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This page contains the detailed results of a number of carefully defined call flows. The results include:

- The actual SIP message log captured by CUBE
- A summary of the SIP messages handled by CUBE, in the form of a ladder diagram
- The metadata collected by MediaSense, presented in JSON format
- The list of session events published by MediaSense

The tests documented in this page use the following Cisco MediaSense configuration:

- A Unified CVP testbed, with no survivability script or VXML activity, and forking configured for the inbound dial peer. CVP is acting only as a back-to-back user agent.
- All phones are registered to a Unified CM.
- Incoming call is directed by Unified CM through a SIP Trunk to Cisco Unified Border Element (CUBE). CUBE contacts Unified CVP, which in turn redirects the call via Unified CM to a second party. All subsequent call control activities are performed directly on the device (using buttons on the hard phones).

Call Delivery with Destination Phones Performing Conferences and Transfers

In the following call flows, the originating phone (1019) remains constant. The destination phones perform the conferences and transfers.

Destination Phones Performing Conferences and Transfers

| No. | Call Flow | Details | CCID | Data | Events | Notes |
|-----|--|--|---|---|--------|-------|
| 1. | Call delivery plus consult but no transfer | 1019 calls CVP, CVP delivers to 1020. 1020 consults 1021. 1021 drops. 1020 resumes conversation with 1019. 1020 drops. | 0172593664-0000065536-0000001753-2159614892 | <ul style="list-style-type: none"> • Ladder 1 11:42:40.268:STARTED • Metadata 1 11:43:16.113:ENDED | | |
| 2. | Call delivery plus one consult transfer 1019 calls | CVP, CVP delivers to 1020. 1020 transfers to 1021 and completes the transfer. 1021 drops. | 3672593664-0000065536-0000001754-2159614892 | <ul style="list-style-type: none"> • Ladder 2 11:48:31.727:STARTED • Metadata 2 11:48:42.977:UPDATED • Ladder 2 11:48:50.461:ENDED | | |

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| 3. | Call delivery plus two consult transfers 1019 calls CVP, CVP delivers to 1020. | 1020 transfers to 1021 and completes the transfer. 1021 transfers back to 1020 and completes the transfer. 1020 drops. | 1387626368-0000065536-0000001755-2159614892 | <ul style="list-style-type: none"> • <u>Ladder</u> 3 11:51:51.197:STARTED • <u>Metadata</u> 3 11:52:22.526:UPDATED 3 11:52:30.010:ENDED | |
| 4. | Call delivery plus blind transfer 1019 calls CVP, CVP delivers to 1020. | 1020 transfers to 1021 and hangs up during ringing. 1021 answers, then later drops. | 1452659072-0000065536-0000001757-2159614892 | <ul style="list-style-type: none"> • <u>Ladder</u> 4 11:59:07.169:STARTED • <u>Metadata</u> 4 11:59:24.544:ENDED | |
| 5. | Call delivery plus consult, then drop originally called party 1019 calls CVP, CVP delivers to 1020. | 1020 begins transfer to 1021 (which puts 1019 on hold). Then 1019 drops. Then 1021 drops. | 3072659072-0000065536-0000001758-215961489 | <ul style="list-style-type: none"> • <u>Ladder</u> 5 12:01:48.514:STARTED • <u>Metadata</u> 5 12:02:08.389:ENDED | Received STARTED and ENDED. Did not receive UPDATED. (CSCtf81218) |
| 6. | Call delivery plus consult and conference in 3rd party, then 3rd party drops 1019 calls CVP, CVP delivers to 1020. | 1020 conferences with 1021 and 1019 together. 1021 drops, then 1020 drops. | 0547691776-0000065536-0000001759-2159614892 | <ul style="list-style-type: none"> • <u>Ladder</u> 6 12:04:45.671:STARTED • <u>Metadata</u> 6 12:10:26.173:UPDATED 6 12:10:26.470:UPDATED 6 12:10:41.220:ENDED | Both UPDATED events were received at the point where 1021 dropped. (CSCtf81218) |
| 7. | Call delivery plus consult and conference in 3rd party, then originally called party drops 1019 calls CVP, CVP delivers to 1020. | 1020 conferences with 1021 and 1019 together. 1019 drops, then 1021 drops. | 1052724480-0000065536-0000001760-2159614892 | <ul style="list-style-type: none"> • <u>Ladder</u> 7 12:12:45.221:STARTED • <u>Metadata</u> 7 12:13:12.987:ENDED | Received an ENDED event when 1019 dropped. Did not receive UPDATE. |

Call Delivery with Originating Phone Performing Conferences and Transfers

In the following call flows, the originating phone (1019) performs the conferences and transfers.

Originating Phones Performing Conferences and Transfers

| No. | Call Flow | Details | CCID | Data | Events | Notes |
|-----|--|--|---|------|--|---|
| 1. | Call delivery plus caller consults 3rd party 1019 calls CVP, CVP delivers to 1020. 1019 consults 1021. | 1021 drops (Transfer does not get completed). 1019 resumes conversation with 1020. 1020 drops. | 2677757184-0000065536-0000001762-2159614892 | | <ul style="list-style-type: none"> Ladder A 12:22:38.068:STARTED Metadata A 12:23:14.600:ENDED | |
| 2. | Call delivery plus caller transfers to 3rd party 1019 calls CVP, CVP delivers to 1020. | 1019 consults and transfers to 1021 (1019 is no longer in the call). 1021 drops | 2982724480-0000065536-0000001761-2159614892 | | <ul style="list-style-type: none"> Ladder B 12:15:59.082:STARTED Metadata B 12:16:44.035:UPDATED Ladder B 12:18:02.473:ENDED | Received UPDATED event when 1019 completed the transfer, and ENDED event when 1021 dropped. |
| 3. | Call delivery plus caller transfers to 3rd party, and 3rd party transfers to 4th party 1019 calls CVP, CVP delivers to 1020. | 1019 transfers to 1021 and completes the transfer. 1021 transfers back to 1019 and completes the transfer. 1020 drops. | 1092789888-0000065536-0000001763-2159614892 | | <ul style="list-style-type: none"> Ladder C 12:27:08.789:STARTED Metadata C 12:27:20.789:UPDATED Ladder C 12:27:36.774:UPDATED Metadata C 12:27:46.070:ENDED | |
| 4. | Call delivery plus blind transfer 1019 calls CVP, CVP delivers to 1020. | 1019 transfers to 1021 and hangs up during ringing. 1021 answers, then later drops. | 2892789888-0000065536-0000001764-2159614892 | | <ul style="list-style-type: none"> Ladder D 12:30:08.915:STARTED Metadata D 12:30:24.275:UPDATED Ladder D 12:31:20.087:ENDED | |
| 5. | Call delivery plus caller consults 3rd party, then caller drops 3rd | 1019 calls CVP, CVP delivers to 1020. 1019 initiates transfer to 1021, 1021 | 2277822592-0000065536-0000001766-2159614892 | | <ul style="list-style-type: none"> Ladder E 12:36:16.746:STARTED Metadata E 12:37:13.887:ENDED | |

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| | party and resumes talking to 2nd party. | answers, then 1019 drops without completing the transfer, which disconnects 1021. 1019 resumes talking to 1020. 1020 drops. | | | |
| 6. | Call delivery plus caller consults 3rd party, then 3rd party drops 1019 calls CVP, CVP delivers to 1020. | 1019 initiates and completes conference to 1021, and all three talk. Then 2021 drops, then 1020 drops. | 0732855296-0000065536-0000001767-2159614892 | <ul style="list-style-type: none"> • Ladder • Metadata | 12:40:51.091:STARTED 12:41:10.747:UPDATED 12:41:21.732:UPDATED 12:41:32.669:ENDED |
| 7. | Call delivery plus caller consults 3rd party, then conferences in 3rd party, then caller drops 1019 calls CVP, CVP delivers to 1020. | 1019 initiates and completes conference to 1021, and all three talk. Then 2019 drops, then 1020 drops. | 1932855296-0000065536-0000001768-2159614892 | <ul style="list-style-type: none"> • Ladder • Metadata | 12:42:50.795:STARTED 12:43:05.342:UPDATED 12:43:15.686:UPDATED 12:43:26.436:ENDED |