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# OSI CONS SNARE over UDP (SNARE-UDP)
# Version: 1
# <draft-bidulock-tsvwg-snare-00.ps>

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## Abstract

This memo provides a mechanism for providing for a SNARE [ISO/IEC 10030], [X.223] capability over UDP for providing a subnetwork address resolution entity that can provide X.25 CONS address discovery for the XOT [RFC1613] and XOS protocols.

## Contents

A complete table of contents, list of illustrations, list of tables and change history for this memo appears at the end of the memo.

## 1. Introduction

### 1.1. Scope

### 1.2. Terminology

This memo uses the following extended terminology:

**Subnetwork Address Resolution Entity (SNARE)** — A subnetwork address resolution entity is an entity that can provide address routing configuration and redirect information in accordance with the ISO CONS SNARE definintion [ISO/IEC 10030].

### 1.3. Abbreviations

*CONS* — Connection Oriented Network Service

*ES* — End System
*IS* — Intermediate System
*OSI* — Open Systems Interconnect
*SNARE* — Subnetwork Address Resolution Entity

### 1.4. Conventions

The key words "**MUST**", "**MUST NOT**", "**REQUIRED**", "**SHALL**", "**SHALL NOT**", "**SHOULD**", "**SHOULD NOT**", "**RECOMMENDED**", "**MAY**", and "**OPTIONAL**" in this document are to be interpreted as described in [RFC2119].

## 2. Security

## 3. IANA Considerations

This memo requests the assignment of one UDP well-known port number and two IP Multicast Addresses.

### 3.1. IPv4 Multicast Addresses

Two IP multicast addresses are to be assigned for this protocol:

**All CONS End System Address**
This address is used for sending multicast UDP datagrams to all CONS end systems on an IP subnetwork.

**All CONS SNARES Address**
This address is used for sending multicast UDP datagrams to all CONS SNAREs on an IP subnetwork.

### 3.2. Port Number

This memo allocates a well-known port number for use in listening for UDP datagrams on multicast addresses and for exchanging SNARE messages between a CONS End System and a SNARE Intermediate System.

## 0. Change History

This section provides historical information on the changes made to this draft. This section will be removed from the document when the document is finalized for publication as an RFC.

### 0.1. Initial Version 0.0

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## Change Log

```
$Log: draft-bidulock-tsvwg-snare-00.me,v $
Revision 0.9.2.1  2008-06-13 06:43:52  brian
- added files
```

[**ISO/IEC 10030**] ISO, *"Information Processing Systems − Telecommunications and Information Exchange between Systems − End System Routeing Information Exchange Protocol for use in conjunction with ISO/IEC 8878,"* **ISO/IEC 10030 : 1995**, International Organization for Standardization (1995). <**http://www.iso.org/**>

[**X.223**] ITU, *"Use of X.25 to Provide the OSI Connection-mode Network Service for ITU-T Applications,"* **ITU-T Recommendation X.223 [ISO/IEC 8878]**, ITU-T Telecommunication Standardization Sector of ITU, Geneva (November 1993). *(Previously "CCITT Recommendation")* <**http://www.itu.int/rec/T-REC-X.223/**>

[**RFC1613**] *"Cisco Systems X.25 over TCP (XOT),"* **RFC 1613**, The Internet Society (May 1994). *(Status: INFORMATIONAL) (Defines TCP port number 1998.)* <**http://www.ietf.org/rfc/rfc1613.txt**>

## Normative References

[**RFC2119**] Bradner, S., *"Key words for use in RFCs to Indicate Requirement Levels,"* **BCP 14/RFC 2119**, The Internet Society (March 1997). <**http://www.ietf.org/rfc/rfc2119.txt**>

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