VINETIC®

Voice and Internet Enhanced Telephony Interface Circuit

T.38 FAX Relay Package Release 1.2.1.2

for

VINETIC®-4VIP (PEB 3324), Version 1.4

Distribution with NDA only

Abstract

These release notes covers the software release of the VINETIC® T.38 Fax Relay Package which is delivered with the T.38-FAX-Relay-Release -1.2.1.2.zip file. This software package is released together with VINETIC®-4VIP System Package V1.0 **[6]**.

This Fax Relay Package replaces the VINETIC® T.38 Fax Relay Package Release 1.1b

This document contains:

- **Chapter 1** General
- **Chapter 2** Changes
- **Chapter 3** Supported Features
- **Chapter 4** Known Issues

1   General

The VINETIC® T.38 Fax Relay Package Release 1.2.1.2 contains the following components:

- T.38 Protocol Stack Release 1.21
- T.38 Fax Agent Release 1.1
- T.38 Test Application Release 1.1

This Fax Relay Package has to be used together with the following VINETIC®-4VIP components:

- VINETIC® Device Driver V1.1.16
- VINETIC® EDSP Firmware 4VIP6-RTP4 Rel.16.15.56.V1.4 or
- VINETIC® EDSP Firmware 4VIP7-RTP4 Rel.20.15.56.V1.4 or
- VINETIC® EDSP Firmware 4VIP8-RTP4 Rel.24.15.56.V1.4

For the evaluation of the Fax Relay Package the VINETIC® EDSP Firmware 4VIP6-RTP4 Rel.16.15.56.V1.4 was used. Please refer to **Chapter 4** Known Issues.

Revision History: Previous Version: Revision 1.0

Major Changes: Update of the Release Note Revision 1.0 with the problem description for
                          VINETIC® EDSP Firmware 4VIP6-RTP4 Rel.16.15.56.V1.4

Table 1   T.38 Fax Protocol Stack - Version Overview

Latest Version	Release Date	Replaced Version	Release Date
T.38 Protocol Stack Release 1.21	2006-04-28	T.38 Protocol Stack Release 1.16	2005-08-01

Table 2   T.38 Fax Agent - Version Overview

Latest Version	Release Date	Replaced Version	Release Date
T.38 Fax Agent Release 1.1	2005-08-01	T.38 Fax Agent Release 1.1	2005-08-01

Table 3   Test Application - Version Overview

Latest Version	Release Date	Replaced Version	Release Date
T.38 Test Application Release 1.1	2006-04-28	T.38 Test Application Release 1.0 - Initial	2005-08-01

2   Changes

The following chapter describes the changes of the different parts of the T.38 Fax Relay Package.

2.1   T.38 Fax Agent

Table 4 lists new features, improvements and bug fixes in T.38 Fax Agent Release 1.1.

For details please refer to **[2]**.

Table 4   Changes between Release 1.0 and 1.1

Change	Change Type
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2.2   T.38 Protocol Stack

Table 5 lists new features, improvements and bug fixes in T.38 Protocol Stack Release 1.21.

For details please refer to **[3]**.

Table 5   Changes between Release 1.16 and 1.21

Change	Change Type
Support for disabling the ECM mode	New Feature
Improvement for IP network impairment handling	Improvement
For echo frames detection T.38 skips only modulated frames	Improvement
Additional error checks are performed on session stop	Improvement
During demodulation, the accumulated T.30 data is flushed before sending no_signal indicator. Not doing so could be a problem in case if a big chunk of V.21 frame data arrives from the demodulator.	Bug Fix
Sequence of 0xFF octets from non-local training data skipped	Bug Fix
Sessions stop of "timer call back" function	Bug Fix

2.3   T.38 Test Application

Table 6 lists new features, improvements and bug fixes in T.38 Test Application Release 1.1.

For details please refer to **[4]**.

Table 6   Changes between Release 1.0 and 1.1

Change	Change Type
VxWorks Support	New Feature
Implementation of PBX functionality.	Improvement

3   T.38 Protocol Stack Features

Supported Features by the T.38 Protocol Stack

- T.38 ASN.1 version 0 **[8]**
- T.38 Annex A - ASN.1 2002 notification
- Signaling protocol Support (T.38 Annex B, D, E)
- Data Rate Management Method 1 and Method 2
- Packet Layer Support for TCP and UDP.
- UDPTL Error Correction support
- Non standard facilities handling (NFS)
- Multi Channel Support
- Configurable T.38 Stack parameters
- T.38 Statistics
- Option for disable of ECM Mode

Unsupported Features

- JBIG/MMR Transcoding
- TPKT headers for TCP are not supported
- RTP headers for UDP are not supported
- Fill Bit Removal
- T.38 Annex G used for H.245 is not supported

4   Known Issues

Table 7 contains open issues.

Table 7   Open Issues of T.38 FAX Relay

Description of Open Issues	Remarks
With VINETIC® EDSP Firmware 4VIP6-RTP4 Rel.16.15.56.V1.4 it is not possible to send a Fax on Channel No.4.	Open

Literature References

[1] VINETIC® Device Driver Prel. User's Manual Driver and API Description Rev. 1.0, 2006-03-10

[2] T.38 Fax Agent Release 1.1 User's Manual Programmer's Reference Rev. 1.0, 2005-09-22

[3] T.38 Protocol Stack Release 1.16 User's Manual Programmer's Reference Rev. 1.0, 2005-09-22

[4] T.38 Test Application User's Manual Programmer's Reference Rev. 1.0, in preparation

[5] VINETIC® Device Driver Release Notes

[6] VINETIC®-4VIP System Package V1.0 Release Note Rev. 2.0, 2006-04-19

[7] EASY 334 Tool Package Vers. 1.0 Getting Started Rev. 6.0, 2005-05-19

Attention: Please refer to the latest revision of the documents.

Standards References

[8] ITU-T Recommendation T.38, (09/2005), Procedures for real-time Group 3 facsimile communication over IP networks