**software** AG

# Entire Net-Work

## Point-to-Point Support for Adabas (ADATCP)

Version 6.5.1

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**ADABAS & NATURAL**

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# Point-to-Point Support for Adabas (ADATCP)

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# 1 About this Documentation

# Document Conventions

| Convention | Description |
|---|---|
| **Bold** | Identifies elements on a screen. |
| `Monospace font` | Identifies service names and locations in the format *folder.subfolder.service*, APIs, Java classes, methods, properties. |
| *Italic* | Identifies:<br><br>Variables for which you must supply values specific to your own situation or environment.<br>New terms the first time they occur in the text.<br>References to other documentation sources. |
| `Monospace font` | Identifies:<br><br>Text you must type in.<br>Messages displayed by the system.<br>Program code. |
| { } | Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols. |
| \| | Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the \| symbol. |
| [ ] | Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols. |
| ... | Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...). |

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# 2 Overview

This chapter describes ADATCP, a component of Entire Net-Work, that provides direct point-to-point support for an Adabas nucleus. This allows mainframe TCP/IP-enabled application programs to communicate directly with an Adabas nucleus without requiring intermediate Net-work nodes.

ADATCP runs as a subtask in the Adabas address space. ADATCP utilizes the Adabas Directory Server (ADI) by registering its target ID. This entry contains the target ID, host name, and port number, providing the information the application needs to send Adabas commands directly to a remote Adabas nucleus.

ADATCP also registers its kernel with the ADI, so that Adabas Manager (AMN) can communicate with it. At session end, ADATCP deletes its entries from the ADI.

A database must be enabled for UES to run with ADATCP. ADATCP requires a valid Net-Work (WCP) license, in addition to any other Adabas licenses.

# 3 Prerequisites

The following are the minimum product release levels required to run ADATCP:

- Adabas Version 8.5.1
- Entire Net-Work Version 6.5.1
- Entire Net-Work TCP/IP Option Version 6.5.1
- MLC Version 1.3.5

# 4 Applications That Use ADATCP

Application programs that have TCP/IP support can communicate directly with the Adabas nucleus via ADATCP.

- For mainframe applications, this capability is provided by a TCP/IP-enabled ADALNK. TCP/IP support for ADALNK was introduced in Adabas Version 8.5.1.
- Net-work kernels can also communicate with ADATCP. This allows non-mainframe applications to access an ADATCP database. It also allows a Net-Work kernel to act as a concentrator, or gateway. This, for example, can give many application programs access through a firewall via a single firewall port.

  Using a Net-Work gateway also allows application programs without TCP/IP support to communicate with ADATCP.

> **Note:** Applications that access a local ADATCP database will perform better when using ADALNK that is not enabled for TCP/IP communication.

# 5 Adabas Directory Server

ADATCP and direct TCP/IP clients utilize the Adabas Directory Server (ADI).

Direct TCP/IP clients query the ADI to obtain the location of the Adabas target ID.

ADATCP registers its target ID with Adabas Directory Server (ADI). This entry contains the target ID, host name, and port number, providing the information the application needs to send Adabas commands directly to a remote Adabas nucleus.

ADATCP also registers its kernel with the ADI, so that the session can be known to Adabas Manager (AMN). At session end, ADATCP deletes its entries from the ADI.

See the section *Adabas Directory Server Administration* for more information.

# 6 Activating ADATCP

To activate ADATCP in an Adabas session:

1. To run ADATCP, the database must be UES enabled. See *Enabling Universal Encoding Support (UES) for Your Adabas Nucleus* in the Adabas documentation for more information on how to enable UES in a database. Additionally, the ADALNK used by ADATCP must also be UES enabled. The delivered ADALNK is UES enabled and is sufficient in most environments. However, if changes to the translate tables in ADALNK are required, see *Enabling Direct TCP/IP Access (ADATCP) to Your Adabas Nucleus* in the Adabas documentation for more information.

2. Provide a Net-Work license file. It is recommended that the Entire Net-Work license file be assembled into a load module, available to the Adabas startup job. To assemble the Entire Net-Work license file, sample job ASMLICAM in ADA*vrs*.MVSJOBS can be used.

   > **Note:** The load module name must be NETLIC. For more information, refer to *Software AG Mainframe Product Licensing*.

3. Include Net-Work load libraries.

   Add WCP*vrs*.MVSLOAD and WTC*vrs*.MVSLOAD to the STEPLIB of the Adabas startup job.

4. Provide ADI parameters.

   If necessary, add a TCPIN DD statement with the parameters that specify the location of the ADI.

   Example:

```
//TCPIN DD *
ADI=Y
ADIHOST=AHOST
ADIPORT=4952
/*
```

5. Add ADARUN parameters.

   Set TCPIP=YES. See the description of the TCPIP parameter in the *Adabas Operations* documentation for more information.

   Set TCPURL. See the description of the TCPURL parameter for more information.

# 7 Managing Sessions

Commands can be issued to ADATCP via the TCPIP operator command. These commands can terminate (CLOSE) or reactivate (OPEN) ADATCP within the database session. Other commands can also be issued, for example to turn logging on or off. See the Adabas operator command TCPIP for more information.

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