# Belarc Product Descriptions

Overview

Belarc's data collection architecture is based on a single enterprise-wide server and database. There is no requirement to maintain local servers or scanners. Belarc's discovery clients are either permanently installed or run by network scan, and do not interact with the user or applications.

Reports are viewed, and data analysed, from any workstations with the credentials to connect to the appropriate BelManage server using standard web protocols.

BelManage System Architecture
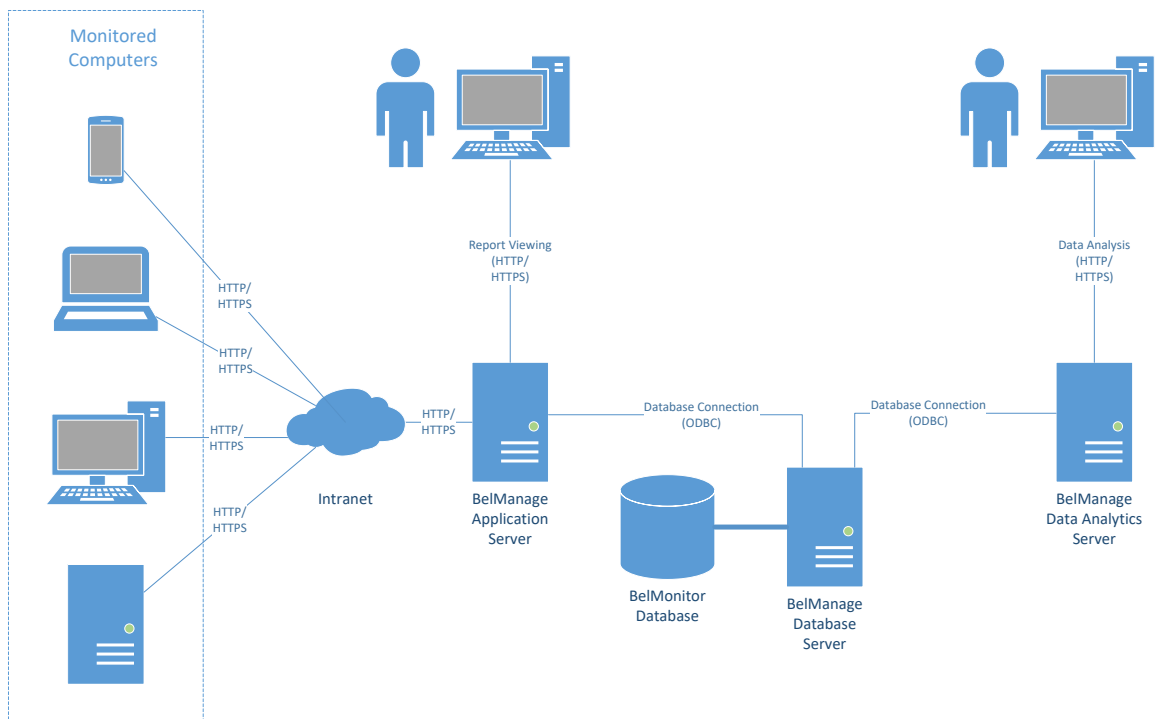
Belarc Confidential and Proprietary Information

BelManage Base

BelManage Base system includes the BelManage server software and the number of clients licensed by the Licensee. The server software is installed on the Licensee's Windows server, either on premises or cloud, or can be hosted by Belarc via SaaS. The BelManage clients are installed using Belarc's automated system, or with Group Policy Objects, or by any software deployment system such as SCCM, Tivoli, and others. The BelManage clients run as a service and are usually dormant. On a controlled schedule, typically once per day, the clients create a profile of the computer (~ 10-15 secs.) and send the resulting profile (~ 40 KB) to the Licensee's BelManage server. Clients communicate using standard HTTP on port 80. Support for HTTPS, using port 443, is included as an option, but requires an SSL certificate. Clients identify all devices on their local network and include that information in the data sent to the BelManage server. The BelManage server automatically creates a SQL database and Web reports which are accessed by HQ and local administrators. Reports are grouped by IP subnet, Active Directory OU, or other criteria.

BelManage Base features include the following:

- Configuration tracking with detailed software and hardware reports. Quickly determine costs to upgrade to newer versions of Windows.
- Software License Compliance reports to easily see the number of licenses installed, and any overages that may exist.
- Software Version Compliance reports identify all computers running software that does not match your approved version list.
- Software Usage shows when each application was last used on each of your computers. This feature helps optimize your software licensing process by showing you which licenses are underused.
- Software Search lets you search for systems that have selected software installed. Searches can be made to show systems where the software hasn't been used recently. Underused licenses can then be transferred or uninstalled to reduce your true-up costs.
- Automated, daily vulnerability assessment, including all Microsoft OS and Office vulnerabilities, anti-virus status, user account status, and more.
- Audit data is organized into groups and sub groups. Group membership can be defined in many ways, with IP address range or Active Directory OU being the most commonly used. Users can be given restricted access to particular groups or sub groups, allowing all parts of an organization to use the audit data in an appropriate and controlled fashion.
- Vulnerability assessments including Microsoft application and OS Updates, Anti-Virus status, and more.
- USB storage use reports captures all use of these devices across your computers. Reports include make, model and serial number of device. Detailed reports allow you to see which computers have connected which USB storage devices.
- Network Discovery reports all computers, printers, routers, and other devices on your networks. Includes special reports that show computers without a BelManage profile, and network printer details such as make, model, and serial number.
- Group Policy and OU Details reports the Active Directory Group Policies applied to each computer along with revision numbers. This lets you verify that group policies are fully deploying to your computers. Reports also include the Organizational Unit that each computer is assigned to in your active directory.
- User account search looks at all users, across all computers and domains. Search criteria like password age, or last logon date, make it easy to improve your user account security.

- Virtual machine dependency mapping provides key configuration data about all of your virtual machines, and allows you to view VM's by host.
- OS update agent shows the status of Windows update clients, so that you can verify correct configuration and operation.
- Laptop Encryption shows laptop drive and volume encryption status, highlighting suspended encryption, no encryption or partial encryption.
- Application Bitness reports provide additional information about 16 bit, 32 bit or 64 bit software. A separate report shows software that will not run under 64 bit Windows, and software search can be configured by application bitness.
- Monitoring of important parameters such as free disk space, hard drive S.M.A.R.T. status, network activity, CPU utilization, reboots and more.
- Open architecture allows easy integration with helpdesks and other applications.
- Management of purchase records. Software purchases can be viewed, added, modified and uploaded from spreadsheets.

Enterprise Architecture (EA) and IT best practice processes such as those from the IT Infrastructure Library (ITIL) have demonstrated the benefits of an accurate, automated and up-to-date central repository describing of all of the enterprise's IT assets and their configurations. This repository, called a Configuration Management Database (CMDB), is automatically created by BelManage.

Deployment
BelManage can be deployed on-premises, on our customer's cloud service (AWS, Azure, Google) or via Belarc's hosed SaaS (AWS).

Pricing
Pricing is per monitored machine, whether virtual or physical. The BelManage Base package is priced on Bitness an annual subscription basis. Details are here: https://www.belarc.com/products_belmanage#pricing

Product Requirements
The BelManage Server can be installed on Windows Server 2019, 2016, 2012 (and R2), 2008 R2, 2008 (64-bit or 32-bit) or Windows Server 2003 (32-bit). The BelManage Clients run on Windows 10, Windows Server 2019, 2016, Windows Server 2012, Windows 8.1, Windows 8, Windows Server 2008, Windows 7, Vista, 2003, XP, 2000, NT 4, Me, 98, 95, Linux, VMWare ESX, Android version 4 or higher, Macintosh OS X and Solaris. BelManage offers both installable and agent-less solutions.

Disk Space needed – 300 MB plus 1 MB per monitored computer.

Database: MS SQL Server Express Edition (included); MS SQL Server 2019, 2016, 2014, 2012, 2008 R2, 2008 or 2005 (customer supplied option, no cost for interface module) or Oracle 12c, 11g or 10g (customer supplied option, additional cost for interface module).

MS SQL Server Express can only be used on BelManage systems with less than 3,000 computers.

Change History Module

Change History shows all of the software and hardware adds and removes. The Change History module is available as an added-cost option. It also provides information about other configuration changes, like the addition or removal of local accounts and first use of domain accounts. The following reports are available:

Hardware Changes

This report shows the detailed hardware adds and removes on all of your computers on a daily basis over the past 30 days. For example:

Wednesday, Oct 11, 2014				
3am	ajones	Removed	Hard Drive	WDC WD102BA, Rev 16.13M16, Physical Drive: 1, Serial Number: WD-WM9470148079
3am	ajones	Removed	Memory Module	256 MB in slot DIMM_B
3am	sfong	Added	Device	Compaq 56K (V.90) PCI Modem

Software Changes

This report shows the detailed software adds and removes on all of your computers on a daily basis over the past 30 days. For example:

Wednesday, Oct 11, 2014				
3am	bhoward	Added	Software	KaZaA - KaZaA Media Desktop (KaZaA Media Desktop) Version 1, 6, 1, 0
3am	kmiller	Added	Hotfix	Id: WM320920, Description: Windows Media Player Rollup Available, Status: Pass
3am	rsmith	Removed	Software	Netscape - NETSCAPE (Netscape Navigator application file) Version 4.76
3am	rsmith	Added	Software	Mozilla, Netscape - Netscape (Netscape) Version 7.0.2

Changes by System

This report allows you to click on a system name and view all of the software and hardware adds and removes made to that computer since BelManage began monitoring it.

Pricing

Pricing is per monitored machine, whether virtual or physical. The Change History Module is priced on an annual subscription basis. Details are here: https://www.belarc.com/products_belmanage#pricing

Product Requirements

BelManage Base.

BelSecure Module

BelSecure automatically performs a vulnerability assessment of your IT systems, checks security policies, configuration settings, and discovers other information about the host such as anti-virus status, application versions, security patches, user accounts and more. The policy settings are automatically compared with USGCB (US Government Configuration Benchmarks), formerly called the FDCC. These benchmarks allow IT managers to automatically determine the security status of their IT assets in advance of an attack.

Many current threats are not stopped by perimeter security systems such as firewall and anti-virus systems. Setting and monitoring configurations based on consensus benchmarks is a critical step because this is a pro-active way to avoid many successful attacks. The U.S. National Security Agency has found that configuring computers with proper security settings blocks over 90% of the existing threats. (IA Newsletters "Security Benchmarks: A Gold Standard.")

BelSecure features include the following:

- Automated, daily vulnerability assessment, including all Microsoft OS and Office vulnerabilities, anti-virus status, user account status, and more.

- Web portal architecture. Private cloud based operation. Single server and database.

- Automatic comparison with appropriate benchmarks from Microsoft Security Compliance Manager for desktops and servers, such as Microsoft Windows 8 Domain Security. For older systems we provide US Government Configuration Baseline (USGCB) benchmarks - for Windows 7, Windows Vista and XP, IE7, IE8 and Windows Firewall.

- Helps automate security processes such as FISMA, HIPAA and FFIEC.

- Certified to work with Cisco's NAC (Network Admission Control) system.

Pricing
Pricing is per monitored machine, whether virtual or physical. The BelSecure Module is priced based on an annual subscription.

Product Requirements
BelManage Base.

Advanced Client for Servers (ACS)

The ACS provides an enhanced discovery agent of particular value for virtual and physical servers. This agent behaves in the same way as the normal discovery agent, which is described above in the "Basic BelManage" section. Upgrading the normal discovery agent to ACS is automated by your BelManage server, and does not require rolling out additional software.

The ACS module reports detailed data relating to high value server software, such as Oracle, Microsoft SQL Server and IBM Product Editions. This data can be viewed in a number of additional reports available through the BelManage server. This data can also be used with the BelAnalytics module to allow review of the deployment and usage of high value server software, and to ensure that products have been licensed appropriately.

ACS module features include the following:

- Full discovery of MS SQL server deployments, including factors that affect licensing, such as edition, version, processors and cores used.

- Full discovery of all installed Oracle databases, options and packs, including factors that affect licensing, such as edition, processors and cores, and option and pack usage.

- Complete mapping between virtual and physical machines

Pricing
Pricing is per monitored machine, whether virtual or physical. The Advanced Client for Servers is priced on an annual subscription basis. Details are here:
https://www.belarc.com/products_belmanage#pricing

Product Requirements
BelManage Base.

Mixing the two discovery agent types
When adding additional licenses to existing BelManage packages, customers can add both normal and ACS clients. For instance, if a customer wishes to extend BelManage to cover a division which contains 50 servers and 500 desktops, he may choose either –

- a simple purchase of 550 additional licenses, when there is no desire for the ACS features
- a purchase of 500 standard licences, plus 50 ACS licenses for the servers

Note 1. The standard BelManage Basic package and Small Network Package contain the regular BelManage discovery clients. Customers can add ACS clients to these packages, but cannot replace the basic contents of the package.

Note 2. The Small Network Package bundles the Change History module. When adding ACS licenses to the Small Network Package, a Change History license must be included for each ACS license.

BelManage Auditor

The BelManage Auditor is a product designed expressly for companies wishing to perform infrequent audits or one time audits of their computers. It offers features that make it particularly appropriate for service providers or systems integrators who want to offer a simple auditing service to their customers. Audits can be performed quickly and efficiently without having to visit every single desktop. The BelManage product Auditor offers a complete discovery of hardware, software and current hotfix information. The BelManage Auditor offers all of the features of BelManage for a limited period.

Deployment and Use
The BelManage Auditor Server provides a variety of reports on your computer assets. Information is collected by running the Auditor program on each of your computers. This information is then uploaded to the Auditor Server, where it is compiled into a database.

The Auditor program is stored and run from an exchangeable disk, or from a networked drive. It is most commonly used from a portable USB stick, or by bringing a laptop with the Auditor software to the customer's location. This latter option allows you to conduct audits and produce reports without any data leaving your customer's location. When the program is run, the inventory information (the "profile") is automatically stored in the same folder as the program itself. The program is very small, and the resulting profiles average less than 30 KB per computer. So, even for a customer with a large number of computers, it would be quite practical to visit them armed with a single USB drive, audit all of their systems and then return to your office to upload the data to your BelManage server. Using Belarc's automated system, it is possible to simply mount the Auditor program on a networked disk and audit all of the PCs on the LAN without physically visiting each PC.

For service providers, the information collected from different customers can be stored in separate groups on the BelManage server. This means that a single BelManage Auditor system can be used to record data from many different customers systems and to produce the appropriate reports for each of those customers. Reports can be customized with your own branding.

Term
The BelManage Auditor basic package is a 3 month term license.

Pricing
Detailed pricing is available from your Belarc representative.

Product Requirements
As for BelManage Base.

BelAnalytics Module

Belarc's BelAnalytics Module enables you to reconcile your installed software with your entitlements, identifying where you are out of compliance, licenses that can be reassigned or retired, and where maintenance costs can be reduced.

BelAnalytics also enables flexible analysis of your BelManage data.

The discovery of your installed software includes finding and identifying software products, the editions and versions of the software products, the processors and cores of their host computer, dependency mapping of all virtual machines to their physical hosts, and when and by whom the software was last used. BelAnalytics gives you unparalleled visibility into your IT assets. Discovery is completely automated.

You can enter your software entitlements (also known as purchase records) into BelAnalytics in several ways, either by import from Excel spreadsheets, direct reading from your procurement system, or manually through a web form. Entitlements to perpetual licenses, term licenses, maintenance, and subscriptions are all supported. Supporting documentation, such as PO numbers, dates of purchase, periods of performance, references to contracts, and responsible parties can be included. You can use BelAnalytics to manage maintenance renewals, as well as keep a history of your maintenance purchases.

Reconciliation of installed software with entitlements includes linking installed software products to their purchase records, choosing license options (where applicable), and applying the appropriate licensing rules (also known as product use rights) in order to compute the number of licenses required.

Reconciliation is completely automated (including built-in license rules and reporting), except where you intervene to override the built-in behaviour, such as specifying downgrades; or adding supplementary data in order to better identify a product.

Reconciliation reports to you all of your installed and purchased software products, the amount of under- or over-licensing of each product, the amount of under-use of each product, the license options and rules used, and the relevant discovery data. You can drill down to particular software installations and computers in order to verify any result. Summaries are available for management.

BelAnalytics can reconcile most cloud and desktop software, Windows server editions, SQL Server, Oracle database, many IBM server products, and ESRI. Supported cloud and desktop software license types include per-device, per-user, and floating (concurrent).

Pricing

BelAnalytics is priced on an annual subscription basis. Details are here: https://www.belarc.com/products_BelAnalytics

Product Requirements:

- BelManage Base

- Operating systems: Single User workstation - Windows 10, Windows 8, Windows 8.1. Server version - Windows Server 2008/R2, Windows Server 2012, 2016, 2019.
- Memory in GB: number of BelManage profiles/10,000.
- ACS (Advanced Clients for Server) is required for Server Licensing Reports.

PKI Authentication Module

The PKI Authentication Module allows authentication of BelManage users with PKI (Public Key Infrastructure) certificates presented by their web browsers, or CAC authentication. PKI certificate authentication is handled by both BelManage and the IIS web server working together. The web server accepts, authenticates, and associates the certificate with a web session. BelManage associates the certificate attributes with an account and assigns the security rights of that account to the web session.

Deployment and Use
Once installed, the system can be configured to authenticate in any of these three ways:
 1) Ignore PKI certificates, and continue to authenticate users by logon name and password as the base product does; or
 2) Collect and store PKI certificates, while continuing to authenticate users by logon name and password; or
 3) Authenticate users with the PKI certificate presented by their browser. This configuration prohibits logon by user name and password.

After running the installer, BelManage is configured to collect and store certificates (#2 above). Users can logon to BelManage with user name and password, and any certificate presented by their browser is associated with that account. The Users Administration page can then be used to view or edit the certificate associated with each user account.

Once the system has had adequate time to collect most or all of the users' certificates, the configuration is changed to authenticate users with the certificate (#3 above). Users are no longer permitted to authenticate with a user name and password, and the system automatically logs users on when a certificate is presented. Entry of certificates is now done through the Users Administration web page, and automatic collection of certificates is disabled.

The certificate for a user may be obtained through an enterprise directory or a certificate file with the public key.

Product Requirements
BelManage system.

BelManage Cloud – SaaS offering

BelManage Cloud is a hosted service offering from Belarc. Belarc operates a dedicated virtual server for each BelManage Cloud customer. The BelManage Cloud includes BelManage and Change History, and also offers the Advanced Client for Servers. Belarc will maintain the server and software, and all supporting software (such as the database used by BelManage). Belarc will assist in any configuration needed to connect to the customer's network, for instance, if a VPN connection is required.

The customer has full control over the use of the product, and full access to all administrative features of BelManage. The BelManage Cloud includes full access to Belarc support.

Belarc currently uses Amazon Web Services to provide virtual servers. Customers can choose the geographic location of the hosting service for their Belarc Cloud.

Our SaaS offering is available in two versions. Our standard SaaS service provides the full features of the BelManage system. The enhanced service adds both the Change History and BelSecure modules to your SaaS service.

Pricing

BelManage SaaS is priced on an annual subscription basis. Details are here: https://www.belarc.com/products_belmanage#pricing

Product Requirements
As for BelManage clients only.

BelAnalytics – SaaS offering

BelAnalytics SaaS is a hosted service offering from Belarc, based on the BelAnalytics Module from above. The BelAnalytics module can be purchased for a single named user, or for five named users. Belarc will assist in any configuration needed to connect to the customer's network, for instance, if a VPN connection is required.

Belarc currently uses Amazon Web Services to provide virtual servers. Customers can choose the geographic location of the hosting service for their Belarc Cloud.

Product Requirements:

- BelManage Base, either on premise or SaaS
- Operating systems: Single User workstation - Windows 7, Windows 8, Windows 8.1, Windows 10. Server version - Windows Server 2008/R2, Windows Server 2012, Windows Server 2016, 2019.
- Advanced Clients for Server (ACS) are required for Server Licensing Reports.

Maintenance

Belarc's Maintenance includes both product support and software updates. Maintenance is included with all Belarc's subscription and SaaS licenses.

Details are as follows:

- Phone support during regular office hours (8:00 AM to 6:00 PM EST)
- Email support 7x24
- Support includes:
    - Explanations of proper installation and operation of the product
    - Product capabilities
    - Data captured and the supplied reports
    - General advice as to how to best make use of the product
    - Help in resolving operational problems of the product
    - Access to past and current training materials
    - Automated product information and support e-mailings
    - Access to Web seminars and training sessions.
- Support is provided by knowledgeable technical personnel
- Software Updates include:
    - All in-version software releases for the product(s) licensed.
    - Updated Microsoft security vulnerability definitions.
- Maintenance coverage shall be continuous; each Maintenance coverage period shall start at the previous expiration date, and cover both the period from expiration to the present (if any) and the period from the present to the end of the new period. Maintenance periods shall be 12 months or longer.

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