

Entire Net-Work

Entire Net-Work 6.4 Release Notes

Version 6.4.1

October 2018

This document applies to Entire Net-Work Version 6.4.1 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Entire Net-Work 6.4 Release Notes

This document provides information on Entire Net-Work and Entire Net-Work for zIIP, a selectable unit of Entire Net-Work that enables Entire Net-Work to make use of IBM's zIIP engine.

zIIP Support

Entire Net-Work for zIIP enables Entire Net-Work on z/OS to offload part of its workload from the mainframe's general central processors (GCP) to System z Integrated Information Processors (zIIP).

Offloading work from the GCPs will free up some of their capacity. This helps decrease the total cost of operation (TCO) of the GCPs and makes room for running additional workload on them. Furthermore, the use of Entire Net-Work for zIIP may result in performance benefits by increasing the throughput for certain workloads.

Entire Net-Work for zIIP supports the following Drivers:

- CTCA
- FCTC
- TCPI
- TCPX
- VTAM
- XCF

The SSL and SSLI Drivers do not currently support execution on zIIPs. You should also refer to the *Adabas for zIIP* documentation.

General Information

Read this document carefully before installing and using Entire Net-Work version 6.4. It covers the following topics:

<i>Supported Operating System Platforms</i>	Describes the currently supported operating environments for this version of Entire Net-Work.
<i>Enhancements</i>	Describes the enhancements made to Entire Net-Work for Version 6.4.
<i>Installation and License</i>	Describes where the Entire Net-Work 6.4 installation and license information for can be found.
<i>Limitations and Restrictions</i>	Lists the limitations and restrictions currently existing in this version of Entire Net-Work.
<i>Applying Zaps</i>	Describes general information on where to locate and how to apply Entire Net-Work zaps.
<i>Software AG Mainframe Product Compatibility</i>	Describes the compatibility of this version of Entire Net-Work with other Software AG mainframe products.
<i>End of Maintenance</i>	Describes how you can determine the end-of-support dates for your Software AG products.
<i>Documentation and Other Online Information</i>	Describes the documentation and other online information you can obtain for this release of Entire Net-Work.

In addition, if you elect to install the Entire Net-Work TCP/IP Option, please read *Entire Net-Work TCP/IP Option Release Information* as well.

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG products, please review the [*Product Compatibility for IBM Platforms*](#) web page.

Notation "*vr SP s*", *vrs*, or *vr*: When used in this documentation, the notation "*vr SP s*", *vrs*, or *vr* stands for the relevant version, release, and system maintenance level numbers. For further information on product versions, see *version* in the *Glossary*.

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. 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 (...).

Online Information and Support

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <http://documentation.softwareag.com>. The site requires credentials for Software AG's Product Support site Empower. If you do not have Empower credentials, you must use the TECHcommunity website.

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If you do not yet have an account for Empower, send an email to empower@softwareag.com with your name, company, and company email address and request an account.

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You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>.

To submit feature/enhancement requests, get information about product availability, and download products, go to [Products](#).

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the [Knowledge Center](#).

If you have any questions, you can find a local or toll-free number for your country in our Global Support Contact Directory at https://empower.softwareag.com/public_directory.asp and give us a call.

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You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest.
- Access articles, code samples, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

3 Supported Operating System Platforms

Software AG generally provides support for the operating system platform versions supported by their respective manufacturers; when an operating system platform provider stops supporting a version of an operating system, Software AG will stop supporting that version.

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG products, please review the [Product Compatibility for IBM Platforms](#) web page.

Before attempting to install this product, ensure that your host operating system is at the minimum required level. For information on the operating system platform versions supported by Software AG products, complete the following steps.

1. Access Software AG's Empower web site at <https://empower.softwareag.com>.
2. Log into Empower. Once you have logged in, you can expand **Products & Documentation** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability screen.
3. Use the fields on the top of this screen to filter its results for your Software AG product. When you click the **Search** button, the supported Software AG products that meet the filter criteria are listed in the table below the filter criteria.

This list provides, by supported operating system platform:

- the Software AG general availability (GA) date of the Software AG product;
- the date the operating system platform is scheduled for retirement (OS Retirement);
- the Software AG end-of-maintenance (EOM) date for the product; and
- the Software AG end-of-sustained-support (EOSS) date for the product.



Note: Although it may be technically possible to run a new version of your Software AG product on an older operating system, Software AG cannot continue to support operating system versions that are no longer supported by the system's provider. If you have questions

about support, or if you plan to install this product on a release, version, or type of operating system other than one listed on the Product Version Availability screen described above, consult Software AG technical support to determine whether support is possible, and under what circumstances.

4 Enhancements

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This chapter lists the Entire Net-Work 6.4 enhancements.

Category	Enhancements
General	Adabas 8.3 ADARUN Parameter Enhancements
Entire Net-Work 6.4 SP1 Enhancements	Entire Net-Work 6.4 Operator Command Enhancements
	CPU Statistics
	FCTC COMPAT Parameter

Adabas 8.3 ADARUN Parameter Enhancements

This section describes the ADARUN Parameter enhancements introduced with Adabas for zIIP Version 8.3 SP5.

- [ZIIP: Enable zIIP Usage](#)

For more information about any ADARUN parameter, read *Adabas Initialization (ADARUN Statement)* in the Adabas documentation.

ZIIP: Enable zIIP Usage

This release introduces a new ADARUN parameter called `ZIIP`. This parameter controls whether or not Entire Net-Work activates the selectable unit Adabas for zIIP (AZPAD). Valid values are YES or NO; NO is the default.

This parameter is valid for z/OS operating environments only.

For complete information about the `ZIIP` parameter, read *ZIIP Parameter: Activate Usage of Adabas for zIIP*.

Entire Net-Work 6.4 Operator Command Enhancements

This section describes the operator command enhancements made in Entire Net-Work Version 6.4.

- [DISPLAY STATS Command](#)
- [DISPLAY ZSTATS Command](#)
- [SET ZIIP Command](#)
- [zIIP-Related Session Statistics](#)

- [Documentation Enhancements](#)

DISPLAY STATS Command

With Entire Net-Work Version 6.4, the `DISPLAY STATS` operator command also displays the current value of the `ZIIP` parameter, as well as `zIIP`-related statistics.

For more information, refer to the example for `DISPLAY STATS` in the description of the `DISPLAY Command`.

DISPLAY ZSTATS Command

With Entire Net-Work for `zIIP` Version 6.4, the `DISPLAY ZSTATS` operator command also displays the current value of the `ZIIP` parameter, as well as `zIIP`-related statistics.

For more information, refer to the example for `DISPLAY ZSTATS` in the description of the `DISPLAY Command`.

SET ZIIP Command

Entire Net-Work for `zIIP` Version 6.4, introduces the `SET ZIIP` operator command. Use this command to turn on or off the use of System z Integrated Information Processors (`zIIP`) in the Entire Net-Work kernel.

Issuing `SET ZIIP=YES` will tell the Entire Net-Work kernel to run in SRB mode whenever possible, enabling the use of `zIIPs`. Issuing `ZIIP=NO` will tell the Entire Net-Work kernel to always run in TCB mode, using only general processors.

The `ZIIP` operator command may only be used in an Entire Net-Work session that was started with `ADARUN` parameter `ZIIP=YES`.

For more information, refer to `SET ZIIP Command`.

zIIP-Related Session Statistics

Entire Net-Work for `zIIP` prints extensive statistics about its execution in SRB mode and TCB mode and about the CPU time consumed on System z Integrated Information Processors (`zIIP`) and general central processors (GCP), both at session termination and for the `DISPLAY STATS` and/or `DISPLAY ZSTATS` operator command.

For details on the `zIIP`-related statistics, see the section *Monitoring zIIP Usage* in the new *Entire Net-Work for zIIP* documentation.

Documentation Enhancements

Information on the basic concepts around zIIP processing can be found in the new *Entire Net-Work for zIIP* documentation.

CPU Statistics

CPU statistics are now displayed at session termination, or via the `DISPLAY STATS` or `DISPLAY CPU` operator command.

FCTC COMPAT Parameter

The default value for the COMPAT FCTC Driver parameter has been changed to N.

5 Installation and License

- Installation Media Description 14
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The Entire Net-Work 6.4 installation media contains all of the components required to run Entire Net-Work:

- The Entire Net-Work mainline processor and service routines, the VTAM and IUCV line driver components.
- The Adabas components required by Entire Net-Work.
- The Entire Net-Work CTC Option components, if ordered.
- The Entire Net-Work TCP/IP Option components, if ordered.
- The Entire Net-Work XCF Option components, if ordered.
- The Entire Net-Work SAF Security components, if ordered.

Installation Media Description

Refer to the *Software AG Product Delivery Report* that accompanies the installation media for information about the Entire Net-Work 6.4 installation media, including media density, media type, data sets, and data set sequence numbers. The online documentation describes the complete installation process. See the section *Entire Net-Work Installation* in the *Entire Net-Work Installation Guide*.

Product Code Description

The Entire Net-Work components are identified by the following product codes, which are used in the data set names on all Entire Net-Work installation media:

Product Code	Description
MLC	Software AG's common mainframe license check software.
WCP	Entire Net-Work mainline processor, service routines, and the VTAM and IUCV line drivers.
WAL	A set of Adabas components required to run Entire Net-Work. The WAL components are Adabas Version 8 for all platforms. Entire Net-Work requires the limited library modules to be at this level.
WCC	Entire Net-Work CTC Option (CTCA and FCTC line driver components)
WTC	Entire Net-Work TCP/IP Option (TCPI and TCPX line driver components)
WSL	Encryption for Entire Net-Work. Due to export restrictions, Encryption for Entire Net-Work is not included on the installation media. If you plan to use Encryption for Entire Net-Work in your enterprise, please contact your Software AG support representative.
WXF	Entire Net-Work XCF Option (XCF line driver components)
WAF	Entire Net-Work SAF Security (SAF Security Interface components)

Zaps Data Set

WCP64 s .Z000 is a sequential data set that contains all zaps available and officially released at the time the data set was created. You will need to apply the WCP64 s .Z000 data set (where s is the system maintenance level of the product) to the Entire Net-Work version 6.4 library immediately after loading the LOAD/TXTLIB/LOADLIB/PHASE library to disk and before executing any Entire Net-Work nucleus or utility.

The zap table is displayed *after* the line drivers have been initialized, but *before* license verification.

Optional zap table elements have the following format:

```
NETZOPT   Date yyyy-mm-dd, Version: vv.rr, SP ss, Base base-id
          Zaps  zapid zapid2
```

All other zap table elements have the following format:

```
NETWRK   Date yyyy-mm-dd, Version: vv.rr, SP ss, Base base-id
          Zaps  zapid1 zapid2
```

The following substitutions are used in these formats:

Substitution	Description
<i>base-id</i>	The ID of the base code to which the zap table element applies.
<i>dd</i>	The calendar date within the month fo the zap table element.
<i>mm</i>	The calendar year of the zap table element.
<i>rr</i>	The release number of Entire Net-Work to which the zap table element applies.
<i>ss</i>	The service pack number of Entire Net-Work to which the zap table element applies.
<i>vv</i>	The version number of Entire Net-Work to which the zap table element applies.
<i>yyyy</i>	The calendar year of the zap table element.
<i>zapid</i>	The zap IDs that could be applied to the base code.

Refer to the *Software AG Product Delivery Report* that accompanies your installation media for more information about the zaps data set and its sequence on the installation media.

6 Limitations and Restrictions

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This chapter describes requirements and restrictions of Entire Net-Work for this release.



Notes:

1. Entire Net-Work 6.4 SP1 is compatible with Entire Net-Work 6.3 SP2 nodes.

Adabas Components

Entire Net-Work 6.4 requires the Adabas 8 components supplied in Adabas Limited Load Library (WAL) and the SVC from Adabas 8.3.4 (or later) . However, before Entire Net-Work can function correctly, the most recent fix data set must be concatenated in front of the standard WAL load library.

Be sure your enterprise is running with the most current fix solution for WAL supported by Entire Net-Work 6.4, when available for that platform.



Important: You should always use the most current Adabas load library or the Adabas limited library (WAL) as provided on the Entire Net-Work installation media, unless you have been specifically instructed otherwise by Software AG. Entire Net-Work Version 6.4 requires Adabas mainframe version 8.3.4 or later or WAL 8.3.4 or later.

TCP/IP Transport Providers Supported

Entire Net-Work 6.3 supports the following levels of TCP/IP transport providers:

Platform	TCP/IP Protocol Supported
z/OS	IBM TCP/IP for z/OS Version 1.10, 1.11, and 1.12.
z/VSE	IBM and Connectivity Systems TCP/IP z/VSE Version 4.2 and 4.3.
BS2000/OSD Sockets Subsystem	<p>Sockets Version 2.0 and above.</p> <p>For Sockets 2.2 and above, the SOC6 subsystem will be used, otherwise the SOCKETS subsystem is used.</p> <p>When accessing via IPV6 addressing, a SOC6 subsystem with Sockets 2.5 is the minimum requirement.</p>

7 Applying Zaps

 **Important:** Be sure that you apply all supplied Adabas maintenance and concatenate Adabas patch-level libraries (L00*n*), as they are delivered to you. This will ensure that your Adabas code remains up-to-date, supporting all Adabas features as they are enhanced and maintained. The latest zaps for this product are available in the Knowledge Center in Software AG's Empower (<https://empower.softwareag.com>) web site.

In general, zaps for Adabas components (such as Adabas nuclei, the Adabas router, Adabas utilities) can be applied and made active one component at a time.

- Adabas utility zaps should be applied to the load library. The utility can then be run or rerun to make use of the zap.
- Adabas nucleus zaps should first be applied to the load library. Then the nucleus should be stopped and restarted to activate the zap.
- Adabas router (on z/OS, ADASVC) zaps should first be applied to the load library. Then all Adabas nuclei and other MPM servers running on the router should be stopped and the router should be reinstalled to activate the zap. Finally, the Adabas nuclei and MPM servers should be restarted.

Finally, the distributed source library contains member ZAPOPT, which lists some optional zaps that you may choose to apply for the activation or deactivation of various features and optional user settings of Adabas. A ZAPOPT member will be included with each SM level distribution.

8 Software AG Mainframe Product Compatibility

The following table describes Entire Net-Work 6.4 compatibility with other Software AG mainframe products. You may need to upgrade your installation of the software if your existing release is not listed.

 **Note:** Any exceptions to the product compatibility described here will be covered in the documentation for the specific product.

Product	Compatible Version Levels and Notes
Adabas (ADA)	<p>The version of the Adabas SVC or router (BS2000) used must be the same as or greater than the version of any Adabas database used in your Adabas environment. For example, the Adabas 8.4 SVC/router can be run in the same environment with Adabas 8.3 or 8.4 databases. However, an Adabas 8.4 database cannot run in the same environment with an Adabas 8.3 SVC/router.</p> <p>For any given database (on disk), the Adabas nucleus and utilities of the same version and release level as the database must be used. If you need to convert a database to a higher version or release level, or revert it to a lower version or release level, the ADACNV utility of the higher level must be used.</p> <p>The Adabas link (ADALNK) routines can be used across versions. For example, Adabas 8.4 link routines can be used to issue calls to Adabas 8.3 databases. Software AG recommends that you use the Adabas 8 link routines for all programs that issue Adabas direct calls.</p>
Adabas Bridge for DL/I (ADL)	Version 2.3 SP2 supports Adabas 8.
Adabas Bridge for VSAM (AVB)	Version 5.1 SP1 releases on z/OS 2.1 support Adabas 8.4 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields) available since Adabas 8.3.
Adabas Caching Facility (ACF)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.

Product	Compatible Version Levels and Notes
Adabas CICS Interface (ACI)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Cluster Services (ALS)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Delta Save Facility (ADE)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Fastpath (AFP)	The minimum supported level of Adabas Fastpath is version 8.2 SP2. For more information, refer to <i>Using COR-based Add-ons</i> , in the <i>Adabas Release Notes</i> .
Adabas IMS Interface (AII)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Native SQL (SQL)	Version 2.4 SP1 supports Adabas 8 databases that do not make use of the expanded features (for example, spanned records, increased limits, or large object fields) available in Adabas 8.
Adabas Online System (AOS)	Version 8.4 supports Adabas 8.4 databases, with appropriate Adabas 8.4 zaps applied.
Adabas Parallel Services (ASM)	Version 8.4 supports Adabas 8.4 databases and requires the Adabas 8.4 load library, with appropriate Adabas 8.4 zaps applied.
Adabas Review (REV)	Version 4.8 SP2 and above support Adabas 8.4. For more information, refer to your <i>Adabas Review</i> documentation.
Adabas SAF Security z/OS (AAF)	The minimum supported level of Adabas SAF Security is version 8.2 SP2. For more information, refer to <i>Using COR-based Add-ons</i> , in the <i>Adabas Release Notes</i> .
Adabas Statistics Facility (ASF)	Version 8 fully supports all Adabas databases 8.3 SP3 or above databases and expanded features.
Adabas SQL Gateway (ACE)	All currently supported versions of ACE support Adabas 8 databases. Please check the individual release notes for further information on which databases features are supported
Adabas System Coordinator (COR)	The minimum supported level of Adabas System Coordinator is version 8.2 SP2. For more information, refer to <i>Using COR-based Add-ons</i> , in the <i>Adabas Release Notes</i> .
Adabas Text Retrieval (TRS)	<p>Version 2.1 SP4 works with Adabas 8.4 SP1 when the Adabas Text Retrieval 2.1 SP4 hyperdescriptor exit TRSHEx12 is enabled to run with the Version 8 interface by applying zaps TR21454 and TR21455. This hyperdescriptor exit will then only operate with Adabas Version 8. If you then want to run Adabas Text Retrieval 2.1 SP4 with an older Adabas version, you must either undo the zaps or use a copy of the hyperdescriptor exit where zaps TR21454 and TR21455 are not applied. If you do use TR21454 and TR21455, the following additional Adabas Text Retrieval fixes must be applied as prerequisite zaps: TR21420, TR21421, TR21422, TR21423 and TR21424. These zaps can be found in Empower.</p> <p>It is not necessary to use the Adabas Hyperdescriptor Exit Stub in conjunction with Adabas Text Retrieval.</p>

Product	Compatible Version Levels and Notes
Adabas Transaction Manager (ATM)	The minimum supported level of Adabas Transaction Manager is version 8.2 SP2. For more information, refer to <i>Using COR-based Add-ons</i> , in the <i>Adabas Release Notes</i> .
Adabas Vista (AVI)	The minimum supported level of Adabas Vista is version 8.2 SP2. For more information, refer to <i>Using COR-based Add-ons</i> , in the <i>Adabas Release Notes</i> .
Data Archiving for Adabas (ADR)	Data Archiving for Adabas is compatible with all supported versions of Adabas in z/OS environments.
Entire Net-Work (WCP)	Version 6.3 and above fully support Adabas 8 databases and expanded features, as well as ACBX interface direct calls.
Entire System Server (NPR)	Entire System Server Version 3.5 and later versions fully support Adabas 8 databases and expanded features.
Event Replicator for Adabas (ARK)	Version 3.5 SP4 and above support Adabas 8.4. For more information, refer to your Event Replicator for Adabas documentation.
Natural (NAT)	Version 8.2 SP7 fully supports Adabas 8.4 databases and expanded features.
Predict (PRD)	Version 8.4 SP1 fully supports Adabas 8.4 databases and expanded features.
EntireX/webMethods EntireX (EXX)	<p>All currently supported versions of EntireX support Adabas 8 databases. Please check the individual release notes for further information.</p> <p>Note: In order to work with the Adabas 8.4 SVC, certain EntireX fixes must be applied, depending on the EntireX version you are using. These are currently: EXX912L006, EXX910L015, EXX990L019 or EXX970L036. The latest product fixes are available under <i>Product Fixes</i> in the Knowledge Center in Software AG's Empower (https://empower.softwareag.com) web site.</p>

9 End of Maintenance

For information on how long a product is supported by Software AG, access Software AG's Empower web site at <https://empower.softwareag.com>.

Log into Empower. Once you have logged in, you can expand **Products** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability application. This application allows you to review support information for specific products and releases.

10 Documentation and Other Online Information

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The following online resources are available for you to obtain up-to-date information about your Software AG products:

Software AG Documentation Website

You can find documentation for all Software AG products on the Software AG Documentation website at <http://documentation.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts) or you can also use the TECHcommunity website to access the latest documentation.

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- Access articles, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Software AG Empower Product Support Website

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To submit feature/enhancement requests, get information about product availability, and download products and certified samples, select **Products & Documentation** from the menu once you are logged in.

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, select **Knowledge Center** from the menu once you are logged in.

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