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# 1 INTRODUCTION

Scope of the document is providing the type of most common calls available in a Cisco Unified Communications environment and the way Stonevoice BillyBlues is reporting on these.

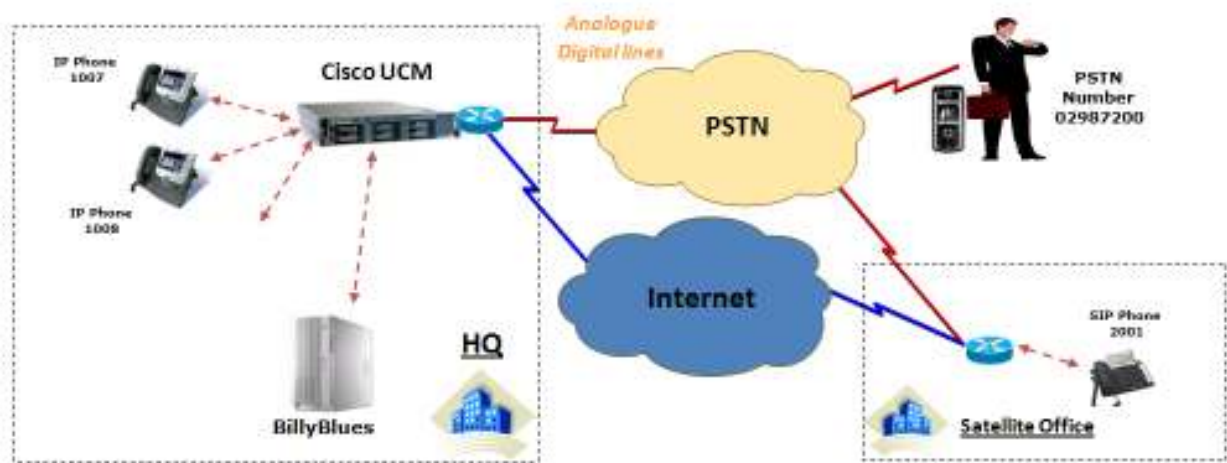


Figure 1 – Test Setup

- Cisco Unified CallManager supported are 4.x, 5.x, 6.x, 7.x
- Cisco Unified Voice Gateways supported can use both H.323 and MGCP protocols

## 2 SUPPORTED CALLS ON CUCM 6.X

## 2.1 CALL FROM AN IP PHONE TO ANOTHER IP PHONE

Test Case Details								
Description	Internal call from an IP Phone to another IP phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to IP phone 1007</li><li>Answer the call and after a brief period, hang up.</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 18:56:52	00:00:05	Int.	1007	1008	Smith John	0.0000	Out
	05/03/09 18:56:52	00:00:05	Int.	1008	1007	Neeil Mark	0.0000	In
Observations	Each internal calls between extensions (local or remote) is reported with two records as it represents an outgoing internal for the caller and an incoming internal for the extension receiving the call							

## 2.2 INTERNAL CALL FROM AN IP PHONE TO A SIP PHONE

Test Case Details								
Description	Internal call from an IP Phone to a SIP phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to IP phone 2001</li><li>Answer the call and after a brief period, hang up.</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 19:21:40	00:00:06	Int.	2001	1008	Smith John	0.0000	Out
	05/03/09 19:21:40	00:00:06	Int.	1008	2001	Johnson Tom	0.0000	In
Observations	Each internal calls between extensions (local or remote) is reported with two records as it represents an outgoing internal for the caller and an incoming internal for the extension receiving the call							

## 2.3 INTERNAL CALL TO AN IP NUMBER UNOBTAINABLE

Test Case Details	
Description	Internal call to an IP number unobtainable
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to a number outside the CCM range that doesn't exist.</li><li>Unobtainable call</li></ul>
Result (available in the Call List Report)	No call reported
Observations	

## 2.4 INTERNAL CALL TO A BUSY IP EXTENSION

Test Case Details	
Description	Internal call to a busy IP extension
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the busy IP phone 1007</li><li>Answer the call and after a brief period, hang up.</li></ul>
Result (available in the Call List Report)	No call reported (the destIPAddress is 0 so call is discarded)
Observations	

## 2.5 OUTGOING CALL FROM AN IP PHONE TO PSTN


Test Case Details	
Description	Outgoing call from an IP Phone to PSTN
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the PSTN number 02987200</li><li>Answer the call and after a brief period, hang up.</li></ul>

Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Typ</th></tr><tr><td>05/03/09 20:25:28</td><td>00:00:08</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0064</td><td>Out</td></tr><tr><td colspan="8"></td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ	05/03/09 20:25:28	00:00:08	Ext.	02987200	1008	Smith John	0.0064	Out								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ																								
	05/03/09 20:25:28	00:00:08	Ext.	02987200	1008	Smith John	0.0064	Out																								
Observations																																

## 2.6 OUTGOING CALL TO A BUSY PSTN NUMBER

Test Case Details																							
Description	Outgoing call to a busy PSTN number																						
Test Setup	Figure 1																						
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the PSTN number 02987200</li><li>Busy tone</li></ul>																						
Result (available in the Call List Report)	<table><tr><td>Date</td><td>Duration</td><td>Traff.</td><td>Number</td><td>Extension</td><td>Ext. name</td><td>Cost</td><td>Typ</td></tr><tr><td>05/03/09 20:34:18</td><td>00:00:00</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr></table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ	05/03/09 20:34:18	00:00:00	Ext.	02987200	1008	Smith John	0.0000	Out
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ															
	05/03/09 20:34:18	00:00:00	Ext.	02987200	1008	Smith John	0.0000	Out															
Observations																							

## 2.7 OUTGOING CALL TO A PSTN NUMBER UNOBTAINABLE

Test Case Details	
<b>Description</b>	Outgoing call to a PSTN number unobtainable
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to a not existing PSTN number, ex. 02101010</li> <li>Unobtainable call</li> </ul>
<b>Result</b> (available in the Call List Report)	
<b>Observations</b>	

## 2.8 INCOMING CALL FROM PSTN TO AN IP PHONE

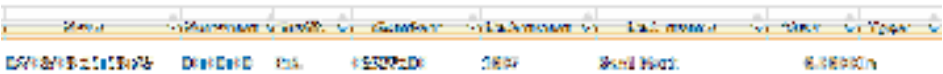
Test Case Details	
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Description	Incoming call from PSTN to an IP Phone																							
Test Setup	Figure 1																							
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>Answer the call and after a brief period, hang up.</li></ul>																							
Result (available in the Call List Report)	<table><tr><td>Date</td><td>Duration</td><td>Traff.</td><td>Number</td><td>Extension</td><td>Ext. name</td><td>Cost</td><td>Type</td></tr><tr><td>05/03/09 20:47:10</td><td>00:00:05</td><td>Ext.</td><td>02987200</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	05/03/09 20:47:10	00:00:05	Ext.	02987200	1007	Neeil Mark	0.0000	In
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																
05/03/09 20:47:10	00:00:05	Ext.	02987200	1007	Neeil Mark	0.0000	In																	
Observations																								

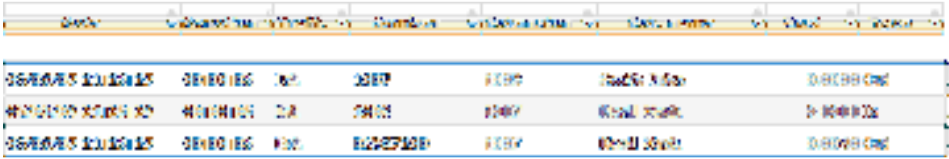
## 2.9 INCOMING CALL FROM PSTN TO A BUSY IP PHONE

Test Case Details	
<b>Description</b>	Incoming call from PSTN to a busy IP Phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Caller hears busy tone</li> </ul>
<b>Result (available in the Call List Report)</b>	No call reported (the destIPAddress is 0 so call is discarded)
<b>Observations</b>	

## 2.10 INCOMING CALL FROM PSTN TO AN IP PHONE WITHOUT ANSWER

Test Case Details	
<b>Description</b>	Incoming call from PSTN to an IP Phone without answer
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Call is no answered.</li> </ul>
<b>Result (available in the Call List Report)</b>	
<b>Observations</b>	

## 2.11 INTERNAL CALL TO AN IP PHONE FORWARDED TO A PSTN PHONE

Test Case Details	
<b>Description</b>	Internal call to an IP Phone forwarded to a PSTN phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>On IP phone 1007 set the call forward to the PSTN number 02987200</li> <li>From IP phone 1008, place a call to IP phone 1007</li> <li>Answer the call at 02987200 and after a brief period, hang up</li> </ul>
<b>Result (available in the Call List Report)</b>	
<b>Observations</b>	The PSTN call is correctly billed to the forwarding party.

## 2.12 INTERNAL CALL TO AN IP PHONE FORWARDED TO A SIP PHONE

Test Case Details								
Description	Internal call to an IP Phone forwarded to a SIP phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>On IP phone 1007 set the call forward to the SIP Phone 2001</li><li>From IP phone 1008, place a call to IP phone 1007</li><li>Answer the call on 2001 and after a brief period, hang up</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 22:13:13	00:00:04	Int.	2001	1008	Smith John	0.0000	Out
	05/03/09 22:13:13	00:00:04	Int.	1008	2001	Johnson Tom	0.0000	In
Observations								

## 2.13 INCOMING CALL TO AN IP PHONE FORWARDED TO ANOTHER IP PHONE

Test Case Details	
<b>Description</b>	Incoming call to an IP Phone forwarded to another IP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>On IP phone 1007 set the call forward to the IP Phone 1008</li> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Answer the call at 1008 and after a brief period, hang up</li> </ul>

Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>05/03/09 22:40:42</td><td>00:00:10</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	05/03/09 22:40:42	00:00:10	Ext.	02987200	1008	Smith John	0.0000	In
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																
	05/03/09 22:40:42	00:00:10	Ext.	02987200	1008	Smith John	0.0000	In																
Observations																								

## 2.14 INCOMING CALL TO AN IP PHONE, PARKED AND RETRIEVED FROM ANOTHER IP PHONE

Test Case Details																													
Description	Incoming call to an IP Phone, parked and retrieved from another IP phone																												
Test Setup	Figure 1																												
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>Answer the call and after a brief period, park the call through the softkey.</li><li>After 10 seconds, IP phone 1008 dial the call park number and retrieve the call.</li><li>IP Phone 1008 talks for 12 seconds and then hangs up.</li></ul>																												
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Cost</th><th>Type</th></tr><tr><td>10/03/09 21:59:49</td><td>00:00:06</td><td>Ext.</td><td>02987200</td><td>1008</td><td>0.0000</td><td>In</td></tr><tr><td>10/03/09 21:59:40</td><td>00:00:09</td><td>Ext.</td><td>02987200</td><td>1007</td><td>0.0000</td><td>In</td></tr><tr><td>10/03/09 21:59:37</td><td>00:00:03</td><td>Ext.</td><td>02987200</td><td>1007</td><td>0.0000</td><td>In</td></tr></table>	Date	Duration	Traff.	Number	Extension	Cost	Type	10/03/09 21:59:49	00:00:06	Ext.	02987200	1008	0.0000	In	10/03/09 21:59:40	00:00:09	Ext.	02987200	1007	0.0000	In	10/03/09 21:59:37	00:00:03	Ext.	02987200	1007	0.0000	In
	Date	Duration	Traff.	Number	Extension	Cost	Type																						
	10/03/09 21:59:49	00:00:06	Ext.	02987200	1008	0.0000	In																						
	10/03/09 21:59:40	00:00:09	Ext.	02987200	1007	0.0000	In																						
10/03/09 21:59:37	00:00:03	Ext.	02987200	1007	0.0000	In																							
Observations	Read the sequence bottom up																												

## 2.15 OUTGOING CALL TO TO A PSTN NUMBER, PARKED AND RETRIEVED FROM ANOTHER IP PHONE

Test Case Details	
<b>Description</b>	Outgoing call to to a PSTN number, parked and retrieved from another IP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1007 place a call to PSTN number 02987200</li> <li>Talk for 11 seconds, park the call through the softkey.</li> <li>After 14 seconds, IP phone 1008 dial the call park number and retrieve the call.</li> <li>IP Phone 1008 talks for 14 seconds and then hangs up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 22:55:34	00:00:14	Ext.	02987200	1008	Smith John	0.0112	Out
	05/03/09 22:55:20	00:00:14	Ext.	02987200	1007	Neel Mark	0.0112	Out
	05/03/09 22:55:09	00:00:11	Ext.	02987200	1007	Neel Mark	0.0088	Out
Observations	3 records to be read bottom up: <ul style="list-style-type: none"> <li>- from 1007 to 02987200 with duration 11 seconds (conversation)</li> <li>- from 1007 to 02987200 with the duration of the park</li> <li>- from 1008 to 02987200 with duration 14 seconds (conversation)</li> </ul>							

## 2.16 INCOMING CALL TO AN IP PHONE PICKED UP FROM ANOTHER IP PHONE

Test Case Details																														
Description	Incoming call to an IP Phone picked up from another IP Phone																													
Test Setup	Figure 1																													
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>IP Phone 1008 takes the call selecting the PickUp softkey.</li><li>IP Phone 1008 talks for 6 seconds and then hangs up.</li></ul>																													
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 13:28:42</td><td>00:00:06</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td colspan="8"></td></tr></table>						Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 13:28:42	00:00:06	Ext.	02987200	1008	Smith John	0.0000	In								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																						
	06/03/09 13:28:42	00:00:06	Ext.	02987200	1008	Smith John	0.0000	In																						
Observations																														

## 2.17 INTERNAL CALL BETWEEN IP PHONES WITH CONSULTATIVE TRANSFER TO A SIP PHONE

Test Case Details	
<b>Description</b>	Internal call between IP Phones with consultative transfer to a SIP Phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>• From IP phone 1007, place a call to IP phone 1008</li> <li>• After talking 15 seconds, IP Phone 1008, press Transfer to put phone 1007 on hold for consultation</li> <li>• From IP phone 1008, place a call to SIP phone 2001 and talk 17 seconds</li> <li>• From IP phone 1008 transfer the held call</li> <li>• IP Phone 1007 and SIP Phone 2001 talk 23 seconds, then hang up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 13:38:04	00:00:23	Int.	2001	1007	Neeil Mark	0.0000	Out
	06/03/09 13:38:04	00:00:23	Int.	1007	2001	Johnson Tom	0.0000	In
	06/03/09 13:37:47	00:00:17	Int.	2001	1008	Smith John	0.0000	Out
	06/03/09 13:37:47	00:00:17	Int.	1008	2001	Johnson Tom	0.0000	In
	06/03/09 13:37:27	00:00:37	Int.	1008	1007	Neeil Mark	0.0000	Out
	06/03/09 13:37:27	00:00:37	Int.	1007	1008	Smith John	0.0000	In

Observations
<p>Read the sequence bottom up, 3 couple of records:</p> <ul style="list-style-type: none"> <li>- Call from 1007 to 1008 where the duration is the sum of the conversation time + the hold time</li> <li>- Call from 1008 to 2001 where the duration is the conversation time</li> <li>- Call from 1007 to 2001 (transferred call) where the duration is the conversation time</li> </ul>

## 2.18 INTERNAL CALL BETWEEN IP PHONES WITH CONSULTATIVE TRANSFER TO A PSTN PHONE

Test Case Details																																															
<b>Description</b>	Internal call between IP Phones with consultative transfer to a PSTN phone (Boss – Secretary)																																														
<b>Test Setup</b>	Figure 1																																														
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1007, place a call to IP phone 1008</li> <li>After talking 15 seconds, IP Phone 1008, press Transfer to put phone 1007 on hold for consultation</li> <li>From IP phone 1008, place a call to PSTN number 02987200 and talk 13 seconds</li> <li>From IP phone 1008 transfer the held call</li> <li>IP Phone 1007 and PSTN number 02987200 talk 40 seconds, then hang up.</li> </ul>																																														
<b>Result (available in the Call List Report)</b>	<table border="1"> <thead> <tr> <th>Date</th> <th>Duration</th> <th>Traff.</th> <th>Number</th> <th>Extension</th> <th>Ext. name</th> <th>Cost</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>06/03/09 13:50:30</td> <td>00:00:40</td> <td>Ext.</td> <td>02987200</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0433</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:50:17</td> <td>00:00:13</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0141</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:49:49</td> <td>00:00:41</td> <td>Int.</td> <td>1008</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0000</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:49:49</td> <td>00:00:41</td> <td>Int.</td> <td>1007</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> </tbody> </table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 13:50:30	00:00:40	Ext.	02987200	1007	Neeil Mark	0.0433	Out	06/03/09 13:50:17	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out	06/03/09 13:49:49	00:00:41	Int.	1008	1007	Neeil Mark	0.0000	Out	06/03/09 13:49:49	00:00:41	Int.	1007	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																								
06/03/09 13:50:30	00:00:40	Ext.	02987200	1007	Neeil Mark	0.0433	Out																																								
06/03/09 13:50:17	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out																																								
06/03/09 13:49:49	00:00:41	Int.	1008	1007	Neeil Mark	0.0000	Out																																								
06/03/09 13:49:49	00:00:41	Int.	1007	1008	Smith John	0.0000	In																																								
<b>Observations</b>	<p>Read the sequence bottom up, 3 records:</p> <ul style="list-style-type: none"> <li>Call from 1007 to 1008 where the duration is the sum of the conversation time + the hold time</li> <li>Call from 1008 to 02987200 where the duration is the conversation time</li> <li>Call from 1007 to 02987200 (transferred call) where the duration is the conversation time</li> </ul>																																														

## 2.19 INCOMING CALL TO AN IP PHONE WITH CONSULTATIVE TRANSFER TO ANOTHER IP PHONE

Test Case Details																																															
<b>Description</b>	Incoming call to an IP Phone with consultative transfer to another IP Phone																																														
<b>Test Setup</b>	Figure 1																																														
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>After talking 10 seconds, IP Phone 1007, press Transfer to put the PSTN phone 02987200 on hold for consultation</li> <li>From IP phone 1007, place a call to IP Phone 1008 and talk 13 seconds</li> <li>From IP phone 1007 transfer the held call</li> <li>IP Phone 1008 and PSTN number 02987200 talk 16 seconds, then hang up.</li> </ul>																																														
<b>Result (available in the Call List Report)</b>	<table border="1"> <thead> <tr> <th>Date</th> <th>Duration</th> <th>Traff.</th> <th>Number</th> <th>Extension</th> <th>Ext. name</th> <th>Cost</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>06/03/09 14:05:17</td> <td>00:00:16</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> <tr> <td>06/03/09 14:05:04</td> <td>00:00:13</td> <td>Int.</td> <td>1008</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0000</td> <td>Out</td> </tr> <tr> <td>06/03/09 14:05:04</td> <td>00:00:13</td> <td>Int.</td> <td>1007</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> <tr> <td>06/03/09 14:04:44</td> <td>00:00:33</td> <td>Ext.</td> <td>02987200</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0000</td> <td>In</td> </tr> </tbody> </table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 14:05:17	00:00:16	Ext.	02987200	1008	Smith John	0.0000	In	06/03/09 14:05:04	00:00:13	Int.	1008	1007	Neeil Mark	0.0000	Out	06/03/09 14:05:04	00:00:13	Int.	1007	1008	Smith John	0.0000	In	06/03/09 14:04:44	00:00:33	Ext.	02987200	1007	Neeil Mark	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																								
06/03/09 14:05:17	00:00:16	Ext.	02987200	1008	Smith John	0.0000	In																																								
06/03/09 14:05:04	00:00:13	Int.	1008	1007	Neeil Mark	0.0000	Out																																								
06/03/09 14:05:04	00:00:13	Int.	1007	1008	Smith John	0.0000	In																																								
06/03/09 14:04:44	00:00:33	Ext.	02987200	1007	Neeil Mark	0.0000	In																																								
<b>Observations</b>	<p>Read the sequence bottom up, 4 records:</p> <ul style="list-style-type: none"> <li>Call from 02987200 to 1007 where the duration is the sum of the conversation time + the hold time</li> <li>2 records for the call from 1007 to 1008 where the duration is the conversation time</li> <li>Call from 02987200 to 1008 (transferred call) where the duration is the conversation time</li> </ul>																																														

## 2.20 CONFERENCE CALL BETWEEN IP PHONES AND SIP PHONE

Test Case Details	
<b>Description</b>	Conference call between IP phones and SIP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From SIP phone 2001 place a call to IP phone 1008 and talk for 10 seconds.</li> <li>From IP phone 1008, press 'Conference' to place the SIP phone 2001 on hold.</li> <li>From IP Phone 1008 place a call to IP Phone 1007 and talk 10 seconds.</li> <li>On phone 1008 press 'Conference' to join all three parties together</li> </ul>

	<ul style="list-style-type: none"><li>• All talk 19 seconds in conference.</li><li>• Hang up phone 1008</li><li>• SIP Phone 2001 and IP Phone 1007 talk 12 seconds, then hang up.</li></ul>																																																																																								
Result (available in the Call List Report)	<table><thead><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr></thead><tbody><tr><td>06/03/09 14:11:44</td><td>00:00:12</td><td>Int.</td><td>1007</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:44</td><td>00:00:12</td><td>Int.</td><td>2001</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:15</td><td>00:00:10</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:15</td><td>00:00:10</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:10:57</td><td>00:00:27</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:10:57</td><td>00:00:27</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr></tbody></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 14:11:44	00:00:12	Int.	1007	2001	Johnson Tom	0.0000	Out	06/03/09 14:11:44	00:00:12	Int.	2001	1007	Neeil Mark	0.0000	In	06/03/09 14:11:25	00:00:19	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 14:11:25	00:00:19	Int.	2001	1008	Smith John	0.0000	In	06/03/09 14:11:25	00:00:19	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 14:11:25	00:00:19	Int.	1008	1007	Neeil Mark	0.0000	In	06/03/09 14:11:15	00:00:10	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 14:11:15	00:00:10	Int.	1008	1007	Neeil Mark	0.0000	In	06/03/09 14:10:57	00:00:27	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 14:10:57	00:00:27	Int.	2001	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																																																																		
06/03/09 14:11:44	00:00:12	Int.	1007	2001	Johnson Tom	0.0000	Out																																																																																		
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06/03/09 14:10:57	00:00:27	Int.	2001	1008	Smith John	0.0000	In																																																																																		
Observations	<p>Read the sequence bottom up, 5 couple of records:</p> <ul style="list-style-type: none"><li>- Call from 2001 to 1008 where the duration is the sum of the conversation time + the hold time</li><li>- Call from 1008 to 1007 where the duration is the conversation time</li><li>- 2 couple of records (highlighted in the figure) showing all in Conference for 19 seconds. The call directions are respected, 1008 to 1007 and 2001 to 1008</li><li>- Call from 2001 to 1007 for 12 seconds after 1008 hanged up dropping the conference</li></ul>																																																																																								

## 2.21 CONFERENCE CALL BETWEEN IP PHONES AND INCOMING PSTN PHONE

Test Case Details	
<b>Description</b>	Conference call between IP phones and incoming PSTN phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>• From IP phone 1008 receives a call from PSTN phone 02987200 and talk for 20 seconds.</li> <li>• From IP phone 1008, press 'Conference' to place the PSTN phone on hold.</li> <li>• From IP Phone 1008 place a call to IP Phone 1007 and talk 8 seconds.</li> <li>• On phone 1008 press 'Conference' to join all three parties together</li> <li>• All talk 10 seconds in conference.</li> <li>• Hang up phone 1008</li> <li>• IP Phone 1007 and PSTN phone 02987200 talk 13 seconds, then hang up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Department	Cost	Type
	10/03/09 17:18:09	00:00:10	Ext.	02987200	1007		0.0000	In
	10/03/09 17:18:03	00:00:06	Int.	1007	1008		0.0000	Out
	10/03/09 17:18:03	00:00:06	Int.	1008	1007		0.0000	In
	10/03/09 17:18:02	00:00:07	Ext.	02987200	1008		0.0000	In
	10/03/09 17:17:58	00:00:04	Int.	1007	1008		0.0000	Out
	10/03/09 17:17:58	00:00:04	Int.	1008	1007		0.0000	In
	10/03/09 17:17:46	00:00:16	Ext.	02987200	1008		0.0000	In
Observations	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"> <li>- Call from 02987200 to 1008 where the duration is the sum of the conversation time + the hold time</li> <li>- Call from 1008 to 1007 where the duration is the conversation time (10 seconds)</li> <li>- 3 records showing all in Conference for 20 seconds. The call directions are respected, 02987200 to 1008 and 1008 to 1007</li> <li>- Call between 02987200 to 1007</li> </ul>							

## 2.22 CONFERENCE CALL BETWEEN IP PHONES AND OUTGOING PSTN PHONE

Test Case Details																																																																	
Description	Conference call between IP phones and outgoing PSTN phone																																																																
Test Setup	Figure 1																																																																
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008 place a call to PSTN phone 02987200 and talk for 20 seconds.</li><li>From IP phone 1008, press 'Conference' to place the PSTN phone on hold.</li><li>From IP Phone 1008 place a call to IP Phone 1007 and talk 8 seconds.</li><li>On phone 1008 press 'Conference' to join all three parties together</li><li>All talk 10 seconds in conference.</li><li>Hang up phone 1008</li><li>IP Phone 1007 and PSTN phone 02987200 talk 13 seconds, then hang up.</li></ul>																																																																
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 16:29:20</td><td>00:00:13</td><td>Ext.</td><td>02987200</td><td>1007</td><td>Neel Mark</td><td>0.0141</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0108</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Int.</td><td>1008</td><td>1007</td><td>Neel Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 16:29:02</td><td>00:00:08</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 16:29:02</td><td>00:00:08</td><td>Int.</td><td>1008</td><td>1007</td><td>Neel Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 16:28:39</td><td>00:00:31</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0336</td><td>Out</td></tr></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 16:29:20	00:00:13	Ext.	02987200	1007	Neel Mark	0.0141	Out	06/03/09 16:29:10	00:00:10	Ext.	02987200	1008	Smith John	0.0108	Out	06/03/09 16:29:10	00:00:10	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 16:29:10	00:00:10	Int.	1008	1007	Neel Mark	0.0000	In	06/03/09 16:29:02	00:00:08	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 16:29:02	00:00:08	Int.	1008	1007	Neel Mark	0.0000	In	06/03/09 16:28:39	00:00:31	Ext.	02987200	1008	Smith John	0.0336	Out
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																																										
06/03/09 16:29:20	00:00:13	Ext.	02987200	1007	Neel Mark	0.0141	Out																																																										
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06/03/09 16:29:02	00:00:08	Int.	1007	1008	Smith John	0.0000	Out																																																										
06/03/09 16:29:02	00:00:08	Int.	1008	1007	Neel Mark	0.0000	In																																																										
06/03/09 16:28:39	00:00:31	Ext.	02987200	1008	Smith John	0.0336	Out																																																										
Observations	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"><li>Call from 1008 to 02987200 where the duration is the sum of the</li></ul>																																																																

	<p>conversation time + the hold time</p> <ul style="list-style-type: none"> <li>- Call from 1008 to 1007 where the duration is the conversation time (10 seconds)</li> <li>- 3 records showing all in Conference for 20 seconds. The call directions are respected, 1008 to 02987200 and 1008 to 1007</li> <li>- Call between 1007 and 02987200</li> </ul>
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## 2.23 MULTIPLE CALLS PER LINE (CALL WAITING)

Test Case Details																																									
Description	Multiple calls per line (Call waiting)																																								
Test Setup	Figure 1																																								
Procedure	<ul style="list-style-type: none"><li>Place a call from SIP phone 2001 to an IP phone 1008</li><li>Place another call from IP phone 1007 to IP phone 1008 (answer the incoming call, placing the original call on hold)</li><li>Hangup the current call on IP phone 1008 and resume the call with SIP phone 2001</li><li>Hang up.</li></ul>																																								
Result (available in the Call List Report)	<table><thead><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr></thead><tbody><tr><td>06/03/09 15:09:34</td><td>00:00:23</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 15:09:34</td><td>00:00:23</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 15:09:17</td><td>00:00:55</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 15:09:17</td><td>00:00:55</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr></tbody></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:09:34	00:00:23	Int.	1008	1007	Neeil Mark	0.0000	Out	06/03/09 15:09:34	00:00:23	Int.	1007	1008	Smith John	0.0000	In	06/03/09 15:09:17	00:00:55	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 15:09:17	00:00:55	Int.	2001	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																		
06/03/09 15:09:34	00:00:23	Int.	1008	1007	Neeil Mark	0.0000	Out																																		
06/03/09 15:09:34	00:00:23	Int.	1007	1008	Smith John	0.0000	In																																		
06/03/09 15:09:17	00:00:55	Int.	1008	2001	Johnson Tom	0.0000	Out																																		
06/03/09 15:09:17	00:00:55	Int.	2001	1008	Smith John	0.0000	In																																		
Observations	<p>Read the sequence bottom up, 2 couple of records:</p> <ul style="list-style-type: none"><li>Call from 2001 to 1008 where the duration is the sum of the conversation time + the hold time</li><li>Call from 1007 to 1008 where the duration is the conversation time</li></ul>																																								

## 2.24 BARGE, IP PHONE, ORIGINATED CALL

Test Case Details	
<b>Description</b>	Barge, IP Phone, Originated Call
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>• From IP phone (A) with shared line 1008 place a call to PSTN phone 02987200 and talk 10 seconds</li> <li>• From another IP phone (B) with the 1008 shared line, Barge the established call, talk 14 seconds</li> <li>• From the target phone of the barge hang up (A)</li> </ul>

	<ul style="list-style-type: none"><li>Talk additional 10 seconds and hang up Phone B</li></ul>																							
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 15:16:30</td><td>00:00:34</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0368</td><td>Out</td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:16:30	00:00:34	Ext.	02987200	1008	Smith John	0.0368	Out
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																
	06/03/09 15:16:30	00:00:34	Ext.	02987200	1008	Smith John	0.0368	Out																
Observations	A single record is displayed, related to the call from 1008 to 02987200 where the duration of 34 seconds is the sum of the Phone A conversation + barged conversation + the Phone B conversation																							

## 2.25 BARGE, IP PHONE, TERMINATED CALL

Test Case Details								
Description	Barge, IP Phone, Terminated Call							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>IP phone (A) with shared line 1008 receives a call from PSTN phone 02987200 and talk 10 seconds</li><li>From another IP phone (B) with the 1008 shared line, Barge the established call, talk 20 seconds</li><li>From the target phone of the barge hang up (A)</li><li>Talk additional 5 seconds and hang up Phone B</li></ul>							
Result (available in the Call List Report)								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 15:24:17	00:00:11	Ext.	02987200	1008	Smith John	0.0000	In
	06/03/09 15:23:50	00:00:27	Ext.	02987200	1008	Smith John	0.0000	In
Observations	Read the sequence bottom up							

## 2.26 CBARGE, IP PHONE, ORIGINATED CALL

Test Case Details	
<b>Description</b>	cBarge, IP Phone, Originated Call
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone (A) with shared line 1008 place a call to PSTN phone 02987200 and talk 6 seconds</li> <li>From another IP phone (B) with the 1008 shared line, cBarge the established call, talk 13 seconds</li> <li>From the target phone of the barge hang up (A)</li> <li>Talk additional 9 seconds and hang up Phone B</li> </ul>

Read the sequence bottom up:

- Call from 1008 to 02987200 where the duration is the conversation time (6 seconds)
- 3 records showing all in Conference for 16 seconds. The call directions are respected, 1008 to 02987200 and 1008 to the void number (cBarge bridge)
- Call between PhoneB and 02987200 for additional 9 seconds



## 2.27 CBARGE, IP PHONE, TERMINATED CALL

<b>Observations</b>	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"><li>- Call from 02987200 to 1008 where the duration is the conversation time (11 seconds)</li><li>- 3 records showing all in Conference for 25 seconds (highlighted). The call directions are respected, 02987200 to 1008 and 1008 to the void number (cBarge bridge)</li><li>- Call from 02987200 to 1008 where the duration is the conversation time (12 seconds)</li></ul>
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## 2.28 EXTENSION MOBILITY

Test Case Details																							
Description	Extension Mobility																						
Test Setup	Figure 1																						
Procedure	<ul style="list-style-type: none"><li>From IP Phone A log onto extension mobility: username psdtuser password 123456</li><li>IP Phone A takes number 1008</li><li>Make a call from IP Phone A to PSTN Phone 02987200</li></ul>																						
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 15:54:38</td><td>00:00:05</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0054</td><td>Out</td></tr></table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:54:38	00:00:05	Ext.	02987200	1008	Smith John	0.0054	Out
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type															
	06/03/09 15:54:38	00:00:05	Ext.	02987200	1008	Smith John	0.0054	Out															
Observations	Correctly reported																						

## 2.29 IP PHONE CALL ROUTES USING FAC CODES AND THE HASH KEY

Test Case Details	
Description	IP Phone call routes using FAC codes and the hash key
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the FAC enabled PSTN number 02987200</li> <li>After the beep insert the FAC code number 8888 following by #, corresponding to the FAC code name "TEST"</li> <li>Talk and after a brief period, hang up.</li> </ul>
Result (available in the Call List Report)	<p><b>Public Reports</b></p> <ul style="list-style-type: none"> <li>1-Call Monitor</li> <li>2-Cost Analysis</li> <li>3-Group Analysis</li> <li>4-Department Analysis</li> <li>5-Cost Center Analysis</li> <li>6-Report Templates</li> <li>7-FAC &amp; CMC Analysis <ul style="list-style-type: none"> <li> <b>FAC level x Extension</b> What is the FAC level by E</li> <li> <b>CMC x Extension</b> What is the CMC by Exten</li> </ul> </li> </ul>

	Outgoing						
	FAC Description/Extension	Answer Calls		Duration		Med.	C
	test	1		00:00:04		00:00:04	0.00
	1008	1		00:00:04		00:00:04	0.00
		N.	Day	Date		Duration	Number
		1	Fri	06/03/09	16:09:35	00:00:04	02987200
Observations							

### 2.30 CALL WITH AN INCORRECT FAC CODE

Test Case Details	
Description	Call with an incorrect FAC code
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the FAC enabled PSTN number 02987200</li> <li>After the beep insert the incorrect FAC code number 4312 following by #</li> <li>Call is NOT established</li> </ul>
Result (available in the Call List Report)	No call reported
Observations	

### 2.31 IP PHONE CALL ROUTES USING CMC CODES AND THE HASH KEY

Test Case Details	
Description	IP Phone call routes using CMC codes and the hash key
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the CMC enabled PSTN number 02987200</li> <li>After the beep insert the CMC code number 7777 following by #, corresponding to the CMC code name "CMC TEST"</li> <li>Talk and after a brief period, hang up.</li> </ul>

Result  
(available in  
the Call List  
Report)

Public Reports

1-Call Monitor

2-Cost Analysis


3-Group Analysis

4-Department Analysis


5-Cost Center Analysis

6-Report Templates

7-FAC & CMC Analysis

 FAC level x Extension

What is the FAC level by Extension?

 CMC x Extension

What is the CMC by Extension?

CMC x Extension (Account/Extension)

For Calls from 3/6/2009 to 3/6/2009 11:59:59 PM, CMC Contains

Outgoing							
CMC/Extension	Answer Calls		Duration	Cost			
7777	1		00:00:10	0.0108			
1008	1		00:00:10	0.0108			
	R.	Day	Date	Duration	Number		
	1	Fri	06/03/09	15:20:10	02987200		

Observations

## 2.32 CALL WITH AN INCORRECT CMC CODE

Test Case Details	
<b>Description</b>	Call with an incorrect CMC code
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the CMC enabled PSTN number 02987200</li> <li>After the beep insert the incorrect CMC code number 4312 following by #</li> <li>Call is NOT established</li> </ul>
<b>Result (available in the Call List Report)</b>	No call reported
<b>Observations</b>	



### 3.3 INTERNAL CALL TO AN IP NUMBER UNOBTAINABLE

Test Case Details	
Description	Internal call to an IP number unobtainable
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to a number outside the CCM range that doesn't exist.</li><li>Unobtainable call</li></ul>
Result (available in the Call List Report)	No call reported
Observations	

### 3.4 INTERNAL CALL TO A BUSY IP EXTENSION

Test Case Details	
Description	Internal call to a busy IP extension
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the busy IP phone 1007</li><li>Answer the call and after a brief period, hang up.</li></ul>
Result (available in the Call List Report)	No call reported (the destIPAddress is 0 so call is discarded)
Observations	

### 3.5 OUTGOING CALL FROM AN IP PHONE TO PSTN


Test Case Details	
Description	Outgoing call from an IP Phone to PSTN
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the PSTN number 02987200</li><li>Answer the call and after a brief period, hang up.</li></ul>

Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Typ</th></tr><tr><td>05/03/09 20:25:28</td><td>00:00:08</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0064</td><td>Out</td></tr><tr><td colspan="8"></td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ	05/03/09 20:25:28	00:00:08	Ext.	02987200	1008	Smith John	0.0064	Out								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ																								
	05/03/09 20:25:28	00:00:08	Ext.	02987200	1008	Smith John	0.0064	Out																								
Observations																																

### 3.6 OUTGOING CALL TO A BUSY PSTN NUMBER

Test Case Details																							
Description	Outgoing call to a busy PSTN number																						
Test Setup	Figure 1																						
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008, place a call to the PSTN number 02987200</li><li>Busy tone</li></ul>																						
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Typ</th></tr><tr><td>05/03/09 20:34:18</td><td>00:00:00</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr></table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ	05/03/09 20:34:18	00:00:00	Ext.	02987200	1008	Smith John	0.0000	Out
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Typ															
	05/03/09 20:34:18	00:00:00	Ext.	02987200	1008	Smith John	0.0000	Out															
Observations																							

### 3.7 OUTGOING CALL TO A PSTN NUMBER UNOBTAINABLE

Test Case Details	
Description	Outgoing call to a PSTN number unobtainable
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to a not existing PSTN number, ex. 02101010</li> <li>Unobtainable call</li> </ul>
Result (available in the Call List Report)	
Observations	

### 3.8 INCOMING CALL FROM PSTN TO AN IP PHONE

Test Case Details	
-------------------	--

Description	Incoming call from PSTN to an IP Phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>Answer the call and after a brief period, hang up.</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 20:47:10	00:00:05	Ext.	02987200	1007	Neeil Mark	0.0000	In
Observations								

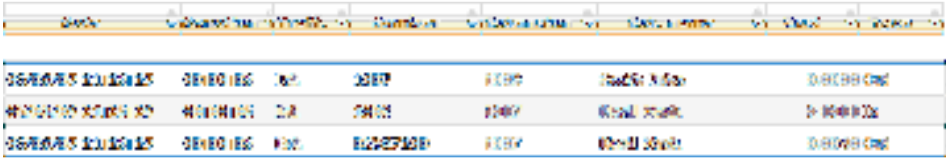
### 3.9 INCOMING CALL FROM PSTN TO A BUSY IP PHONE

Test Case Details	
<b>Description</b>	Incoming call from PSTN to a busy IP Phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Caller hears busy tone</li> </ul>
<b>Result (available in the Call List Report)</b>	No call reported (the destIPAddress is 0 so call is discarded)
<b>Observations</b>	

### 3.10 INCOMING CALL FROM PSTN TO AN IP PHONE WITHOUT ANSWER

Test Case Details	
<b>Description</b>	Incoming call from PSTN to an IP Phone without answer
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Call is no answered.</li> </ul>
<b>Result (available in the Call List Report)</b>	
<b>Observations</b>	No call reported

### 3.11 INTERNAL CALL TO AN IP PHONE FORWARDED TO A PSTN PHONE

Test Case Details	
<b>Description</b>	Internal call to an IP Phone forwarded to a PSTN phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>On IP phone 1007 set the call forward to the PSTN number 02987200</li> <li>From IP phone 1008, place a call to IP phone 1007</li> <li>Answer the call at 02987200 and after a brief period, hang up</li> </ul>
<b>Result (available in the Call List Report)</b>	
<b>Observations</b>	The PSTN call is correctly billed to the forwarding party.

### 3.12 INTERNAL CALL TO AN IP PHONE FORWARDED TO A SIP PHONE

Test Case Details								
Description	Internal call to an IP Phone forwarded to a SIP phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>On IP phone 1007 set the call forward to the SIP Phone 2001</li><li>From IP phone 1008, place a call to IP phone 1007</li><li>Answer the call on 2001 and after a brief period, hang up</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 22:13:13	00:00:04	Int.	2001	1008	Smith John	0.0000	Out
	05/03/09 22:13:13	00:00:04	Int.	1008	2001	Johnson Tom	0.0000	In
Observations								

### 3.13 INCOMING CALL TO AN IP PHONE FORWARDED TO ANOTHER IP PHONE

Test Case Details	
<b>Description</b>	Incoming call to an IP Phone forwarded to another IP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>On IP phone 1007 set the call forward to the IP Phone 1008</li> <li>IP phone 1007 receives a call from PSTN number 02987200</li> <li>Answer the call at 1008 and after a brief period, hang up</li> </ul>

Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>05/03/09 22:40:42</td><td>00:00:10</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td colspan="8"></td></tr></table>								Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	05/03/09 22:40:42	00:00:10	Ext.	02987200	1008	Smith John	0.0000	In								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																								
	05/03/09 22:40:42	00:00:10	Ext.	02987200	1008	Smith John	0.0000	In																								
Observations																																

### 3.14 INCOMING CALL TO AN IP PHONE, PARKED AND RETRIEVED FROM ANOTHER IP PHONE

Test Case Details							
Description	Incoming call to an IP Phone, parked and retrieved from another IP phone						
Test Setup	Figure 1						
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>Answer the call and after a brief period, park the call through the softkey.</li><li>After 10 seconds, IP phone 1008 dial the call park number and retrieve the call.</li><li>IP Phone 1008 talks for 12 seconds and then hangs up.</li></ul>						
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Cost	Type
	10/03/09 21:59:49	00:00:06	Ext.	02987200	1008	0.0000	In
	10/03/09 21:59:40	00:00:09	Ext.	02987200	1007	0.0000	In
	10/03/09 21:59:37	00:00:03	Ext.	02987200	1007	0.0000	In
Observations	Read the sequence bottom up						

### 3.15 OUTGOING CALL TO TO A PSTN NUMBER, PARKED AND RETRIEVED FROM ANOTHER IP PHONE

Test Case Details	
<b>Description</b>	Outgoing call to to a PSTN number, parked and retrieved from another IP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1007 place a call to PSTN number 02987200</li> <li>Talk for 11 seconds, park the call through the softkey.</li> <li>After 14 seconds, IP phone 1008 dial the call park number and retrieve the call.</li> <li>IP Phone 1008 talks for 14 seconds and then hangs up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	05/03/09 22:55:34	00:00:14	Ext.	02987200	1008	Smith John	0.0112	Out
	05/03/09 22:55:20	00:00:14	Ext.	02987200	1007	Neel Mark	0.0112	Out
	05/03/09 22:55:09	00:00:11	Ext.	02987200	1007	Neel Mark	0.0088	Out
Observations	3 records to be read bottom up: <ul style="list-style-type: none"> <li>- from 1007 to 02987200 with duration 11 seconds (conversation)</li> <li>- from 1007 to 02987200 with the duration of the park</li> <li>- from 1008 to 02987200 with duration 14 seconds (conversation)</li> </ul>							

### 3.16 INCOMING CALL TO AN IP PHONE PICKED UP FROM ANOTHER IP PHONE

Test Case Details																														
Description	Incoming call to an IP Phone picked up from another IP Phone																													
Test Setup	Figure 1																													
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>IP Phone 1008 takes the call selecting the PickUp softkey.</li><li>IP Phone 1008 talks for 6 seconds and then hangs up.</li></ul>																													
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 13:28:42</td><td>00:00:06</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td colspan="8"></td></tr></table>						Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 13:28:42	00:00:06	Ext.	02987200	1008	Smith John	0.0000	In								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																						
	06/03/09 13:28:42	00:00:06	Ext.	02987200	1008	Smith John	0.0000	In																						
Observations																														

### 3.17 INTERNAL CALL BETWEEN IP PHONES WITH CONSULTATIVE TRANSFER TO A SIP PHONE

Test Case Details	
<b>Description</b>	Internal call between IP Phones with consultative transfer to a SIP Phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>• From IP phone 1007, place a call to IP phone 1008</li> <li>• After talking 15 seconds, IP Phone 1008, press Transfer to put phone 1007 on hold for consultation</li> <li>• From IP phone 1008, place a call to SIP phone 2001 and talk 17 seconds</li> <li>• From IP phone 1008 transfer the held call</li> <li>• IP Phone 1007 and SIP Phone 2001 talk 23 seconds, then hang up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 13:38:04	00:00:23	Int.	2001	1007	Neeil Mark	0.0000	Out
	06/03/09 13:38:04	00:00:23	Int.	1007	2001	Johnson Tom	0.0000	In
	06/03/09 13:37:47	00:00:17	Int.	2001	1008	Smith John	0.0000	Out
	06/03/09 13:37:47	00:00:17	Int.	1008	2001	Johnson Tom	0.0000	In
	06/03/09 13:37:27	00:00:37	Int.	1008	1007	Neeil Mark	0.0000	Out
	06/03/09 13:37:27	00:00:37	Int.	1007	1008	Smith John	0.0000	In

Observations
<p>Read the sequence bottom up, 3 couple of records:</p> <ul style="list-style-type: none"> <li>- Call from 1007 to 1008 where the duration is the sum of the conversation time + the hold time</li> <li>- Call from 1008 to 2001 where the duration is the conversation time</li> <li>- Call from 1007 to 2001 (transferred call) where the duration is the conversation time</li> </ul>

### 3.18 INTERNAL CALL BETWEEN IP PHONES WITH CONSULTATIVE TRANSFER TO A PSTN PHONE

Test Case Details																																															
<b>Description</b>	Internal call between IP Phones with consultative transfer to a PSTN phone (Boss – Secretary)																																														
<b>Test Setup</b>	Figure 1																																														
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1007, place a call to IP phone 1008</li> <li>After talking 15 seconds, IP Phone 1008, press Transfer to put phone 1007 on hold for consultation</li> <li>From IP phone 1008, place a call to PSTN number 02987200 and talk 13 seconds</li> <li>From IP phone 1008 transfer the held call</li> <li>IP Phone 1007 and PSTN number 02987200 talk 40 seconds, then hang up.</li> </ul>																																														
<b>Result (available in the Call List Report)</b>	<table border="1"> <thead> <tr> <th>Date</th> <th>Duration</th> <th>Traff.</th> <th>Number</th> <th>Extension</th> <th>Ext. name</th> <th>Cost</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>06/03/09 13:50:30</td> <td>00:00:40</td> <td>Ext.</td> <td>02987200</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0433</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:50:17</td> <td>00:00:13</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0141</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:49:49</td> <td>00:00:41</td> <td>Int.</td> <td>1008</td> <td>1007</td> <td>Neeil Mark</td> <td>0.0000</td> <td>Out</td> </tr> <tr> <td>06/03/09 13:49:49</td> <td>00:00:41</td> <td>Int.</td> <td>1007</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> </tbody> </table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 13:50:30	00:00:40	Ext.	02987200	1007	Neeil Mark	0.0433	Out	06/03/09 13:50:17	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out	06/03/09 13:49:49	00:00:41	Int.	1008	1007	Neeil Mark	0.0000	Out	06/03/09 13:49:49	00:00:41	Int.	1007	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																								
06/03/09 13:50:30	00:00:40	Ext.	02987200	1007	Neeil Mark	0.0433	Out																																								
06/03/09 13:50:17	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out																																								
06/03/09 13:49:49	00:00:41	Int.	1008	1007	Neeil Mark	0.0000	Out																																								
06/03/09 13:49:49	00:00:41	Int.	1007	1008	Smith John	0.0000	In																																								
<b>Observations</b>	<p>Read the sequence bottom up, 3 records:</p> <ul style="list-style-type: none"> <li>Call from 1007 to 1008 where the duration is the sum of the conversation time + the hold time</li> <li>Call from 1008 to 02987200 where the duration is the conversation time</li> <li>Call from 1007 to 02987200 (transferred call) where the duration is the conversation time</li> </ul>																																														

### 3.19 INCOMING CALL TO AN IP PHONE WITH CONSULTATIVE TRANSFER TO ANOTHER IP PHONE

Test Case Details								
Description	Incoming call to an IP Phone with consultative transfer to another IP Phone							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>IP phone 1007 receives a call from PSTN number 02987200</li><li>After talking 10 seconds, IP Phone 1007, press Transfer to put the PSTN phone 02987200 on hold for consultation</li><li>From IP phone 1007, place a call to IP Phone 1008 and talk 13 seconds</li><li>From IP phone 1007 transfer the held call</li><li>IP Phone 1008 and PSTN number 02987200 talk 16 seconds, then hang up.</li></ul>							
Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 14:05:17	00:00:16	Ext.	02987200	1008	Smith John	0.0000	In
	06/03/09 14:05:04	00:00:13	Int.	1008	1007	Neeil Mark	0.0000	Out
	06/03/09 14:05:04	00:00:13	Int.	1007	1008	Smith John	0.0000	In
	06/03/09 14:04:44	00:00:33	Ext.	02987200	1007	Neeil Mark	0.0000	In
Observations	<p>Read the sequence bottom up, 4 records:</p> <ul style="list-style-type: none"><li>Call from 02987200 to 1007 where the duration is the sum of the conversation time + the hold time</li><li>2 records for the call from 1007 to 1008 where the duration is the conversation time</li><li>Call from 02987200 to 1008 (transferred call) where the duration is the conversation time</li></ul>							

### 3.20 CONFERENCE CALL BETWEEN IP PHONES AND SIP PHONE

Test Case Details	
<b>Description</b>	Conference call between IP phones and SIP phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From SIP phone 2001 place a call to IP phone 1008 and talk for 10 seconds.</li> <li>From IP phone 1008, press 'Conference' to place the SIP phone 2001 on hold.</li> <li>From IP Phone 1008 place a call to IP Phone 1007 and talk 10 seconds.</li> <li>On phone 1008 press 'Conference' to join all three parties together</li> </ul>

	<ul style="list-style-type: none"><li>• All talk 19 seconds in conference.</li><li>• Hang up phone 1008</li><li>• SIP Phone 2001 and IP Phone 1007 talk 12 seconds, then hang up.</li></ul>																																																																																								
<b>Result</b> (available in the Call List Report)	<table><thead><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr></thead><tbody><tr><td>06/03/09 14:11:44</td><td>00:00:12</td><td>Int.</td><td>1007</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:44</td><td>00:00:12</td><td>Int.</td><td>2001</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:25</td><td>00:00:19</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:11:15</td><td>00:00:10</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:11:15</td><td>00:00:10</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 14:10:57</td><td>00:00:27</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 14:10:57</td><td>00:00:27</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr></tbody></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 14:11:44	00:00:12	Int.	1007	2001	Johnson Tom	0.0000	Out	06/03/09 14:11:44	00:00:12	Int.	2001	1007	Neeil Mark	0.0000	In	06/03/09 14:11:25	00:00:19	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 14:11:25	00:00:19	Int.	2001	1008	Smith John	0.0000	In	06/03/09 14:11:25	00:00:19	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 14:11:25	00:00:19	Int.	1008	1007	Neeil Mark	0.0000	In	06/03/09 14:11:15	00:00:10	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 14:11:15	00:00:10	Int.	1008	1007	Neeil Mark	0.0000	In	06/03/09 14:10:57	00:00:27	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 14:10:57	00:00:27	Int.	2001	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																																																																		
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06/03/09 14:10:57	00:00:27	Int.	2001	1008	Smith John	0.0000	In																																																																																		
<b>Observations</b>	<p>Read the sequence bottom up, 5 couple of records:</p> <ul style="list-style-type: none"><li>- Call from 2001 to 1008 where the duration is the sum of the conversation time + the hold time</li><li>- Call from 1008 to 1007 where the duration is the conversation time</li><li>- 2 couple of records (highlighted in the figure) showing all in Conference for 19 seconds. The call directions are respected, 1008 to 1007 and 2001 to 1008</li><li>- Call from 2001 to 1007 for 12 seconds after 1008 hanged up dropping the conference</li></ul>																																																																																								

### 3.21 CONFERENCE CALL BETWEEN IP PHONES AND INCOMING PSTN PHONE

Test Case Details	
<b>Description</b>	Conference call between IP phones and incoming PSTN phone
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008 receives a call from PSTN phone 02987200 and talk for 20 seconds.</li> <li>From IP phone 1008, press 'Conference' to place the PSTN phone on hold.</li> <li>From IP Phone 1008 place a call to IP Phone 1007 and talk 8 seconds.</li> <li>On phone 1008 press 'Conference' to join all three parties together</li> <li>All talk 10 seconds in conference.</li> <li>Hang up phone 1008</li> <li>IP Phone 1007 and PSTN phone 02987200 talk 13 seconds, then hang up.</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Department	Cost	Type
	10/03/09 17:18:09	00:00:10	Ext.	02987200	1007		0.0000	In
	10/03/09 17:18:03	00:00:06	Int.	1007	1008		0.0000	Out
	10/03/09 17:18:03	00:00:06	Int.	1008	1007		0.0000	In
	10/03/09 17:18:02	00:00:07	Ext.	02987200	1008		0.0000	In
	10/03/09 17:17:58	00:00:04	Int.	1007	1008		0.0000	Out
	10/03/09 17:17:58	00:00:04	Int.	1008	1007		0.0000	In
	10/03/09 17:17:46	00:00:16	Ext.	02987200	1008		0.0000	In
Observations	Read the sequence bottom up: <ul style="list-style-type: none"><li>- Call from 02987200 to 1008 where the duration is the sum of the conversation time + the hold time</li><li>- Call from 1008 to 1007 where the duration is the conversation time (10 seconds)</li><li>- 3 records showing all in Conference for 20 seconds. The call directions are respected, 02987200 to 1008 and 1008 to 1007</li><li>- Call between 02987200 to 1007</li></ul>							

### 3.22 CONFERENCE CALL BETWEEN IP PHONES AND OUTGOING PSTN PHONE

Test Case Details																																																																	
Description	Conference call between IP phones and outgoing PSTN phone																																																																
Test Setup	Figure 1																																																																
Procedure	<ul style="list-style-type: none"><li>From IP phone 1008 place a call to PSTN phone 02987200 and talk for 20 seconds.</li><li>From IP phone 1008, press 'Conference' to place the PSTN phone on hold.</li><li>From IP Phone 1008 place a call to IP Phone 1007 and talk 8 seconds.</li><li>On phone 1008 press 'Conference' to join all three parties together</li><li>All talk 10 seconds in conference.</li><li>Hang up phone 1008</li><li>IP Phone 1007 and PSTN phone 02987200 talk 13 seconds, then hang up.</li></ul>																																																																
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 16:29:20</td><td>00:00:13</td><td>Ext.</td><td>02987200</td><td>1007</td><td>Neel Mark</td><td>0.0141</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0108</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 16:29:10</td><td>00:00:10</td><td>Int.</td><td>1008</td><td>1007</td><td>Neel Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 16:29:02</td><td>00:00:08</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 16:29:02</td><td>00:00:08</td><td>Int.</td><td>1008</td><td>1007</td><td>Neel Mark</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 16:28:39</td><td>00:00:31</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0336</td><td>Out</td></tr></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 16:29:20	00:00:13	Ext.	02987200	1007	Neel Mark	0.0141	Out	06/03/09 16:29:10	00:00:10	Ext.	02987200	1008	Smith John	0.0108	Out	06/03/09 16:29:10	00:00:10	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 16:29:10	00:00:10	Int.	1008	1007	Neel Mark	0.0000	In	06/03/09 16:29:02	00:00:08	Int.	1007	1008	Smith John	0.0000	Out	06/03/09 16:29:02	00:00:08	Int.	1008	1007	Neel Mark	0.0000	In	06/03/09 16:28:39	00:00:31	Ext.	02987200	1008	Smith John	0.0336	Out
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																																										
06/03/09 16:29:20	00:00:13	Ext.	02987200	1007	Neel Mark	0.0141	Out																																																										
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06/03/09 16:29:10	00:00:10	Int.	1007	1008	Smith John	0.0000	Out																																																										
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06/03/09 16:29:02	00:00:08	Int.	1007	1008	Smith John	0.0000	Out																																																										
06/03/09 16:29:02	00:00:08	Int.	1008	1007	Neel Mark	0.0000	In																																																										
06/03/09 16:28:39	00:00:31	Ext.	02987200	1008	Smith John	0.0336	Out																																																										
Observations	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"><li>Call from 1008 to 02987200 where the duration is the sum of the</li></ul>																																																																

	<p>conversation time + the hold time</p> <ul style="list-style-type: none"> <li>- Call from 1008 to 1007 where the duration is the conversation time (10 seconds)</li> <li>- 3 records showing all in Conference for 20 seconds. The call directions are respected, 1008 to 02987200 and 1008 to 1007</li> <li>- Call between 1007 and 02987200</li> </ul>
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### 3.23 MULTIPLE CALLS PER LINE (CALL WAITING)

Test Case Details																																									
Description	Multiple calls per line (Call waiting)																																								
Test Setup	Figure 1																																								
Procedure	<ul style="list-style-type: none"><li>Place a call from SIP phone 2001 to an IP phone 1008</li><li>Place another call from IP phone 1007 to IP phone 1008 (answer the incoming call, placing the original call on hold)</li><li>Hangup the current call on IP phone 1008 and resume the call with SIP phone 2001</li><li>Hang up.</li></ul>																																								
Result (available in the Call List Report)	<table><thead><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr></thead><tbody><tr><td>06/03/09 15:09:34</td><td>00:00:23</td><td>Int.</td><td>1008</td><td>1007</td><td>Neeil Mark</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 15:09:34</td><td>00:00:23</td><td>Int.</td><td>1007</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr><tr><td>06/03/09 15:09:17</td><td>00:00:55</td><td>Int.</td><td>1008</td><td>2001</td><td>Johnson Tom</td><td>0.0000</td><td>Out</td></tr><tr><td>06/03/09 15:09:17</td><td>00:00:55</td><td>Int.</td><td>2001</td><td>1008</td><td>Smith John</td><td>0.0000</td><td>In</td></tr></tbody></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:09:34	00:00:23	Int.	1008	1007	Neeil Mark	0.0000	Out	06/03/09 15:09:34	00:00:23	Int.	1007	1008	Smith John	0.0000	In	06/03/09 15:09:17	00:00:55	Int.	1008	2001	Johnson Tom	0.0000	Out	06/03/09 15:09:17	00:00:55	Int.	2001	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																		
06/03/09 15:09:34	00:00:23	Int.	1008	1007	Neeil Mark	0.0000	Out																																		
06/03/09 15:09:34	00:00:23	Int.	1007	1008	Smith John	0.0000	In																																		
06/03/09 15:09:17	00:00:55	Int.	1008	2001	Johnson Tom	0.0000	Out																																		
06/03/09 15:09:17	00:00:55	Int.	2001	1008	Smith John	0.0000	In																																		
Observations	<p>Read the sequence bottom up, 2 couple of records:</p> <ul style="list-style-type: none"><li>Call from 2001 to 1008 where the duration is the sum of the conversation time + the hold time</li><li>Call from 1007 to 1008 where the duration is the conversation time</li></ul>																																								

### 3.24 BARGE, IP PHONE, ORIGINATED CALL

Test Case Details	
<b>Description</b>	Barge, IP Phone, Originated Call
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>• From IP phone (A) with shared line 1008 place a call to PSTN phone 02987200 and talk 10 seconds</li> <li>• From another IP phone (B) with the 1008 shared line, Barge the established call, talk 14 seconds</li> <li>• From the target phone of the barge hang up (A)</li> </ul>

	<ul style="list-style-type: none"><li>Talk additional 10 seconds and hang up Phone B</li></ul>							
Result (available in the Call List Report)								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 15:16:30	00:00:34	Ext.	02987200	1008	Smith John	0.0368	Out
Observations	A single record is displayed, related to the call from 1008 to 02987200 where the duration of 34 seconds is the sum of the Phone A conversation + barged conversation + the Phone B conversation							

### 3.25 BARGE, IP PHONE, TERMINATED CALL

Test Case Details								
Description	Barge, IP Phone, Terminated Call							
Test Setup	Figure 1							
Procedure	<ul style="list-style-type: none"><li>IP phone (A) with shared line 1008 receives a call from PSTN phone 02987200 and talk 10 seconds</li><li>From another IP phone (B) with the 1008 shared line, Barge the established call, talk 20 seconds</li><li>From the target phone of the barge hang up (A)</li><li>Talk additional 5 seconds and hang up Phone B</li></ul>							
Result (available in the Call List Report)								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 15:24:17	00:00:11	Ext.	02987200	1008	Smith John	0.0000	In
	06/03/09 15:23:50	00:00:27	Ext.	02987200	1008	Smith John	0.0000	In
Observations	Read the sequence bottom up							

### 3.26 CBARGE, IP PHONE, ORIGINATED CALL

Test Case Details	
<b>Description</b>	cBarge, IP Phone, Originated Call
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone (A) with shared line 1008 place a call to PSTN phone 02987200 and talk 6 seconds</li> <li>From another IP phone (B) with the 1008 shared line, cBarge the established call, talk 13 seconds</li> <li>From the target phone of the barge hang up (A)</li> <li>Talk additional 9 seconds and hang up Phone B</li> </ul>

Result (available in the Call List Report)	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
	06/03/09 16:46:00	00:00:09	Ext.	02987200	1008	Smith John	0.0098	Out
	06/03/09 16:45:47	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out
	06/03/09 16:45:47	00:00:13	Int.	1008			0.0000	Out
	06/03/09 16:45:47	00:00:13	Int.		1008	Smith John	0.0000	In
	06/03/09 16:45:41	00:00:06	Ext.	02987200	1008	Smith John	0.0065	Out

Observations	
	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"> <li>- Call from 1008 to 02987200 where the duration is the conversation time (6 seconds)</li> <li>- 3 records showing all in Conference for 16 seconds. The call directions are respected, 1008 to 02987200 and 1008 to the void number (cBarge bridge)</li> <li>- Call between PhoneB and 02987200 for additional 9 seconds</li> </ul>

Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
06/03/09 16:46:00	00:00:09	Ext.	02987200	1008	Smith John	0.0098	Out
06/03/09 16:45:47	00:00:13	Ext.	02987200	1008	Smith John	0.0141	Out
06/03/09 16:45:47	00:00:13	Int.	1008			0.0000	Out
06/03/09 16:45:47	00:00:13	Int.		1008	Smith John	0.0000	In
06/03/09 16:45:41	00:00:06	Ext.	02987200	1008	Smith John	0.0065	Out

Observations
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Read the sequence bottom up:

- Call from 1008 to 02987200 where the duration is the conversation time (6 seconds)
- 3 records showing all in Conference for 16 seconds. The call directions are respected, 1008 to 02987200 and 1008 to the void number (cBarge bridge)
- Call between PhoneB and 02987200 for additional 9 seconds

### 3.27 CBARGE, IP PHONE, TERMINATED CALL

Test Case Details																																																							
<b>Description</b>	cBarge, IP Phone, Terminated Call																																																						
<b>Test Setup</b>	Figure 1																																																						
<b>Procedure</b>	<ul style="list-style-type: none"> <li>IP phone (A) with shared line 1008 receives a call from PSTN phone 02987200 and talk 11 seconds</li> <li>From another IP phone (B) with the 1008 shared line, Barge the established call, talk 20 seconds</li> <li>From the target phone of the barge hang up (A)</li> <li>Talk additional 12 seconds and hang up Phone B</li> </ul>																																																						
<b>Result (available in the Call List Report)</b>	<table border="1"> <thead> <tr> <th>Date</th> <th>Duration</th> <th>Traff.</th> <th>Number</th> <th>Extension</th> <th>Ext. name</th> <th>Cost</th> <th>Type</th> </tr> </thead> <tbody> <tr> <td>06/03/09 15:42:59</td> <td>00:00:12</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> <tr> <td>06/03/09 15:42:34</td> <td>00:00:25</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> <tr> <td>06/03/09 15:42:34</td> <td>00:00:25</td> <td>Int.</td> <td>1008</td> <td></td> <td></td> <td>0.0000</td> <td>Out</td> </tr> <tr> <td>06/03/09 15:42:34</td> <td>00:00:25</td> <td>Int.</td> <td></td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> <tr> <td>06/03/09 15:42:23</td> <td>00:00:11</td> <td>Ext.</td> <td>02987200</td> <td>1008</td> <td>Smith John</td> <td>0.0000</td> <td>In</td> </tr> </tbody> </table>							Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:42:59	00:00:12	Ext.	02987200	1008	Smith John	0.0000	In	06/03/09 15:42:34	00:00:25	Ext.	02987200	1008	Smith John	0.0000	In	06/03/09 15:42:34	00:00:25	Int.	1008			0.0000	Out	06/03/09 15:42:34	00:00:25	Int.		1008	Smith John	0.0000	In	06/03/09 15:42:23	00:00:11	Ext.	02987200	1008	Smith John	0.0000	In
Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																																																
06/03/09 15:42:59	00:00:12	Ext.	02987200	1008	Smith John	0.0000	In																																																
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06/03/09 15:42:23	00:00:11	Ext.	02987200	1008	Smith John	0.0000	In																																																
<b>Observations</b>	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"> <li>Call from 02987200 to 1008 where the duration is the conversation time (11 seconds)</li> <li>3 records showing all in Conference for 25 seconds (highlighted). The call directions are respected, 02987200 to 1008 and 1008 to the void number (cBarge bridge)</li> <li>Call from 02987200 to 1008 where the duration is the conversation time (12 seconds)</li> </ul>																																																						

<b>Description</b>	cBarge, IP Phone, Terminated Call
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<b>Test Setup</b>	Figure 1
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<b>Procedure</b>	<ul style="list-style-type: none"> <li>• IP phone (A) with shared line 1008 receives a call from PSTN phone 02987200 and talk 11 seconds</li> <li>• From another IP phone (B) with the 1008 shared line, Barge the established call, talk 20 seconds</li> <li>• From the target phone of the barge hang up (A)</li> <li>• Talk additional 12 seconds and hang up Phone B</li> </ul>
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Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type
06/03/09 15:42:59	00:00:12	Ext.	02987200	1008	Smith John	0.0000	In
06/03/09 15:42:34	00:00:25	Ext.	02987200	1008	Smith John	0.0000	In
06/03/09 15:42:34	00:00:25	Int.	1008			0.0000	Out
06/03/09 15:42:34	00:00:25	Int.		1008	Smith John	0.0000	In
06/03/09 15:42:23	00:00:11	Ext.	02987200	1008	Smith John	0.0000	In

<b>Observations</b>	<p>Read the sequence bottom up:</p> <ul style="list-style-type: none"> <li>- Call from 02987200 to 1008 where the duration is the conversation time (11 seconds)</li> <li>- 3 records showing all in Conference for 25 seconds (highlighted). The call directions are respected, 02987200 to 1008 and 1008 to the void number (cBarge bridge)</li> <li>- Call from 02987200 to 1008 where the duration is the conversation time (12 seconds)</li> </ul>
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### 3.28 EXTENSION MOBILITY

Test Case Details																								
Description	Extension Mobility																							
Test Setup	Figure 1																							
Procedure	<ul style="list-style-type: none"><li>From IP Phone A log onto extension mobility: username psdtuser password 123456</li><li>IP Phone A takes number 1008</li><li>Make a call from IP Phone A to PSTN Phone 02987200</li></ul>																							
Result (available in the Call List Report)	<table><tr><th>Date</th><th>Duration</th><th>Traff.</th><th>Number</th><th>Extension</th><th>Ext. name</th><th>Cost</th><th>Type</th></tr><tr><td>06/03/09 15:54:38</td><td>00:00:05</td><td>Ext.</td><td>02987200</td><td>1008</td><td>Smith John</td><td>0.0054 Out</td></tr><tr><td colspan="8"></td></tr></table>	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type	06/03/09 15:54:38	00:00:05	Ext.	02987200	1008	Smith John	0.0054 Out								
	Date	Duration	Traff.	Number	Extension	Ext. name	Cost	Type																
	06/03/09 15:54:38	00:00:05	Ext.	02987200	1008	Smith John	0.0054 Out																	
Observations	Correctly reported																							

### 3.29 IP PHONE CALL ROUTES USING FAC CODES AND THE HASH KEY

Test Case Details	
<b>Description</b>	IP Phone call routes using FAC codes and the hash key
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the FAC enabled PSTN number 02987200</li> <li>After the beep insert the FAC code number 8888 following by #, corresponding to the FAC code name "TEST"</li> <li>Talk and after a brief period, hang up.</li> </ul>
<b>Result (available in the Call List Report)</b>	<p><b>Public Reports</b></p> <ul style="list-style-type: none"> <li>1-Call Monitor</li> <li>2-Cost Analysis</li> <li>3-Group Analysis</li> <li>4-Department Analysis</li> <li>5-Cost Center Analysis</li> <li>6-Report Templates</li> <li>7-FAC &amp; CMC Analysis <ul style="list-style-type: none"> <li> <b>FAC level x Extension</b> What is the FAC level by E</li> <li> <b>CMC x Extension</b> What is the CMC by Exten</li> </ul> </li> </ul>

	Outgoing						
	FAC Description/Extension	Answer Calls		Duration		Med.	C
	test	1		00:00:04		00:00:04	0.01
	1008	1		00:00:04		00:00:04	0.01
		N.	Day	Date		Duration	Number
		1	Fri	06/03/09	16:09:35	00:00:04	02987200
Observations							

### 3.30 CALL WITH AN INCORRECT FAC CODE

Test Case Details	
<b>Description</b>	Call with an incorrect FAC code
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the FAC enabled PSTN number 02987200</li> <li>After the beep insert the incorrect FAC code number 4312 following by #</li> <li>Call is NOT established</li> </ul>
<b>Result (available in the Call List Report)</b>	No call reported
<b>Observations</b>	

### 3.31 IP PHONE CALL ROUTES USING CMC CODES AND THE HASH KEY

Test Case Details	
<b>Description</b>	IP Phone call routes using CMC codes and the hash key
<b>Test Setup</b>	Figure 1
<b>Procedure</b>	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the CMC enabled PSTN number 02987200</li> <li>After the beep insert the CMC code number 7777 following by #, corresponding to the CMC code name "CMC TEST"</li> <li>Talk and after a brief period, hang up.</li> </ul>

Result  
(available in  
the Call List  
Report)

Public Reports

1-Call Monitor

2-Cost Analysis


3-Group Analysis

4-Department Analysis

5-Cost Center Analysis


6-Report Templates

7-FAC & CMC Analysis



FAC level x Extension

What is the FAC level by Extension?



CMC x Extension

What is the CMC by Extension?

CMC x Extension (Account/Extension)

For Calls from 3/6/2009 to 3/6/2009 11:59:59 PM, CMC Contains

Outgoing

CMC/Extension	Answer Calls	Duration	Cost
7777	1	00:00:10	0.0108
1008	1	00:00:10	0.0108

R.	Day	Date	Duration	Number
1	Fri	06/03/09	15:20:10	02987200

Observations

### 3.32 CALL WITH AN INCORRECT CMC CODE

Test Case Details	
Description	Call with an incorrect CMC code
Test Setup	Figure 1
Procedure	<ul style="list-style-type: none"> <li>From IP phone 1008, place a call to the CMC enabled PSTN number 02987200</li> <li>After the beep insert the incorrect CMC code number 4312 following by #</li> <li>Call is NOT established</li> </ul>
Result (available in the Call List Report)	No call reported
Observations	