**Use Case Revision History**

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| --- | --- | --- |
| **Version** | **Date** | **Revision Description** |
| 1.0 | 06/17/2015 | Initial Document creation; Creation of UC-001 |
| 1.1 | 04/06/2015 | Addition of UC-002, UC-003 |

**Use Case List**

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| **Use Case ID** | **Primary Actor** | **Use Cases** |
| UC-001 | Customer | Customer\_Request\_Transcode\_Apple |
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| --- | --- | --- | --- | --- |
| **Use Case ID:** | UC-001 | | | |
| **Use Case Name:** | Customer\_Request\_Transcode\_Apple | | | |
| **Created By:** | Vincent Doyle | **Last Updated By:** | | Vincent Doyle |
| **Date Created:** | June 17, 2015 | **Last Revision Date:** | | June 17, 2015 |
| **Actors:** | Customer | | | |
| **Description:** | To document the process of a new Customer creating a BCC account online. | | | |
| **Trigger:** | Customer wants their media to be transcoded from .mp4 to .hls so they can stream it to Apple products. | | | |
| **Preconditions:** | 1. System is live and properly functioning. 2. The list of URLs is functional. | | | |
| **Postconditions:** | 1. System transcodes the media to the proper format. | | | |
| **Normal Flow:** | 1.0 Customer requests to have their media transcoded.   1. User sends in input file.    1. Job Name    2. URL List    3. Output File Format    4. Deadline 2. System takes input file, and first partitions the URL list by doing the following:    1. Ffprobes for metadata.    2. Sorts through metadata by size.    3. Loop through metadata and adds all transcodable files to list.    4. Parses input files, finds ways to interact with content within URL. 3. System uses the following algorithms to figure out how to transfer content most cost effectively.    1. Sends data between clouds.    2. Determine max number of transcodable files on local cloud.    3. Measure bandwidth.    4. Find cheapest public cloud. 4. System actually transcodes media.    1. Test cloud compute times    2. Find sample bitrate for private cloud.    3. Estimate transcode time. | | | |
| **Exceptions:** |  | | | |
| **Includes:** |  | | | |
| **Frequency of Use:** | Potentially many uses per customer depending on needs for media transcoding. | | | |
| **Special Requirements:** | 1. Output is on private cloud. 2. Finished before deadline. 3. Cost is minimized. | | | |
| **Assumptions:** | Customer is using the system in order to transcode their media by a certain deadline. | | | |
| **Summary:** | **Inputs** | **Source** | **Outputs** | **Destination** |
| Input File | Customer | Transcoded URLs to requested format | System |