



Information Engineering Technology

Technical Requirements

Release 8.7 **(Updated 11/05/2020)**

The IET Products (GuardIEn, genIE, Object List+, VerifIEr, and pathvIEw) can operate in either a client/server configuration or a remote data configuration.

- In a client/server configuration, the client software resides on the workstation or network drive and accesses the server functions operating on the encyclopaedia server.
- In a remote data configuration, the client and server logic reside on the workstation and access the databases using ODBC.
- For full GuardIEn support using the ODBC client, the GuardIEn batch processing software is required on the server platform. This requires the same pre-requisites as the GuardIEn server with the exception of the client/server communications middleware, which is not required.

Server – Windows CSE

Operating System	Windows Server 2008 or higher
CA Gen	CA Gen 6.5 client/server encyclopaedia or higher
Database	<ul style="list-style-type: none"> Oracle 11g, 12c or 18c database server Oracle 12c SQL*Net client 32bit or <ul style="list-style-type: none"> SQL Server 2008, 2012, 2014, 2016 or 2017
Client/Server Communications	The server software is a CA Gen 8.6 generated client/server application, which uses CA Gen middleware for client to server communications. Supported middleware options are: <ul style="list-style-type: none"> CA Gen 8.6 Transaction Enabler For further details consult the CA Gen Middleware documentation.
Disk Space	GuardIEn Software: 300Mb GuardIEn Database: 150Mb
Other	Visual Studio 2015 compiler required to amend the exits

Server – UNIX AIX CSE

Operating System	AIX 7.1 TL1 64bit or higher
CA Gen	<ul style="list-style-type: none"> CA Gen 6.5 client/server encyclopaedia or higher
Database	Oracle 11gr2 or 12c database server Oracle 12c SQL*Net client – 64 bit
Client/Server Communications	The server software is a CA Gen 8.6 generated client/server application, which uses CA Gen middleware for client to server communications. Supported middleware options are: <ul style="list-style-type: none"> CA Gen 8.6 Transaction Enabler For further details consult the CA Gen Middleware documentation.
Disk Space	GuardIEn Software: 350 Mb GuardIEn Database: 150 Mb
Other	XL C/C++ Enterprise Edition for AIX v12.1 (for exit changes) ICU 55.1 for AIX in LIBPATH

Server – UNIX HP-UX Integrity CSE

Operating System	HP-UX 11.31 or higher
CA Gen	<ul style="list-style-type: none"> CA Gen 8.0 client/server encyclopaedia
Database	Oracle 11g database server Oracle 12c SQL*Net client – 64 bit
Client/Server Communications	The server software is a CA Gen 8.6 generated client/server application, which uses CA Gen middleware for client to server communications. Supported middleware options are: <ul style="list-style-type: none"> CA Gen Transaction Enabler For further details consult the CA Gen Middleware documentation.
Disk Space	GuardIEn Software: 500 Mb GuardIEn Database: 150 Mb
Other	HP C/aC++ Developer's Bundle C.11.31.04.2 (for exit changes) ICU 52 for HP-UX in SHLIB_PATH

Server – HE for z/OS

Operating System	z/OS V2R2, V2R3, V2R4 IBM zEnterprise z13/z13s, z14/z14R1, z15
CA Gen	CA Gen 6.5 host encyclopaedia or higher. Note that GuardIEn 8.7 is a CA Gen 8.6 developed application so, in order to execute successfully in the chosen platform (CICS or IMS), the runtime environment will have to be upgraded to the CA Gen 8.6 level as a pre-requisite, including the communications middleware (see below).
Other Utilities	TSO/E ISPF IBM Enterprise COBOL for z/OS V4R2, V5R1, V5R2, V6R1, V6R2, V6R3 Language Runtime Environment V2R2, V2R3, V2R4 Note that GuardIEn 8.7 has been compiled using IBM Enterprise COBOL for z/OS V6R2 so you must have LE runtime support for this COBOL release also in place.
Database	DB2 V11 and V12 for z/OS Sufficient authority to create DB2 secondary authids, packages, plans, databases, tablespaces, tables, views, indexspaces, indices and perform plan and package binds
TP Monitor	CICS: IBM CICS Transaction Server V5R2, V5R3, V5R4, V5R5 CICS transaction definitions for GuardIEn server load modules IMS: IBM IMS Transaction Manager V14, V15 (but both releases require additional CA Gen 8.6 PTFs to be applied) IMS transaction definitions for GuardIEn server load modules
Client/Server Communications	The server software is a CA Gen 8.6 generated client/server application, which uses CA Gen middleware for client to server communications. Supported middleware options are: <ul style="list-style-type: none"> • LU 6.2 supplied by IBM, APPC included with z/OS • CA Gen TCP/IP Direct Connect option, CICS sockets from IBM • CA Gen TCP/IP Direct Connect option for IMS • Websphere MQ Series V8R0M0, V9R0M0, V9R1M0 <p>For further details consult the CA Gen Middleware documentation. Note that the communications middleware must be upgraded to the CA Gen 8.6 level prior to use to ensure compatibility with the GuardIEn 8.7 application and associated CA Gen 8.6 runtimes. Applications built with previous version of CA Gen will continue to function using these runtimes as CA have confirmed backwards compatibility.</p>
Disk Space	GuardIEn System Datasets: 29665 (3390) tracks comprising... GuardIEn Runtimes: 16575 (3390) tracks GuardIEn Installation: 12090 (3390) tracks GuardIEn Initial Database Load: 1000 (3390) tracks

Client

Operating System	Windows 7 or higher
CA Gen	<ul style="list-style-type: none"> • CA Gen 6.5 or higher • Plug-in requires CA Gen 6.5 SP2 or higher
Client/Server Communications	<p>The software is a CA Gen 8.6 generated client/server application that requires a licence for the CA Gen middleware for client to server communications. Supported middleware options are:</p> <ul style="list-style-type: none"> • Client Manager • TCP/IP Direct Connect • MQ Series <p>For further details consult the CA Gen Middleware documentation.</p>
Disk Space	Software: 200 Mb
Screen Resolution	Minimum 1024x768 16-bit colour Windows Appearance 'border padding' setting should be set to 0
Other	Visual Studio 2015 compiler required to amend the exits

ODBC Client

Operating System	Windows 7 or higher
CAGen	<ul style="list-style-type: none"> • CA Gen 6.5 or higher • Plug-in requires CA Gen 6.5 SP2 or higher
Disk Space	Software: 300 Mb
Screen Resolution	Minimum 1024x768 16-bit colour Windows Appearance 'border padding' setting should be set to 0
ODBC Driver	<p>An ODBC driver for the encyclopaedia database platform is required. The software has been tested with the following drivers:</p> <ul style="list-style-type: none"> • Oracle ODBC Driver (12) • Microsoft SQL Server ODBC Driver • IBM DB2 ODBC Driver (DB2 PE 8.1 or higher) <p>It is recommended that the ODBC driver version conforms to the recommended version of the DBMS as stated in the CA Gen 8.6 Technical Prerequisites</p>
Other	Visual Studio 2015 compiler required to amend the exits

For further details please see the *CA Gen 8.6 Technical Requirements*

GuardlEn 3rd Party CM Tool Interfaces

This section details the supported releases of 3rd party configuration management tools available via GuardlEn interfaces.

Configuration Management Tool	Supported Versions	HE/CSE	Vendor
ChangeMan ZMF	6.1, 7.1, 8.1, 8.2*	Both	Microfocus
CA Endeavor SCM	17.0, 18.0	Both	CA Technologies (Broadcom)
CA Harvest SCM	12.6, 13.0, 13.0	CSE	CA Technologies (Broadcom)
ISPW SCM	04.04, 17.02, 18.02	HE	Compuware

*ChangeMan 8.2 verified with Service Releases 1, 2 and 3.