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Services and Protocols for Advanced Networks (SPAN); Anonymous Call Rejection (ACR) Supplementary Service; Service description

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ETSI

650 Route des Lucioles
F-06921 Sophia Antipolis Cedex - FRANCE

Tel.: +33 4 92 94 42 00 Fax: +33 4 93 65 47 16

Siret N° 348 623 562 00017 - NAF 742 C
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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Services and Protocols for Advanced Networks (SPAN).

The present document had been submitted to the One-step Approval Procedure with the version number 2.0.0. For consistency reasons the version number is modified and the present document being published with the version number 1.1.1.

National transposition dates	
Date of adoption of this EN:	20 October 2000
Date of latest announcement of this EN (doa):	31 January 2001
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1 Scope

The present document provides the definition, administrative aspects and operation for the Anonymous Call Rejection Supplementary service. Whilst the service description is generic there may be stage 2 and 3 requirements or other requirements for specific networks. Where there are identified issues for specific networks these will be indicated either in the relevant place in the text or in an annex.

The present document specifies a service as instructed by article 8, clause 3 of the EC Telecomms Data Protection Directive (97/66/EC [1]) - see annex E for the relevant extract from this directive.

The ACR supplementary service applies to Public Telecommunication Networks e.g. PSTN and ISDN.

The purpose of a generic service description is to enable future implementation to work in a similar manner for the view of the user.

At which point in the network the actual rejection of incoming call will take place is subject to national regulations and network considerations. The ACR supplementary service could be realized in two ways, either as a network based solution (of which the activation, deactivation and interrogation procedures are described in the present document) or as a user based solution using the basic call procedure which implementation is left to user's equipment manufacturer.

- 1) Network based solution: a service offered as part of a function within the public network for all incoming calls for which the calling line identification is not available because of restriction according to the CLIR supplementary service [3] and [5].
- 2) User based solution: a service offered as part of a function within the end-user equipment for all incoming calls or to be decided by the end-user per incoming call for which the calling line identification is not available because of restriction according to the CLIR supplementary service [3] and [5].

NOTE: If the presentation of the calling party number is restricted by network reasons the ACR supplementary service shall not apply.

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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] Directive 97/66/EC of the European Parliament and of the Council of 15 December 1997 concerning the processing of personal data and the protection of privacy in the telecommunications sector.
- [2] ETSI EN 300 089: "Integrated Services Digital Network (ISDN); Calling Line Identification Presentation (CLIP) supplementary service; Service Description".
- [3] ETSI EN 300 090: "Integrated Services Digital Network (ISDN); Calling Line Identification Restriction (CLIR) supplementary service; Service description".
- [4] ETSI ETS 300 648: "Public Switched Telephone Network (PSTN); Calling Line Identification Presentation (CLIP) supplementary service; Service Description".
- [5] ETSI ETS 300 649: "Public Switched Telephone Network (PSTN); Calling Line Identification Restriction (CLIR) supplementary service; Service Description".

- [6] ETSI EN 300 356-1: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1997), modified]".
- [7] ETSI EN 300 356-3: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [8] ETSI EN 300 356-4: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [9] ETSI EN 300 356-21: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 4 for the international interface; Part 21: Anonymous Call rejection (ACR) supplementary service [ITU-T Recommendation Q.731 clause 4 (1993)]".
- [10] ETSI EN 300 485: "Integrated Services Digital Network (ISDN); Definition and usage of cause and location in Digital Subscriber Signalling System No. one (DSS1) and Signalling System No.7 ISDN User Part (ISUP) [ITU-T Recommendation Q.850 (1998), modified]".

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

Served user: user to whom the ACR supplementary service is provided.

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3.2 Abbreviations

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

ACR	Anonymous Call Rejection
APRI	Address Presentation Restriction Indicator
CLI	Calling Line Identification
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
ISDN	Integrated Services Digital Network
PSTN	Public Switched Telephone Network

4 User Requirements

The served user shall have the ability to reject calls based on the indication that the calling line identity is not presented because of restriction according to the CLIR supplementary service [3] and [5].

The called party's equipment shall not be alerted.

Depending on the solution how the ACR supplementary service is implemented, the following user requirements apply:

- 1) network based solution: the ability to activate, deactivate and interrogate the supplementary service;
- 2) user based solution: the ability to activate, deactivate and interrogate the supplementary service to reject all incoming calls are implementation dependent and left to user's equipment manufacturer.

With the network based solution there shall be no need to use special terminal equipment, whereas the user based solution there is.

5 Service Definition

The Anonymous Call Rejection (ACR) supplementary service allows the served user to reject incoming calls from users or subscribers who have restricted the presentation of their calling line identity according to the CLIR supplementary service [3] and [5].

ACR will reject all calls with CLI marked "presentation restricted" according to CLIR. The calls are rejected regardless of the current state (e.g. free or busy) of the served user's access. The ACR supplementary service shall not reject calls with a CLI marked "presentation restricted by network". The served user's ability to originate calls is unaffected by the ACR supplementary service.

The calling user shall be given an appropriate indication that the call has been rejected due to the application of the ACR supplementary service.

NOTE: The method of rejection of anonymous calls is a service provider option, and may include the functionality where all anonymous calls are forwarded to e.g. a voice mail service.

6 Procedures

6.1 Provision/Withdrawal

When implemented as a network based solution:

1. The ACR supplementary service shall be provided after prior arrangement with the service provider.
2. The ACR supplementary service shall be withdrawn at the served user's request or for administrative reasons.

6.2 Normal Procedures

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6.2.1 Registration and erasure

Not applicable.

6.2.2 Activation and deactivation

The customer shall have the ability to turn the ACR supplementary service on (activate) and off (deactivate).

When implemented as a network based solution to activate or deactivate the ACR supplementary service the user shall send appropriate information to the network.

6.2.3 Invocation and operation

When the ACR supplementary service has been activated, then the ACR supplementary service shall automatically be invoked for all incoming calls where the calling line identity is marked as "presentation restricted" according to the CLIR supplementary service [3] and [5].

ACR shall not be invoked for incoming calls that have their CLI marked: "not available", "presentation allowed" or "presentation restricted by network".

NOTE: These cases include for example incoming calls from subscribers and network initiated calls.

6.2.4 Interrogation

When implemented as a network based solution the served user can interrogate the network in order to determine the status of the ACR supplementary service.