

ISO/IEC JTC 1/SC 32 N 0307

Date: 1999-05-27

REPLACES: --

<p style="text-align: center;">ISO/IEC JTC 1/SC 32</p> <p style="text-align: center;">Data Management and Interchange</p> <p style="text-align: center;">Secretariat: United States of America (ANSI)</p> <p style="text-align: center;">Administered by Pacific Northwest National Laboratory on behalf of ANSI</p>
--

DOCUMENT TYPE	Other Document (Open)
TITLE	Rationale for Project Split – Enhancements to Security for Database Distribution
SOURCE	SC 32/WG 5
PROJECT NUMBER	31.05.00.00.00
STATUS	For Approval at the SC 32 Closing Plenary meeting, May, 1999
REFERENCES	
ACTION ID.	ACT
REQUESTED ACTION	For Approval at the SC 32 Closing Plenary meeting, May, 1999
DUE DATE	
Number of Pages	2
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

Douglas Mann, Secretariat, ISO/IEC JTC 1/SC 32

Pacific Northwest National Laboratory *, 901 D Street, SW., Suite 900, Washington, DC, 20024-2115,
bb

United States of America

Telephone: +1 703 575 2114; Facsimile: +1 703 681 9180; E-mail: MannD@battelle.org

*Pacific Northwest National Laboratory (PNL) administers the ISO/IEC JTC 1/SC 32 Secretariat on behalf of ANSI

**Title: Rationale for Project Split:
Enhancements to Security for Database
Distribution**

Project: 31.05.00.00.00 Remote Data Access for SQL

Source: SC32 WG 5 Meeting, Matsue

Date: 25 May 1999

Status: WG Output Paper for SC32 Plenary

Required Action: For SC32 Plenary Approval, May 1999

References:

SC32 N0109 ISO/IEC WD9579 – Remote Data Access for SQL (RDA4)
SC32 N0106 ISO/IEC 9579 PDAM 1 – Secure Remote Data Access
SC32 N0247 ISO/IEC 9579 PDAM 2 – Distribution Schema for RDA

Rationale:

RDA provides facilities for authentication and authorization of the service user in an environment that includes an SQL client and an SQL server.

As RDA evolves to support the Distribution Controller functions being worked on in working group 5 and in working group 3, additional attention will have to be given to issues surrounding security. This is due to the additional functional layer that the distribution controller adds between the user and the database.

Issues which must be addressed include but are not limited to:

- user identification at multiple sites and the mapping to the appropriate SQL user identifiers at each site
- role identification at multiple sites and the mapping to the appropriate SQL role identifiers at each site
- mapping of roles and users at the distribution controller
- requirements for confidentiality at the distribution controller
- non-repudiation as applied to both distribution controllers and SQL servers

This work falls within the scope of the current project but should be addressed by a separate subproject so as to allow independent progression of RDA4.