

Release Notes from 12.08.2011

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ServiceGear Versions

Version 5.5.0.0

ECOTEL GSM-2 BRI-2 classic:	V4.7.30	from 07.08.2009
ECOTEL GSM-1 BRI-2 classic	V5.1.27	from 08.01.2010
ECOTEL GSM-4 BRI-4 classic	V5.3.8	from 25.10.2010
ECOTEL GSM-2 BRI-2 classic lite	V5.5.0	from 12.08.2011

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.8	from 25.10.2010
	V5.5.0	from 12.08.2011

Version 5.3.8.0

ECOTEL ISDN2-1:	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.8	from 25.10.2010

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.8	from 25.10.2010

Version 5.3.5.0

ECOTEL ISDN2-1:	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.5	from 09.07.2010

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.5	from 09.07.2010

Version 5.3.0.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.0	from 13.01.2010

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.27	from 08.01.2010
	V5.3.0	from 13.01.2010

Version 5.1.25.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.25	from 27.10.2009

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.25	from 27.10.2009

Version 5.1.24.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.24	from 01.10.2009

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.24	from 01.10.2009

Version 5.1.17.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.17	from 08.08.2009

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.30	from 07.08.2009
	V5.1.17	from 08.08.2009

Version 5.1.3.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.14	from 26.06.2008
	V4.7.25	from 15.10.2008
V5.1.3	from 26.09.2008	

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.25	from 15.10.2008
	V5.1.3	from 26.09.2008

Version 4.7.24.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.14	from 26.06.2008
	V4.7.24	from 28.07.2008

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.24	from 28.07.2008

Version 4.7.0.6

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.12	from 25.02.2008

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.18	from 25.02.2008

Version 4.7.0.5

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.11	from 06.12.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.13	from 06.12.2007

Version 4.7.0.4

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.5	from 24.09.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.3	from 24.09.2007

Version 4.7.0.3

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.3	from 02.08.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.1	from 16.07.2007

Version 4.7.0.2

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.3	from 02.08.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.1	from 16.07.2007

Version 4.7.0.1

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.2	from 23.07.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.1	from 16.07.2007

Version 4.7.0.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007
	V4.7.1	from 12.07.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007
	V4.7.1	from 16.07.2007

Version 4.5.0.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007
	V4.5.5	from 05.06.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007
	V4.5.5	from 05.06.2007

Version 4.1.0.8

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.13	from 03.05.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007

Version 4.1.0.7

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.12	from 17.04.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007

Version 4.1.0.6

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.10	from 26.03.2007

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.12	from 05.04.2007

Version 4.1.0.5

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.4	from 21.11.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.2	from 07.11.2006

Version 4.1.0.4

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.4	from 21.11.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.2	from 07.11.2006

Version 4.1.0.2

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.2	from 02.11.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.15	from 07.11.2006
	V3.5.3	from 07.11.2006
	V4.1.2	from 07.11.2006

Version 4.1.0.0

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006
	V4.1.1	from 20.10.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.14	from 28.08.2006
	V3.5.2	from 10.10.2006
	V4.1.1	from 20.10.2006

Version 3.5.0.3

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.1	from 28.09.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.14	from 28.08.2006
	V3.5.2	from 10.10.2006

Version 3.5.0.2

ECOTEL ISDN2-1:	V1.9.9	from 28.03.2006
	V3.4.3	from 19.06.2006
	V3.5.0	from 10.08.2006

ECOTEL ISDN2-2:		
ECOTEL VoIP:	V3.4.14	from 28.08.2006
	V3.5.0	from 05.09.2006

Ecotel GSM-1/2/4 BRI-2/4 classic (lite), Ecotel ISDN2-2, Ecotel VoIP

Version 5.5.0

- Naming

New	Old
Ecotel GSM-1 BRI-2 classic	Ecotel ISDN2-11x
Ecotel GSM-2 BRI-2 classic	Ecotel ISDN2-12x
Ecotel GSM-4 BRI-4 classic	Ecotel ISDN2-14x
Ecotel GSM-2 BRI-2 classic Lite	Ecotel ISDN2-12x Lite

- Callback request SMS

Sending a callback request SMS is done by using command *1#; ## may be used instead. Acceptance of the command will be signaled by a voice message.

When using automatic callback request SMS mode the option „Send message after every call“ may be used.

- Adaptive rerouting

Adding a call into the rerouting list is done by using the command *0# #; ## may be used instead.

- CLIP call

To transfer the own CLI when calling via GSM the feature „CLIP call“ may be used. Either before the call via GSM is done a CLIP call via ISDN will be done automatically (this call will be free of charge) or after the call via GSM an additional CLIP call via ISDN is done requested by user command (using command *5#).

Routing example; automatic CLIP call via ISDN interface BRI-1 before GSM call (CLIP call before GSM call)

```
(oI2d*#) e I1:d // CLIP call  
(oI2d*#) n G:d // and call via GSM
```

Routing example; CLIP call by user request via ISDN interface BRI-1 after GSM call (CLIP call after GSM call)

```
(oI2d*#) n G:d // GSM call  
(oI2d*#) e I1:d // CLIP call afterwards
```

Version 5.3.8

- GSM

A bug during call supervision when using Cinterion MC55i modules has been removed

Version 5.3.5

- GSM

Cinterion MC55i and MC39i modules will be supported.

Version 5.3.0

Starting at 1.1.2010 the productline Ecotel will be manufactured and distributed by

TELES AG
Informationstechnologien
Ernst-Reuter-Platz 8
10587 Berlin
GERMANY

Version 5.1.27

- Callback SMS

When using the callback SMS feature the own extension number may be added to the text by using %e. A bug has been removed.

- GSM

Wavecom Q24CL modules will be supported.

Version 5.1.25

- INVITE without SDP..
 Invite without SDP will be accepted

- STUN
 STUN IP adress is handeled corectly when lost or changed.

- GSM Release Cause
 When an outgoing call at GSM side stops caused by network issues release cause value 41 (temporary failure) is send towards the ISDN side..

Version 5.1.24

- INVITE without SDP..
 Invite without SDP will be accepted
- SMS improvement
 Lots of improvement changes have been done to get better SMS receive and deliver behavior.

Version 5.1.17

- Monitor
Blocked channels will be displayed correctly
- External SMC..
Local SIM cards may be configured by external SMC
- SMS improvement
Lots of improvement changes have been done to get better SMS receive and deliver behavior.

Version 5.1.13

- SMS improvement

Lots of improvement changes have been done to get better SMS receive and deliver behavior.

Version 5.1.5

- Callback request via SMS

Callbacks towards GSM may be requested either by voice call or by sending a SMS. The behavior may be defined within routing.

The SMS text needs to have the keyword “CBR” inside to be identified as a call back request.

Using the enhanced callback feature, Ecotel is able to create the callback first and afterwards call through towards a given number.

example 1: call back request via SMS

```
(soG)          c      &o
(oGd*#)        n      I2:d
```

SMS Text: CBR

An incoming SMS causes a callback towards the calling number via the same GSM module. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 2: call back request via SMS towards a specified number

```
(soGd*#)       c      G1:d
(oGd*#)        n      I2:d
```

SMS Text: CBR 01601234567

An incoming SMS causes a callback towards the specified number via the GSM module 1. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 3: call back request via SMS using call through

```
(soG)          c      &o
(oGd*#)        n      I2:d
```

SMS Text: CBR * 1234

An incoming SMS causes a callback towards the calling number via the same GSM module. When the callback is executed the specified number (1234) towards I2 is dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 4: call back request via SMS towards a specified number using call through
(soG) c G1:d
(oGd*#) n I2:d

SMS Text: CBR 01601234567 * 1234

An incoming SMS causes a callback towards the specified number via the GSM module 1. When the callback is executed the specified number (1234) towards I2 is dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

Version 5.1.3

- Mobile number portability (MNP)

Ecotel ISDN2-1, Ecotel ISDN2-2 and Beispiel Ecotel VoIP support mobile number portability. The GSM network provider hosting a given GSM mobile number may be identified by his PLMN. Call by call the PLMN corresponding to a dialed mobile number is requested by Ecotel to achieve call routing via the most cost optimized SIM card of the device.

The feature must be activated by configuration; usage depends on user registration at the MNP server. The license key is a 10 digit hexadecimal string being computed by Ecotel during first start procedure; it is unique for any device, the user is not able to change the string; usually MNP requests are only accepted by the MNP-server when requests are including the license key

Usually the response is a PLMN confirmed by the network, PLMN information may be cached by the MNP-server; responses based on database assumptions may be accepted also.

The behavior may be defined within routing.

example 1:

```
(oI2d*#l26201) n G{26201}:d
```

Condition:

Calls incoming from ISDN interface 2:	oI2
Any dialled destination number:	d*#
Force MNP request, to verify specified provider id :	l26201
Routing result:	
GSM modules restricted to those registered at specified PLMN	G{26201}
Use dialled number when calling:	d

example 2:

```
(oV1d*#l26207) n G[146]:d
```

Condition:

Calls incoming from VoIP interface 1:	oV1
Any dialled destination number:	d*#
Force MNP request, to verify specified provider id :	l26207
Routing result:	
GSM modules 1,4 or 6 in load balanced mode	G[146]
Use dialled number when calling:	d

- Callback request via SMS

Callbacks towards GSM may be requested either by voice call or by sending a SMS. The behavior may be defined within routing.

The SMS text needs to have the keyword “CBR” inside to be identified as a call back request.

example 1: call back request via SMS

(soG)	c	&o
(oGd*#)	n	I2:d

SMS Text: CBR

An incoming SMS causes a callback towards the calling number via the same GSM module. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 2: call back request towards a specified number

(soGd*#)	c	G1:d
(oGd*#)	n	I2:d

SMS Text: CBR 01601234567

An incoming SMS causes a callback towards the specified number via the GSM module 1. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 3: call back request with access code

(soGd987654)	c	&o
(oGd*#)	n	I2:d

SMS Text: CBR 987654

An incoming SMS causes a callback towards the calling number via the same GSM module. The access code has to be included inside the SMS. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side any number towards I2 may be dialed

example 4: call back request via SMS or voice call

(oG)	c	&o
(oGd*#)	n	I2:d

An incoming SMS or voice call causes a callback towards the calling number via the same GSM module. When the callback is executed any number towards I2 may be dialed. When a voice call is incoming at GSM side dialing towards I2 is allowed.

- CONNECT towards ISDN
When a BRI interface is configured in NT mode, the actual date and time may be send within the CONNECT command.
- SETUP towards ISDN
The number format and the numbern plan type of the calling number may be configured according ISDN DSS1 definition.
- Voice channel switch on PROCEEDING
Thev oice channel switch on PROCEEDING may be delayed by n seconds, to avoid listening to the proceeding tone of the mobile network.
- Call Handling at SIP channels
The call handling may be configured individual at any SIP channel.
- Audio Codecs at SIP channels
The usage of audio codecs may be configured individual at any SIP channel.
- Packetsize at SIP channels
The packetsize may be configured individual at any SIP channel.
- DTMF at SIP channels
The usage of DTMF method may be configured individual at any SIP channel.

Version 4.7.30

- External SMC..

Local SIM cards may be configured by external SMC

Version 4.7.27

- SIM Timelimits

Version V4.7.25 was not able to handle SIM limits above 1092 minutes correctly. The bug has been removed.

- SMeaSy, SMBasic

Any received SMS will be forwarded towards serial interface to have full usage of . SmeaSy and SMBasic.

Version 4.7.25

- Common firmware

Ecotel ISDN2-1, ISDN2-2 and Ecotel VoIP are using a common firmware.

All Ecotel ISDN2-1 features of version 4.7.14 are included in V4.7.23.

All Ecotel ISDN2-2 and Ecotel VoIP features of version 4.7.18 are included in V4.7.23.

- CONNECT towards ISDN

No date and time is send towards ISDN within the CONNECT message.

- GSM option at end of call

If the option “dial a new extension” is used., optional announcements will be done.

Some voice distortion occurred former versions; the bug has been removed

- Callback request via SMS

Callbacks towards GSM may be requested either by voice call or by sending a SMS.

The behavior may be definied within routing.

example 1:

(soG) c &:o

(oGd*#) n I2:d

An incoming SMS causes a callback towards the calling number via the same GSM module. When the callback is executed any number towards I2 may be dialed.

When a voice call is incoming at GSM side any number towards I2 may be dialed

example 2:

(oG) c &:o

(oGd*#) n I2:d

An incoming SMS or voice call causes a callback towards the calling number via the same GSM module. When the callback is executed any number towards I2 may be dialed.

- unconditional routing

If a SIM cards time limit is reached, no outgoing calls via this SIM card are done. The behavior may be refined in routing.

example:

(oI2d0160*#)	u	GI1:d
(oI2d01*#)	n	GI1:d
(oI2d*#)	n	I1:d

Calls towards any number beginning with 0160 will be routed via GSM always. Only if GSM modules are unavailable (f.e. GSM net not available) the call will be done via I1.

Calls towards any number beginning with 01 will be routed via GSM as long as the time limit is not reached; afterwards via I1.

Calls towards any other number will be routed via I1.

- no SIP boot if SIP interface is disabled (Ecotel VoIP)

When SIP interface is disabled the SIP process will not start. Ecotel VoIP will behave like Ecotel ISDN2-2, the boot time will be very short.

Ecotel ISDN2-1

Changes Version 4.7.12 vs. Version 4.7.14

- CONNECT towards ISDN

No date and time is send towards ISDN within the CONNECT message.

- GSM option at end of call

If the option “dial a new extension” is used., optional announcements will be done.
Some voice distortion occurred in V4.7.12; the bug has been removed

Changes Version 4.7.11 vs. Version 4.7.12

- GSM modules Siemens MC35i
GSM modules Siemens MC35i are supported by firmware.
- Hold and retrieve
The ISDN functions hold and retrieve are fully supported at BRI1 and BRI2.

Changes Version 4.7.10 vs. Version 4.7.11

- ServiceGear and Ecotel Lite

When using Firmware Tools and Ecotel Lite a blocking of GSM modules could happen in V4.7.10; the bug has been removed.

- Dial tone without announcements

When the internal dial tone has been enabled and no additional announcements have been enabled a tone malfunction could happen in V4.7.10; the bug has been removed.

Changes Version 4.7.7 vs. Version 4.7.10

- Connect on Setup

Any ISDN interface in NT mode, configured as connect on setup, will be connected immediately; independent from any need for further dial information.

- Interdigit timeout

The timer will be started, after any configured announcement has been finished, but before the dialtone is hearable.

- Date and time with connect

Any ISDN interface in NT mode, send date and time within the connect message.

- Tariffing by GSM modules

The configured tariffing model of a GSM module may be overwritten by routing entries.

f.e. following options are feasible

1. Tariffing by GSM module default

(d*#) n G:d

2. Calls via G2 use tariffing t1 = 60 sec, t2 = 1 sec, x1 = 300 units, x2 = 5 units;

Calls via G1 use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units

(d*#) n G2(60,1,300,5)G1(30,30,100,100):d

3. Calls via G use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units

(d*#) n G(30,30,100,100):d

4. Calls via G, registered at LAIN 26201,

use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units oder I2

(d*#) n G{26201}(30,30,100,100)I2:d

- Routing with ,+'

,+' may be used in routing at the cdn side.

(d0160*#) n G:+49160*

Changes Version 4.7.5 vs. Version 4.7.7

- ISDN Interface in Clock Only mode
If an ISDN interface is configured in clock only mode no adaption of the routing is necessary any longer.
- Winfax Pro
Winfax max be used without any restriction.
- Inputs to SMS
Every forth event could be lost in former versions, without sending a SMS.
- GSM module blocking
GSM modules could be blocked if a call has been revised by the called party.
Depending on the GSM provider this abnormal behavior has been noticed.

Changes Version 4.7.4 vs. Version 4.7.5

- Dialtone, Alertone and Busytone

Tones delivered by ecotel may be substituted by user defined tones. The according files have to be named „DIAL.WAV“, „ALERT.WAV“ and „BUSY.WAV“.

Changes Version 4.7.3 vs. Version 4.7.4

- Filesystem

A bug in filesystem of version 4.7.3 has been removed. The bug causes misbehaviour of call routing.

Changes Version 4.7.2 vs. Version 4.7.3

- Block dialing

If block dialing is used and no sending complete is send, dialing starts after the timeout of further digits. A bug in version 4.7.2 has been removed.

- Progress indicator

If a call from ISDN side has to be connected immediately no progress indicator has to be send. A bug in version 4.7.2 has been removed.

- Adaptive rerouting

If a callback is done the called number may be manipulated by a routing entry. F.e. during a call from ISDN towards GSM only the subscriber number is given towards ecotel; the PBX header may be added during callback.. To manipulate adaptive rerouted calls the parameter f is added in the routing.

An entry has to look like (PBX header 1234).

```
(oGd*#)  f  I2:1234d
```

A bug in version 4.7.2 has been removed.

Changes Version 4.7.1 vs. Version 4.7.2

- Ecotel ISDN2-1

Prefixes used in called party numbers like f.e. *31# will not be used for data calls, because some GSM providers do not support the usage.

Changes Version 4.5.5 vs. Version 4.7.1

- Ecotel ISDN2-1 Lite

The Ecotel ISDN2-1 Lite will be supported.

- SIM card timelimits

The usage of SIM cards may be limited to 1 .. 65535 minutes per time period.

A time period may be 1 .. 255 days or 1 .. 255 months.

If the timelimit is reached no outgoing call via the specified GSM port will be possible until the time period has finished.

Functionality is working correctly after a reset.

- Callback without former connection

If a caller fulfils the condition for callback with automatic release, the caller request will be released automatically by Ecotel after a configurable time between 0 and 70 seconds.

Changes Version 4.1.13 vs. Version 4.5.5

- Announcements

The announcements may be used port selective.

- Calling number format

Towards ISDN the calling number format may be adapted to special PBX needs.

- Progress Identifier

Towards ISDN the progress identifier may be adapted to special PBX needs.

- Adaptive rerouting

The adaptive rerouting may be used port selective..

Automatic entries may be hold after connect; this may be necessary f.e. if a mailbox is reached.

If a callback is done the called number may be manipulated by a routing entry. F.e. during a call from ISDN towards GSM only the subscriber number is given towards ecotel; the PBX header may be added during callback.. To manipulate adaptive routed calls the parameter f is added in the routing.

An entry has to look like (PBX header 1234).

```
(oGd*#) f I2:1234d
```

Changes Version 4.1.12 vs. Version 4.1.13

- Callback SMS

Sending a callback SMS is triggered by user command *1#; also user command ## is allowed. A bug in version 4.1.12 has been removed.

Changes Version 4.1.10 vs. Version 4.1.12

- Type

When the type is identified it is shown in the version string. A bug of version 4.1.10 has been removed.

- Announcements

When using certain languages a reboot could occur. The bug has been removed.

Changes Version 4.1.8 vs. Version 4.1.10

- Priority of adaptive rerouting when using callback

If an user (B) can not be reached by a caller (A), the destination number (B) and the originating number (A) may be added to the adaptive rerouting list. A new entry to the list may be done automatically by Ecotel or intentionally by the caller (A).

If user (B) is calling back, user (B) will be connected towards user (A) automatically.

If a callback condition for user (B) is available, first user (B) will be released and called back by Ecotel (callback); afterwards the connection towards user (A) will be done (adaptive rerouting).

So callback has a higher priority then adaptive rerouting.

- Priority of fixed routing when using callback

If a caller (A) fulfils the condition for being routed fix towards an user (B) and also fulfils the condition for callback, first caller (A) will be released and called back by Ecotel (callback); afterwards the connection towards user (B) will be done (fixed routing).

- Priority of fixed routing when using adaptive rerouting

If an user (B) can not be reached by a caller (A), the destination number (B) and the originating number (A) may be added to the adaptive rerouting list. A new entry to the list may be done automatically by Ecotel or intentionally by the caller (A).

If user (B) is calling back and fulfils the condition for being routed fix towards an user (C) the connection towards user (A) will be done instead (adaptive rerouting).

So adaptive rerouting has a higher priority then fixed routing.

- ISDN ports

The monitor indicates the availability of layers 1. A disabled port will be indicated in the monitor. A bug of version 4.1.8 has been removed.

- CDRs

Optional CDR parameters are the IMSI and the IMEI using 15 digits each. A bug of version 4.1.8 has been removed.

Changes Version 4.1.4 vs. Version 4.1.8

- Adaptive rerouting

If routing entries with prefixes like (oId*#) n G:*31\#d are used, the adaptive rerouting feature is still usable . In earlier versions the callbacks did not work correctly.

- Call forwarding

The call forwarding feature requested by *2# now may be used by either the calling party or the called party.

Changes Version 4.1.2 vs. Version 4.1.4

- ISDN Defaults

- ECOTEL ISDN2-1 defaults configured as PTP at both ISDN interfaces.

- Routing

- Routing entries like (oId*#) n G:*31\#d

- result in correct calling numbers with prefixes. In earlier versions the national and international prefixes have not been filled in correctly.

Changes Version 4.1.1 vs. Version 4.1.2

- Call forwarding

ECOTEL ISDN2-1 supports call forwarding between ISDN and/or GSM. More information is given in the manual. If the called party does not accept the call the function may be stopped by the calling party. This option did not work correctly in version 4.1.1.

Changes Version 3.5.1 vs. Version 4.1.1

- Hipath Ready

The version is Hipath Ready certified.

- ISDN Interfaces

Availability of Layers 1 is shown in the monitor.

- DTMF Receiver

The DTMF receivers may be deactivated if necessary.

- Alarm Inputs

Up to five alarm inputs may be configured.

If an alarm condition is reached a SMS will be send towards the configured users.

Changes Version 3.5.0 vs. Version 3.5.1

- Callback SMS

Sending a callback SMS is triggered by user command *1#; also user command ## is allowed. A bug in version 3.5.0 has been removed.

- Speech connected with ALERT

A bug in version 3.5.0 has been removed.

Changes Version 3.4.3 vs. Version 3.5.0

- Reset GSM modules via call-in
The GSM modules of Ecotel may be reseted by call-in after post-dial of *8#password#, if the functionality is configured.
- Reset Ecotel via call-in
Ecotel may be reseted by call-in after post-dial of *9#password#, if the functionality is configured.
- Adaptive rerouting
When a caller added to the list is calling back the entry is removed either if the call is connected, the call is alerting or only if the validity of the entry is reached. The behavior may be configured.
- DTMF hystereses
To improve DTMF recognition a minimal distance between two valid DTMF signs may be configured.
- LAIN monitoring
The LAIN of the actual registered SIM card is shown in the monitor.
- Security Code
A bug when entering an Ecotel security code has been removed.

Changes Version 3.4.0 vs. Version 3.4.3

- Callback SMS

Sending a callback SMS is triggered by user command *1#; also user command ## is allowed.

- Adaptive rerouting

When a caller added to the list is calling back the entry is removed either if the call is connected or the call is alerting. A bug has been removed.

Changes Version 3.1.3 vs. Version 3.4.0

- ServiceGear

ECOTEL ISDN2-1 supports monitoring functionality known from ECOTEL VoIP.

- Fieldstrength supervision

Is the fieldstrength of a GSM module is less than a configured threshold, Ecotel is searching for a GSM cell with better signal quality. This is only done if no call is active.

- Call forwarding

ECOTEL ISDN2-1 supports call forwarding between ISDN and/or GSM. More information is given in the manual.

- Adaptive rerouting

An entry is added to the list with user command *0## and a default time (60 minutes).

Adding only the last call or all calls to the list, may be configured.

When a caller added to the list is calling back the entry is removed either if the call is connected or the call is alerting.

- SIM Lock

If SIM lock is active, the IMSI of a SIM card plugged in will be stored.

Activation: SIM LOCK <PIN>

The PIN has to be a 4 to 8 digit string.

Answer if correct: "SIM Lock, PIN: <PIN>"

Answer is erroneous: "ERROR"

Answer if SIM lock is already active: "SIM Lock activated" and the IMSI of each modul.

Deactivation: SIM UNLOCK <PIN>

Answer if PIN is not correct: "ERROR"

Answer if PIN is correct: "SIM Unlock"

Changing a PIN is done by SIM UNLOCK <old PIN> and SIM LOCK <new PIN>.

Changes Version 1.9.9 vs. Version 3.1.3

- ServiceGear

- ECOTEL ISDN2-1 and ECOTEL VoIP are using the same configuration data.

Changes Version 1.9.8 vs. Version 1.9.9

- Adaptive rerouting
 - A bug has been removed.

Changes Version 1.9.6 vs. Version 1.9.8

- Adaptive rerouting

A bug, causing a reboot, occurs if the function is used and two calls are active at the same time; this bug has been removed.

Changes Version 1.9.4 vs. Version 1.9.6

- IP Address Configuration

IP Address Configuration of Firmware Tools sometimes failes; this has been corrected.

- Adaptive rerouting

Any entry towards the adaptive rerouting list will be updated every 5 minutes; an error stops the functionality after a certain time, this has been removed.

- Date and time as routing entry

Description V1.6.0 has an error. Correct is:

Date and time may be used as additional routing entries:

w day format: 1 - 7 (monday - sunday)

allowed entries (wildcards ,*' and ,?' are forbidden)

(w1-3) every monday until wednesday

(w15-7) every monday and friday until sunday

instead of

(w1,5-7) every monday and friday until sunday

Changes Version 1.9.0 vs. Version 1.9.4

- Call forwarding

During a call the called user B may forward the calling user A towards an user C. The call forwarding is triggered by *2#phonenumber of C# at the keypad.

Because user A is still the calling user, the routing from A towards C when call forwarding is executed must be allowed within the routing table entries.

Changes Version 1.8.0 vs. Version 1.9.0

- Charging

During a call from ISDN to GSM AOCD or AOCE messages towards ISDN may be generated. Clock cycle time and units per clock cycle may be configured on a per module base.

Changes Version 1.6.3 vs. Version 1.8.0

- Installer reworked

ServiceGear may be installed at any user configurable path .

- ServiceGear reworked

ServiceGear has now an improved GUI. The sheets Security, CDR Transfer, Voice File Transfer, GSM Parameters und Remote Access are reworked. Using ServiceGear has become more comfortable.

- Adaptive rerouting

During all call phases the call may be added towards the adaptive rerouting list by user A. If B calls in while the entry is still valid, B will be connected automatically with A. The entry towards the adaptive rerouting list is triggered by *0## at the keypad and a default validity (60 minutes), or by *0#validity in minutes#; the entry will be removed by *0#0.

If there is no actual call an entry towards the adaptive rerouting list is triggered by *0#phonenummer## and default validity or *0# phonenummer # validity in minutes#; the entry will be removed by *0# phonenummer #0#..

Any entry towards the adaptive rerouting list has a timestamp; the list will be updated every 5 minutes; During reboot the list will be lost.

The functionality „adaptive rerouting“ may be used in automatic mode.

- Callback request via SMS

During all call phases user B may request a callback from user B. Requesting is done by entering *1#.

After the actual call the SMS is send. The text is user configurable, the sending GSM number and the calling party number may be added.

f.e.: “Please reply by voicecall to %m or %e”.

As SMS text will be send: “ Please reply by voicecall to <mobilnumber of sending module> or <extension of calling party>.

The functionality „ callback request via SMS “ may be used in automatic mode.

Changes Version 1.6.0 vs. Version 1.6.3

- Installer reworked

If ServiceGear V1.6.0 was installed without any former version being installed on the computer, the database path has been wrong afterwards. This has been corrected in V1.6.3.

- ISDN behavior reworked

With firmware V1.6.0 calls from ISDN using single digit dialling and routing with fixed numbers of digits were not handled correctly at some PBXs . This has been corrected in V1.6.3

Changes Version 1.5.1 vs. Version 1.6.0

- SIM-card time model used for loadbalancing

To compute the SIM card timelimits the actual SIM-card. time model is used
The time model can be configured between 1 to 255 seconds independent for the first and the follow-up intervals.

The accumulated calltime sums acc. loadbalancing may be displayed by entering the next line within the monitoring window:

VLBC

	(acc. time model)	(real time)	
Response: VLB[0]	time in seconds	time in seconds	modul 1
VLB[1]	time in seconds	time in seconds	modul 2

The accumulated calltime sums acc. SIM-card timelimit may be displayed by entering the next line within the monitoring window:

VTLC

	(acc. time model)	(real time)	
Response: VTL[0]	time in seconds	time in seconds	modul 1
VTL[1]	time in seconds	time in seconds	modul 2

- CDR enhancement

CDRs (only outgoing calls) will have an entry for calling party number.
Callbacks will be handled the same way; noticed are the incoming call from user A; the first outgoing call towards A (A is the called party, ECOTEL the calling party), referenced towards the incoming call and the second outgoing call (B is the called party, A the calling party), referenced towards the first outgoing call.

Direct.	IF	Setup	Connect	Release	Called / Calling No	Rel.Cause	unused	Ref.	Calling No
O	I22	04/09/29,10:37:16	10:37:16	10:37:27	20	10	N/A	I11	10
I	I11	04/09/29,10:36:51	10:36:51	10:37:27	10	10	N/A		

CDRs may be redirected towards the monitor window.

- Usage of * and # as part of destination number

„*“ und „#“ may be used as part of the destination number within the routing. „*“ must be written as „*“. This option may be used to activate CLIR on a number selective base. In gateway configuration the support by GSM not usable option of CLI has to be used.

```
f.e.: (o11d0160*#) n G1:\*31#d // Call from ISDN IF1 to GSM IF 1;
      with CLI
      (o11d0179*#) n G2:#31#d // Call from ISDN IF1 to GSM IF 2;
      without CLI
```

- Adaptive rerouting

During Alert from user B the call may be added towards the adaptive rerouting list. If B calls in while the entry is still valid, B will be connected automatically with A. The entry towards the adaptive rerouting list is triggered by *0## at the keypad and a default validity (60 minutes), or by *0#validity in minutes#; the entry will be removed by *0#0.

If there is no actual call an entry towards the adaptive rerouting list is triggered by *0#phonenumber## and default validity or *0# phonenumber # validity in minutes#; the entry will be removed by *0# phonenumber #0#..

Any entry towards the adaptive rerouting list has a timestamp; the list will be updated every 5 minutes; During reboot the list will be lost.

- Date and time as routing entry

Date and time may be used as additional routing entries:
w day format: 1 - 7 (monday - sunday)

allowed entries (wildcards ,*' and ,?' are forbidden)

(w1-3) every monday until wednesday

(w1,5-7) every monday and friday until sunday

c calender format: yy/mm/dd

allowed entries (wildcards ,*' and ,?' are allowed)

c04/12/31-05/01/07 from 04.12.31 until 05.01.07

c*/12/31-*/12/31 every 12.31. of every year

c04/01/01-04/0?/30 from 04.01.01 until 04.09.30

t time format: hh:mm:ss

allowed entries (wildcards ,*' and ,?' are allowed)

t00:00:00-12:00:00 from 00:00:00 until 12:00:00 a.m.

t00:00:00-18:00:00 from 00:00:00 until 06:00:00 p.m.

t00:00-9:00 also allowed

All parameter are connected by AND and may be combined in any way

f.e.:

```
(o11d78w1-5,7c04/03/01-04/12/31t00:00-12:00)
```

Calls from port BRI1, short number „78“, every monday until friday and sunday, from 04.03.01 until 04.12.31 during 00:00 until 12:00 a.m.

Changes Version 1.4.7 vs. Version 1.5.1

- SIM card timelimits

The usage of SIM cards may be limited to 1 .. 65535 minutes per time period.

A time period may be 1 .. 255 days or 1 .. 255 months.

If the timelimit is reached no outgoing call via the specified GSM port will be possible until the time period has finished.

- GSM call time limitation

A single outgoing call via GSM may be limited to 1 .. 65535 seconds. If the timelimit is reached the call will be released.

- Volume control

Independent volume control towards GSM side and ISDN side.

- Routing enhancements

B-channel selective routing; B-channel B1 or B2 may be used as originating or destination port.

```
f.e.: (o111d*#) n G1:d // calls from ISDN IF1 B-channel 1 are routed via GSM IF 1
      (o112d*#) n G2:d // calls from ISDN IF1 B-channel 2 are routed via GSM IF 2

      (oG1d*#) n I21:d // calls from GSM IF1 1 are routed via ISDN IF2 B-channel 1
      (oG2d*#) n I22:d // calls from GSM IF1 2 are routed via ISDN IF2 B-channel 2
```

Changes Version 1.4.4 vs. Version 1.4.7

- Siemens HiPath Ready Certified
V1.4.6 has passed Siemens HiPath Ready Certification for
HiPath 3000 V4.0 and HiPath 4000 V1.0.

- GSM module loadbalancing
For both GSM modules the timeticks of active calling time will be accumulated.
If no specific GSM module is given for a call, the module with the lower count will be
selected to install the next call via GSM. Rebooting ECOTEL will reset the timetick
counters.

The accumulated timeticks may be displayed by entering the next line within the
monitoring window:

```
VLBC      Response:  LBC  1/2  module 1      module 2  
                                <timeticks>    <timeticks>
```

Changes Version 1.3.5 vs. Version 1.4.4

- ServiceGear usage
ServiceGear covers ISDN configuration, Gateway configuration, RTBL tool and Firmware tools all in once.
- Routing enhancements
manual added on installation CD.
- Routing defaults
device is delivered using a default RTBL.TXT, usable immediately to do phone calls via the gateway; see manual added on installation CD.
- CLIP enhancements towards ISDN ports
CLI of incoming calls may be presented in international format always.
- Selection of synchronisation port
sync ports may work in sync mode only (transmit direction disabled).
- Lock to specified LAIN
GSM modules may be locked to a specified LAIN exclusively.
- Echo suppression
GSM modules may used with or without interal echo suppression mechanism.
- Remote configuration via GSM
new remote configuration possibility; an ECOTEL ISDN2-1 directly connected with V.24 may be used to configure a remote ECOTEL ISDN2-1 via GSM.

Ecotel ISDN2-2 und Ecotel VoIP

Changes Version 4.7.17 vs. Version 4.7.18

- GSM modules Siemens MC35i
GSM modules Siemens MC35i are supported by firmware.

- Hold and retrieve
The ISDN functions hold and retrieve are fully supported at BRI1 and BRI2.

Changes Version 4.7.13 vs. Version 4.7.17

- SMeaSy
SMS via SMeaSy is supported completely .

Changes Version 4.7.11 vs. Version 4.7.13

- DTMF via SIP info

DTMF signs received at GSM or ISDN side will be passed towards SIP side as SIP info elements. SIP info elements received from SIP side after 200 OK, will be handled as DTMF signs. So post dial via DTMF after 200 is possible.

- Dial tone without announcements

When the internal dial tone has been enabled and no additional announcements have been enabled a tone malfunction could happen in V4.7.11; the bug has been removed.

Changes Version 4.7.8 vs. Version 4.7.11

- Connect on Setup

Any ISDN interface in NT mode, configured as connect on setup, will be connected immediately; independent from any need for further dial information.

- Interdigit timeout

The timer will be started, after any configured announcement has been finished, but before the dialtone is hearable.

- Date and time with connect

Any ISDN interface in NT mode, send date and time within the connect message.

- Tariffing by GSM modules

The configured tariffing model of a GSM module may be overwritten by routing entries.

f.e. following options are feasible

1. Tariffing by GSM module default

(d*#) n G:d

2. Calls via G2 use tariffing t1 = 60 sec, t2 = 1 sec, x1 = 300 units, x2 = 5 units;

Calls via G1 use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units

(d*#) n G2(60,1,300,5)G1(30,30,100,100):d

3. Calls via G use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units

(d*#) n G(30,30,100,100):d

4. Calls via G, registered at LAIN 26201,

use tariffing t1 = 30 sec, t2 = 30 sec, x1 = 100 units, x2 = 100 units oder I2

(d*#) n G{26201}(30,30,100,100)I2:d

- Emergency calls via GSM

The international emergency number 112 may be called anytime; also no SIM card is available. Any user specific number may be mapped to emergency number 112.

(d911) n G:112

- DTMF via SIP-INFO

Incomming DTMF digits from any GSM or ISDN port will be send via any SIP Port by SIP-INFO elements.

Incomming SIP-INFO DTMF digits from any SIP port will be send via any ISDN port inband.

Incomming SIP-INFO DTMF digits from any SIP port will be send via any GSM port in signalling channel.

The features call forwarding etc may be used at SIP ports.

- Routing with ,+'

,+' may be used in routing at the cdn side.

(d0160*#) n G:+49160*

Changes Version 4.7.3 vs. Version 4.7.8

- ISDN Interface in Clock Only mode
If an ISDN interface is configured in clock only mode no adaption of the routing is necessary any longer.
- Inputs to SMS
Every forth event could be lost in former versions, without sending a SMS.
- GSM module blocking
GSM modules could be blocked if a call has been revised by the called party.
Depending on the GSM provider this abnormal behavior has been noticed.
- Unkown callers at SIP ports
Unkown callers at SIP ports (neither registered as user, nor configured as proxy) will be released using release cause value 57 (service not allowed).

Changes Version 4.7.1 vs. Version 4.7.3

- Callback request via SMS

During all call phases user B may request a callback from user B. Requesting is done by entering *1#.

After the actual call the SMS is send. The text is user configurable, the sending GSM number and the calling party number may be added.

f.e.: "Please reply by voicecall to %m or %e".

As SMS text will be send: " Please reply by voicecall to <mobilnumber of sending module> or <extension of calling party>.

The functionality „ callback request via SMS “ may be used in automatic mode.

- Dialtone, Alertone and Busytone

Tones delivered by ecotel may be substituted by user defined tones. The according files have to be named „DIAL.WAV“, „ALERT.WAV“ and „BUSY.WAV“.

Changes Version 4.5.5 vs. Version 4.7.1

- Callback without former connection

If a caller fulfils the condition for callback with automatic release, the caller request will be released automatically by Ecotel after a configurable time between 0 and 70 seconds.

Changes Version 4.1.12 vs. Version 4.5.5

- Announcements

The announcements may be used port selective.

- Calling number format

Towards ISDN the calling number format may be adapted to special PBX needs.

- Progress Identifier

Towards ISDN the progress identifier may be adapted to special PBX needs.

- Adaptive rerouting

The adaptive rerouting may be used port selective..

Automatic entries may be hold after connect; this may be necessary f.e. if a mailbox is reached.

If a callback is done the called number may be manipulated by a routing entry. F.e. during a call from ISDN towards GSM only the subscriber number is given towards ecotel; the PBX header may be added during callback.. To manipulate adaptive routed calls the parameter f is added in the routing.

An entry has to look like (PBX header 1234).

```
(oGd*#) f I2:1234d
```

- SIP/SMS message interface

All ecotel variants are able to convert SIP-messages towards SMS and vice versa. Messages are handled like voice call in the routing, but may be handled seperately. To do so the new parameter s is added in the routing syntax.

An entry may look like (all SMS towards V1; V1 as external SIP-Proxy).

```
(soGd*#) n V1:d
```

SIP messages may be generated f.e. using sipsak which is included in the installation disk.

A message looks alike
(SIP message from SIP source 999@172.16.254.10 as SMS towards destination
number 0049123456789; 172.16.8.48 is the SIP-Server address of Ecotel).

```
sipsak-0.9.5.exe -T -vvv -M -B "This is a test" -c  
sip:999@172.16.254.10 -s sip:0049123456789@172.16.8.48
```

- Firmware usage

All variants will work with the same firmware version independent from used GSM
modules. The manufacturer dependency is removed.

Changes Version 4.1.2 vs. Version 4.1.12

- Own announcements

The default announcements may be replaced by own announcements. Announcements with more than 32 kBit of data are allowed. In former versions such kind of announcements could not be played.

- Priority of adaptive rerouting when using callback

If an user (B) can not be reached by a caller (A), the destination number (B) and the originating number (A) may be added to the adaptive rerouting list. A new entry to the list may be done automatically by Ecotel or intentionally by the caller (A).

If user (B) is calling back, user (B) will be connected towards user (A) automatically.

If a callback condition for user (B) is available, first user (B) will be released and called back by Ecotel (callback); afterwards the connection towards user (A) will be done (adaptive rerouting).

So callback has a higher priority than adaptive rerouting.

- Priority of fixed routing when using callback

If a caller (A) fulfils the condition for being routed fix towards an user (B) and also fulfils the condition for callback, first caller (A) will be released and called back by Ecotel (callback); afterwards the connection towards user (B) will be done (fixed routing).

- Priority of fixed routing when using adaptive rerouting

If an user (B) can not be reached by a caller (A), the destination number (B) and the originating number (A) may be added to the adaptive rerouting list. A new entry to the list may be done automatically by Ecotel or intentionally by the caller (A).

If user (B) is calling back and fulfils the condition for being routed fix towards an user (C) the connection towards user (A) will be done instead (adaptive rerouting).

So adaptive rerouting has a higher priority than fixed routing.

- Adaptive rerouting

If routing entries with prefixes like (oId*#) n G:*31\#d are used, the adaptive rerouting feature is still usable. In earlier versions the callbacks did not work correctly.

- Call forwarding

The call forwarding feature requested by *2# now may be used by either the calling party or the called party.

- ISDN Defaults

ECOTEL ISDN2-1 defaults configured as PTP at both ISDN interfaces.

- Routing

Routing entries like (oId*#) n G:*31\#d

result in correct calling numbers with prefixes. In earlier versions the national and international prefixes have not been filled in correctly.

Changes Version 4.1.1 vs. Version 4.1.2

- Bugfix:

- SIP header “Content-Type: application/**SDP**” or “Content-Type: application/**sdp**” is allowed.

- Call forwarding

- ECOTEL supports call forwarding between ISDN and/or GSM. More information is given in the manual. If the called party does not accept the call the function may be stopped by the calling party. This option did not work correctly in version 4.1.1.

Changes Version 3.5.2 vs. Version 4.1.1

- Hipath Ready

The version is Hipath Ready certified.

- ISDN Interfaces

Availability of Layers 1 is shown in the monitor.

- DTMF Receiver

The DTMF receivers may be deactivated if necessary.

- Alarm Inputs

Up to six alarm inputs may be configured.

If an alarm condition is reached a SMS will be send towards the configured users.

Changes Version 3.5.2 vs. Version 3.5.3

- Bugfix:

SIP header “Content-Type: application/**SDP**” or “Content-Type: application/**sdp**” is allowed.

Changes Version 3.5.1 vs. Version 3.5.2

- Bugfix: wrong FS*.TGZ file

Changes Version 3.5.0 vs. Version 3.5.1

- Callback SMS

Sending a callback SMS is triggered by user command *1#; also user command ## is allowed. A bug in version 3.5.0 has been removed.

- Speech connected with ALERT

A bug in version 3.5.0 has been removed.

Changes Version 3.4.15 vs. Version 3.5.0

- Reset GSM modules via call-in
The GSM modules of Ecotel may be reseted by call-in after post-dial of *8#password#, if the functionality is configured.
- Reset Ecotel via call-in
Ecotel may be reseted by call-in after post-dial of *9#password#, if the functionality is configured.
- Adaptive rerouting
When a caller added to the list is calling back the entry is removed either if the call is connected, the call is alerting or only if the validity of the entry is reached. The behavior may be configured.
- DTMF hystereses
To improve DTMF recognition a minimal distance between two valid DTMF signs may be configured.
- LAIN monitoring
The LAIN of the actual registered SIM card is shown in the monitor.
- Security Code
A bug when entering an Ecotel security code has been removed.
- Routing of incoming VoIP calls
Incoming VoIP calls may be routed by Provider/Proxy.

f.e.: (oV0d*#) n G1:d // calls from internal VoIP users via GSM IF 1
(oV1d*#) n G2:d // calls from Provider/Proxy V1 via GSM IF 2
- Routing of outgoing calls by LAIN
Outgoing calls via GSM may be routed via modules registered at a specified LAIN.

f.e.: (d0160*#) n G{26201}:d // calls to 0160.. via GSM, registered at
// particular LAIN

Changes Version 3.4.14 vs. Version 3.4.15

- SIM Server Application

The SIM server application is fully supported, the available GSM modules are taken into account.

Changes Version 3.4.3 vs. Version 3.4.14

- SIM Server Application
The SIM server application is fully supported.

Changes Version 3.4.0 vs. Version 3.4.3

- Callback SMS

Sending a callback SMS is triggered by user command *1#; also user command ## is allowed.

- Adaptive rerouting

When a caller added to the list is calling back the entry is removed either if the call is connected or the call is alerting. A bug has been removed.

- Real time clock if using Wavecom modules

A real time clock bug has been removed. After reboot of Ecotel date and time are recovered.

Changes Version 3.1.5 vs. Version 3.4.0

- Call forwarding

ECOTEL ISDN2-1 supports call forwarding between ISDN and/or GSM. More information is given in the manual.

- Adaptive rerouting

An entry is added to the list with user command *0## and a default time (60 minutes).

Adding only the last call or all calls to the list, may be configured.

When a caller added to the list is calling back the entry is removed either if the call is connected or the call is alerting.

- Fieldstrength supervision

If the fieldstrength of a GSM module is less than a configured threshold, Ecotel is searching for a GSM cell with better signal quality. This is only done if no call is active.

- External SMC

IP-Adress and Port may be configured.

- GSM modules

The GSM modules Wavecom Q2400, Q2406 und Q2426 are supported by external and internal SMC.