

## innovaphone Compatibility Test Report

Vendor: *Speechdesign*  
Model: *Teleserver MobilePro*  
Last Update: Monday, 28 November 2005

## 1 Background Information

## 2 Device Tested

Information in this chapter is derived from accompanying material and/or from visual inspection or from testing.

Sample chart

Sign	Category
Yes/ok	Yes, feature is present/ok
no	No, feature is not present/ok
n/a	Feature does not apply
nt	Not tested

### Basic Device Information

Manufacturer	Speechdesign
Model	MobilePro Server
Hardware Revision	2005
Firmware Revision	E-Version: V 04.02
	WEB-Version: V 03.00
	TUI-Version: V 03.00 E 09
	VP deutsch: V 03004

VP english: V 03004

XCAP 2.2.46

Serial / MAC

Documentation used      Teleserver MobilePro Administrations Handbuch, Teleserver MobilePro  
 Kurzübersicht mit Beispielen

Hardware provided for testing

Device Type

Applies?	Category
n/a	IP Hardware Terminal
n/a	IP Software Client
yes	IP Software Server
n/a	IP Gateway analogue
n/a	IP Gateway ISDN
n/a	IP Gateway SS7
n/a	IP Gateway V5.2
n/a	Other:
	Media
	Audio
	Video

## Basic Device Characteristics

### Signalling Stack

Applies?	Protocol
yes	H323
yes	H450.2 Call Transfer
yes	H450.3 Call Diversion
yes	H450.4 Call Hold
no	H450.5 Call Pickup
no	H450.6 Call Waiting
no	H450.7 Message Waiting
yes	H450.8 Name Identification
no	H450.9 Call Completion
no	H450.10 Call Offer
no	H450.11 Call Intrusion
n/a	SIP
n/a	MGCP
nt	Skinny

### Supported codecs

Applies?	Codec
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Supported codecs

yes	G711
no	G729
no	G723
no	G726
no	GSM
yes	T.38 TCP
yes	T.38 UDP
n/a	XPARENT
no	H261/H263
yes	Supports VAD
yes	Supports CNG
no	G722

Network Interface

<b>Applies?</b>	
yes	10 baseT
yes	100 baseT
<b>yes</b>	Full duplex
<b>yes</b>	Auto negotiation
yes	Auto sense

Network Interface

<b>yes</b>	Hard configurable
n/a	Extra PC Port

User Interface

<b>Applies?</b>	
n/a	Display alphanumeric <input type="checkbox"/> Lines by <input type="checkbox"/> columns
n/a	Display graphically <input type="checkbox"/> by <input type="checkbox"/> pixel
yes	No Display
yes	Alphanumeric Keyboard
n/a	"Terminate" Key
n/a	"R" Key
n/a	Redial Key
n/a	Handsfree operation
n/a	Loudspeaker
n/a	Headset support
n/a	Displays Users Number
n/a	Displays Users Name
n/a	Displays Calling Line ID (Number)
n/a	Displays Calling Line ID (Name)
n/a	Displays Calling Line ID (Display Info)

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### User Interface

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n/a	LDAP based Directory
n/a	LDAP based CLI resolution
n/a	Displays date and time
n/a	User can set diversion
n/a	Displays diversion
n/a	Displays registration status
n/a	Supports multiple identities
n/a	Supports 3Way conferencing on its own

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### Management

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<b>Applies?</b>	
yes	Admin Web Interface
no	User Web Interface
no	Boots firmware from net
no	Boots firmware from Flash
no	Firmware web upgradeable
yes	Supports DHCP
n/a	Supports registration by serial
no	Supports H.235
yes	Supports GK Detection

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### 3 Test Results

Information in this chapter is derived from testing.

Date Test performed, by	Karsten Brauner
Vendor Contact (Name, email)	Guido Demel, GDemel@Speech-Design.de
Device serial number	
Device Firmware used	TUI-Version: V 03.00 E 09; XCAPI: 2.2.42
IP200 Firmware used	05-5899
IP6000 Firmware used	05-5899

Packaging and Physical Installation		Remarks	N/A	Not passed	Passed
Packaging	Appropriate packaging				<b>x</b>
	Can be easily re-used later on				<b>x</b>
Components	No components missing				<b>x</b>
	Power supply included		<b>x</b>		
	Ethernet cable included				<b>x</b>
	Device easily assembled		<b>x</b>		
	Plugs etc. clearly labelled				<b>x</b>
Go/Nogo	Device works OK (not dead on arrival)				<b>x</b>

Feature	Description	Remarks	Result
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Setup	Register Device w/o specific configuration (requires DHCP, GK detection and "magic" alias)		
	DHCP is default		yes
	DHCP works		yes
	DHCP yields timeserver and time displays correctly		n/a
	SNTP config has TZ string for timezone/dst autoconfig		n/a
	DHCP yields correct default gateway		n/a
	Device supports magic registration (e.g. by serial)		n/a
	GK discovery works		yes
	Fixed GK registrations works		yes
	Registrations supports GK-ID		yes
Basic Call	Device registers w/o Extension (just by name)		yes
	Device registers by extension		yes
	Device registers with H.235 password		no
	Device registers multiple identities		yes
	Device can configure IP address, GK attributes (gk-id, gk-ip, alias) from DHCP (vendor specific)		no
	Setup call from device to IP200, use vad/cng if supported, verify bidirectional media channel		

	using g711a		n/a
	using g711u		n/a
	using g723		n/a
	using g729		n/a
	Device supports overlapped sending		n/a
	Device supports early media channel (before connect, e.g. "wrong number" announcement is heard)		n/a

	Setup call from IP200 to device, use vad/cng if supported, verify bidirectional media channel		
	using g711a		yes
	using g711u		yes
	using g723		n/a
	using g729		n/a
	Device shows CLI #		n/a
	CLI name		n/a
	CLI Display Info		n/a
	Device shows called id #		n/a
	Called id name		n/a
	Voice Quality OK overall		yes

DTMF	DTMF tones sent correctly	see remarks	no
	DTMF tones received correctly (audible)		yes

	Device switches to DTMF mode automatically after connect		yes	
Music on hold	Device plays music on hold when held remotely	no internal innovaphone moh (G729), see remarks for details	yes	
	Held end hears music on hold when held by device		yes	
Hold/Retrieve	Device can put call on hold		yes	
	Device can create secondary outgoing call		yes	
	Device can accept a secondary incoming call	depending on configuration	yes	
	Device can terminate either call and retrieve remaining call		yes	
	Device can toggle between both calls, media stream ok		yes	
	Either call can be held remotely and retrieved remotely, media stream ok		yes	
	Device signals call hold to GK	internal moh is used	no	
Call Transfer (with cons.)	Device can be transferred by far end (check media ok, display on all 3 phones ok)			
	a calls T, a calls b, a xfers T to b	Works	CLI shown at transferred parties is always the cgpn of a, also after transfer	yes
	a calls b, a calls T, a xfers b to T	works	CLI shown at transferred parties is always the cgpn of a, also after transfer	yes

	T calls a, b calls a, a xfers T to b	works	CLI at T is always the cgpn of the MobilePro connection (tie line + User)	yes
	b calls a, T calls a, a xfers b to T	works	CLI at T is always the cgpn of the MobilePro connection (tie line + User)	yes
	Device can transfer both call ends (media ok, display on all 3 phones ok?).			
	T calls a, t calls b, t xfers a to b	works	CLI at transferred parties is always the cgpn of the MobilePro User (User number)	yes
	T calls b, t calls a, t xfers b to a	Works	CLI at transferred parties is always the cgpn of the MobilePro User (User number)	yes
	a calls t, b calls t, t xfers a to b	works	2 <sup>nd</sup> call goes to evasion number, see Remarks	n/a
	b calls t, a calls t, t xfers b to a	Works	2 <sup>nd</sup> call goes to evasion number, see Remarks	n/a

Call Transfer (blind)	Device can be transferred by far end (check media ok, display on all 3 phones ok)			
	a calls T, a xfers T to b	works	CLI at T is still the cgpn of a	yes
	a calls b, a xfers b to T	Works	CLI at a is always the cgpn of the MobilePro connection (tie line + User)	yes
	T calls a, a xfers to b	works	CLI at a is always the cgpn of the MobilePro connection (tie line + User)	yes
	Device can transfer blindly (media ok, display on all 3 phones ok?).			
	T calls a, t xfers to b	works	transfer from MobilePro is only possible with consideration	n/a
	a calls t, t xfers to b	works	transfer from MobilePro is only possible with consideration	n/a

Call Forwarding	Device displays current call forwarding (interrogation)	Call Forwarding is done by the device itself. See Remarks for detailed settings.	
	CFU		yes
	CFNR		yes
	CFB		yes
	Device can set call forwarding		yes
Directory	Device built-in directory		
	Exists	User Administration	yes
	Can be dialled from		yes
	Does CLI resolution		yes
Hands free	Loudspeaker operation works fine		n/a
	Hands free works fine		n/a
	Volume adjustable during call		n/a
Keys	Device has speed dial keys	see configuration	yes
	Device has programmable function keys	see configuration	yes

Ethernet	PC port		
	Exists		n/a
	Does auto sense		n/a
	Does auto neg		n/a
	Can be fixed		n/a
	Does basically work		n/a
	Voice quality OK under heavy load		n/a
	PC Connectivity OK under heavy load		n/a
	spare wire		n/a
	phantom		n/a
	Device can set TOS for local VoIP		yes
	Device does not set TOS for PC traffic		n/a

Various Remarks	•		
	•		

Language	Remarks	User Interface	Web Interface	Admin Manual	User Manual
German			x	x	x
English					
French					
Dutch					
Italian					
Spanish					
Swedish					
Danish					
Norwegian					
Finnish					
Other					

## 4 Various Remarks

The MobilePro Server was connected to the PBX as a location object for the tests above. Simply create a PBX Object with the user type "Location", enter a Long name like MobilePro, a h323 alias as name and a Number. After that enter the same values in the XCAPi Configuration and register the XCAPi on the Gatekeeper.

### 4.1 Music on Hold

When the device is held, it only hears music when external moh is used at the innovaphone gateway. Because the internal moh is coded with G729 and is not compatible with the XCAPi (G711).

## 4.2 Transfers made with MobilePro

- CLI is always the cgpn of the MobilePro connection (tie line + User)
  - 2 channels at the MobilePro Server will remain busy, because transfer is made internal by the MobilePro server!
- 2 incoming calls aren't possible
  - evasion number has to be configured, otherwise the 2<sup>nd</sup> call is cancelled with a message (see configuration of MobilePro for details)

## 4.3 Call Forwarding

The status of each call forwarding can be read out and also be set with the Menu User Configs.

## 5 Summary

The MobilePro server is a great solution to use mobile phones inside the PBX. The configuration is easy and with compatibility between the ISDN Voice server and the XCAPi no problem should appear.

The key are the function numbers which could be dialled from external. Simply call the Mobile Pro server with a additional function number. Dial a zero and the call will be cancelled without any charge of the mobile user, initiating a call back in a few seconds. That makes it easy to include private cell phones at the PBX.

Another helpful feature is the built in phonebook. The ability to create short dials is very comfortable when calling from outside.

All together, the Mobile Pro Server is a nice solution to embed mobile phones in innovaphone PBXs.