



Information Engineering
Technology

Technical Requirements
Release 8.7
(Issue 2.0 – 18/2/2019)

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.

Change Summary

Date	Revision	Change
18/5/2018	1.0	GuardIEn 8.7 Launch GCA
18/2/2019	2.0	Update to compatibilities for GuardIEn 8.7 for Host Encyclopaedia (z/OS)

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 or 12c database server • Oracle 12c SQL*Net client 32bit or <ul style="list-style-type: none"> • SQL Server 2008, 2012 or 2014
Client/Server Communications	<p>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:</p> <ul style="list-style-type: none"> • CA Gen 8.6 Transaction Enabler <p>For further details consult the CA Gen Middleware documentation.</p>
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	<p>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:</p> <ul style="list-style-type: none"> • CA Gen 8.6 Transaction Enabler <p>For further details consult the CA Gen Middleware documentation.</p>
Disk Space	GuardIEn Software: 350 Mb GuardIEn Database: 150 Mb
Other	XL C/C++ Enterprise Edition for AIX v12.1

Server – HE for z/OS

Operating System	z/OS V1R13, V2R1, V2R2, V2R3 IBM zEnterprise zEC12, zBC12, z13/z13s, z14/z14R1 IBM zEnterprise 114/196 (z114/z196) Certification
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 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 Language Runtime Environment V1R13, V2R1, V2R2, V2R3 Note that GuardIEn 8.7 has been compiled using Enterprise for z/OS COBOL 6.2 so you must have LE runtime support for this COBOL release in place.
Database	DB2 V10, 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 V4R1, V4R2, V5R1, V5R2, V5R3, V5R4, V5R5 CICS transaction definitions for GuardIEn server load modules IMS: IBM IMS Transaction Manager V12, V13, V14, V15 (V14 and V15 require additional CA Gen 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 V7R0M1, V7R1M0, V8R0M0, V9R0M0 <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*