

System Requirements BIC Process Design

GBTEC Software AG

System Requirements User Workstations (*1)

Hardware Requirements User Workstations

CPU	4 CPU cores
RAM	8 GB (*2)

On user workstations with less hardware resources performance of BIC Process Design will degrade. Performance may be sufficient for limited use cases like read-only viewing.

Software Requirements User Workstations

Web Browser	Supported: Google Chrome, Microsoft Edge in the latest Version, Mozilla Firefox (latest ESR), Microsoft Internet Explorer 11 (limited functionality *3) Recommended: Google Chrome
Web Browser Settings	JavaScript und Cookies activated, at least 50 MB free memory for web databases
Printing	PDF Viewer (e.g. Adobe PDF)

(*1) BIC Process Design is a browser-based tool and there is no need of a separate client installation. Nevertheless, there are hardware requirements for the computer which runs the web browser.

(*2) The user workstation must have 64-bit operating system to be able to use all physical RAM.

(*3) Internet Explorer 11 is not supported for graphical modelling of diagram content and not supported for new UI features introduced with/after version 7.0.

System Requirements Server

Hardware Requirements BIC Process Design Server for On-Premises

Hardware for server is only required for on-premises installations. For Public Cloud and Private Cloud installations hardware is provided by GBTEC.

	Application Scenario (*4)		
	Medium	Large	X-Large
	max. 15 Authors max. 1500 Readers max. 50 Reviewers	max. 50 Authors max. 5000 Readers max. 150 Reviewers	max. 150 Authors max. 15000 Readers max. 500 Reviewers
	Server resources		
CPU (*5)	8 CPU cores	8 CPU cores	16 CPU cores
RAM (*6)	48 GB	48 GB	64 GB
Storage (*7)	120 GB	250 GB	500 GB

(*4) Please choose the columns with the scenario that matches your case of application. In the cells you will find the necessary system requirements. In case of divergent system configurations please get in touch with your GBTEC contact to clarify the compliance of the system requirements.

(*5) The recommended number of cpu cores refer to Intel Xeon processors. When using different processors, the recommended cores must be multiplied by 1.5 to 2, due to the performance of the different processor architecture.

(*6) The RAM requirements are prepared to support future enhancements. If scalable hardware virtualization is available, 32 GB will initially be sufficient for a basic BIC Process Design setup.

(*7) We suggest local hard disc systems based on SAS disks with 15.000rpm and 6 Gbps interface. Minimal requirement is SATA or Nearline SAS hard discs with 6 Gbps. When using a Storage Area Network (SAN) 160 MB/s transfer rate and 5ms access time are the minimum requirement.

Software Requirements BIC Process Design Server

Software for server is only required for on-premises installations. For Public Cloud and Private Cloud installations software is provided by GBTEC.

Operating System (*8, *9)	Ubuntu 16.04 or 18.04 (LTS) 64-bit version (*8) Red Hat Enterprise Linux 7.6 64-bit version (*8) SUSE Linux Enterprise 12SP3 64-bit version (*8) Windows Server 2012 R2 64 bit, Windows Server 2016 (*8, *10)
Software Packages	Docker Engine (at least version 18.09.2) (*6), Docker Compose (at least version 1.12.2) (see https://docs.docker.com/engine/installation) For Windows Server: Hyper-V server role activated and Docker Machine (Version 0.10.0)
Internet Connection	For installation, software updates, patches and transfer of log files for problem diagnosis an internet connection is required. Internet connections through proxy servers are supported. For security reasons, it is possible to restrict internet access to defined servers or allow internet connections only temporarily.
Backup & Recovery	For rapid restore in case of hardware failure we recommend snapshots of the (virtual) hard disks. For long term data backup BIC Process Design automatically exports data daily to a file system folder. This folder has to be archived daily by your IT department. In case of restore the backup data has to be restored in this file system folder and will be loaded with a special administrative command.
Single Sign On	Integration of a Private BIC Process Design with ActiveDirectory and Single Sign On requires ActiveDirectory Federation Services 2.0 or higher with SAML 2.0 activated. On-premises integration is supporting SAML 2.0 or Kerberos/LDAP protocol. Integration will require additional services for implementation, configuration and coordination with customer's IT department, offered for an annual fee.

(*8) Docker Engine is available as "Community Edition" free of charge or as "Enterprise Edition" subscription with extended features and support. For availability of editions for your preferred operating system and pricing see: <https://docs.docker.com/engine/installation/#supported-platforms>

(*9) In case of requirements to use other OS versions or distributions contact GBTEC for known incompatibilities and limitations.

(*10) Linux is the recommended server operating system for BIC Process Design. On Windows Server operating systems, Docker Engine runs on Hyper-V virtualization. This may require increased processing power in terms of cpu clock speed or number of CPU cores.