VINETIC®-CPE

Voice over IP Processor for Customer Premises Equipment

T.38 Fax Relay Package Release 1.5.2.1

for

VINETIC®-2CPE (PEB/PEF 3332), Version 2.2

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 -1.5.2.1.zip file. This software package is released together with VINETIC®-CPE System Package V2.0 **[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 1.5.2.1 contains the following components:

*   T.38 Protocol Stack Release 1.23
*   T.38 Fax Agent Release 1.2
*   T.38 Test Application Release 1.3

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

*   VINETIC®-CPE Version 2.2 Device Driver Release 1.2.1 Version 1.2.1.3
*   TAPI Subsystem Release 3.3.2 Version 3.3.2.5
*   VINETIC® EDSP Firmware 2CPE1-RTP4 Rel.0.17.32.V2.2

Table 1   T.38 Fax Protocol Stack - Version Overview

Latest Version	Release Date	Replaced Version	Release Date
T.38 Protocol Stack Release 1.23	2006-08-21	T.38 Protocol Stack Release 1.21	2006-04-28

Table 2   T.38 Fax Agent - Version Overview

Latest Version	Release Date	Replaced Version	Release Date
T.38 Fax Agent Release 1.2	2006-08-10	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 1.3	2006-08-21	T.38 Test Application Release 1.1	2006-04-28

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 1.2.

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

Table 4   Changes between Release 1.1 and 1.2

Change	Change Type
Default initialization parameters are changed	Improvement
Support of T38 init parameter AutoSpoofingTime read from t38.ini file	Bug Fix
Algorithm of obtaining NSX info field from t38.ini file	Bug Fix

2.2 T.38 Protocol Stack

Table 5 lists new features, improvements and bug fixes in T.38 Protocol Stack Release 1.23.

For details please refer to **[4]** which covers also the description for the T.38 Protocol Stack Release 1.23.

Table 5   Changes between Release 1.21 and 1.23

Change	Change Type
Added support of Danube datapump packet format	New Feature
Stability improvement with rare fax machines which continue to send CNG after CED was received.	Improvement

2.3 T.38 Test Application

Table 6 lists new features, improvements and bug fixes in T.38 Test Application Release 1.3.

For details please refer to **[5]**.

Table 6   Changes between Release 1.1 and 1.3

Change	Change Type
Transparent FAX transmission support	New Feature
Support of different voice codecs to be selected at startup.	New Feature
New T38 switch over procedure	New Feature
Support of IFX TAPI v3 syntax	New Feature
More graceful handling of T38 session stop. Support of switching back to voice from datapump.	Improvement
Correct TAPI DTMF event handling in connect state	Bug Fix

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
TCP support for T.38 is not provided by Test Application.	To be fixed in future release

Literature References

[1] TAPI User's Manual Programmer's Reference Rev. 1.2, 2006-08-09

[2] VINETIC®-CPE Device Driver User's Manual Programmer's Reference Rev. 1.2, in preparation

[3] T.38 Fax Agent Release 1.2 User's Manual Programmer's Reference Rev. 1.0, 2006-08-16

[4] T.38 Protocol Stack Release 1.22 User's Manual Programmer's Reference Rev. 1.0, 2006-08-16

[5] T.38 Test Application Release 1.3 User's Manual Programmer's Reference Rev. 1.0, in preparation

[6] VINETIC®-CPE System Package Release Notes

[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