

**Broadband Integrated Services Digital Network (B-ISDN);  
Digital Subscriber Signalling System No. two (DSS2) protocol;  
Connection characteristics;  
Peak cell rate modification by the connection owner;  
Part 2: Protocol Implementation Conformance  
Statement (PICS) proforma specification**

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**Reference**

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# Intellectual Property Rights

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## Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocols and Switching (SPS), and is now submitted for the Voting phase of the ETSI standards Two-step Approval Procedure.

The present document is part 2 of a multi-part standard covering the Digital Subscriber Signalling System No. two (DSS2) protocol specification for the Broadband Integrated Services Digital Network (B-ISDN) peak cell rate modification by the connection owner, as described below:

Part 1: "Protocol specification";

**Part 2: "Protocol Implementation Conformance Statement (PICS) proforma specification";**

Part 3: "Test Suite Structure and Test Purposes (TSS&TP) specification for the user";

Part 4: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the user";

Part 5: "Test Suite Structure and Test Purposes (TSS&TP) specification for the network";

Part 6: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for the network".

To evaluate conformance of a particular implementation, it is necessary to have a statement of which capabilities and options have been implemented for a given Open Systems Interconnection (OSI) protocol. Such a statement is called a Protocol Implementation Conformance Statement (PICS).

Proposed national transposition dates	
Date of latest announcement of this EN (doa):	3 months after ETSI publication
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

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# 1 Scope

This second part of EN 301 003 provides the Protocol Interface Conformance Statement (PICS) proforma for the for peak cell rate modification for the Broadband-Integrated Services Digital Network (B-ISDN) by means of the Digital Subscriber Signalling System No. two (DSS2) protocol as specified in EN 301 003-1 [2] in compliance with the relevant requirements and in accordance with the relevant guidance given in ISO/IEC 9646-7 [4].

The supplier of a protocol implementation which is claimed to conform to EN 301 003-1 [2] is required to complete a copy of the PICS proforma provided in annex A of the present document and is required to provide the information necessary to identify the supplier and the implementation.

---

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- A non-specific reference to an ETS shall also be taken to refer to later versions published as an EN with the same number.

- [1] EN 300 443-1: "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; B-ISDN user-networkinterface layer 3 specification for basic call/bearer control; Part 1: Protocol specification [ITU-T Recommendation Q.2931 (1995), modified]".
- [2] EN 301 003-1 (V1.1): "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Cnnection characteristics; Peak cell rate modification by the connection owner; Part 1: Protocol specification [ITU-T Recommendation Q.2963.1 (1996), modified]".
- [3] ISO/IEC 9646-1: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 1: General concepts".
- [4] ISO/IEC 9646-7: "Information technology - Open Systems Interconnection - Conformance testing methodology and framework - Part 7: Implementation Conformance Statements".

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# 3 Definitions, symbols and abbreviations

## 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply, in addition to those given in EN 301 003-1 [2]:

**Protocol Implementation Conformance Statement (PICS):** a statement made by the supplier of an Open Systems Interconnection (OSI) implementation or system, stating which capabilities have been implemented for a given OSI protocol (see ISO/IEC 9646-1 [3]).

**PICS proforma:** a document, in the form of a questionnaire, designed by the protocol specifier or conformance test suite specifier, which, when completed for an OSI implementation or system becomes the PICS (see ISO/IEC 9646-1 [3]).

**static conformance review:** a review of the extent to which the static conformance requirements are met by the IUT, accomplished by comparing the PICS with the static conformance requirements expressed in the relevant standard(s) (see ISO/IEC 9646-1 [3]).

## 3.2 Symbols

For the purposes of the present document, the following symbols apply:

AND	Boolean "and"
C	Conditional requirement (to be observed if the relevant conditions apply)
M	Mandatory requirement (to be observed in all cases)
N/A	Not applicable, not supported or the conditions for status are not meet
No	not supported
NOT	Boolean "not"
O	Option (may be selected to suit the implementation, provided that any requirements applicable to the option are observed)
O.n	Options, but support required for either at least one or only one of the options in the group labelled with the same numeral "n"
OR	Boolean "or"
Yes	supported

## 3.3 Abbreviations

For the purposes of the present document, the following abbreviations apply:

B-ISDN	Broadband Integrated Services Digital Network
DSS2	Digital Subscriber Signalling System No. two
IER	Information Elements Received
IET	Information Elements Transmitted
IUT	Implementation Under Test
MC	Major Capabilities
MR	Messages Received
MT	Messages Transmitted
OSI	Open Systems Interconnection
PCR	Peak Cell Rate
PICS	Protocol Implementation Conformance Statement
R	Role
SCS	System Conformance Statement
SUT	System Under Test
TM	Timer

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## 4 Conformance

A PICS proforma that conforms to this PICS proforma specification shall be technically equivalent to annex A, and shall preserve the numbering and ordering of the items in annex A.

A PICS proforma that conforms to this PICS proforma specification shall:

- describe an implementation which conforms to EN 301 003-1 [2];
- be a conforming PICS proforma, which has been completed in accordance with the instructions for completion given in clause A.1; and
- include the information necessary to uniquely identify both the supplier and the implementation.

## Annex A (normative): PICS proforma for EN 301 003-1

Notwithstanding the provisions of the copyright clause related to the text of the present document, ETSI grants that users of the present document may freely reproduce the PICS proforma in this annex so that it can be used for its intended purposes and may further publish the completed PICS.

### A.1 Guidance for completing the PICS proforma

#### A.1.1 Purpose and structure

The purpose of this PICS proforma is to provide a mechanism whereby a supplier of an implementation of the requirements defined in EN 301 003-1 [2] may provide information in a standardized manner.

The PICS proforma is subdivided into clauses as follows:

- guidance for completing the various parts of the PICS proforma;
- identification of the implementation;
- identification of the protocol to which this PICS proforma applies;
- global statement of conformance;
- questions to determine roles;
- questions for the user role; and
- questions for the network role.

#### A.1.2 Abbreviations and conventions

The PICS proforma contained in this annex is comprised of information in tabular form in accordance with the guidelines presented in ISO/IEC 9646-7 [4].

##### Item column

The item column contains a unique reference (a mnemonic plus a number) for each item within the PICS proforma. Items are not always numbered sequentially.

##### Item description column

The item description contains a brief summary of the static requirement for which a support answer is required.

##### Conditions for status column

The conditions for status column contains a specification, if appropriate, of the predicate upon which a conditional status is based.



### Status column

The following notations, defined in ISO/IEC 9646-7 [4], are used for the status column:

I	Irrelevant or out-of-scope - this capability is outside the scope of the EN to which this PICS proforma applies and is not subject to conformance testing in this context.
M	Mandatory - the capability is required to be supported.
N/A	Not Applicable - in the given context, it is impossible to use the capability. No answer in the support column is required.
O	Optional - the capability may be supported or not.
O.i	qualified optional - for mutually exclusive or selectable options from a set. "i" is an integer that identifies a unique group of related optional items and the logic of their selection, defined below the table.
X	eXcluded or prohibited - there is a requirement not to use this capability in a given context.

NOTE: To support a capability means that the capability is implemented in conformance to EN 300 443-1 [1].

### Reference column

Except where explicitly stated, the reference column refers to the appropriate text of ITU-T Recommendation Q.2931 as modified by EN 300 443-1 [1] describing the particular item. Note, however, that a reference indicates only the location of the most essential information about an item. All additional requirements contained in EN 300 443-1 [1] have also to be taken into account when making a statement about the conformance of that particular item.

### Support column

The following notation, defined in ISO/IEC 9646-7 [4], is used for the support column:

<input type="checkbox"/> Yes <input type="checkbox"/> No	Tick "Yes" if item is supported, tick "No" if item is not supported.
<input type="checkbox"/> N/A	Tick "N/A" if the item is "not applicable".

### Prerequisite line

A prerequisite line takes the form: Prerequisite: <predicate>.

A prerequisite line after a subclause heading or table title indicates that the whole subclause or the whole table is not required to be completed if the predicate is FALSE.

## A.1.3 Instructions for completing the PICS proforma

The supplier of the implementation shall complete the PICS proforma. For each row in each PICS proforma table the supplier shall enter an explicit answer (i.e., by ticking the appropriate "Yes", "No", or "N/A" in each of the support column boxes provided. Where a support column box is left blank, or where it is marked "N/A" without any tickbox, no answer is required.

If necessary, the supplier may enter additional comments at the end of each table, or separately.

More detailed instructions may be found at the beginning of each subclause of the proforma.

## A.1.4 The PICS proforma tables

### A.1.4.1 Correspondence to physical interface

The "implementation" (IUT) about which the PICS proforma asks questions corresponds to a layer 3 implementation on top of ONE physical interface. If the SUT implements more than one configuration, then a layer 3 PICS shall be created for each type of interface (and for each configuration of each interface) provided by the SUT.

### A.1.4.2 Structure of the tables

The supplier shall provide answers to the questions concerning the major roles of the IUT (table A.1). The supplier shall then provide answers to the questions relating to the capabilities of the IUT in one of the major roles as appropriate. Apart from the initial questions to determine roles, the major roles of the IUT; the user role (R 2.1) and the network role (R 2.2), are treated completely separately in the PICS proforma. It is only necessary to complete the questions for the supported role.

### A.1.4.3 Support for received PDU parameters

In the PDU parameter tables, the PICS proforma asks questions about the information elements (parameters) supported in messages (PDUs) received by the IUT. This subclause explains, in the context of EN 301 003-1 [2], what "to support a received PDU parameter" means.

The requirement that an IUT is able to parse an information element in a received message is already implied by claiming support for the receipt of that received message. This means that "to support a received PDU parameter" implies more.

Information elements in a received message are regarded as either transparent or non-transparent.

A non-transparent information element is one that causes the protocol control entity to vary its behaviour in accordance with the content of the information element. To support a non-transparent information element means an IUT can process the received parameter and behave according to the procedures described in EN 301 003-1 [2].

An information element is transparent if the actions taken according to its contents are not detectable in the subsequent behaviour of the protocol (i.e. EN 301 003-1 [2] does not specify the behaviour). To support a transparent information element means an IUT can receive the information element concerned and pass it to an appropriate processing entity; the information element is not discarded by the protocol control entity. Non-support of a transparent information element means the IUT discards it.

Transparent parameters are marked by a "(T)" in the PDU parameter tables.

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## A.2 Identification of the implementation

Identification of the Implementation Under Test (IUT) and the system in which it resides (the System Under Test (SUT)) should be filled in to provide as much detail as possible regarding version numbers and configuration options.

The product supplier and client information should both be filled in if they are different.

A person who can answer queries regarding information supplied in the PICS should be named as the contact person.

### A.2.1 Date of the statement

.....

### A.2.2 Implementation Under Test (IUT) identification

IUT name:

.....

.....

IUT version:

.....

### A.2.3 System Under Test (SUT) identification

SUT name:

.....

.....

Hardware configuration:

.....

.....

.....

Operating system:

.....

.....

## A.2.4 Product supplier

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

## A.2.5 Client

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

## A.2.6 PICS contact person

Name:

.....

Address:

.....

.....

.....

Telephone number:

.....

Facsimile number:

.....

Additional information:

.....

.....

.....

---

## A.3 Identification of the protocol to which this PICS proforma applies

This PICS proforma applies to the following standard:

**EN 301 003-1 (V1.1):** "Broadband Integrated Services Digital Network (B-ISDN); Digital Subscriber Signalling System No. two (DSS2) protocol; Connection characteristics; Peak cell rate modification by the connection owner; Part 1: Protocol specification [ITU-T Recommendation Q.2963.1 (1996), modified]".

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## A.4 Global statement of conformance

Are all mandatory capabilities implemented? (Yes/No) .....

NOTE: Answering "No" to this question indicates non-conformance to the protocol specification. Non-supported mandatory capabilities are to be identified in the PICS, with an explanation of why the implementation is non-conforming. Explanations may be entered in the comments field at the bottom of each table or on attached pages.

## A.5 Roles

Table A.1: Roles

Item	Major role: Does the implementation support...	Conditions for status	Status	Reference	Support
R 1.1	the user role?		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No
R 1.2	the network role?		O.1		<input type="checkbox"/> Yes <input type="checkbox"/> No
R 2.1	requirements for the modification requesting entity?	R1.1 R1.2	O.2 M	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 2.2	requirements for the responding entity?	R1.1 R1.2	O.2 M	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 3.1	requirements for the transit entity?		O.3	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
R 3.2	requirements for the terminating entity?		O.3	3	<input type="checkbox"/> Yes <input type="checkbox"/> No
O.1 support of one and only one of these options is required					
O.2 support of at least one of these options is required					
O.3 support of one and only one of these options is required					
Comments:					

## A.6 Major capabilities

Table A.2: Major capabilities

Item	Major capability: Does the implementation ...	Conditions for status	Status	Reference	Support
MC 1	support increasing and decreasing the PCR?		M	5.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
MC 2	support confirmation of modification?	NOT (R3.1 and R.2.2) R3.1 and R.2.2	M  O	9.2.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.7 Requesting entity

The tables provided in this clause need only to be completed for requesting entity implementations, where item R2.1 in table A.1 is supported.

### A.7.1 Messages received

**Table A. 3: Messages received**

Item	Messages received: Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
MR 1	MODIFY ACKNOWLEDGE?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MR 2	MODIFY REJECT?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

### A.7.2 Messages transmitted

**Table A.4: Messages transmitted**

Item	Messages transmitted: Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
MT 1	MODIFY REQUEST?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MT 2	CONNECTION AVAILABLE?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.7.3 Requesting entity protocol data unit parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT. In DSS2, protocol PDU parameters are known by the term "information elements".

### A.7.3.1 Requesting entity protocol data unit parameters received

**Table A.5: Modify Acknowledge PDU parameters received**

Item	Modify Acknowledge PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IER 2.1	Protocol Discriminator?		M	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 2.2	Call reference?		M	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 2.3	Broadband report type?		M	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 2.4	Notification indicator?		O	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

**Table A.6: Modify Reject PDU parameters received**

Item	Modify Reject PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IER 3.1	Protocol Discriminator?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 3.2	Call reference?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 3.3	Cause?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 3.4	Notification indicator?		O	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

### A.7.3.2 Requesting entity protocol data unit parameters transmitted

Indicating support for an item in the tables in this subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

**Table A.7: Modify Request PDU parameters transmitted**

Item	Modify Request PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IET 1.1	Protocol Discriminator?		M	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 1.2	Call reference?		M	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 1.3	ATM traffic descriptor?		M (note)	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 1.4	Notification indicator?		O	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOTE: All four Peak Cell Rate Parameters are optional, but at least one shall be present.					
Comments:					



**Table A.8: Connection Available PDU parameters transmitted**

Item	Connection Available PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IET 4.1	Protocol Discriminator?		M	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 4.2	Call reference?		M	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 4.3	Notification indicator?		O	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.8 Responding entity

The tables provided in this clause need only to be completed for responding entity implementations, where item R2.2 in table A.1 is supported.

### A.8.1 Messages received

**Table A.9: Messages received**

Item	Messages received: Does the implementation support the interpretation of...	Conditions for status	Status	Reference	Support
MR 1	MODIFY REQUEST?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MR 2	CONNECTION AVAILABLE?	R3.1 R3.2	M O	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

### A.8.2 Messages transmitted

**Table A.10: Messages transmitted**

Item	Messages transmitted: Does the implementation support the inclusion of...	Conditions for status	Status	Reference	Support
MT 1	MODIFY REJECT?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
MT 2	MODIFY ACKNOWLEDGE?		M	8.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.8.3 Responding entity protocol data unit parameters

The tables in this subclause ask questions related to the support of PDU parameters in messages received and transmitted by the IUT. In DSS2, protocol PDU parameters are known by the term "information elements".

### A.8.3.1 Responding entity protocol data unit parameters received

**Table A.11: Modify Request PDU parameters received**

Item	Modify Request PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IER 1.1	Protocol Discriminator?		M	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 1.2	Call reference?		M	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 1.3	ATM traffic descriptor?		M (note)	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 1.4	Notification indicator?		O	8.1.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
NOTE: All four Peak Cell Rate Parameters are optional, but at least one shall be present.					
Comments:					

**Table A.12: Connection Available PDU parameters received**

Item	Connection Available PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IER 4.1	Protocol Discriminator?		M	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 4.2	Call reference?		M	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
IER 4.3	Notification indicator?		O	8.1.4	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

### A.8.3.2 Responding entity protocol data unit parameters transmitted

Indicating support for an item in the tables in this subclause states that the implementation has the ability to generate, and to transmit in the specified message, the information elements listed. Such support does not necessarily mean that the indicated information element is included in every instance of the transmitted message.

**Table A.13: Modify Acknowledge PDU parameters transmitted**

Item	Modify Acknowledge PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IET 2.1	Protocol Discriminator?		M	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 2.2	Call reference?		M	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 2.3	Broadband report type?	R3.1 R3.2	M O	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 2.4	Notification indicator?		O	8.1.2	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

**Table A.14: Modify Reject PDU parameters transmitted**

Item	Modify Reject PDU parameters: Does the implementation support the...	Conditions for status	Status	Reference	Support
IET 3.1	Protocol Discriminator?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 3.2	Call reference?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 3.3	Cause?		M	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
IET 3.4	Notification indicator?		O	8.1.3	<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments:					

## A.9 Timers

Indicating support for an item in table A.15 below states that the implementation has a timer that operates in accordance with the description in subclause 13.1 of Q.2963.1 as modified by EN 301 003-1 [2] as an initiating entity or in subclause 13.2 of Q.2963.1 as modified by EN 301 003-1 [2] as a responding entity as appropriate.

**Table A.15: Timers**

Item	Timer: Does the implementation support ...	Conditions for status	Status	Reference	Support
TM 1	T360?	R2.1 NOT R2.1	M N/A	13.1	<input type="checkbox"/> Yes <input type="checkbox"/> No
TM 2	T361?	MC2 AND R2.2 AND R3.2 NOT (MC2 AND R2.2 AND R3.2 )	M N/A	13.2	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments:					

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## History

Document history				
V1.1.1	December 1997	Public Enquiry	PE 9815:	1997-12-12 to 1998-04-10
V1.1.2	January 1999	Vote	V 9913:	1999-01-26 to 1999-03-26