROM ANOTHER DATA SET		
A1.1	Larry clicks the Other Data Sets tab.	Dolphin displays the data in other data sets.	wireframe 10n
A1.2	Larry selects the data he wants to move from an existing data set to the new data set.		
A1.3	Larry clicks [>] (the add selected button).	Dolphin displays a confirmation box. The message explains that moving the data makes it inaccessible to the existing data set's OpenKey devices.	wireframe 10o
A1.4	Larry clicks the Show Devices >> button.	Dolphin expands the confirmation box to show a list of the devices that will no longer have access to the data.	wireframe 10p
A1.5	Larry clicks the Move button.	Dolphin moves the data from the existing data set to the new data set and closes the confirmation box.	
	<i>Return to Primary Path, step 7.</i>		
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A2	ALTERNATE PATH - REMOVE A DEVICE		
A2.1	Larry selects one or more of the devices that Dolphin has pre-populated the availability pool with.		wireframe 11a wireframe 11b
A2.2	Larry clicks [<] (the remove selected devices button).	Dolphin checks Larry's action against the availability policy he has chosen.	
A2.3		Dolphin discovers that the device (or devices) has encrypted data that Larry has added to the data set. Removing the device means removing the data.	
A2.4		Dolphin displays a confirmation box informing Larry that the data will also be removed from the data set.	wireframe 12a wireframe 12b
A2.5	Larry clicks the Show Data>> button to view the data.	Dolphin expands the confirmation box and displays the data.	wireframe 13a wireframe 13b
A2.6	Larry clicks the Remove button.	Dolphin removes the device (or devices) from the availability pool and the data from the data set.	
	<i>Return to Primary Path, step 12.</i>		
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A3	ALTERNATE PATH - ADD A DEVICE		
	Larry selects one (or more) devices from the Devices in the		

A3.1	System list on the left.		wireframe 14a
A3.2	Larry clicks [>] (the add selected devices button).	Dolphin displays a confirmation box informing Larry that the device will be added to the availability pool -- and the data it has encrypted will be added to the data set.	wireframe 15a
A3.3	Larry clicks the Show Data>> button to view the data.	Dolphin expands the confirmation box and displays the data.	wireframe 16a
A3.4	Larry clicks the Add button.	Dolphin adds the device (or devices) to the availability pool -- and adds any data it has encrypted to the data set.	
	<i>Return to Primary Path, step 12.</i>		
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A4	ALTERNATE PATH - ADD A DEVICE FROM ANOTHER POOL		
A4.1	Larry clicks the In Another Pool tab.	Dolphin displays the OpenKey devices that are in the availability pools of other data sets.	wireframe 17a
A4.2	Larry selects one (or more) devices from the Devices in the System list on the left.		
A4.3	Larry clicks [>] (the add selected devices button).	Dolphin displays a confirmation box informing Larry that the data in the device's current data set will no longer be available to the device and that the other devices in the current data set's availability pool will no longer have access to the data encrypted by the device.	wireframe 18a
A4.4	Larry clicks the Show Data>> button to view the data.	Dolphin expands the confirmation box and displays the data.	wireframe 19a
A4.5	Larry clicks the Move button.	Dolphin adds the device (or devices) to the availability pool -- and adds any data it has encrypted to the data set.	
	<i>Return to Primary Path, step 12.</i>		
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A5	ALTERNATE PATH - CONTINUE WITH PREVIEW WARNINGS		
A5.1		Dolphin displays warnings on the Preview page.	wireframe 20a
A5.2	Larry reviews the preview and clicks the View Certificates link.	Dolphin displays the View Certificates dialog box.	
A5.3	Larry reviews a certificate and clicks Close .	Dolphin closes the View Certificates dialog box.	
A5.4	Larry clicks Next .	Dolphin displays the Links page.	wireframe 21a
	<i>(See A6.Alternate Path - Save and Quit)</i>		
A5.5	Larry clicks Link .	Dolphin links the KMs with the OpenKey clients.	
A5.6	Larry clicks Next .	Dolphin displays the Completion page.	wireframe 22a
A5.7	Larry clicks Finish .	Dolphin displays new data set in the Data Set list view. It displays an alert that its status is incomplete, and provides a link to finish setup.	wireframe 23a
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A6	ALTERNATE PATH - SAVE AND QUIT		
A6.1	Larry clicks the Save and Quit link.	Dolphin displays the Save and Quit confirmation dialog box.	wireframe 24a
A6.2	Larry clicks the Save and Quit button.	Dolphin saves the current setup of the data set and closes the wizard without linking LKMs and OpenKey clients.	

End State

PRIMARY PATH

- Larry has collected data into a data set.
- Larry has defined a set of OpenKey clients that have access to the data.
- The data set has at least one LKM to manage the keys needed to make the data available to the clients.

ALTERNATE PATH

Move data from an existing data set

- The data that Larry has been moved is no longer available to the clients in the old data set's availability pool.
- The clients that encrypted the data that Larry has moved have also been moved to the new data set's availability pool.
- The clients that have been moved to the new data set's availability pool no longer have access to the data in the old data set.

Remove an OpenKey client that Dolphin has pre-populated the availability pool with

- Dolphin has removed the data that the client encrypted from the data set.

Add an OpenKey client to the availability pool

- Dolphin adds any data the client has encrypted to the data set.

Add an OpenKey client that's in another data set's availability pool.

- Dolphin adds any data the client has encrypted to the data set.
- The data that the client has encrypted is no longer available to the clients in the old availability pool.
- The data in the old data set is no longer available to the client that Larry has moved.

Continue with the setup with there are warnings

- Dolphin links as many LKMs and OpenKey clients as possible.
- Dolphin displays an alert warning that the setup is complete.
- Dolphin provides a link that enables Larry to relaunch the Add Data Set wizard and finish the setup.

Save and Quit

- Dolphin saves the current state of the setup of the data set.
- Dolphin displays an alert warning that the setup is complete.
- Dolphin provides a link that enables Larry to relaunch the Add Data Set wizard and finish the setup.

Issues

- There may need to be a Status sub-tab. There may be several messages about the availability status of of data set -- which a single column in the list view won't be enough to accommodate.

Workflow and Wireframe Drawings

The [PowerPoint presentation](#) with the source drawings of the workflow and wireframes.

-- [JeffreySchwamberger](#) - 05 Sep 2008

r15 - 31 Oct 2008 - 08:32:42 - [JeffreySchwamberger](#)

I	Attachment	Action	Size	Date	Who	Comment
	uc0502a0_add_data_set.ppt	manage	1101.0 K	31 Oct 2008 - 08:32	JeffreySchwamberger	
