

1. Test results in Detail

This test has been performed to check the interworking of the Konftel 200W with the CMI system of HiPath 4000 System in the HiPath ready lab of Siemens. For that reason different call scenarios are executed and the proper reactions of both Konftel200W and the HiPath 4000 are checked. The test was performed by Konftel with the assistance of Mr Josef Glasl from Siemens.

1.1 Login Procedure

This test part checks the correct login of the DECT Conference Phone Konftel 200W on CMI system in HiPath 4000. The AC (Access code) number has 8 digits (e.g.00004805). For that different call scenarios are executed.

No	Test Procedure	Expected Result	Result
1.	Configuration of GAP subscriber with number 4805 using CAT tool. Activation of the login window on HiPath system according login procedure. Login of 200W phone using setting system 1 on phone.	200W (4805) is able to call a phone on the HiPath system.	OK
2.	Configuration of GAP subscriber with number 4825 using CAT tool. Activation of the login window on HiPath system according login procedure. Login of 200W phone using setting system 2 on phone.	200W (4825) is able to call a phone on the HiPath system.	OK
3	200W is set exclusive to value system 2 with number 4825. Phone 3356 calls 4825.	200W is ringing. Call is possible.	OK
4	200W is set exclusive to value system 2 with number 4825. Phone 3356 calls 4805 which is stored in system 1.	200W is not ringing. Call is not possible.	OK
5	200W is set exclusive to value system 1 with number 4805. Phone 3356 calls 4805.	200W #1 is ringing. Call is possible.	OK
6.	200W is set exclusive to value system 1 with number 4805. Phone 3356 calls 4825.	200W is not ringing. Call is not possible.	OK
7.	200W is set automatically. 200W chooses system 1 random system with number 4805. Phone 3356 calls 4805.	200W is ringing. Call is possible	OK
8.	200W is set automatically. 200W chooses system 1 with number 4805. Phone 3356 calls 4825.	200W is not ringing. Call is not possible.	OK <i>Note: Going back from Auto to Base 1 failed one time. Could not be repeated...</i>
9.	Gigaset 4000 comfort (GAP) logs in on number 4805, which is used for 200W. Phone 3356 calls 4805.	Gigaset 4000 is ringing and call is possible. Phone call from 200W is not possible.	OK Note that the 200W will still be indicating radio signal but will give busy tone and no line.
10.	200W logs in on number 4805 again. Phone 3356 calls 4805.	200W is ringing and call is possible.	OK
11.	200W logs out of HiPath cordless system.	200W goes out of service. Is not reachable by HiPath phones.	OK
12.	200W logs in again on HiPath cordless system.	200W goes back into service. Is reachable again.	OK

1.2 Encryption setting

This test part checks the correct functionality of encryption setting.

No	Test Procedure	Expected Result	Result
13.	Encryption is activated on CMI system by CAT tool. 200W calls 3356.	Call is possible.	Reregistration of the 200W is necessary after activating encryption.
14.	Encryption is deactivated on CMI system by CAT tool. 200W calls 3356.	Call is possible	Reregistration of the 200W is necessary after de-activating encryption.

1.3 Basic internal calls

This test part checks the correct functionality of different basic call scenarios.

Call scenarios will be done using an analogue phone with no. 2300, a digital phone with no. 3356, a comfort cordless phone with no. 4802, a GAP phone with no. 4806 and further 200W phone with no: 4825.

No	Test Procedure	Expected Result	Result Analog, Digital, Comfort,GAP and 200W (4825)
15.	200W phone 4805 calls a phone. The phone takes the call. Caller goes on hook.	Call is possible. Connection is released.	OK
16.	200W phone 4805 calls a phone. The phone takes the call. Called party goes on hook.	Call is possible. Connection is released	OK
17.	A Phone calls 200W phone 4805. 4805 takes the call. Caller goes on hook.	Call is possible. Connection is released	OK
18.	A Phone calls 200W phone 4805. 4805 takes the call. Called party goes on hook.	Call is possible. Connection is released	OK

1.4 Basic external calls

This test part checks the correct functionality of different basic external call scenarios.

The used analogue CO line has the external number 01/3709164 and the digital CO line has the external number 01/3709325.

No	Test Procedure	Expected Result	Result
19.	200W phone 4805 calls phone 3156 which is in the HiPath network.	Call is possible.	OK
20.	Phone 3156, which is in the HiPath 4000 network, calls the 200W phone 4805.	Call is possible.	OK
21.	200W phone 4805 calls external phone 20-051707-42496 usin which is in the HiPath network.	Call is possible.	OK
22.	External phone 20-051707-42496 calls 200W 4805 using CO.	Call is possible.	OK
23.	200W phone 4805 calls external phone 11-051707-42496 using analog CO..	Call is possible.	OK
24.	External phone 11-051707-42496 calls 200W 4805 using analog CO.	Call is possible.	OK

1.5 Communication Features

This part checks the correct interaction of Konftel 200W to HiPath 4000 system, when communication features are used.

No	Test Procedure	Expected Result	Result
25.	200W phone 4805 calls phone 3356 using dialing manually.	Call is possible.	OK
26.	200W phone 4805 calls phone 3356 using block dialing	Call is possible.	OK
27.	200W phone 4805 calls phone 4801 using emergency key on 200W phone.	Call is possible.	N/A (Not applicable for 200W)
28.	200W phone 4805 uses mode silent loading. The line of 200W 4805 on HiPath is set out of order (status TRS). Phone 3356 calls 200W	200W is not ringing. It only will be charged in loading station.	N/A (Not applicable for 200W)
29.	Mode Silent loading on 200W phone 4805 is deactivated. The line of 200W 4805 on HiPath goes back in order (status Ready). Phone 3356 calls 200W	Call is possible	N/A (Not applicable for 200W)
30.	200W phone 4805 calls phone 3356 using recall.	Call is possible	OK
31.	200W phone 4805 calls phone 3356 using local phonebook.	Callback is possible.	OK
32.	Phone 3356 calls 200W 4805. 200W initiates a callback by using R key and calls phone 3358. Phone 3358 goes off hook.	Callback is possible	OK
33.	200W phone has a call to phone 3356 and a consultation with phone 3358. Press R-key on 200W to get back the call to 3356.	200W phone gets back call to phone 3356. Call to 3358 is released.	OK
34.	200W phone 4805 has a call to phone 3356. 200W disconnect phone call using the hook key.	Call is disconnected.	OK
35.	200W phone 4805 has a call to phone 3356 and a consultation to phone 3358. 200W forwards call from phone 3356 to phone 3358 going on hook.	200W is idle. Phone 3356 is connected to phone 3358.	OK
36.	200W phone 4805 activates fixed call forwarding to phone 3356 dialling following digits. 200W dials *51-3356# or 851-3356#	200W phone 4805 is forwarded to phone 3356.	OK

37.	200W phone 4805 activates fixed call forwarding to phone 3356 dialling following digits. 200W dials *41.	200W phone 4805 is forwarded to phone 3356.	OK
38.	200W phone 4805 deactivates fixed call forwarding to phone 3356 dialling following digits. 200W dials #41.	200W phone 4805 is not forwarded to phone 3356.	OK
39.	200W phone 4805 calls phone 3356, which is busy. 200W has allowance for knocking on. Product dials *18 to knock on to phone 3356.	Phone 3356 gets a knock on sign, goes off hook to release call and gets call to 200W.	OK
40.	200W phone 4805 calls phone 3356, which is busy. 200W has allowance for overriding. 200W dials *18 to override phone 3356.	Phone 3356 is able to hear 200W and takes 200W	OK
41.	200W phone 4805 is member of the pickup group. Phone 3356 also a member of the pickup group, gets the call. (*70)	200W gets a signal for the call to phone 3356 and takes this call.	OK
42.	200W phone 4805 makes a phone call to 3356 on hold and a consultation to 3358. 200W toggles to the hold phone call to 3356 pushing R key again.	200W gets the hold call. The consultation call goes on hold.	The function (german: Makeln) is not supported by the HiPath 4000 when the function is initiated from the 200W or any other generic DECT/GAP phone that we tested in the lab.
43.	Conference *30 (830)	Feature conference	OK
44.	DTMF dial thru. MFV umschaltung *86	Open DTMF dialing thru	OK
45.	200W calls internal phone 3356. 3356 takes the call. 200W dials further digits to send the MFV(DTMF) tones to 3356.	Phone 3356 can hear the DTMF tones. Phone 3356 must have setting mfvgrstr=y set with AMO SBCSU	OK

1.6 Reliability

After regaining normal processing state the functionality of Konftel 200W was checked. Disturbance has to be detected by 200W and it has to come to normal processing state without manual interference.

1.6.1 HiPath 4000 v.2.0

No	Test Procedure	Expected Result	Result
46.	Power off/on of HiPath 4000	200W is able to call a phone on the HiPath system. No manual interference.	OK
47.	Hard Restart of HiPath 4000	200W is able to call a phone on the HiPath system. No manual interference.	OK
48.	Soft Restart of HiPath 4000	200W is able to call a phone on the HiPath system. No manual interference.	OK

1.6.2 HiPath CMI System

No	Test Procedure	Expected Result	Result
49.	Pull base station cable and put it back again.	200W is able to call a phone on the HiPath system. No manual interference.	OK
50.	Pull SLC24 board and put it back again. (Switched On/Off)	200W is able to call a phone on the HiPath system. No manual interference.	OK
51.	Pull cable of phone 3356, which is in the connection with 200W phone 4805.	200W is able to call a phone on the HiPath system. No manual interference.	OK
52.	Pull SLMO board and put it back again. Phone 3356 is connected to this board and phone 3356 is in connection with 200W number 4805.	200W is able to call a phone on the HiPath system. No manual interference.	OK

1.6.3 Konftel 200W conference phone

No	Test Procedure	Expected Result	Result
53.	Power off / on of 200W.	200W comes back to work without manual interference.	OK

1.7 Radio field

This part checks the correct behaviour if cordless phone 200W enters or leaves radio field of CMI system.

No	Test Procedure	Expected Result	Result
54.	200W initiates a call and moves out of the radio field area. Tried to simulate reducing the radiation of the base station.	Call release. 200W shows no contact to radio field.	OK
55.	200W is on and enters radio field area. It initiates a call to phone 3356. 3356 takes the call.	Connection is possible.	OK
56.	200W initiates a call and moves out of radio field area. Afterward the 200W will be switched off and then switch back in radio field area. 200W calls phone 3356. 3356 takes the call.	Call is possible. 200W goes in to order.	OK

1.8 Handover

This part checks the correct behaviour if the cordless phone changes position in radio location area. For that different call scenarios are executed.

The Konftel 200W is not designed to be portable during conversations. Therefore it is not powered with batteries but powered via a power supply with 7 meter cable.

Therefore the 200W does not support handover.

1.9 Roaming

This test part checks the correct behaviour if cordless phone changes position in radio location area. For that different call scenarios are executed.

This is indeed a important function for the 200W. Therefore roaming is supported by 200W !

No	Test Procedure	Expected Result	Result
62.	200W initiates roaming between 2 base stations connected to the same SLC24 board.	Flashing light on base stations displays roaming.	OK
63.	200W initiates roaming between 2 base stations connected to different SLC24 boards on the same HiPath 4000 system.	Flashing light on base stations displays roaming.	OK
64.	200W initiates roaming between 2 base stations connected to different SLC24 board on 2 different HiPath 4000 systems.	Flashing light on base stations displays roaming.	OK

1.10 Configuration activities

This test part checks the correct behaviour if configuration of cordless phone (200W) changes. For that different call scenarios are executed.

No	Test Procedure	Expected Result	Result
65.	200W logs out of HiPath CMI system..	Calls are not more possible.	OK, Note that deregistration is proprietary in HiPath 4000.
66.	200W will be logged out by HiPath CMI system.	Calls are not more possible.	OK. Important: The signal indicator of the 200W will still indicate that 200W works with the HiPath system.
67.	Hicom PIN of 200W changes in HiPath system.	200W is working without problem.	OK
68.	Cordless PIN of 200W changes in HiPath system. Cordless PIN is used for value AC (Access code) on 200W, if 200W is logged in.	200W goes out of service. Newly login of 200W is necessary.	OK

69.	Configutration of 200W will be removed from HiPath CMI system.	200W goes out of service.	OK
70.	Home SLC for 200W changes.	200W goes out of service. It has to be logged in newly.	OK
71.	200W phone 4805 gets defective. It is exchange by another 200W. The second 200W is logged in with number 4805.	Second 200W is working with number 4805. First 200W is out of service.	OK

1.11 Stress test

This part checks the correct behaviour of 200W in stress situation.

No	Test Procedure	Expected Result	Result
72.	200W initiates a call to phone 3356 and continues the call over a period of 15 hours.	Call is alive the whole time.	Has not been tested in the full length. But we did not experience any problem during the test sessions.
73.	200W phone 4805 makes up to 100 calls to 3356 during the test sessions.	Phone 3356 to answer on every call	OK
74.	3356 makes up to 100 calls to 200W phone 4805 during the 2 days of testing.	200W to answer on every call.	OK
75.	Base station is handling 4 smltanous calls. 200W makes a call using the same base station.	Should work	OK
76.	AC code works after more then 2 day of operation.		OK

2. Conclusion:

The tests performed show that the Konftel 200W meet the Konftels requirements for interworking with Siemens HiPath 4000.