



CERTIFIED DATA ERASURE

BLANCCO MANAGEMENT CONSOLE

User Manual for version 3.3.2

DEFINITIONS

ITEM	EXPLANATION
FTP	File Transfer Protocol is a standard network protocol used to copy a file from one host to another over a TCP/IP-based network.
HASP	The HASP product line is a digital rights management (DRM) suite of protection and licensing software. Blancco Management Console uses a USB HASP-key for digital rights management. It is referred in this manual as "License container".
HTML	HTML, which stands for Hyper Text Markup Language, is the predominant markup language for web pages. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists as well as for links, quotes, and other items.
JRE	Java Runtime Environment (JRE) is an application that has all the modules to execute applications that use Java.
Legacy clients	Legacy clients are Blancco's older line of products. The most well-known products are Blancco PC Edition, Blancco Server Edition and Blancco Data Centre Edition.
BMC	Abbreviation of Blancco Management Console.
PXE	Preboot eXecution Environment is an environment for booting computers using a network interface.
SMTP	Simple Mail Transfer Protocol is an Internet standard for electronic mail (email) transmission across Internet Protocol (IP) networks.
TFTP	Trivial File Transfer Protocol (TFTP) is a file transfer protocol known for its simplicity. Compared to FTP, TFTP is extremely limited, providing no authentication, and is rarely used interactively by a user.
WDS	Windows Deployment Services is a technology from Microsoft for network-based installation of Windows operating systems. It is also used in order to deploy Blancco erasure software over the network.

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1. BLANCCO MANAGEMENT CONSOLE REQUIREMENTS

1.1. Smaller operations, demo and test purposes

Component	Minimum	Recommended
CPU	Dual Core processor	Dual Core processor
Memory (RAM)	2-4GB	4GB+
Database	Embedded database*	Microsoft SQL Server Express Edition, MySQL, PostgreSQL
PXE booting	Embedded PXE boot	Microsoft WDS, Linux PXE booting

* Embedded database:

- Maximum 5000 reports (embedded database has a record limitation of 5,000 and the environment's stability cannot be assured over this limit)
- If the limit is reached or is going to be reached, then the database needs to be changed to a more professional supported database software (Microsoft SQL Server, MySQL, PostgreSQL)

1.2. Larger operations

Component	Minimum	Recommended
CPU	Quad Core processor	2x Quad Core processor (with Hyper-Threading)
Memory (RAM)	8GB	12GB+
Database	Microsoft SQL Server Express Edition (or better), MySQL, PostgreSQL	Microsoft SQL Server Standard Edition (or better)
PXE booting	Microsoft WDS, Linux PXE booting	Microsoft WDS, Linux PXE booting

Note! Separate servers are recommended for running the BMC and the database. Two high performance servers should be used.

1.3. Software/Service requirements

It is important to understand that these services may already exist in your network and can be used by this software. Please check that there are not any conflicts between any existing service and the settings recommended by Blancco.

- Windows or Linux operating system (32 or 64 bit).
 - Debian or Redhat based Linux distributions are recommended.
 - For Windows-based operating systems, a Windows Server-based system is necessary for network booting.
- **Administrator rights (root access) to the system.**
- Latest operating system updates are installed.
- Make sure that the HASP-key IS NOT inserted when installing the HASP-key drivers.
- Download and install the latest version of the Java Runtime Environment (JRE) platform in the machine where the Blancco Management Console will be running.
 - Version 6 or newer is required.
- DHCP/DNS (Dynamic Host Configuration Protocol/Domain Name System-Server) service should be available with active scope for leasing IP's to the network where erasures are performed (network booting).
 - DHCP is required, but DNS is optional.
 - For DHCP, a Linux or Windows Server-based operating system is mandatory, as non-server Windows operating systems do not have DHCP-service available to them.
- For browser usage, Blancco recommends Mozilla Firefox (latest version).
- Make sure that firewalls will allow inbound network traffic to the port you define during the installation (as a default, Blancco Management Console will set ports 8443 (https) and 8080 (http)).
 - External services like DHCP and PXE boot services may require additional firewall configuring.
- An empty database, with a user who has owner rights or similar (read-, write-, delete- and create rights) to the tables. Tables are automatically created by the BMC.
 - This requirement doesn't concern the embedded database as it is created and used by the BMC.
 - Database must have COLLATION and ENCODING set to UTF-8.

2. INSTALLATION & CONFIGURATION

2.1. System preparation

- a. Make sure Java is installed on your machine by going to the webpage

<http://www.java.com/en/download/testjava.jsp>

If it is installed, you should have an image like:



- b. If Java is not installed on your machine, download and install the latest Java Runtime Environment (JRE).

- o You can download it from <http://www.java.com/en/download/manual.jsp>
- o Install Java on your machine, then restart the machine.

Note! For a 64 bits operating system, please install the 64 bit version of Java (Windows Offline (64-bit)).

- c. If you encounter problems with JAVA even after installing the latest version, please follow the instructions in the "[Configuring JAVA options](#)" section of the Appendix.

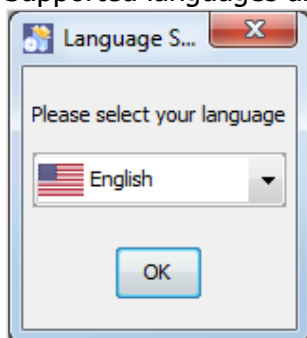
2.2. Installation

- a. Double click the [installation file name].jar installation package provided by Blancco to start the installation wizard. Make sure you run the installation package with administrator rights.

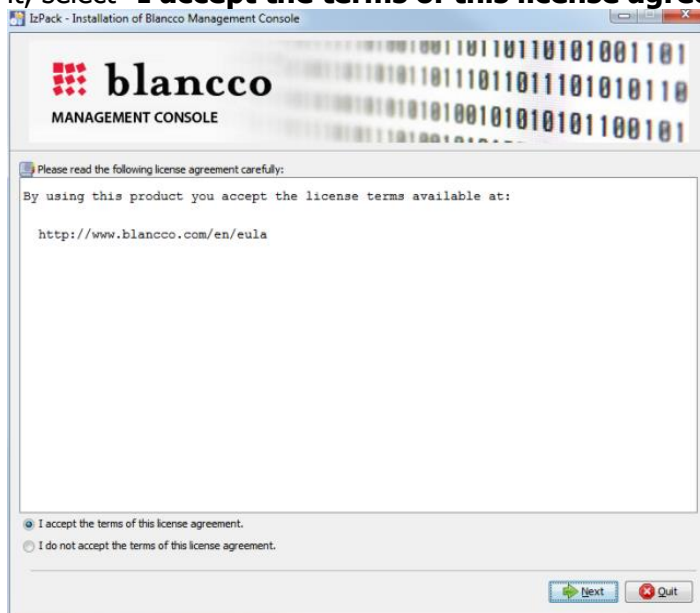
- o Installation can also be executed via the command line with the following command:

```
java -jar <install package name>.jar
```

- b. Select the installation language. The language can be selected from the dropdown-menu. Supported languages are English (US), French, German, Japanese, Russian and Spanish.

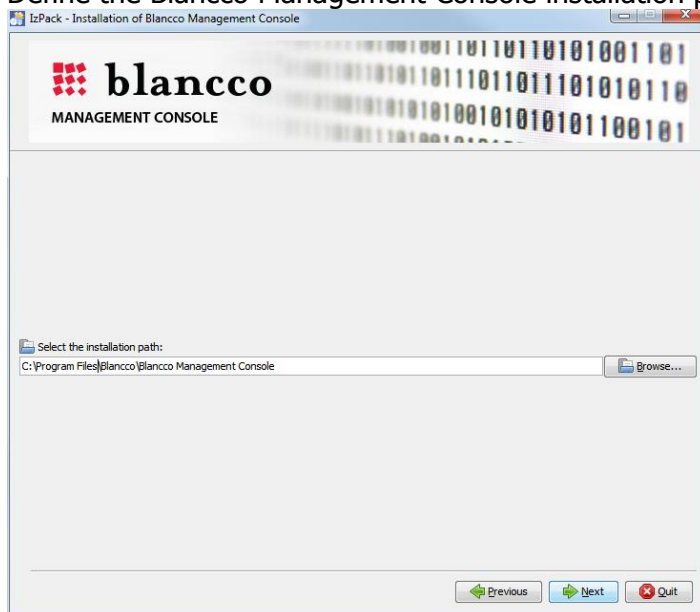


- c. Read the License Agreement (visit <http://www.blancco.com/en/eula>) and if you approve of it, select **"I accept the terms of this license agreement."** and click **"Next"**.

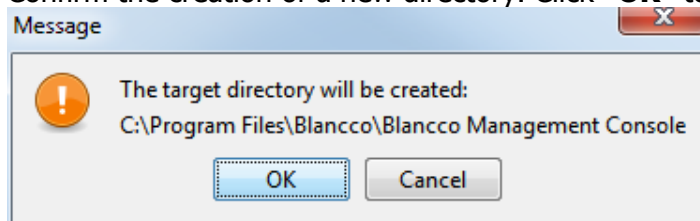


2.2.1. First Time Installation

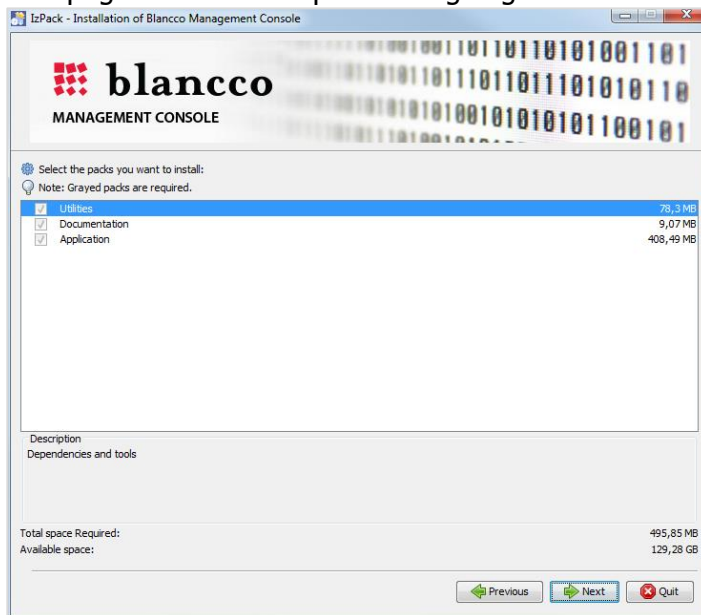
- a. Define the Blancco Management Console installation path. Click **"Next"** to continue.



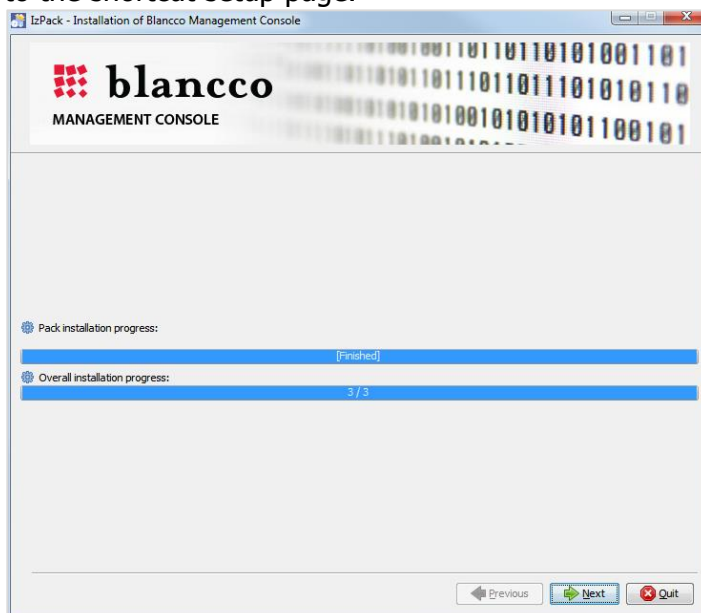
- b. Confirm the creation of a new directory. Click **"OK"** to continue.



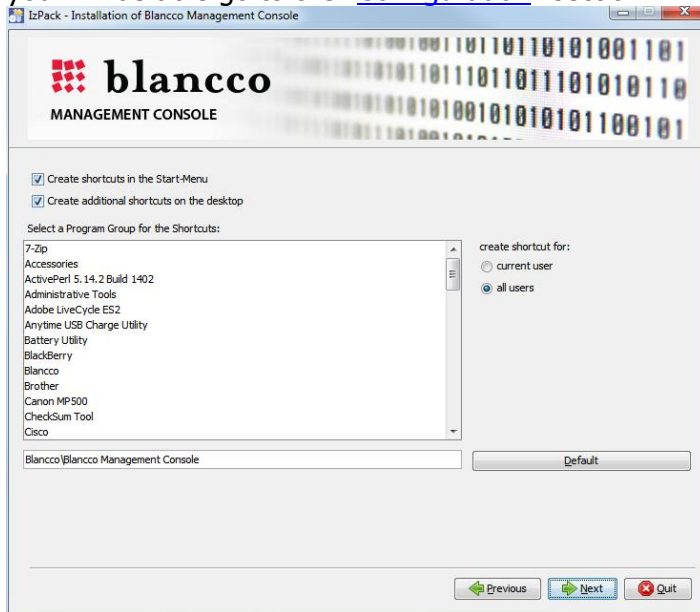
- c. This page shows which packs are going to be installed. Click **"Next"** to continue.



- d. Installation of the files and drivers for BMC has been completed. Click **"Next"** to continue to the shortcut setup page.

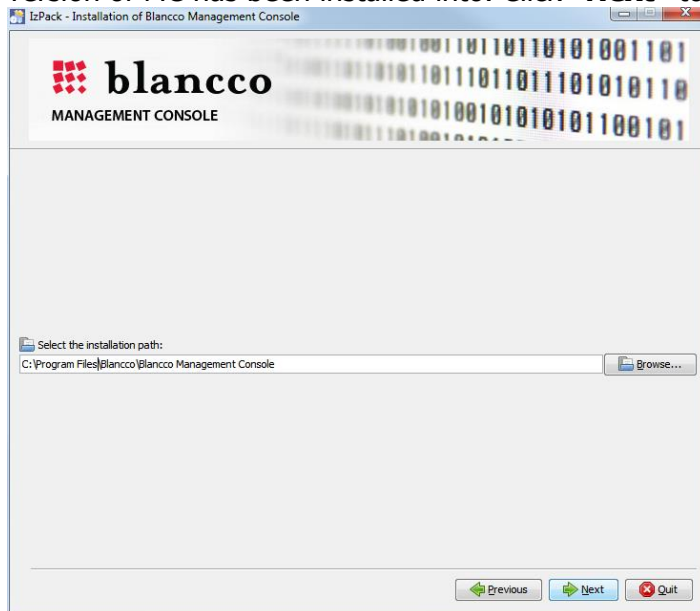


- e. Select the shortcuts to be created. Click **"Next"** to start the configuration process. Now you will be able go to the ["Configuration"](#) section.

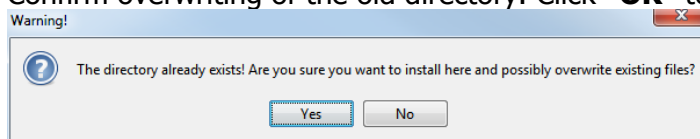


2.2.2. Update

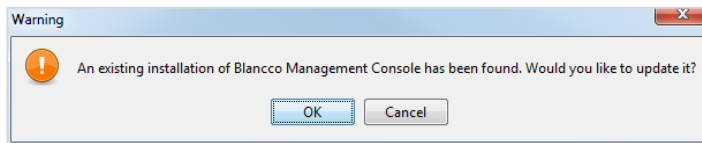
- a. Make sure that the **database used for reports has a backup**.
- It is also recommended to make a backup of the MC installation folder.
- b. Define the Blancco Management Console installation path. The installation path cannot be automatically detected. Therefore, the user must select the folder where the previous version of MC has been installed into. Click **"Next"** to continue.



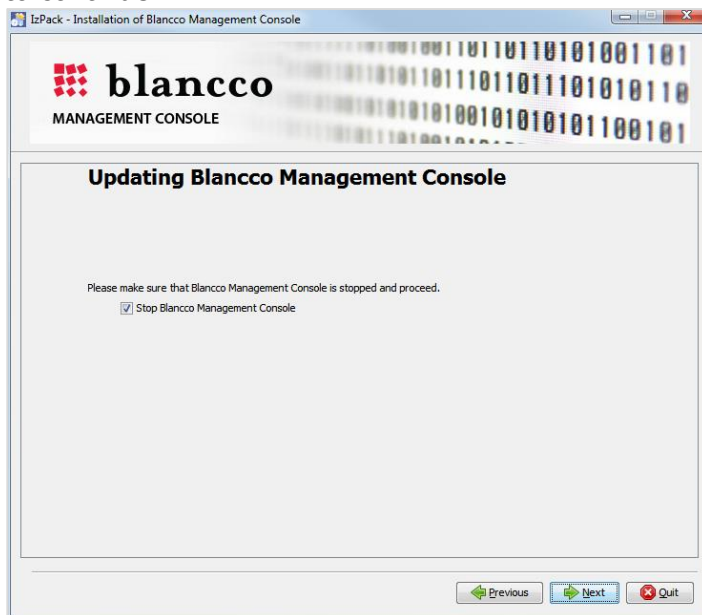
- c. Confirm overwriting of the old directory. Click **"OK"** to continue.



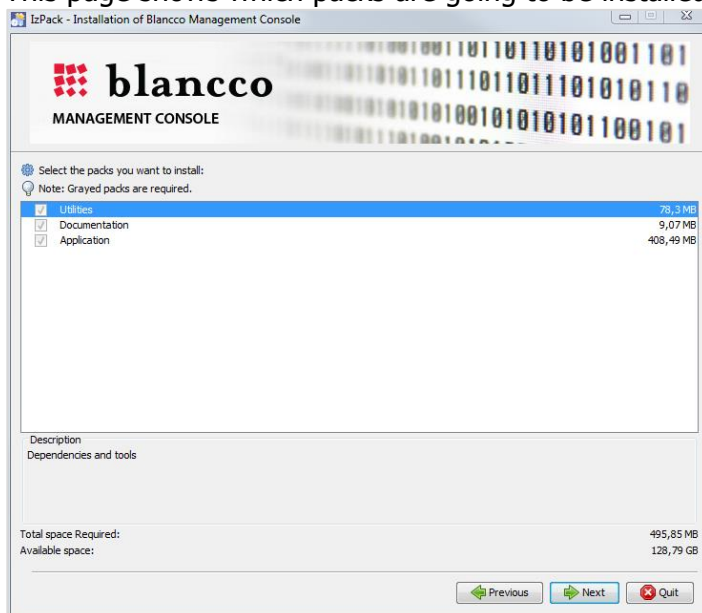
The following dialog will be shown if a previous version of the BMC has been found and can be updated. Click **"OK"** to continue. If you encounter problems here, please refer to the ["Troubleshooting"](#) section of this manual for updates on any related issues.



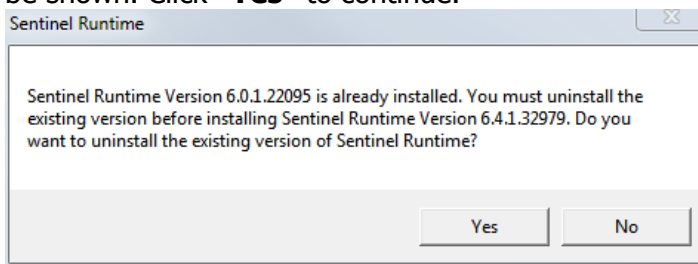
- d. Make sure that Blancco Management Console-service has stopped. Checking the checkbox **"Stop Blancco Management Console"** will stop the service if it is running. Click **"Next"** to continue.



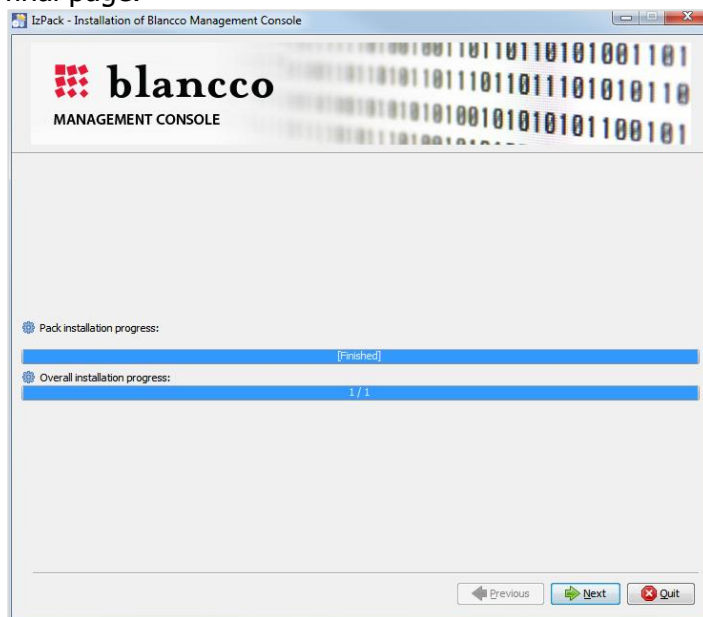
- e. This page shows which packs are going to be installed. Click **"Next"** to continue.



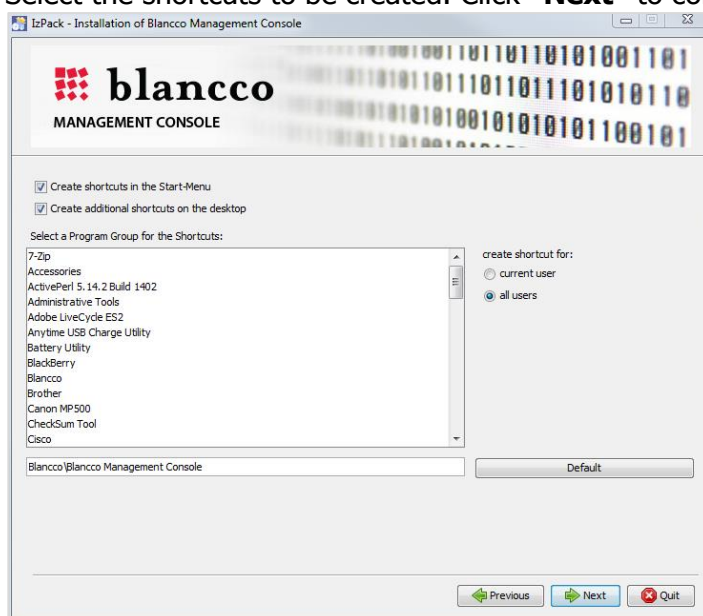
- f. During the update process, the HASP key driver will be updated. The following dialog will be shown. Click **"Yes"** to continue.



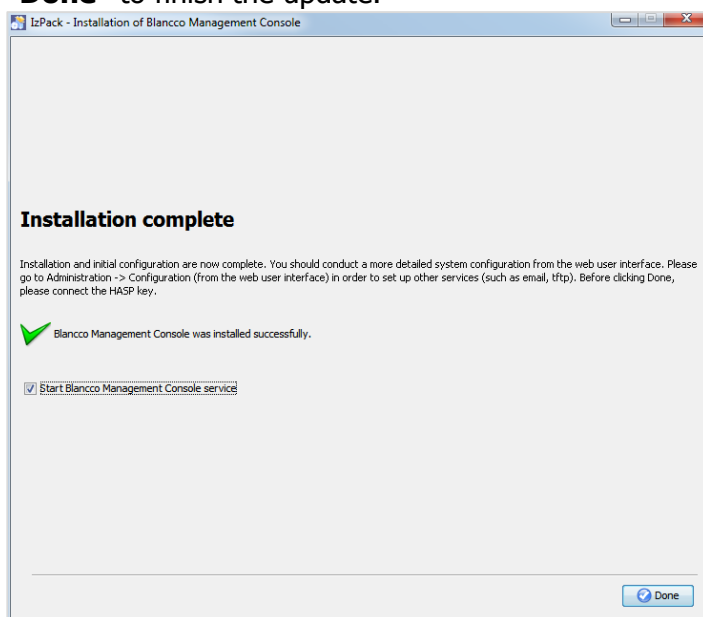
- g. Updating of the files and drivers for BMC is now complete. Click **"Next"** to continue to the final page.



- h. Select the shortcuts to be created. Click **"Next"** to continue to the final page.



- i. The update is now complete. The checkbox **"Start Blancco Management Console service"** will be checked as a default and BMC service will automatically start. Click **"Done"** to finish the update.



Note When updating to version 3.2.0 of the BMC, your selection of widgets in the Home tab will be reset.

2.3. Configuration

2.3.1. Port Selection

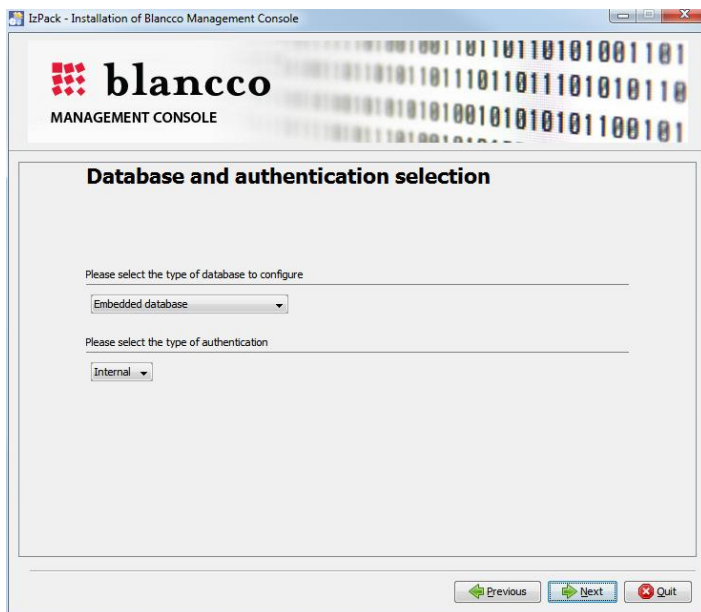
Fill in the HTTP (default value is 8080) and HTTPS ports (default value is 8443) as both are required. Click **"Next"** to continue. If there is a need to change these ports afterwards, stop the Blanco Management Console service and modify the **"server.xml"** file (available in **[Installation folder]\apache-tomcat\conf**). Detailed instructions can be found from the ["Changing the communication ports"](#) section of the Appendix.

The screenshot shows the 'Web server configuration' window of the 'IzPack - Installation of Blanco Management Console'. The window has a header with the Blanco logo and 'MANAGEMENT CONSOLE'. Below the header, the title 'Web server configuration' is displayed. The main content area contains the text 'Please enter the ports for the web server' followed by two input fields: 'HTTP port *' with the value '8080' and 'HTTPS port *' with the value '8443'. Below these fields, a note states: 'Blanco Management Console includes a self-signed certificate for HTTPS communication. To change the certificate, follow the instructions shown in the user manual.' At the bottom left, there is a legend: '[*] Mandatory fields'. At the bottom right, there are three buttons: 'Previous', 'Next', and 'Quit'.

2.3.2. Database & Authentication Selection

Select the database and the type of authentication used. Click **"Next"** to continue.

Note! An empty database must be created before proceeding to this stage. Please read the user manual of the selected database for any information regarding database creation. Only with "embedded database", will database creation be automatically handled by BMC.



a. Supported databases are:

- Embedded database
- Microsoft SQL Server 2008 (or newer)
- MySQL 5.x (or newer)
- PostgreSQL 8.x (or newer)

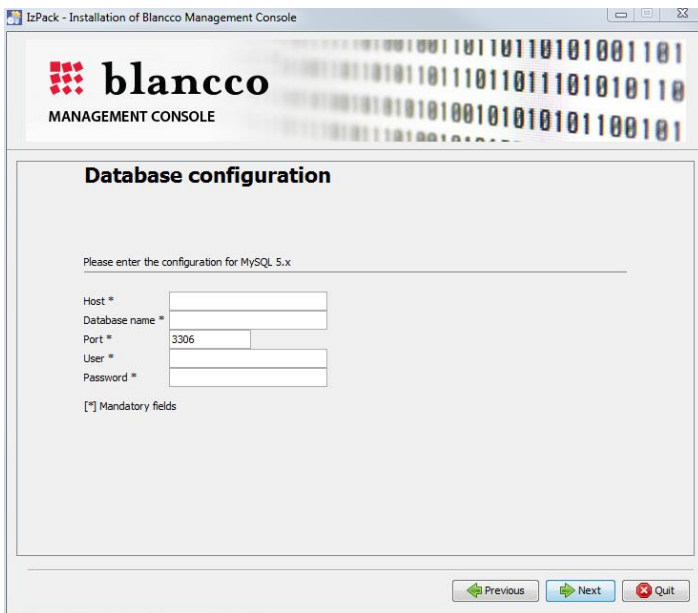
WARNING! The embedded database is best suited for demo and smaller operational environments. WE DO NOT RECOMMEND THIS DATABASE FOR MEDIUM TO LARGE PRODUCTION ENVIRONMENTS.

b. Supported authentication types are:

- Internal authentication (managed from the database)
- External authentication (managed externally, requires LDAP)

2.3.3. Database Configuration

Fill in the database information and click **"Next"**. Every field is mandatory. If the **"Embedded database"** was chosen, this screen will not be shown, as it will be automatically configured.



Name	Example	Description
Host	<i>192.168.0.2</i>	Host name or IP-address. Mandatory field.
Database name	<i>ExampleDatabase</i>	Name of the database. Mandatory field.
Port	<i>4321</i>	Port the database software uses. Mandatory field.
User	<i>DatabaseUser</i>	User name used for accessing the database. Mandatory field.
Password	<i>DatabasePassword</i>	Password used for accessing the database. Mandatory field.

Note! If you have several instances of Microsoft SQL Server, input the server name or address in the **"Host"** field, and the instance's port number in the **"Port"** field. Also, disabling dynamic ports will be required.

2.3.4. Authentication Configuration

2.3.4.1. Internal Authentication

This screen will be shown if internal authentication is selected. Fill in the authentication information and click **"Next"** to continue.

blancco
MANAGEMENT CONSOLE

Authentication configuration

Please enter user details for internal authentication

Administrator account username *

First name

Last name

Email address * @

Password *

Re-type password *

Company name *

Description

[*] Mandatory fields

Previous Next Quit

Name	Example	Description
Administrator account username	<i>admin</i>	User name for the administrator account. Must be 5-64 characters long. Mandatory field.
First name	<i>John</i>	First name of the administrator.
Last name	<i>Doe</i>	Last name of the administrator.
Email address	<i>exampleEmailAddress [@] example.com</i>	Email address of the administrator.
Password	<i>VeryStrongPassword</i>	Password for the administrator account. Must be 6-64 characters long. Mandatory field.
Re-type password	<i>VeryStrongPassword</i>	Re-type the password for the administrator account. Mandatory field.
Company name	<i>Example Company</i>	Name of the company. Mandatory field.
Description	<i>This is an example description of the example company.</i>	Description of the aforementioned company.

2.3.4.2. External Authentication

This screen will be shown if external authentication has been selected. Fill in the authentication information and click “**Next**” to continue.

Name	Example	Description
Provider host	<i>192.168.56.101</i>	LDAP-server address. Mandatory field.
Provider protocol	<i>LDAP</i>	Choose between LDAP and LDAPS (Secure LDAP). The default value of the provider port will change depending on the protocol selected.
Provider port	<i>3268</i>	LDAP-server port. Mandatory field.
Provider DN	<i>dc=example,dc=com</i>	Provider’s distinguished name. Mandatory field.
Provider account DN	<i>userlogonname@example.com</i>	Full distinguished name (DN) of the account that the application uses to read information from LDAP. Mandatory field.
Username	<i>domain_admin</i>	sAMAccountName of the account that the application uses to read information from LDAP. Mandatory field.
Password	<i>VeryStrongPassword</i>	Password for the aforementioned account. Mandatory field.
User search base	<i>ou=BMC_users</i>	An organizational unit or group that is used as base node for a user search in the LDAP. This field is mandatory when the ports 389 (LDAP) or 636 (LDAPS) are used. If ports 3268 (LDAP GC) or 3269 (LDAP GC SSL) are used, this field can be left empty; the search will be done through the whole LDAP (Global Catalog).
Role search base	<i>ou=BMC_security_groups</i>	Organizational unit or group that is used as base node for a security group search in the LDAP. This field is mandatory if the ports 389 (LDAP) or 636 (LDAPS) are used.

		If ports 3268 (LDAP GC) or 3269 (LDAP GC SSL) are used, this field can be left empty; the search will be done through the whole LDAP (Global Catalog).
Role filter	<i>member={0}</i>	Helps to filter LDAP groups. The default value is "member={0}".
Administrator role name	<i>bmc_admins</i>	A security group that contains all of the BMC's admin users. This security group must exist in LDAP before this step. Mandatory field.

Once the installation has been completed, log in to the BMC using an account that belongs to the security group defined in the "Administrator role name" field. Once logged in, it will be possible to create additional roles. See the "[Create new role](#)" section for detailed instructions.

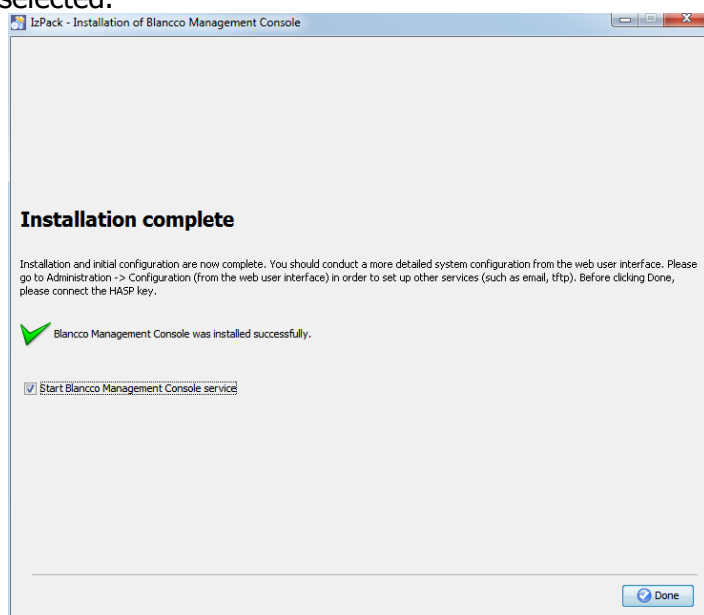
Important! If you are using LDAPS protocol to authenticate to BMC, please make sure that the Certification Authority certificate exists in the Java keystore.

Note! Leaving the fields "User search base" or "Role search base" blank will be possible only if ports 3268 or 3269 are used. If other ports are used (e.g. 389 or 636), then those fields will be mandatory.

2.4. Installation Complete

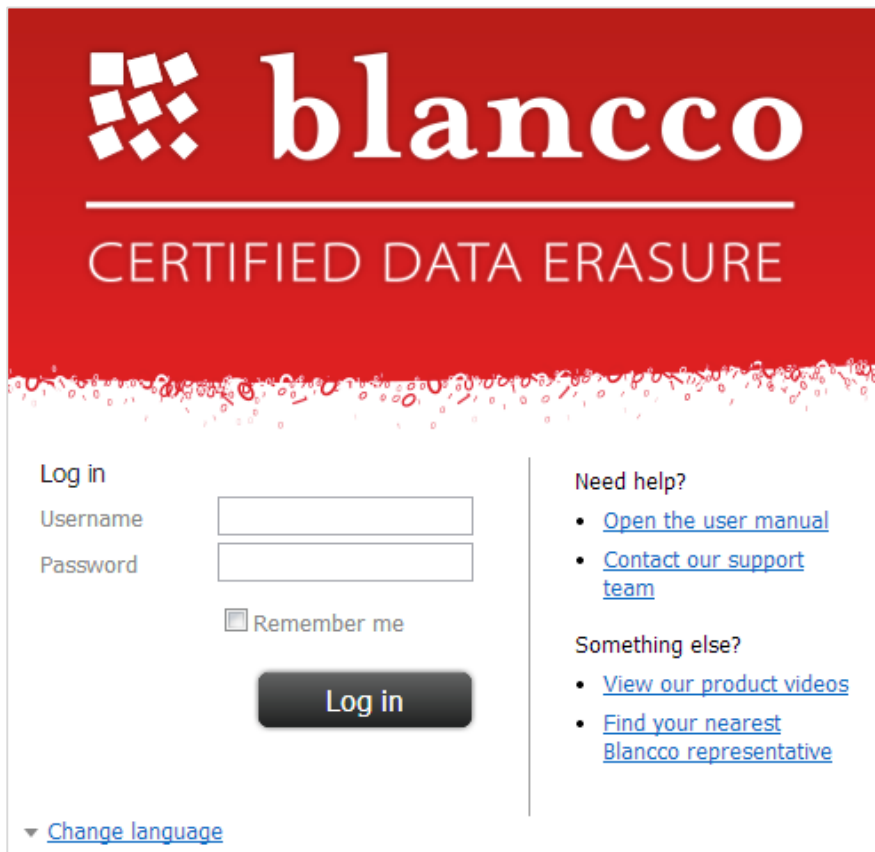
Installation/update process is now complete.

- At this stage, please connect the HASP-key.** Please wait for the OS to detect and initialize the HASP-key before clicking "**Done**". If BMC is being installed on a Linux system, before clicking "**Done**", please check the following section for "[Installing HASP-drivers in Linux](#)". For more information about checking HASP-connectivity, read the chapter "[Checking HASP-connectivity](#)".
- Click "**Done**" to close the wizard.
- The Blancco Management Console service will start automatically (and the default browser will be opened) if the "**Start Blancco Management Console service**" option has been selected.



3. LOGIN SCREEN

All of the Blancco Management Console services are operated through a web browser. When using Blancco Management Console for the first time, please select the address of the machine where the product has been installed. The address of Blancco Management Console is usually *https://[servername:portnumber]* or *https://[ipaddress:portnumber]* (e.g. *https://localhost:8443*).

The image shows the login screen of the Blancco Management Console. At the top, there is a red banner with the Blancco logo (a stylized 'b' made of small squares) and the text 'blancco' in white. Below the banner, the text 'CERTIFIED DATA ERASURE' is displayed in white. The main content area is white and contains a login form on the left and a help section on the right. The login form includes fields for 'Username' and 'Password', a 'Remember me' checkbox, and a 'Log in' button. The help section has two sections: 'Need help?' with links to 'Open the user manual' and 'Contact our support team', and 'Something else?' with links to 'View our product videos' and 'Find your nearest Blancco representative'. At the bottom left, there is a 'Change language' link with a dropdown arrow.

When the address of the Blancco Management Console has been opened, the login screen will be shown. Please insert your username and password to continue to the main view of the Blancco Management Console. When using internal authentication, please use the credentials created during "[Authentication Configuration](#)".

If the "**Remember me**" checkbox is checked, the user credentials have already been saved and will not have to be filled in again. The credentials have been saved in a browser-cookie, which will be saved for four weeks. The cookie will be destroyed if the user logs out of the BMC or when the cookie times out.

Note! For security reasons, we recommend using the "**Remember me**" functionality only on private computers, and not on public or shared computers.

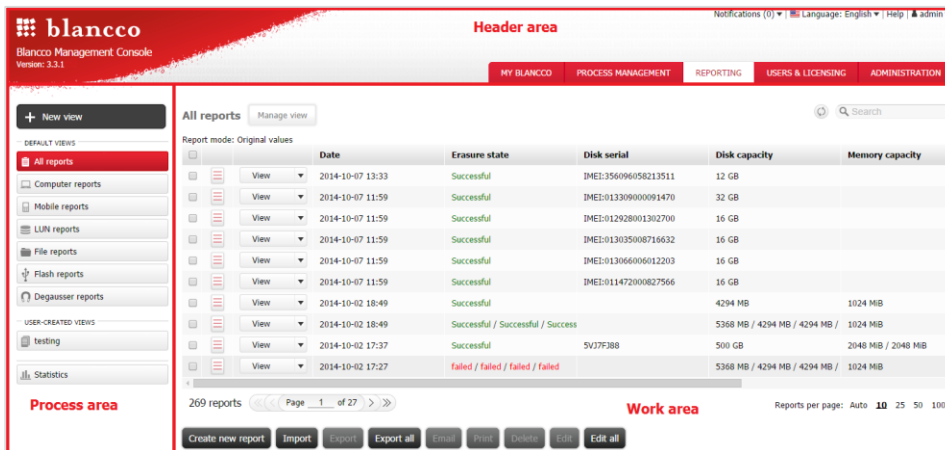
The language of the login screen can be changed by clicking the "**Change language**" option. The right side of the screen houses the "**Need help?**" and "**Something else?**" sections, which have the following links:

- Need help?
 - Open the user manual – opens a copy of the user manual
 - Ask from our support team – opens the web address <http://support.blancco.com/> for contacting support
- Something else?
 - View our product videos – opens the web address <http://www.blancco.com/videos/> for viewing Blancco product videos and tutorials
 - Find your nearest Blancco representative – opens the web address <http://www.blancco.com/en/contact-us/> for contacting your nearest Blancco representative

It is recommended that the USB HASP dongle always be plugged in to the machine while operating the Blancco Management Console, as there are multiple operations which will require it.

4. BLANCCO MANAGEMENT CONSOLE USER INTERFACE

Blancco Management Console's user interface is divided into three main areas: the header area, the process area and the work area.



4.1. Header area

The header area contains information about the software in use, such as the software name and the version.

It also contains a series of tabs: My Blancco, Process management, Reporting, Users & licensing and Administration.

In the header area, information is also available about the user currently logged in, the language in use, a **"Help"** button, a notification area and a **"Logout"** button.

4.1.1. Language selection

BMC can be used in 6 different languages: English (US), French, German, Japanese, Russian and Spanish. Click the **"Language"** button to switch between languages.

4.1.2. Help

Clicking the **"Help"** button will open a PDF version of this user manual in a new tab/window of the browser.

4.1.3. Notification area

The notification area displays notifications whenever an action (such as ["Export all reports"](#)) has been completed. Click the **"Notification"** button to view the notification area. Unread notifications will appear in red and the amount of unread notifications will be shown between the parentheses "()".

E.g. **Notifications (3)** means that there are 3 unread notifications.

4.2. Process area

The process area contains tab specific sub-menus.

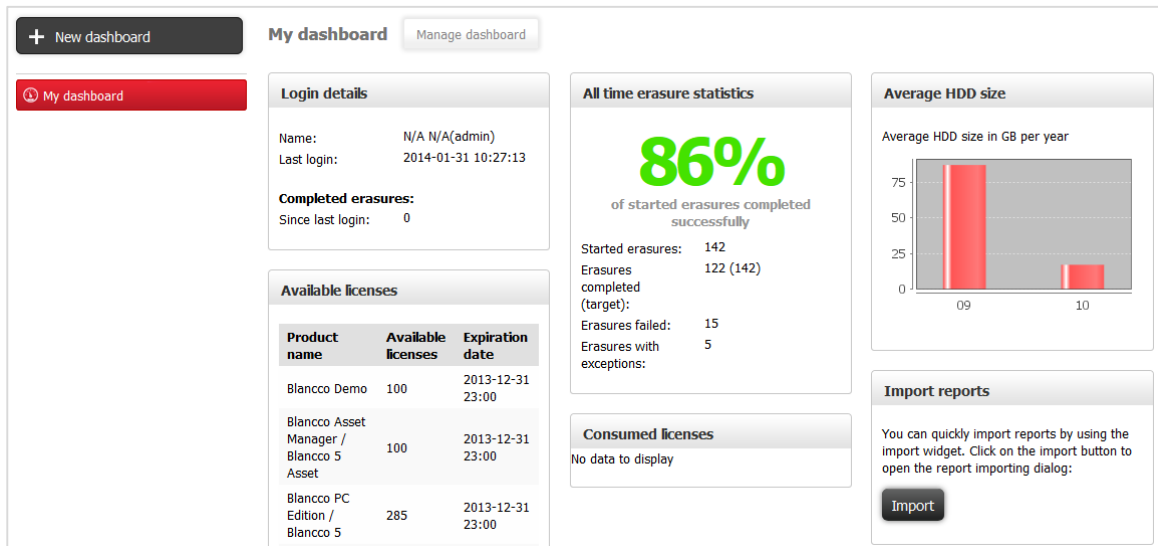
E.g. the **"Reporting"** tab, process area contains different report views and statistics, while the **"Users & licensing"** tab, contains a sub-menu for managing users and groups, and another sub-menu for viewing and activating licenses.

4.3. Work area

The work area contains all the specific information and functionalities of the selected sub-menu.

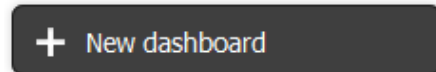
5. MY BLANCCO

As a default, when logging in to the Blancco Management Console, the **My Blancco** tab will be shown. A default dashboard **My dashboard** will be shown with a view of all 6 available widgets.



5.1. New dashboard

To create new customized dashboards, press the **New dashboard** button.



This will then open the **Create new dashboard** dialog:

The 'Create new dashboard' dialog has the following fields and components:

- Name:** * (required field)
- Description:**
- Widgets:**
 - Available widgets:** All time erasure statistics, Available licenses, Average HDD size, Consumed licenses, Import Reports, Login details.
 - Selected widgets:** (Empty list)
- Buttons:** Save, Cancel

Create new dashboard has the following fields:

- Name – Name of the dashboard.
- Description – Description of the dashboard.
- Available widgets – List of widgets available but not yet being used for the dashboard.
Search field can be used to search the list.
- Selected widgets – Widgets selected for the dashboard. **Search** field can be used to search the list.

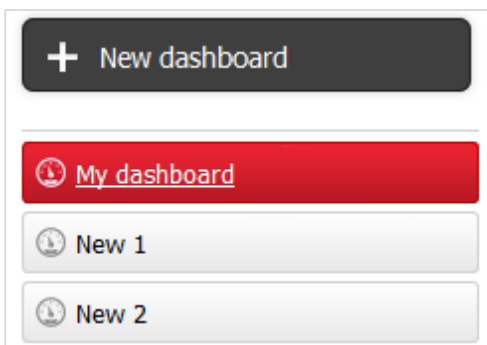
The buttons next to the widget fields have the following functionalities:

- ➡ will add the selected widget to the screen
- ⬅ will remove the selected widget from the screen.
- ⬆ will move the selected widget to the top of the list (first widget on the screen)
- ▲ will move the selected widget up in the list
- ▼ will move the selected widget down in the list
- ⬇ will move the selected widget to the bottom of the list (last widget on the screen)

To save the dashboard, press **Save**. Pressing **Cancel** exits the dialog without saving any changes.

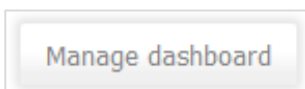
Dashboards are saved in the database separately for each user. Dashboards with same name cannot be created, but different users can have dashboards with same name.

If the new dashboard was saved, it will be available from the dashboard list:

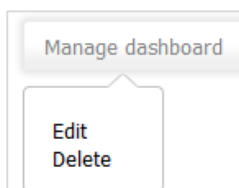


5.2. Manage dashboard

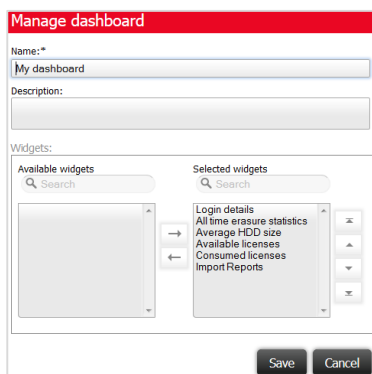
You can manage your existing dashboards by clicking the **Manage dashboard** button.



Upon clicking the button the following menu will appear:



Delete will delete the current dashboard. **Edit** will open the **Manage dashboard** dialog:



Manage dashboard has the following fields:

- Name – Name of the dashboard.
- Description – Description of the dashboard.
- Available widgets – A list of widgets available and not yet being used on the dashboard. **Search** field can be used to search the list.
- Selected widgets – Widgets selected for the dashboard. **Search** field can be used to search the list.

The buttons next to the widget fields have the following functionalities:

- → will add the selected widget to the screen
- ← will remove the selected widget from the screen.
- ⌵ will move the selected widget to the top of the list (first widget on the screen)
- ▲ will move the selected widget up in the list
- ▼ will move the selected widget down in the list
- ⌶ will move the selected widget to the bottom of the list (last widget on the screen)

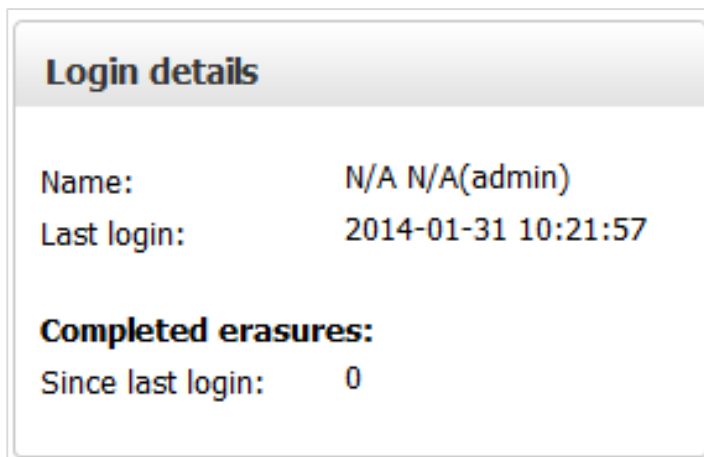
Note! The position of the widget in the “Selected widgets” list will also determine its placement on the dashboard. The top widget will be in the upper left corner, the second widget from the top will be on the right side of the top widget. The bottom widget will be located in the lower right corner of the screen.

Tip: multiple widgets can be added or removed all at once, by selecting all desired widgets while holding the CTRL or SHIFT keys and clicking the → or ← buttons.

5.3. Default widgets

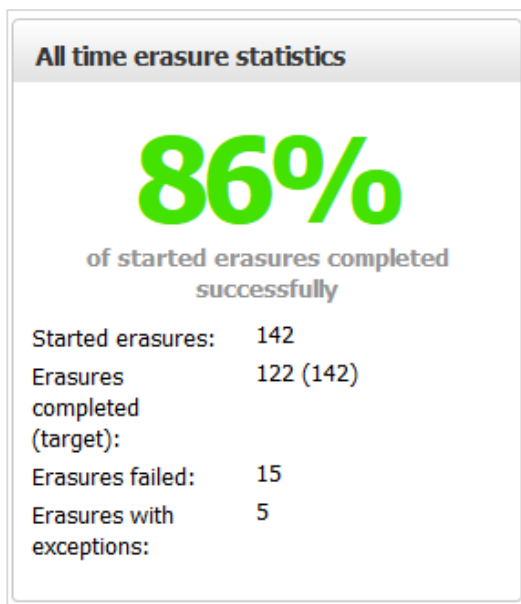
5.3.1. Login details

Login details text: This widget contains information about the user that is currently logged in. It also contains information about the last time the user logged in and how many erasures were performed by this user since the last login.



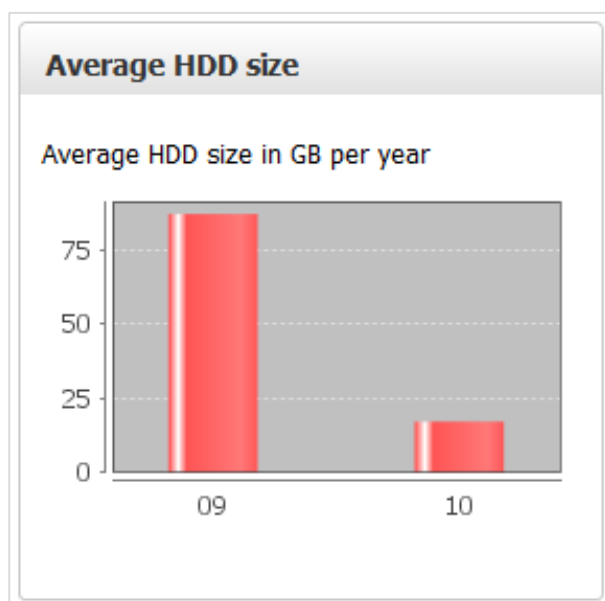
5.3.2. All time erasure statistics

This widget has the statistics of all successfully completed erasures. It lists: **"started erasures"** – total number of started erasures, **"erasures completed (target)"** – number of successfully completed erasures without exceptions (total number of started erasures), **"erasures failed"** – number of failed erasures and **"erasures with exceptions"** – number of erasures completed with some kind of exception.



5.3.3. Average HDD size

Average values of HDDs are shown here.



5.3.4. Available licenses

All the available licenses for the current user are listed here. It shows the name of the product under "Product name", number of remaining licenses under "Available licenses" and the validity end date under "Expiration date".

Available licenses		
Product name	Available licenses	Expiration date
Blancco Demo	100	2013-12-31 23:00
Blancco Asset Manager / Blancco 5 Asset	100	2013-12-31 23:00
Blancco PC Edition / Blancco 5	285	2013-12-31 23:00

5.3.5. Consumed licenses

This widget contains information about consumed licenses by the current user logged in. It shows the name of the product under "Product name", and the number of consumed licenses under "Consumed licenses".

Consumed licenses	
Product name	Consumed licenses
Blancco Asset Manager / Blancco 5 Asset	1
Blancco PC Edition / Blancco 5	8
Blancco Server Edition	1
Blancco HMG	1
Blancco Data Centre Edition (per GB)	81

5.3.6. Import reports

This widget is used for importing reports to the Blancco Management Console.

Import reports

You can quickly import reports by using the import widget. Click on the import button to open the report importing dialog:

Import

For more detailed instructions on how to import reports, please see the "[Reporting tab/Import reports](#)" section.

6. PROCESS MANAGEMENT TAB

The Live management page is used to manage and view erasure processes remotely.

The screenshot shows the Blancco Management Console interface. At the top, there's a header with the Blancco logo, version 3.3.1, and navigation tabs: MY BLANCCO, PROCESS MANAGEMENT (selected), REPORTING, USERS & LICENSING, and ADMINISTRATION. Below the tabs, there's a 'Live management' button and two buttons: 'Clear successful' and 'Clear selected'. A table lists sessions with columns: Client, Identifier, Product, Session created, Status, Manufacture, Serial, Size, and Type. Two sessions are listed, both for 'No Asset Ta' with identifier 41 and 42, product 'Blancco5 5.x.d', session created '2014-10-02 15:33', status 'completed' and 'connected', manufacturer 'VMware, Inc. \', serial 'VMware-56 4d', size '4294 MB', and type '4294 MB'. At the bottom, there's a pagination bar showing '2 sessions', 'Page 1 of 1', and a '+CHECKME+Clients per page' dropdown set to 'Auto' with options 10, 25, 50. There are also 'Control erasures' and 'Fetch reports' buttons.

Client	Identifier	Product	Session created	Status	Manufacture	Serial	Size	Type
No Asset Ta	41	Blancco5 5.x.d	2014-10-02 15:33	completed	VMware, Inc. \	VMware-56 4d	4294 MB	
No Asset Ta	42	Blancco5 5.x.d	2014-10-02 15:33	connected	VMware, Inc. \	VMware-56 4d	4294 MB	

There are two buttons on the top of the tab:

- **Clear successful** - Removes all the successfully completed erasures from the list.
- **Clear Selected** – Removes the selected processes, whether they have finished or not.

To select all the supported clients (Blancco 5.x) on a single page, click the Select All-checkbox, which is located on the left side of the Client-text:



The list of these processes is underneath and has the following fields:

Name	Description
Client	Client identifier. IP-address and custom identifier are shown if they are available.
Identifier	Unique identifier for Blancco 5.6 (or newer). This identifier will also be shown in the Blancco 5.6 (or newer) UI.
Product	Erasure client in use.
Session created	Time and date when the session was created.
Status	Current status of the process. When erasure is ongoing, a progress bar is displayed here.
Manufacturer	Manufacturer of the hard disk drive.
Serial	Serial number of disk.
Size	Size of the hard disk drive being erased.
Type	Type of hard disk drive (IDE, SCSI, SATA...).

The **Clients per page** setting determines the amount of clients displayed on one page.

- The **Auto** option will display as many clients as possible on the screen. This is the default option.
- The **10, 25, 50** options will display respectively 10, 25 and 50 clients on the screen.

Clients per page **Auto** 10 25 50

6.1. Controlling Blancco 5 remotely

Blancco 5 can be controlled remotely from BMC. Blancco 5 must be configured with the following option in order to enable remote control:

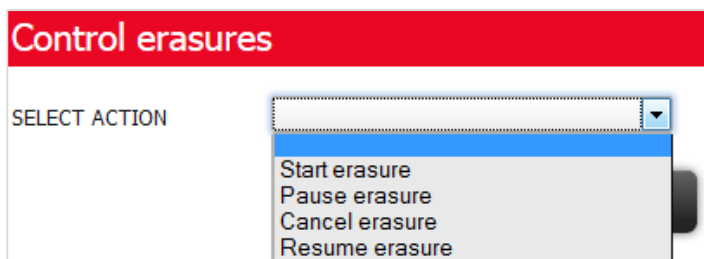
- General \ Erasure Control = Management Console remote

Note! Check out the Blancco 5 Configuration Tool User Manual to know more about how to configure Blancco 5 software images.

Client	Identifier	Product	Session created	Status	Manufacturer/Model	Serial	Size	Type
☐	Not Specified	7	Blancco5 5.5.1	2014-06-25 13:54	74%	innotek GmbH VirtualBox	0	805 MB

6.1.1. Erasure controls

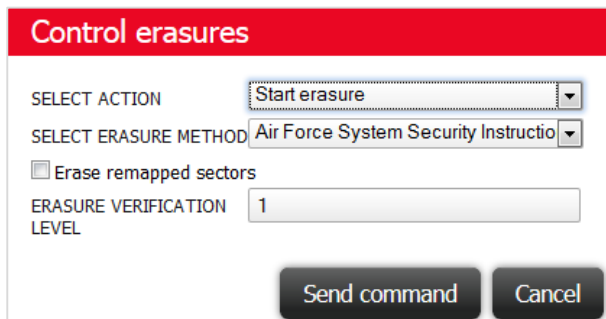
There are four types of commands that can be sent remotely to the machine to erase.



In order to start an erasure remotely, select the machine to erase and click on the **"Control erasures"** button and select **"Start erasure"**.

6.1.1.1. Start erasure

There are some options which must be selected before starting the erasure.



Available options for selection are:

- a. **Erase method** – the full list of available erasure methods can be found from the “Erasure standards” section of the Blancco 5 User Manual.
 - When multiple clients are selected, the user can start erasure on all selected clients using any erasure standard that is in the lists of all selected clients.
 - Example: Client version A supports *DoD* and *Guttman* standards, Client version B supports *Air Force System Security* and *Guttman* standards. The list will only show the *Guttman* standard, as it is supported by both client versions.
- b. **Erase remapped sectors** – enabled or disabled
- c. **Verification level** – quick / full or in more recent versions of the erasure client (from version 5.4.0 and newer), a value between 1 and 100. See the “[Erasure verification](#)” section of the Appendix for more details.
 - When multiple clients are selected and one (or more) of them support quick or full verification only: 100 = “Full” verification, 1-99 = sets the verification level to “Quick”.

Click the “**Send command**” button when all options are selected. The “**start erasure**” command will be sent to the machine, and the erasure will start. Please note: there is no support for individual disk or partition erasures.

6.1.1.2. Pause erasure

In order to pause an ongoing erasure, select the ongoing erasure, click on “**Control erasures**” and then select “**Pause erasure**”. Confirm by clicking “**Send command**”. The erasure will be paused.

6.1.1.3. Cancel erasure

In order to cancel an ongoing erasure, select the ongoing erasure, click on “**Control erasures**” and then select “**Cancel erasure**”. Confirm by clicking “**Send command**”. The erasure will be paused.

6.1.1.4. Resume erasure

In order to resume a paused erasure, select the ongoing erasure, click on “**Control erasures**” and then select “**Resume erasure**”. Confirm by clicking “**Send command**”. The erasure will be resumed.

6.1.2. Report fetching

After the erasure has completed, erasure reports will be automatically fetched from all erased machines and will have an erasure status of **Successful** or **Failed**. However, any erasures, which were canceled or paused by the user, will not have fetched reports.

You can browse on fetched reports from the “**Reporting**” screen or by clicking on the report icon on the far right (next to the “**Type**” field in the default view):



This icon will also serve as an indicator of a fetched report for the corresponding client. If the user does not have the permission to view reports, the report view functionality of this button will be disabled.

In order to manually fetch erasure reports from selected machines, complete the following step:

Select the finished erasure, and click on **"Fetch reports"**. The erasure report will be fetched from the erased machine and can be browsed from the **"Reporting"** screen.

6.2. Managing Legacy client erasures

Legacy clients' erasures can be managed from this screen. The **"Erasure status"** option should be activated in the legacy client software image. Only minimal information on the ongoing erasure (session creation date, erasure identifier) and a progress bar are available. Depending on the settings in the legacy client software image, the erasure report might need to be sent to the BMC manually (remotely fetching the erasure report from BMC will not be possible).

	Client	Identifier	Product	Session created	Status	Manufacturer/I	Serial	Size	Type
☐	Test/071140		Legacy N/A	2014-06-25 14:34	0%	N/A	N/A	N/A	N/A
☐	0266696853		Legacy N/A	2014-06-25 14:39	0%	N/A	N/A	N/A	N/A

7. REPORTING TAB

This tab will display all the Blancco reports from the database.

blancco
Blancco Management Console
Version: 3.3.1

MY BLANCCO PROCESS MANAGEMENT REPORTING USERS & LICENSING ADMINISTRATION

+ New view

Report mode: Original values

	Date	Erasure state	Disk serial	Disk capacity	Memory capacity
View	2014-10-07 13:33	Successful	IMEI:356096058213511	12 GB	
View	2014-10-07 11:59	Successful	IMEI:013309000091470	32 GB	
View	2014-10-07 11:59	Successful	IMEI:012928001302700	16 GB	
View	2014-10-07 11:59	Successful	IMEI:013035008716632	16 GB	
View	2014-10-07 11:59	Successful	IMEI:013066006012203	16 GB	
View	2014-10-07 11:59	Successful	IMEI:011472000827566	16 GB	
View	2014-10-02 18:49	Successful		4294 MB	1024 MIB
View	2014-10-02 18:49	Successful / Successful / Success		5368 MB / 4294 MB / 4294 MB	1024 MIB
View	2014-10-02 17:37	Successful	5VJ7F388	500 GB	2048 MIB / 2048 MIB
View	2014-10-02 17:27	failed / failed / failed / failed		5368 MB / 4294 MB / 4294 MB	1024 MIB

269 reports Page 1 of 27

Reports per page: Auto 10 25 50 100

Create new report Import Export Export all Email Print Delete Edit Edit all

7.1. Report view management

On the left panel, report views are listed. There are 7 system default views: All reports, Computer reports, Mobile reports, LUN reports, File reports, Flash reports and Degausser reports. Custom views can also be created by clicking the "Create view" button.

More information about the system default report views can be found from the "[System default report views](#)" section of the Appendix.

7.2. Create new report views

Custom report views can be created by clicking the "Create view" button.

Create new view

NAME:*

REPORT MODE: Original values

Columns:*

Available columns:

- BIOS date
- BIOS serial
- BIOS vendor
- BIOS version
- Business location
- Business name
- CPU cache size
- CPU dmspeed
- CPU frequency
- CPU maximum cores

Selected columns:

Filters:

DATE: All reports Custom

From: none To: none

Select field... AND

+Add new filter Clear all

Save Cancel

7.2.1. View name

The "Name" field is the view's name. This field is mandatory and unique (2 views with the same name cannot be created). The maximum length of this field is 32 characters.

7.2.2. Report mode

This field determines the report mode. In "Original reports" mode, only the original report values will be shown, even if the report has been edited. In the "Edited reports" mode, if a report has been edited, then its edited values will be shown and they will affect searches (if those values are shown in the view).

7.2.3. View columns

"Columns" is used to select which fields will be shown in the view. There are two selection boxes and several buttons in this view.

- **Available columns** lists all available report columns
- **Selected columns** lists all selected report columns
- ➔ will add the selected columns to the view
- ➜ will remove the selected columns from the view.
- ⬆ will move the selected columns to the top of the list (first column in the view)
- ⬅ will move the selected columns up in the list (moving left in the view)
- ⬇ will move the selected columns down in the list (moving right in the view)
- ⬇ will move the selected columns to the bottom of the list (last column in the view)

7.2.4. View filters

This option is used to create advanced filters for the current view.

Name	Description
Date	Filter the reports by date. This can be set to either "All reports" (no filtering by date), "Today", "Yesterday", "This week", "Last week", "This month", "Last year" or "Custom". When "Custom" is selected, the date can be defined by using the "FROM" and "TO" date values from the calendar-buttons.
Field	Lists all fields available in the erasure report. Note! There are some special fields, see the " Filtering report with special fields " section of the Appendix.
Comparison operator	Comparison operator used for the search. Valid operators are shown in the dropdown list. "=", "!=", "Not equal", "Contains", "Not contain", "Starts with", "Ends with", "<", ">", "≤", "≥" are the complete list of operators. The list of available operators may differ between selected fields.
Value	Text field where the value of search needs to be input.

The bottom of the window has the buttons "Save", which saves the current view, "Delete", which deletes the current view and "Cancel" which cancels all the changes made.

7.2.5. View options

This option is used to select between the report modes. There are two report modes available from the dropdown-menu: **Original values** and **Edited values**.

In **Original reports** mode, only the original report values will be shown, even if the report has been edited. In the **Edited reports** mode, if a report has been edited, then its edited values will be shown and will affect searches (if those values are shown in the view). This also will affect the search results.

7.3. Manage existing report views

Existing report views can be managed by clicking the **Manage** menu button available on the right side of the currently selected view name.

7.3.1. Edit

This option is used to edit the settings of the currently selected view.

7.3.2. Delete

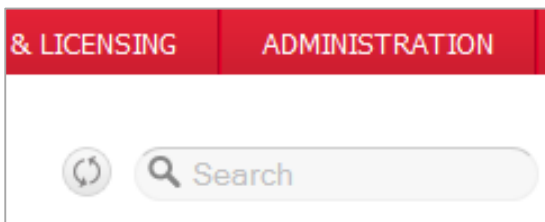
This option is used to delete the currently selected view.

7.4. Report mode

Here, the current report mode will be shown. In **Original reports** mode, only the original report values will be shown, even if the report has been edited. In the **Edited reports** mode, if a report has been edited, then its edited values will be shown which will affect searches (if those values are shown in the view). This also will affect the search results.

7.5. Quick search

Quick search allows quick filtering of reports. Quick search only allows searches of values in the active columns. There are some fields that cannot be searched; see a detailed list in the [12.13 Filtering report with special fields](#) section of the Appendix.



The search can be expanded by using a wildcard symbol "%". The symbol can be placed in front or after the search string. For example, searching for the term "Intel" would give all the reports which have terms like "Intel", "Intel-Xeon", "Intelligent" etc. The term "%Intel%" would give the previous responses and also the following: "Xeon-Intel", "NvidiaIntelMotherboard", etc...

The report mode (shown after *Report mode:*) also affects the search results. In "Original reports" mode, only the original report values will be shown, even with edited reports. In the "Edited reports" mode, if a report has been edited, then its edited values will be shown which will affect searches (if those values are shown in the view).

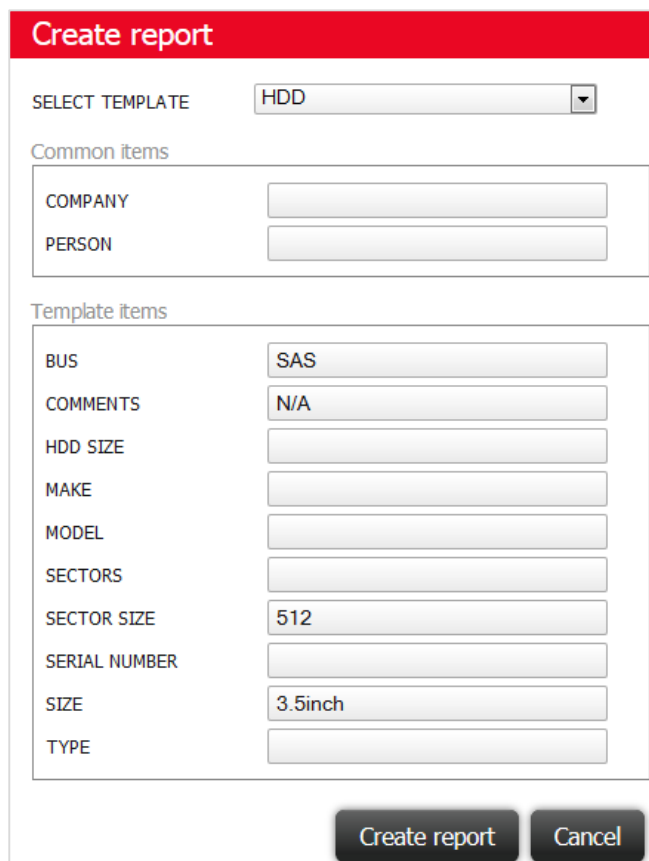
Tip! For faster searches, it is recommended to only use the wildcard symbol "%" after the search string. E.g. "Intel%" instead of "%Intel%".

7.6. Open a report

To open a report, click on the **View** button in the dropdown menu. The report will open in a new browser tab. See [7.19. View-button](#) for more information.

7.7. Create new report

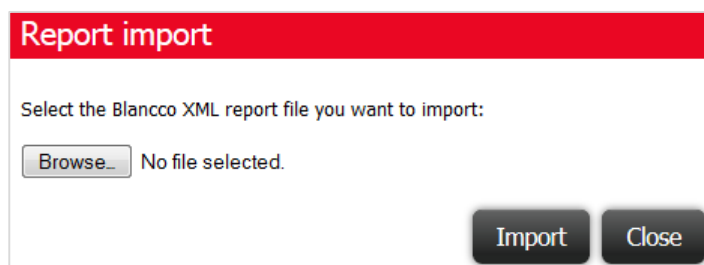
This feature is used to create customized reports. It is intended for assets that cannot be erased using a standard Blancco erasure solution. Select the appropriate template from the dropdown-menu and fill in the information. Available templates are: Monitor, HDD, Laptop, PC and Mobile_device. Click the "Create report" button when ready or "Cancel" if you want to exit without saving the changes. "Create report" with "HDD" template is shown in the picture below.



The screenshot shows a dialog box titled "Create report" with a red header. Below the header, there is a "SELECT TEMPLATE" dropdown menu with "HDD" selected. Under the "Common items" section, there are input fields for "COMPANY" and "PERSON". The "Template items" section contains a list of fields: "BUS" (SAS), "COMMENTS" (N/A), "HDD SIZE", "MAKE", "MODEL", "SECTORS", "SECTOR SIZE" (512), "SERIAL NUMBER", "SIZE" (3.5inch), and "TYPE". At the bottom right, there are two buttons: "Create report" and "Cancel".

7.8. Import reports

It is possible to import Blancco erasure reports to the Blancco Management Console. Click the "Import" button and the following screen will be shown:



The screenshot shows a dialog box titled "Report import" with a red header. Below the header, there is a text prompt: "Select the Blancco XML report file you want to import:". Below this prompt is a "Browse..." button and the text "No file selected.". At the bottom right, there are two buttons: "Import" and "Close".

Navigate to the xml file containing the reports to be imported into the system. If the person importing the reports has access to other user accounts, the user can define which users will take ownership of the reports. These accounts can only be in the same group as the user importing them or the users must be sub-users of the importer.

Report import

 The digital signature check of the reports was successful. Reports are valid.

Select user to assign the reports to:

admin
admin
ExampleUser

Import
Close

If the client software has not consumed a license(s), it will require licenses for the import procedure. This is why it is highly recommended that the USB HASP dongle is attached in to the machine, when importing reports from multiple sources.

Report import

In order to import uploaded report set, the following licenses need to be consumed:

Product	Amount
Blancco Data Centre Edition (per GB)	81
Blancco Server Edition	1
Blancco PC Edition	8
Blancco Asset Manager	1
Blancco HMG	1

Select user to assign the reports to:

admin

Import
Close

7.9. Export reports

It is possible to export Blancco erasure reports in several formats. Available formats are XML, PDF and CSV. If report mode is set to "Original reports", the original version of the reports will be exported even if they have been edited. If the mode is set to "Edited reports" then the edited version will be exported.

Export selected reports

Please select the format in which you want to export the report:

Report options:

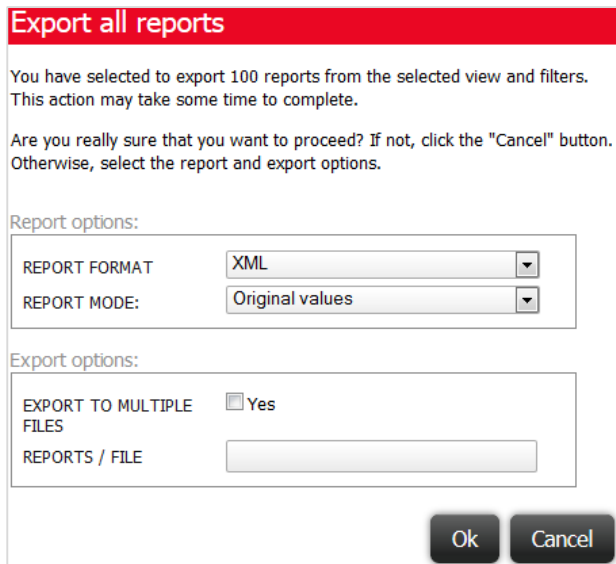
REPORT FORMAT
XML

REPORT MODE:
Original values

Ok
Cancel

7.10. Export all reports

It is possible to export all reports in the database by clicking the **Export all** button. The following dialog will open:



Exporting all reports might take some time to complete depending on the amount of reports. The export all action will run in the background and a notification will appear in the notification area once the action has completed. See the "[Notification area](#)" section for more details. Export all reports will produce a ZIP file containing the exported reports.

7.10.1. Report options

The format of the report can be selected. Available formats are: CSV, PDF and XML. Additional options are available when exporting reports as CSV; see the "[Export reports in CSV format](#)" section for more details.

If the report mode has been set to "Original reports", the original version of the reports will be exported even if they have been edited. If the mode has been set to "Edited reports" then the edited version will be exported.

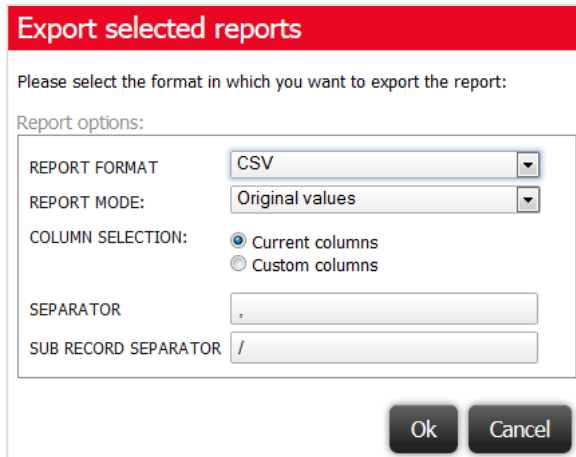
7.10.2. Export options

Several export options are available:

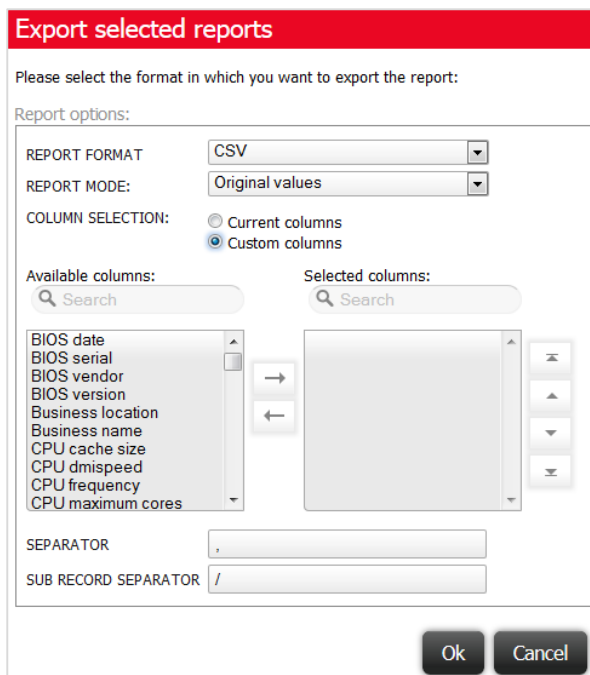
- **Export to multiple files** allows reports to split into several files. The amount of reports in each file can be set in the "**Reports / file**" text field (acceptable values are between "0" and "100000").

7.11. Export reports in CSV format

By default, when exporting report(s) in CSV format, the "current columns" (those visible in the selected view) will be exported.



"Custom columns" can also be selected. Selecting "Custom columns" will expand the dialog with column selection boxes. Please refer to ["Report views/View columns"](#) for details on how to add, remove and order columns.



A search functionality is available for the "Available columns" and "Selected columns" boxes. Search results are automatically displayed in the box below.

Tip: there is no need to press the "Enter" key to execute the search, the search will be performed as you type.

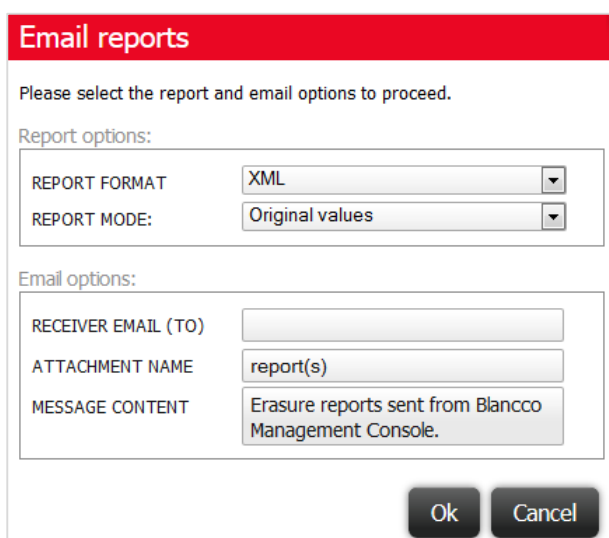
Record and sub record separators can also be set. Default values are "," and "/".

More information about searching through filtered lists can be found from the "[Searching fields in a filtered list](#)" section of the Appendix.

7.12. Email reports

It is possible to email Blancco erasure reports in several formats. Available formats are XML, PDF and CSV. If the report mode has been set to "Original reports", the original version of the reports will be sent even if they have been edited. If the mode has been set to "Edited reports" then the edited version will be sent.

Several options are available when emailing a report, such as the email recipient, email subject and attachment's name. When emailing a report(s) in CSV format, several options are available. Please refer to the "[Export reports in CSV format](#)" section for more details.



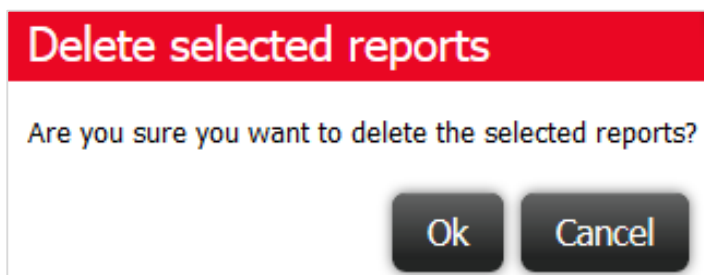
The "Email reports" dialog box has a red header. Below the header, it says "Please select the report and email options to proceed." There are two sections: "Report options:" and "Email options:". Under "Report options:", there are two dropdown menus: "REPORT FORMAT" set to "XML" and "REPORT MODE:" set to "Original values". Under "Email options:", there are three text input fields: "RECEIVER EMAIL (TO)" (empty), "ATTACHMENT NAME" set to "report(s)", and "MESSAGE CONTENT" set to "Erasure reports sent from Blancco Management Console.". At the bottom right are "Ok" and "Cancel" buttons.

7.13. Print reports

It is possible to print Blancco erasure reports. Select the report(s) to be printed and click the "Print" button. In the "Print reports" dialog, clicking the "Print" button will open the browser's printing options.

7.14. Delete reports

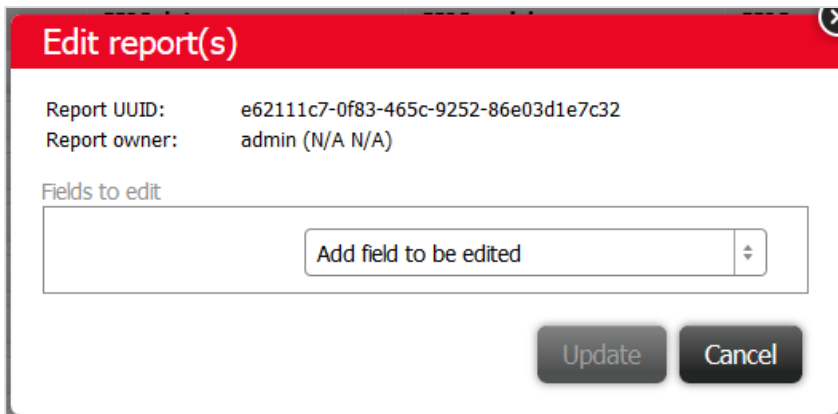
To delete report(s), select the report(s) and click the "Delete" button. A confirmation popup (shown below) will be displayed. By clicking "Ok", the selected report(s) will be deleted from the Blancco Management Console. Note! It will not be possible to recover deleted reports.



The "Delete selected reports" dialog box has a red header. Below the header, it says "Are you sure you want to delete the selected reports?". At the bottom are "Ok" and "Cancel" buttons.

7.15. Edit report(s)

When the **Edit** button is clicked after one or more reports have been selected, the following window appears:

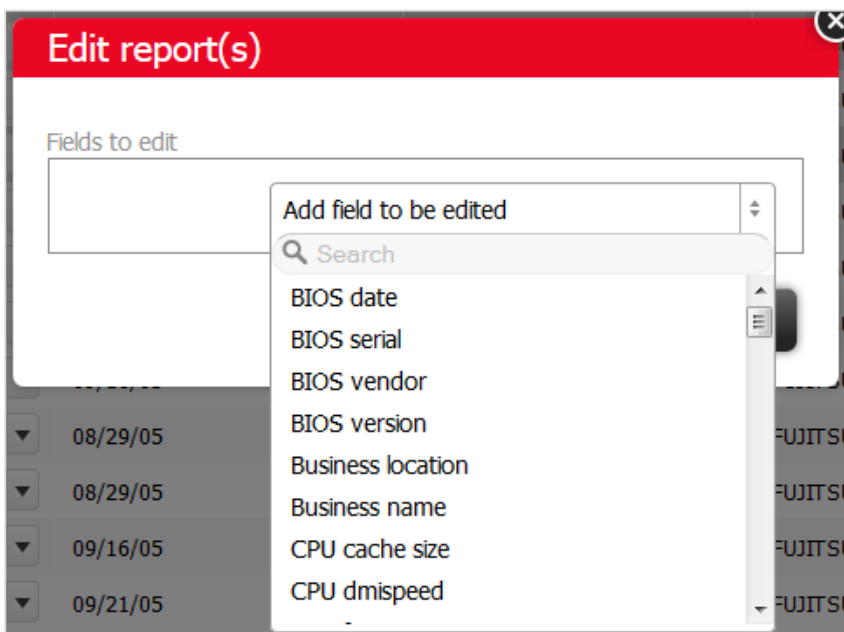


The screenshot shows a window titled "Edit report(s)" with a red header bar. Below the header, the following information is displayed:

- Report UUID: e62111c7-0f83-465c-9252-86e03d1e7c32
- Report owner: admin (N/A N/A)

Below this information is a section labeled "Fields to edit" containing a text input field with the placeholder text "Add field to be edited". At the bottom right of the window are two buttons: "Update" and "Cancel".

Clicking on the **Add field to be edited** will open a dropdown-list which has all the editable values of the reports listed (this field can be searched by typing a term in the search box):



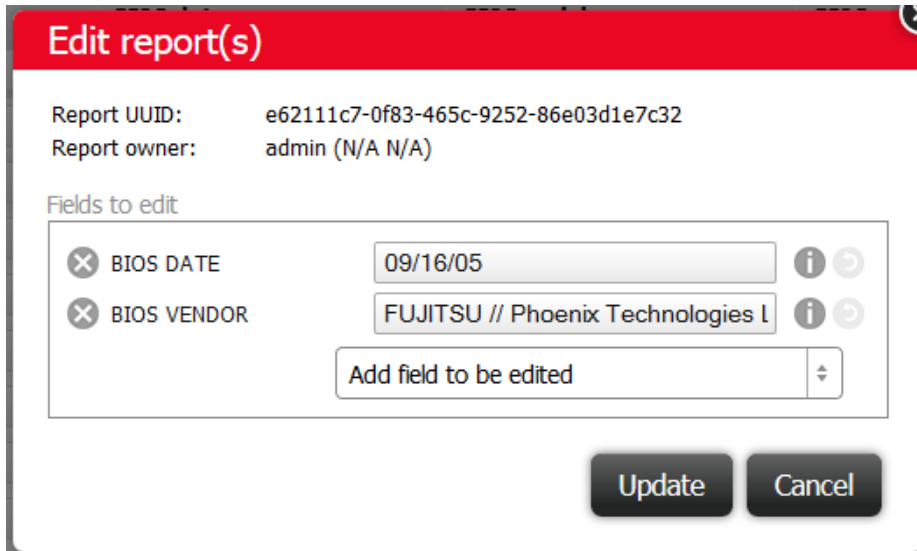
This screenshot shows the same "Edit report(s)" window, but with the dropdown menu open. The dropdown menu has a search bar at the top with a magnifying glass icon and the word "Search". Below the search bar is a list of fields that can be edited:

- BIOS date
- BIOS serial
- BIOS vendor
- BIOS version
- Business location
- Business name
- CPU cache size
- CPU dmspeed

The background of the window shows a list of reports with dates: 08/29/05, 08/29/05, 09/16/05, and 09/21/05.

7.15.1. Editing a single report

When editing one report, the original values will be shown in the fields chosen for editing. In the following example the "BIOS DATE" and "BIOS VENDOR" screenshot fields have been selected for editing.



"BIOS DATE" has been changed to *1/2/2013* and "BIOS VENDOR" to *Example Company*.



Several buttons are available:

-  Removes the field from the edit report view (any changes which have not been updated, will be lost).
-  Gives information about the selected field.
-  Returns the field's original value. The "BIOS DATE" field would revert from *1/2/2003* -> *09/16/05*.

Press the **Update** button to update the report with the new changes or **Cancel** to cancel your actions.



7.15.2. Editing several reports

When clicking the **Edit** button the following window will open:

A screenshot of the 'Edit report(s)' window. It has a red header bar with the title 'Edit report(s)'. Below the header, there is a section titled 'Fields to edit' which contains a single text input field with the placeholder text 'Add field to be edited'. At the bottom right of the window, there are two buttons: 'Update' and 'Cancel'.

In the following picture, the "BIOS DATE" and "BIOS VENDOR" fields have been chosen for editing:

A screenshot of the 'Edit report(s)' window, similar to the previous one but with two fields selected. Under the 'Fields to edit' section, there are two entries: 'BIOS DATE' and 'BIOS VENDOR'. Each entry has a small 'x' icon to its left and a corresponding text input field to its right. Below these entries is a text input field with the placeholder text 'Add field to be edited'. At the bottom right, there are 'Update' and 'Cancel' buttons.

Writing something in these fields and then pressing **Update** will change the value of the selected field(s) in all chosen reports.

 Removes the field from the edit report view (any changes which have not been updated will be lost).

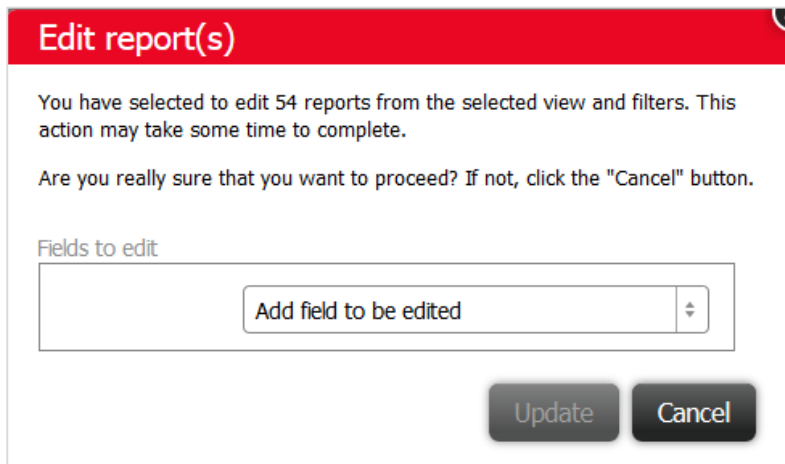
Press the **Update** button to update the report with the new changes or **Cancel** to cancel your actions.



7.16. Editing all reports

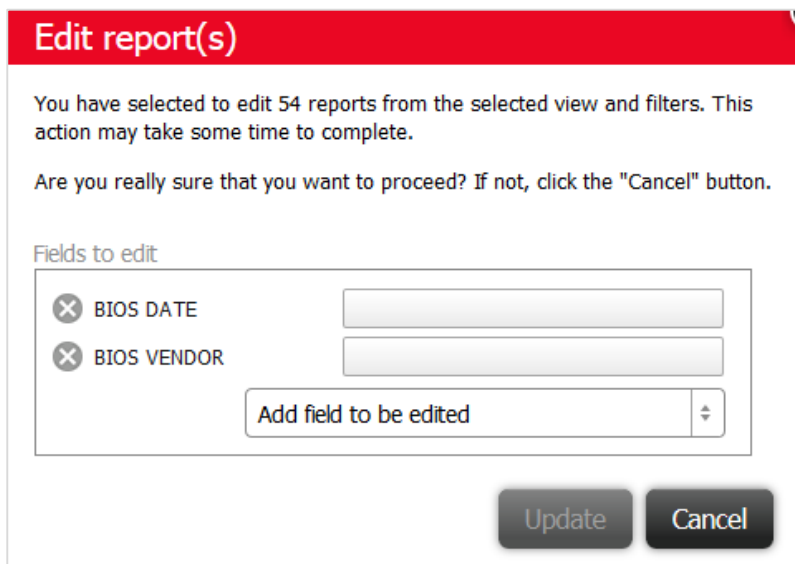
The **Edit all** action will edit all reports shown in the currently filtered view but not the whole database.

When clicking the **Edit all** button the following window opens:



The first sentence "You have selected to edit X reports..." will tell how many reports have been selected for editing. In the picture above, 54 reports have been filtered and all of them are now being edited.

In the following picture, the "BIOS DATE" and "BIOS VENDOR" fields have been chosen for editing:



Writing something in these fields and then pressing **Update** will change the value of the selected field(s) in all chosen reports.



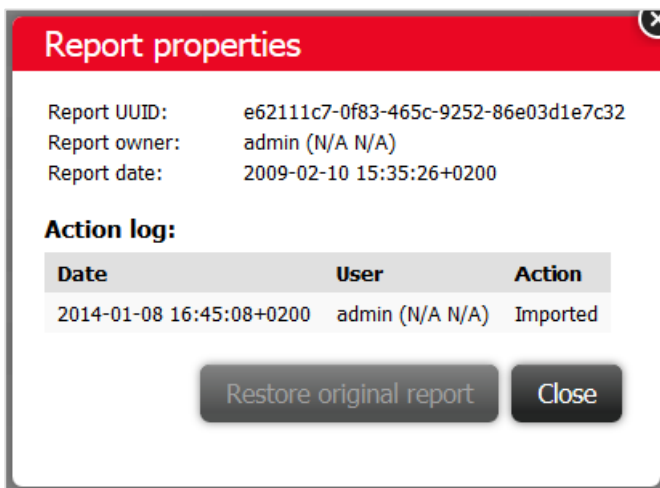
removes the field from the edit report view (any changes which have not been updated will be lost).

Press the **Update** button to update the report with the new changes or **Cancel** to cancel your actions.



7.17. Report properties

Will open the report properties dialog:



It shows general report information; UUID, owner, creation date. The **Close** button on the lower right corner closes this window.

7.17.1. Action log

Under **Action log** there is information about any actions taken on the report. In the example picture above, the report was imported by the "admin" on the 21st of January 2014.

Action log:		
Date	User	Action
2014-01-21 12:10:53+0200	admin (N/A N/A)	Imported

7.17.2. Edited values

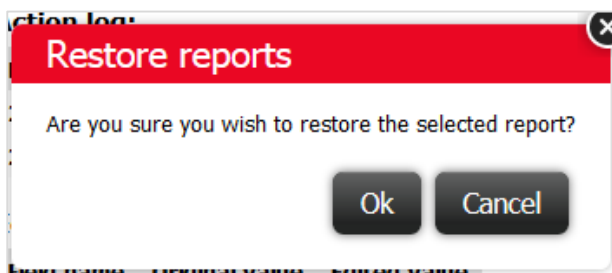
If the report has been edited, the **Edited values** field will be shown. It contains information about the field name of the edited value, original value and the edited value.

Edited values:		
Field name	Original value	Edited value
BIOS date	09/16/05	09/16/02

Restore original report Close

7.17.3. Restore reports

The original report can be restored by pressing the **Restore original report** button. Pressing the **Restore original report** button will open the following dialog:



Pressing **Ok** will restore the original report (the edited report will be destroyed), **Cancel** exits the screen and will cancel the action.

7.18. Report icon – Original / Edited

This icon shows whether the report has been edited or not. If the report is in its original unedited state, the icon will look like this:



If the report has been edited, the icon looks like this:

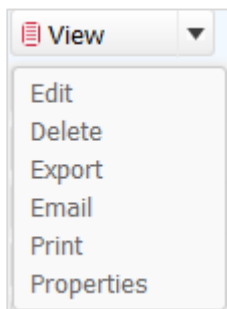


7.19. View button

Most of the functionality described above can also be accessed via the View button menu. This button is located in the third column from the left, right after the checkbox and the Original/Edited report-columns.



When the down-arrow in the right corner of the View button is pressed, the menu will open. It contains the following functionalities:



7.19.1. View

Opens the report for viewing in a new tab or as a pop up-window (depending on the browser). Make sure your browser doesn't block pop ups from the BMC, as this can sometimes interfere with the viewing of the report.

7.19.2. Edit

Edit this report. See the [7.15 Edit report\(s\)](#) subchapter for more information.

7.19.3. Delete

Delete this report. See the [7.14 Delete reports](#) subchapter for more information.

7.19.4. Export

Export this report. See the [7.9 Export reports](#) subchapter for more information.

7.19.5. Email

Email this report. See the [7.12 Email reports](#) subchapter for more information.

7.19.6. Print

Print this report. See the [7.13 Print reports](#) subchapter for more information.

7.20. Report pagination

The report pagination will allow browsing through the report list.

-  will display the first page
-  will display the previous page
-  will display the next page
-  will display the last page

The amount of pages will be shown in the pagination widget. It is also possible to jump to any page by inputting the page number in the textbox and pressing the "Enter" key.

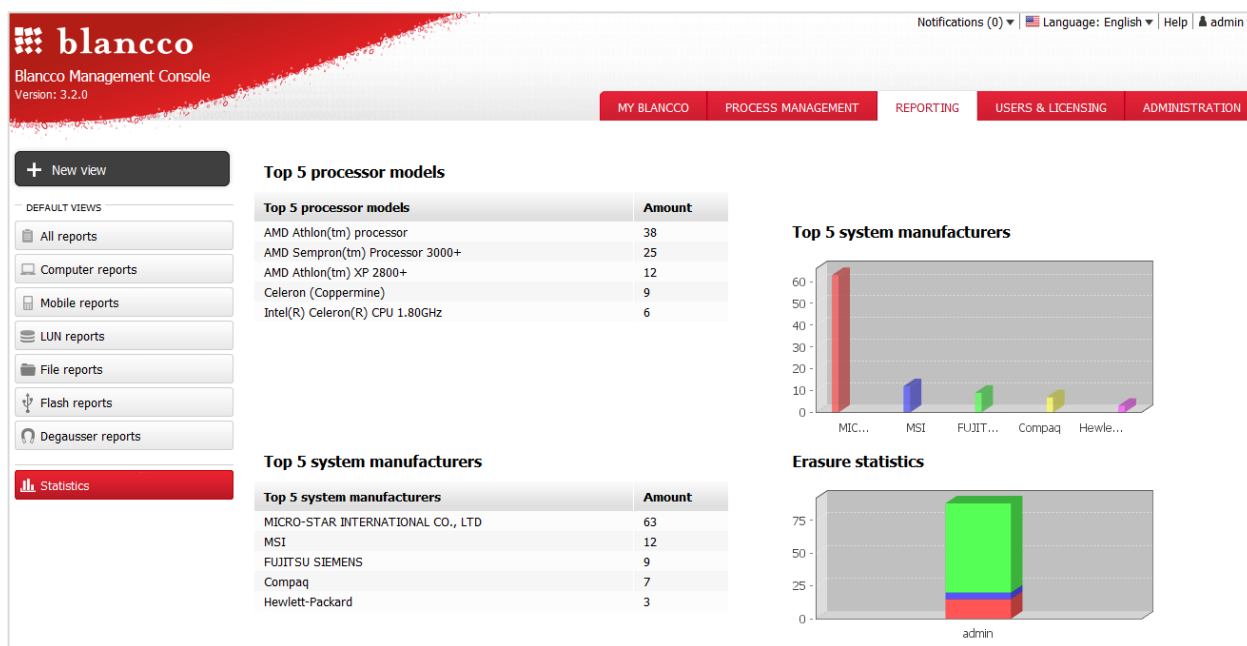
7.21. Reports per page

The reports per page setting will allow up to 100 reports to be displayed on one page.

- The **Auto** option will display as many reports as possible on the screen.
- The **10, 25, 50, 100** options will display respectively 10, 25, 50 and 100 reports on the screen.

7.22. Statistics

This view shows different statistics of the data collected from the reports.



Name	Description
Top 5 processor models	Displays the top lists of processors and the amount of reports.
Top 5 system manufacturers	Displays the top lists of processors and the amount of reports.
Reports statistics	Displays the amount of reports received in the BMC, imported, exported, deleted to/from the BMC for each user.
Erase statistics	Displays the amount of successful, failed erasures and erasures completed with exceptions for each user.
License consumption statistics	Displays the amount of licenses consumed.
System Manufacturers chart	Displays the statistics of system manufacturers graphically.
Report statistics chart	Displays the erase statistics graphically.

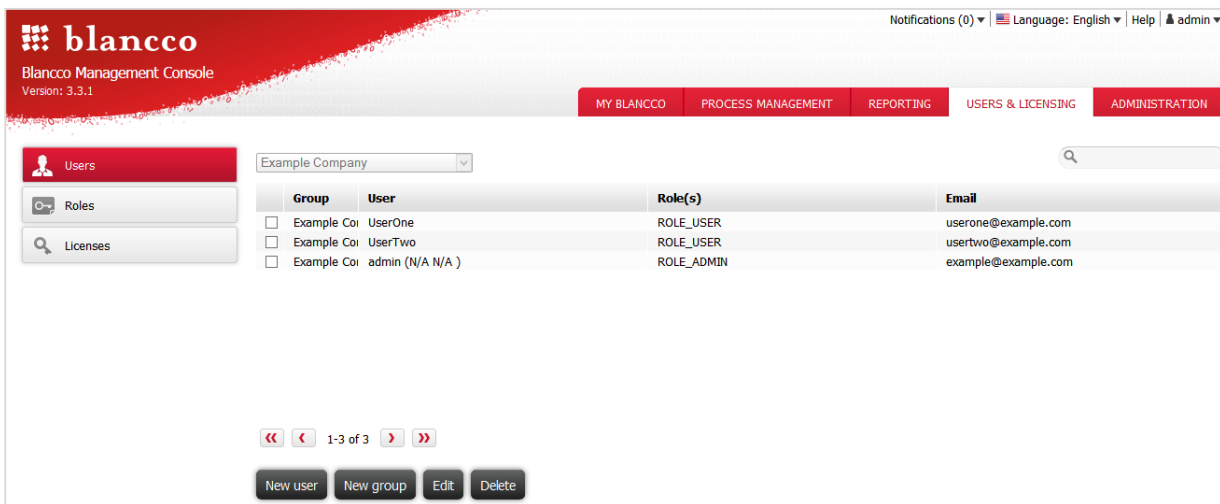
8. USER & LICENSING TAB

This tab is used to manage users, user roles and licenses. Buttons on the left side are used to list users, roles and licenses. An example of managing users, licenses and groups can be found in the [Appendix](#).

8.1. Users

This view is used for managing users and groups.

The list shows the following information on each user and group: "Group" – name of the group, "User" – login name and the name of the user, "Role(s)"- what role(s) user has and "Email"- email address of the user. In the top left corner of the list there is a dropdown menu which can be selected if the listing is done by group or name.



Notifications (0) | Language: English | Help | admin

MY BLANCCO | PROCESS MANAGEMENT | REPORTING | **USERS & LICENSING** | ADMINISTRATION

Users | Roles | Licenses

Example Company

Group	User	Role(s)	Email
☐ Example Cor	UserOne	ROLE_USER	userone@example.com
☐ Example Cor	UserTwo	ROLE_USER	usertwo@example.com
☐ Example Cor	admin (N/A N/A)	ROLE_ADMIN	example@example.com

<< < 1-3 of 3 > >>

New user New group Edit Delete

8.1.1. Create new user/group

New users and groups can be created by clicking the “New User” or “New group” buttons. This brings up the following window:

Create new group

Group attributes:

GROUP NAME:*

Example

GROUP DESCRIPTION:

Example Company

GROUP REPORTS

☐ Share reports between users of the same group

Group administrator account:

EMAIL:*

user@example.com

LICENSES:*

Shared licenses

Individual licenses

Example

USERNAME:*

FIRST NAME:

LAST NAME:

User

PASSWORD:*

••••••••

RE-TYPE PASSWORD:*

••••••••

USER ROLE(S):*

☒ ROLE_ADMIN

☐ ROLE_GROUPADMIN

☐ ROLE_USER

ACCOUNT STATUS:

☒ Active

Save

Cancel

It should be noted that, once a user has been created and assigned to group, that user cannot be reassigned to a different group.

The “New user” and “New Group” windows contain the following fields. Some fields are the same for both windows, thus both are explained in the following table:

Name	Example	Description
Group attributes:		
Group name	<i>Example com</i>	Name of the group.
Group description	<i>Example company</i>	Description of the group.
Group reports	<i>On or off</i>	If this is on, all reports will be shown from everyone who belongs to this group. If it is off, then reports will be only shown by individuals.
Group administrator account:		
Email	<i>user@example.com</i>	Email-address of the group’s administrator or user.
Licenses	<i>Individual licenses or Shared licenses</i>	License type. See “ License Distribution ” section for more details.
User ID	<i>admin</i>	User ID of the group’s administrator or user.
First name	<i>John</i>	First name of the group’s administrator or user.
Last name	<i>Doe</i>	Last name of the group’s administrator or user.

Password	<i>StrongPassword</i>	Password for the group administrator's or user's account.
Re-type password	<i>StrongPassword</i>	Password confirmation for the aforementioned account.
User role(s)	<i>On or off</i>	Roles for the group can be selected under this. Group or user can have multiple roles.
Account status	<i>On or off</i>	Will show if the group or user has been activated or not. If the user/group is not active, login to Blancco Management Console will not be possible nor can anything else be done within BMC.

8.1.2. License distribution

There are two types of licenses that can be used when creating a user or group. "Shared licenses" means that the user or group has access to all the licenses available from the managing account. "Individual licenses" means that licenses are assigned individually. Licenses can be configured by clicking the "[Details](#)" options. In order to assign licenses, expand the "[Details](#)" option, and select the desired product from the list and fill in the amount of licenses to be assigned.

If the managing account has 100 licenses and the administrator gives the two users under it "Shared licenses" access to these licenses, every time these two users use licenses they will be deducted from the 100 licenses the managing account has. So if one user uses 10 licenses and the other user uses 15 licenses, then the total amount of licenses the managing account has will be reduced to 75 ($100-15-10=75$).

If the managing account has 100 licenses and the accounts administrator decides to distribute them by giving one user 30 licenses with "Individual licenses" access then the managing account would have 70 licenses available ($100-30=70$).

The screenshot below shows how licenses are distributed by a managing account if "Individual licenses" access to licenses is given to the user. In the picture, the user has been only given access to 44 (out of 194) Blancco Server Edition licenses:

Create new user

EMAIL:*

exampleuser@example.com

GROUP:*

Example Company

LICENSES:*

Individual licenses

▼ License Details

Product name	Assigned licenses	Total licenses
Blancco Demo	0	[100]
Blancco Asset Manager / Blancco 5 Asset	0	[100]
Blancco PC Edition / Blancco 5	0	[285]
Blancco Server Edition	0	[200]

USERNAME:*

FIRST NAME:

LAST NAME:

PASSWORD:*

RE-TYPE PASSWORD:*

USER ROLE(S):*

☐ ROLE_ADMIN

8.1.3. Edit existing user/group

Editing existing users/groups is possible by selecting the user/group and clicking the "Edit" button.

8.1.4. Remove existing user/group

Clicking the "Remove" button deletes the selected user/group.

Note! The default user (user created when setting up the Blancco Management Console) cannot be removed.

8.1.5. Sort users per group

The dropdown menu just above the Group-column is used to sort users by the group they belong to. "All groups", which is the default value, shows all the groups. Other groups are added below this list as they are created. In the picture below, if group "Group 1" was selected, only the users belonging to "Group 1" would be listed.

All groups

All groups

Example Company

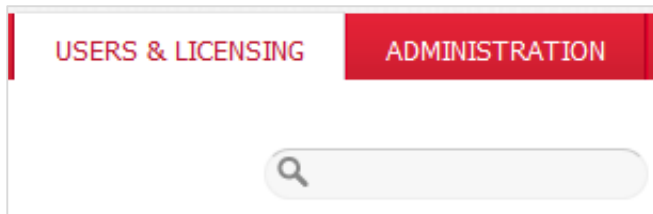
Group 1

Group 2

☐ Example Coi
 UserTwo

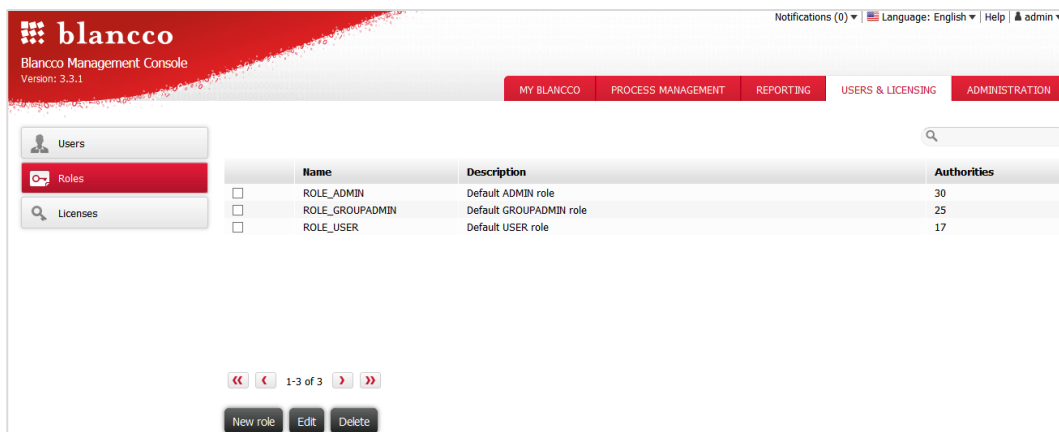
8.1.6. User/group quick search

The quick search allows quick filtering of users and/or groups within the active view. Searching for the term "Smith" would give all the users which have the word "Smith" in them and also "Smithsonian", "Blacksmith", "Greensmiths", "Joe Smith", "Smith-group", etc...



8.2. Roles

This view is used for managing roles.



The list has the following fields: "Role name" – name of the role, "Description" – description of the role, "Authorities" – number of rights the role has been authorized to use

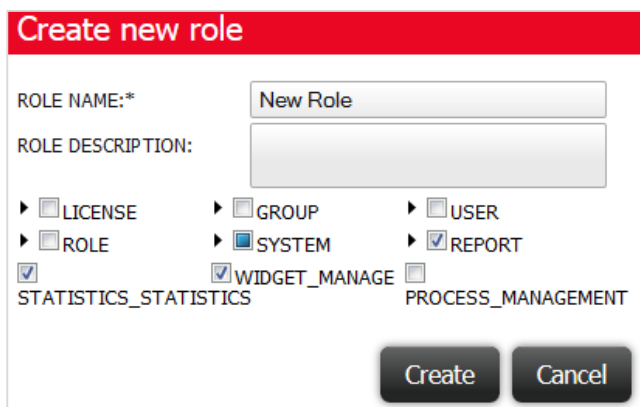
8.2.1. Default roles

There are 3 default roles, "ROLE_ADMIN", "ROLE_GROUPADMIN" and "ROLE_USER".

Name	Description
ROLE_ADMIN	Used for the top user (created during installation). This user has full control of the Blanco Management Console.
ROLE_GROUPADMIN	Should be used when creating groups.
ROLE_USER	Should be used when creating users. Users will have limited access to the Blanco Management Console (e.g. will not be able to create sub-users, and will not have access to license activation ...)

8.2.2. Create new role

The "New Role" button opens the following window:



The "Role name" field is mandatory. Underneath is the "Role description" field which can be filled in with a description of the role.

The rights (also called authorities) are listed below the description. They are organized in the categories listed in the table below.

Available authorities are as follows:

Category	Available authorities
Group	"Create", "Delete" and "Edit"
License	"Activate", "Consume", "Export" and "View"
Process	"Management"
Report	"Create", "Delete", "Email", "ExportCSV", "ExportPDF", "ExportXML", "Import", "Print" and "View"
Statistics	"Statistics"
System	"Configuration" and "Login"
User	"Create", "Delete", "Edit", "List", "Role_Create", "Role_Delete" and "Role_Edit"
Widget	"Customize_widget"

Click "Create" to create the new role or "Cancel" to cancel all the changes and exit from this window without saving.

Note! When using the external authentication (LDAP), the role name must be formatted in the following way: **ROLE_securityGroupName**, where "securityGroupName" is the name of the security group you want to link to the role. The prefix "ROLE_" is mandatory.

E.g. in order to link the security group "BMC-Erasure-Operators" to a role in BMC, the role name must be the following: **ROLE_BMC-Erasure-Operators**.

8.2.3. Edit existing role

Editing an existing role is possible by selecting the role and clicking the "Edit" button.

Click the "Save" button to save the settings and exit the window. Click "Cancel" to exit the window without saving any changes.

8.3. Licenses

This view is used for license management.

Product name	Available licenses to use or assign	Already assigned licenses	Total licenses	Expiration date
Blanco Demo	100	0	100	2014-12-31 22:00
Blanco Asset Manager / Blanco S.A.	98	0	98	2014-12-31 22:00
Blanco PC Edition / Blanco 5	235	0	235	2014-12-31 22:00
Blanco Server Edition	200	0	200	2014-12-31 22:00
Blanco HMG	200	0	200	2014-12-31 22:00
Blanco Mobile	100	0	100	2014-12-31 22:00
Blanco Data Centre Edition	100	0	100	2014-12-31 22:00
Blanco File	100	0	100	2014-12-31 22:00
Blanco Flash	100	0	100	2014-12-31 22:00
Blanco SPARC	100	0	100	2014-12-31 22:00
Blanco Management Console for Lin	1	0	1	2014-12-31 22:00
Blanco Management Console for Win	1	0	1	2014-12-31 22:00
Blanco PC Edition (per HDD)	100	0	100	2014-12-31 22:00
Blanco Server Edition (per HDD) / B	299	0	299	2014-12-31 22:00
Blanco HMG (per HDD)	200	0	200	2014-12-31 22:00
Blanco Mobile Reset & Report	100	0	100	2014-12-31 22:00
Blanco Data Centre Edition (per HDD)	100	0	100	2014-12-31 22:00
Blanco LUN	100	0	100	2014-12-31 22:00
Blanco SPARC (per HDD)	100	0	100	2014-12-31 22:00
Blanco Data Centre Edition (per GB)	119	0	119	2014-12-31 22:00

The dropdown menu in the top left corner of the list will be selected if the user's licenses are shown (My licenses) or the licenses in the container are shown (Container).

The listing has the following fields: "Product name"- the name of the product the license is for, "Licenses remaining"- number of remaining licenses and "Expiration date" - the last day the licenses can be used.

8.3.1. License synchronization

All license information is stored in two locations: in the license container (HASP) and in the MC's database. If the license information in the container is changed and the same change has not been applied to the database, the license information will become **unsynchronized**. In this situation, **synchronization** must be done. **Synchronization** will fix any inconsistencies between the database and container license information.

Synchronization will be done when:

- Management Console Service has been started/restarted.
- License(s) have been activated.
- The **Synchronize** button has been clicked.

The date and time of the last synchronization will be shown under the **My licenses** dropdown menu. The **Synchronize** and **Force synchronization** buttons are located next to **My licenses**:

My licenses ▼ Synchronize Force synchronization

Last synchronization at 2014-05-28 08:53:12

If this unsynchronization affects assigned licenses, then the license information may become **conflicted**. The **Force synchronization** button will be activated only when there are conflicting products after synchronization has been done, but no unsynchronized licenses.

My licenses ▼

Synchronize

Force synchronization

Last synchronization at 2014-05-28 11:48:43

In the screenshot below, **Blanco Server Edition** and **Blanco Mobile** licenses are in a conflicted state. The conflicted licenses are highlighted in *red and italics*.

Product name	Available licenses to use or assign	Already assigned licenses	Total licenses	Expiration date
Blanco Demo	0	0	0	2014-07-01 02:00
Blanco Asset Manager / Blanco 5 Asset	7	0	7	2015-01-01 01:00
Blanco PC Edition / Blanco 5	1009	0	1009	2017-01-01 01:00
<i>Blanco Server Edition</i>	<i>4</i>	<i>990</i>	<i>994 (Licenses available in container: 94)</i>	<i>2015-01-01 01:00</i>
Blanco Stealth (Activation&Licensing)	10	0	10	2014-10-01 02:00
<i>Blanco Mobile</i>	<i>7</i>	<i>180</i>	<i>187 (Licenses available in container: 87)</i>	<i>2015-01-01 01:00</i>
Blanco Flash	7	0	7	2015-01-01 01:00

8.3.1.1. Synchronization (unsynchronized licenses)

Licenses may become unsynchronized if any of the following situations occurs:

1. The container (HASP dongle) has been removed from the MC-server.
2. The license information on the container has been modified.
3. The container has been plugged back into the MC-server.

To synchronize the license information, the "Synchronize" button should be pressed or the MC-service restarted (which will also synchronize the licenses).

8.3.1.2. Forced/Manual synchronization (unsynchronized & conflicted licenses)

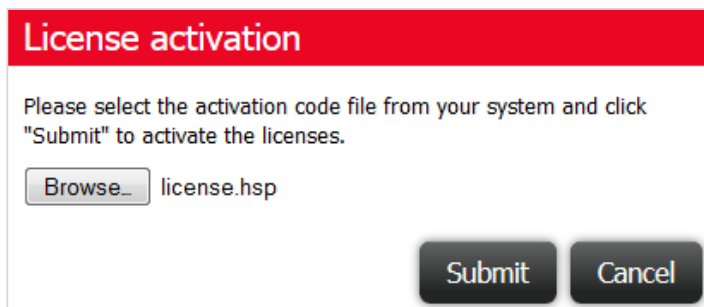
1. The container (HASP dongle) has been removed from the MC-server.
2. The license information on the container has been modified.
3. The container has been plugged back to the MC-server.
4. Licenses will be synchronized either by pressing the "Synchronize" button or by restarting the MC-service.
5. The conflict will affect licenses which are already assigned.
 - a. The conflicted licenses will be highlighted in red and italics.
 - i. *Example License*
6. To resolve the situation, manual synchronization will be required. This can be done in two different ways:
 - a. Using the "Force synchronize" button.
 - b. Manually editing the assigned licenses of any of the affected users. Synchronization must be done after this.

The **Force synchronization** of conflicted products will reset the amount of assigned licenses for the users (apart from root admin) to 0. This will only affect the users and products affected by the conflicted licenses.

For an example where **Force Synchronization** is used, see chapter: [Example of Forced Synchronization](#).

8.3.2. License activation

To activate new licenses, click the "License activation" button and the following window will open:

A screenshot of a "License activation" dialog box. The title bar is red with the text "License activation" in white. The main area has a white background with the text "Please select the activation code file from your system and click 'Submit' to activate the licenses." Below this text is a file selection interface. It includes a "Browse..." button and a text field containing "license.hsp". At the bottom right of the dialog are two buttons: "Submit" and "Cancel".

License activation

Please select the activation code file from your system and click "Submit" to activate the licenses.

Browse... license.hsp

Submit Cancel

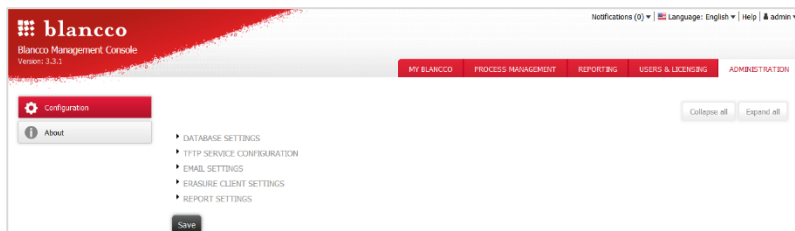
Click "Browse" and navigate to the license file and select it. The license file will be delivered by Blancco's tech support team or sales person. It is in .hsp or .txt format.

Click "Submit" and the licenses will be loaded into the Blancco Management Console.

After updating the licenses, the BMC service must be restarted in order to apply the changes. Please refer to the "[Restart BMC service](#)" section of the Appendix.

9. ADMINISTRATION TAB

This page is used for system configuration settings.



In the upper right corner are the "Expand all" and "Collapse all" buttons which are used to expand or collapse all of the menus on this page.

9.1. Configuration

The configuration-section is used to modify some settings Blancco Management Console uses.

The "Save" button at the bottom must be clicked for the changes to apply.

9.1.1. Database settings

All database related information is displayed here:

Name	Description
Database	Which database is used (Embedded, MySQL...).
Database host	Which server the database is located on.
Database port	The port which BMC uses to communicate with the database.
Database name	Name of the database.
User name	User name for the database.

9.1.2. TFTP Service Configuration

By choosing the "enable TFTP Service", the internal TFTP server will be turned on. This enables, among other things, remote management of Blancco Management Console's and erasure client's reports. This also enables the PXE booting possibility after the system has been set up correctly. Examples for setup are in the [Installation path]\tftp folder.

Name	Description
Enable tftp service	The TFTP service is turned on.
Port	Port the TFTP service uses.
Read folder	Where the TFTP service reads data.
Write folder	Where the TFTP service writes data.
Mode	Which mode the TFTP service is on. Options are "GET_ONLY" – read only, "GET_AND_PUT" – read and write mode and "PUT_ONLY" write only.
Timeout	Timeout time in milliseconds.
Max timeout retries	How many times a retry is made if a timeout happens.

For more information about setting PXE-booting, see "[Using PXE-boot](#)" section of the appendix.

9.1.3. Email Settings

Email settings for Blancco Management Console to use.

Name	Description
Mail server host	Mail server address.
Username	Username for the mail server.
Password	Password for the mail server.
Email server port	Port used for the email.
Email protocol	Protocol used for email.
Email sender	What is written in the sender field.
Email subject	What is written in the subject field.
Test email address	Test email address for testing the email sending.
Test connection	Click this button to test the email sending.

9.1.4. Erasure Client Settings

Erasure client related settings.

Name	Description
Session expiration	Session timeout for erasure clients. Default value is 1440 minutes.

9.1.5. Report Settings

Report related settings.

Name	Description
Report mode	"Original reports" – original reports are shown in default report views. "Edited reports" – edited reports are shown in default report views.

9.2. About

The About-section contains information about the application.

9.2.1. Application information

Application and Java properties are displayed here:

Name	Description
Application name	Name of the application (Blanco Management Console is the default value).
Application version	Version of the software used.
Application revision	Revision of the application.
Java vendor	Vendor of the Java used in the machine running the BMC.
Java version	Version of the Java used in the machine running the BMC.

10. UNINSTALLATION

If there is a need to uninstall the BMC, make sure that you have backed up all data that you want to keep (e.g. erasure reports, log files ...).

10.1. Back up important data

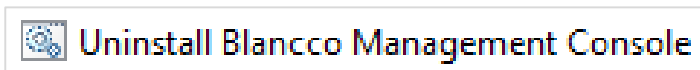
In order to be sure that you do not lose any important data after uninstalling the BMC, copy the whole Blancco Management Console folder, and also the database used to a secure (external) location (e.g. shared folder, external USB memory or HDD). Backing up the database might require the use of Database software specific tools. Please read the relevant user manual to perform this action.

10.2. Run the uninstall script

10.2.1. Windows OS

Uninstall the BMC by clicking the "Uninstall Blancco Management Console" shortcut. The shortcut can be found by clicking "Start" icon -> "All Programs" -> "Blancco" -> "Blancco Management Console" -> "Uninstall Blancco Management Console".

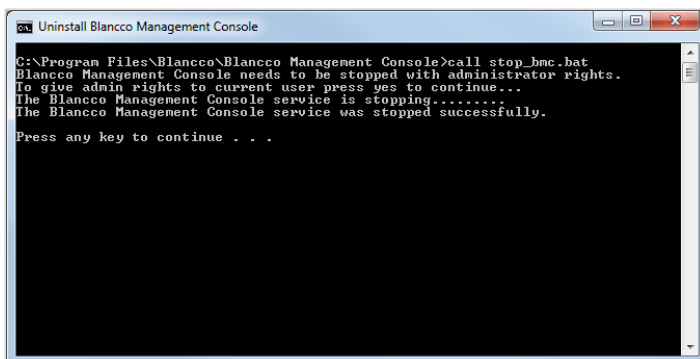
Important : Make sure to run the uninstaller with Administrator-rights, e.g. right-click "run as Administrator".



A command prompt window appears on the screen.

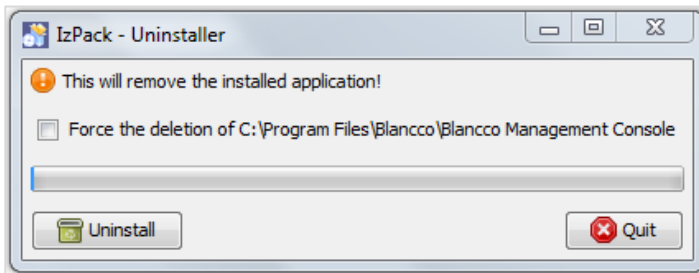
Wait until the following message is displayed on the screen:

"The Blancco Management Console service was stopped successfully. Press any key to continue..."



Press any key (e.g. "Enter" or "Space" key).

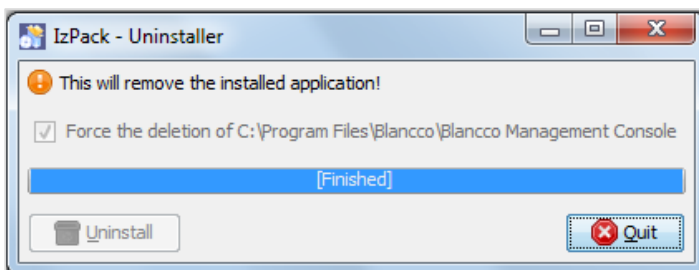
The command prompt window will automatically close and the following window will be displayed.



If you wish to remove the contents of the installation folder, select the "Force the deletion of ..." option.

Click the "Uninstall" button to process with the uninstallation.

Note! Uninstalling BMC might take several minutes.



The uninstallation has finished. Click "Quit" to close the "Uninstaller" window.

10.2.2. Linux OS

To uninstall the BMC on Linux operating systems, first open a terminal (command prompt).

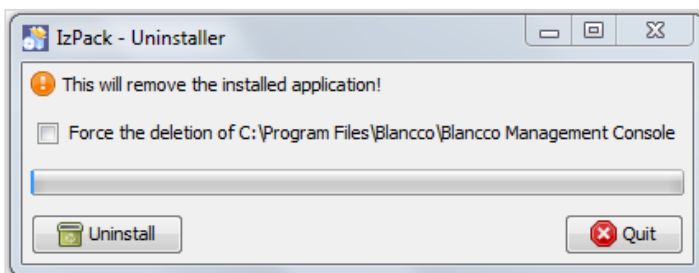
Run the following command as "root":

java -jar [Installation path]/Uninstaller/uninstaller.jar

Example:

```
# java -jar /usr/local/BMC/Uninstaller/uninstaller.jar
```

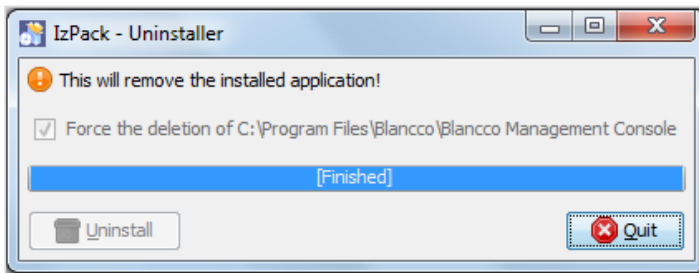
The following windows will be displayed.



If you wish to remove content of the installation folder, select the "Force the deletion of ..." option.

Click the "Uninstall" button to proceed with the uninstallation.

Note! Uninstalling BMC may take several minutes.



The uninstallation now been completed. Click "Quit" to close the "Uninstaller" window.

10.3. Clean up the installation folder

After the uninstallation has completed, the BMC installation folder may still need to be removed. Locate the folder (usually under C:\Program Files\Blanco\) and remove it.

11. TROUBLESHOOTING

11.1. Common problems

Problem	Solution
User is not able to login to BMC with a user belonging to the security group that is linked to the "Administrator role"	Try entering the username in ALL CAPS.
"HTTP 404, The requested resource () is not available"	Error is caused by the database service starting after BMC service. Restarting the BMC service will solve this issue. In Windows, changing the startup type of the service to "Automatic (delayed Start)" will help prevent this issue. In Linux, services are started in a pre-defined order; make sure that the BMC service is set to start after the database service.
MC 3 has started, but licenses are not detected ("HASP is not reachable. Please connect HASP USB dongle to the server.")	Connect the license dongle to the computer and restart the BMC 3 service. It is recommended to always connect the HASP key at the moment when the BMC service is started. If restarting the service does not help, the user can also test connecting the HASP key to another USB port and try restarting the service again. To restart the BMC service, please refer to the " Restart BMC service " section of the Appendix.
MC 3 has started, but the user cannot login ("UserDetailsService returned null, which is an interface contract violation")	This issue happens when the database service is stopped and BMC 3 cannot verify user credentials. Make sure that the database service is started.
MC 3 has started, but reports are not displayed ("Server error while fetching reports")	This issue happens when the database service has stopped and BMC 3 cannot fetch report information. Check the database connectivity and if necessary restart the database service.
Windows server: When starting the BMC service, a Java related error message is shown usually referring to something related to Java, which is missing.	Double-check that Java JRE has been installed correctly. Start -> Run -> cmd -> java -version. If an error message is displayed, Java has not been installed or is not running correctly.
Blancco Erasure Software informs that no licenses are available to use the product.	Double-check that the account used for erasure has access to the licenses and that there actually are correct licenses available on the HASP key. Also check that the licenses are valid: Users & Licensing -> Licenses -> See that there are licenses left and that they are valid. Users & Licensing -> Users -> Edit the user account used for erasures -> Either select "Shared licenses" option or assign licenses manually by clicking "details". If using a custom-created role, make sure that the role has License-consume-, -export and -view rights available.
Windows server: Blancco Management Console login page is not	Make sure that the BMC service has started and it is running correctly. Run "Start Blancco Management Console" with local administrator level rights. After this, check that the service has been started correctly: Start -> Programs -> Administrative Tools -> Services -> Blancco Management Console -> Started.

displayed. Only a browser error message is shown.

11.2. General Troubleshooting

Blanco log files are in the folder **[Installation path]\logs**. Usually this location is:

In Windows: [Installation path]\logs\

In Linux: [Installation path]/logs

11.3. Log Files

Blanco Management Console creates the following log files:

Name	Description
mc_communication.log	Erasure control activity, communication specific logging.
mc_libraries.log	External libraries activity, logging the actions from tools used (Spring, Hibernate etc...).
mc_main.log	General activity, non-specific logging.
mc_repository.log	Backend activity, data storage specific logging.
mc_scheduled_tasks.log	Activity related to scheduled tasks.
mc_service.log	Functional activity, action specific logging.
mc_ui.log	User interface/client side event activity logging.

11.3.1. Enabling Debug-mode (for advanced users only)

When BMC is in the debug-mode, every action will be written in the log-files. Normally only errors are written there. **Only enable the debug-mode, if it is absolutely necessary.** When the debug-mode is on, complete the error generating action and then turn the debug-mode off.

Edit the file a called **"log4j.properties"** located at:

[Installation path]\apache-tomcat\webapps\ROOT\WEB-INF\classes\

Find the following line: **LOGLEVEL=ERROR**

Change it to: **LOGLEVEL=DEBUG**

Save Changes and Restart the BMC (to restart the BMC, please refer to the "[Restart BMC service](#)" section of the manual..

11.3.2. Changing the maximum log-file size

As the debug-mode can fill the log-files rather quickly, the log file's maximum size and backups can be configured in the following way:

To edit the log-files maximum size, edit the aforementioned file **"log4j.properties"** and find the line: **logging.max_filesize=1024KB**

The default maximum size is 1 megabyte/1024 kilobytes, as shown above. To change the maximum size, change the number before KB, for example a 10 megabyte file would be:
logging.max_filesize=10240KB

11.3.3. Backing up log files

Normally when the maximum file size is reached, the content of the log-file will be deleted and any new entries started from the beginning. Blanco Management Console can make a backup of the log files, so that whenever the maximum size for a log-file is reached, the current file will be copied into a backup file.

To turn the backup-feature on, open the aforementioned file "**log4j.properties**" and find the line:

logging.max_backupindex=0

"0" means that the backup-feature is off. "1" means that the feature is on and one backup file will be kept. "2" means that the feature is on and two backup files will be kept, etc. The naming of these files follows the following convention:

logfilename.log (current)

logfilename.log.1 (newest backup)

logfilename.log.2 (second newest)

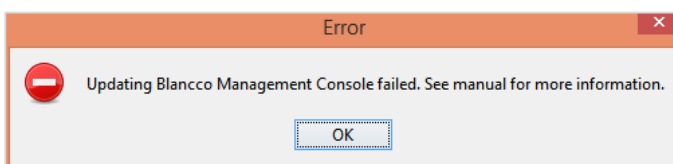
...

When the current log-file has reached its maximum size, it will be copied into the backup file *".log.1"*. This backup will in turn be copied into *".log.2"*, etc... The oldest backup will be overwritten with the content of the second oldest backup.

If the "logging.max_backupindex" would have a value of 15, then the oldest backup-file's name would end in *".log.15"*.

11.4. Database error during Update

When the "Next" button has been pressed after the updating of the files and drivers has been completed, the following error message will appear if there are problems with the database:



Here are some possible scenarios, which might result this error:

- Connection to database fails.
 - Credentials are incorrect.
 - Database services are not running.
 - Network connection issue.

- Other errors.
 - Privileges are insufficient for necessary alterations to the database.
 - Changeset execution fails in the database. In this case, the database might end up corrupted.
- Java 32-bit + Embedded database.
 - By default 32-bit Java does not reserve enough memory and loading Embedded database to memory fails.
 - See [Changing JRE memory allocation](#) or try changing the Java installation to 64-bit version.

These errors will be shown, when the update is ran through the command line:

```
java -jar <install package name>.jar
```

If no solution to the problem is found, contact Blancco support.

11.5. Contacting Support

If the problem persists, please compress these logs into an archive package (e.g. zip file or rar file) and fill out the support form at Blancco's support portal (<http://support.blancco.com/>- "Submit a Ticket") with a detailed description of the problem. Add the logs as an attachment. For contact information, please view the "Contact Information" page.

12. APPENDIX

12.1. Database Maintenance

The standard database maintenance processes should include the following:

- Monitoring the growth of the log file and compacting the database log file, as needed.
 - Please see the documentation for the database regarding appropriate log file sizes and log file management.
- Scheduling regular backups of the database.
- Backing up the database before any Blancco Management Console update

The database used to store the reports should be maintained to keep the Blancco Management Console running smoothly. A correctly maintained database will be much more stable than an unmaintained one.

For more information about the databases and how to maintain them (appropriate log file sizes and log file management), please see the documentation for the database.

12.1.1. MySQL users

If a MySQL database older than 5.5 is used, make sure that the default storage engine is set to **InnoDB**. If the default storage engine is different, please change it to **InnoDB**.

If MySQL 5.5 or later version is used, this won't necessary as version 5.5 (or newer) already uses InnoDB as the default engine.

12.2. Installing HASP-drivers in Linux

- a. After the installation finishes do not start the services (un-tick the box "Start Blancco Management Console service").
- b. Install the HASP-driver found under BMC installation folder
"[Installation path]/drivers/hasp/linux/"
- c. [Start BMC service.](#)

12.2.1. Requirements for 64bit OS

If BMC is installed on a 64 bit Operating System, then the following library needs to be installed in the system: ***glibc.i686***

12.2.2. Redhat based distributions

This applies for Redhat, CentOS and Fedora.

Within the installation folder, execute the following command:

```
# sudo rpm -ivh drivers/hasp/linux/HASP_SRM_LINUX_3.50_RedHat_RPM_Run-time_Installer/aksusbd-redhat-1.14-3.i386.rpm
```

12.2.3. Debian based distributions

This applies for Ubuntu and Debian.

Within the installation folder execute the following command:


```
# sudo dpkg -i
drivers/hasp/linux/Sentinel_HASP_Ubuntu_DEB_Runtime_Installer/aksusbd_1.16-1_i386.deb
```

On 64-bit Operating Systems, the “--force-architecture” parameter must be used in order to install the drivers successfully.

```
# sudo dpkg -i --force-architecture
drivers/hasp/linux/Sentinel_HASP_Ubuntu_DEB_Runtime_Installer/aksusbd_1.16-1_i386.deb
```

12.2.4. SUSE based distributions

This applies for Suse and openSUSE.

Within the installation folder, execute the following command:

```
# sudo rpm -ivh drivers/hasp/linux/HASP_SRM_LINUX_3.50_SUSE_RPM_Run-time_Installer/
aksusbd-suse-1.14-3.i386.rpm
```

12.2.5. Additional steps

For Ubuntu 12.04, Fedora 17 and openSUSE 12, the following steps need to be executed in order to detect the HASP key.

```
# sudo mount --bind /dev/bus /proc/bus
# sudo ln -s /sys/kernel/debug/usb/devices /proc/bus/usb/devices
# sudo /etc/init.d/aksusbd restart
```

These steps need to be executed every time the system is started (following a shutdown or restart).

For Ubuntu 12.04 (and higher) and Debian, the following solution also exists in order to detect the HASP key. Edit the file “**/etc/udev/rules.d/80-hasp.rules**”, and replace the string “SYSFS” by “ATTRS” as shown below in yellow.

```
/etc/udev/rules.d/80-hasp.rules
# HASP udev rules
ACTION=="add", SUBSYSTEM=="usb", ENV{DEVTYPE}=="usb_device", ATTRS{idVendor}=="0529",
ATTRS{idProduct}=="0001", MODE="664", ENV{HASP}="1", SYMLINK+="aks/hasp/%k",
RUN+="/usr/sbin/aksusbd -c $root/aks/hasp/$kernel"
ACTION=="remove", ENV{HASP}=="1", RUN+="/usr/sbin/aksusbd -r $root/aks/hasp/$kernel"

# Compatibility rule for kernel previous 2.6.22
ACTION=="add", SUBSYSTEM=="usb_device", PHYSDEVBUS=="usb", SYSFS{idVendor}=="0529",
SYSFS{idProduct}=="0001", MODE="664", ENV{HASP}="1", SYMLINK+="aks/hasp/%k",
RUN+="/usr/sbin/aksusbd -c $root/aks/hasp/$kernel"
# eof
```

Save the file, restart the HASP services as well as BMC service, as shown below:

```
# sudo /etc/init.d/aksusbd restart
# sudo /etc/init.d/BMC restart
```

12.3. Checking HASP-connectivity

To check if your machine detects the HASP-dongle correctly or not, follow the steps below:

- Make sure that the HASP-dongle is connected to the machine.
- Open your browser and go to the address “http://localhost:1947”.
- Safenet’s “Sentinel Admin Control Center” page will open.
- Click on the “Sentinel Keys” in the left corner.
- If you can see your HASP-dongle on the list, the key is correctly detected by the machine.

12.4. Erasure verification

The Blancco 5 users can select the level of verification of the erasure. The verification process reads data at identical intervals across the whole drive's surface and makes sure that the erasure's overwriting patterns were written correctly. The minimum verification corresponds to checking 1% of the surface of the drive (fastest process), while the full verification corresponds to checking 100% of the surface of the drive (slower process).

Taking samples at identical intervals across the drive's surface will efficiently detect any problems in the erasure, while being faster than reading all the overwritten data. The Blancco 5 users can increase the level of verification from the default 1% all the way up to 100% (full verification) when a higher level of security is required. If the verification finds any data left on the drive (overwriting patterns are missing), it will alert the user that the erasure process has failed.

A systematic verification step will always be enforced after the last overwriting pass.

In previous versions of the erasure client (up to version 5.3.2), two options are available: quick and full (corresponding respectively to 20% and 100% of verification).

12.5. Changing the SSL Certificate in Tomcat

By default, Blancco Management Console comes with a self-signed certificate installed. The following steps are needed to change the certificate to a different one:

12.5.1. Installing the Certificates to the Keystore

Obtain the certificate file from a Certificate Authority or create your own self-signed certificate. NOTE: If you are purchasing the certificate from a Certificate Authority (e.g. Thawte, VeriSign), you can follow their certificate installation guides for Tomcat.

Type the following command to install the certificate file to your keystore:

```
keytool -import -trustcacerts -file your_certificate_file -keystore  
your_keystore_file.jks
```

You should receive a confirmation stating that the "Certificate reply was installed in keystore"

If you are asked about trusting the certificate, choose "y" or "yes".

Your keystore file (your_keystore_file.jks) is now ready for use on your Tomcat server and you simply need to configure your server in order to use it.

12.5.2. Configuring your SSL Connector

Open the Tomcat "server.xml" file in a text editor ([Installation folder]\apache-tomcat\conf\). Find the existing SSL connector that will be secured with the new keystore. Specify the correct keystore filename and password in your connector configuration. When you are done, your connector should look something like this:

```
<Connector executor="tomcatThreadPool"  
protocol="org.apache.coyote.http11.Http11Protocol" port="8443"  
SSLEnabled="true" scheme="https" secure="true" clientAuth="false"  
sslProtocol="TLS" keystoreFile="conf/your_keystore_file.jks"
```

```
keystorePass="your_certificate_password" acceptCount="500"
connectionTimeout="30000" compression="on" enableLookups="false"/>
```

Save your changes to the "server.xml" file. Restart Blancco Management Console. For instructions on how to restart the Blancco Management Console, please refer to the "[Restart BMC service](#)" section of the Appendix.

12.6. Changing the communication ports

By default, Blancco Management Console is set to use ports HTTP 8080 and HTTPS 8443 (unless otherwise modified during the installation of the BMC). It is possible to change those default ports by editing the Tomcat "server.xml" file.

The value to modify can be seen below:

```
<Connector URIEncoding="UTF-8" acceptCount="500" compression="on"
connectionTimeout="30000" enableLookups="false" executor="tomcatThreadPool"
port="8080" protocol="HTTP/1.1" redirectPort="8443"/>

<Connector SSLEnabled="true" URIEncoding="UTF-8" acceptCount="500"
clientAuth="false" compression="on" connectionTimeout="30000"
enableLookups="false" executor="tomcatThreadPool"
keystoreFile="conf/keystore.jks" keystorePass="mchammer" port="8443"
protocol="org.apache.coyote.http11.Http11Protocol" scheme="https"
secure="true" sslProtocol="TLS"/>

<Connector executor="tomcatThreadPool" port="8009" protocol="AJP/1.3"
redirectPort="8443"/>
```

Please save all of your changes to the "server.xml" file. Then restart Blancco Management Console. For instructions on how to restart the Blancco Management Console, please refer to the "[Restart BMC service](#)" section of the Appendix.

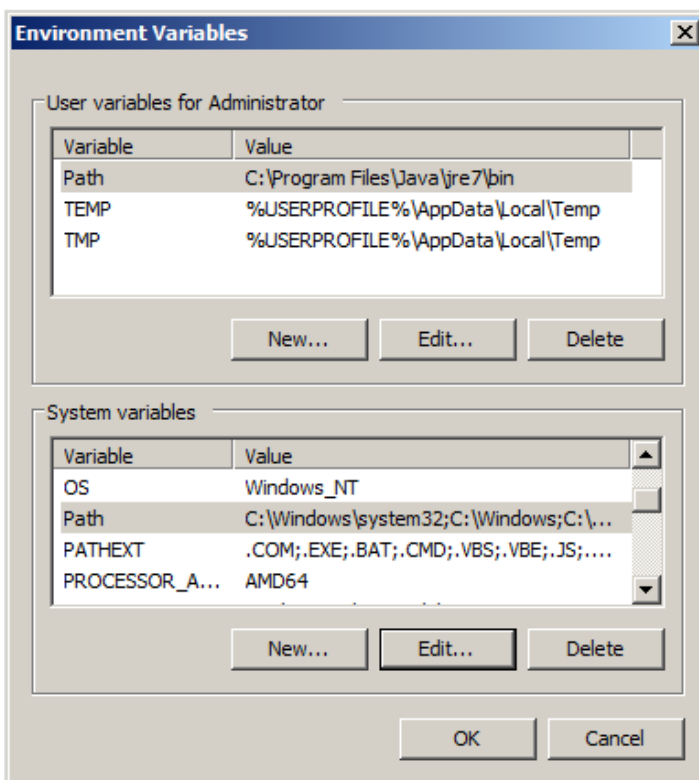
12.7. Configuring JAVA options

If you have problems executing the .jar installation package, complete the following steps (Windows-systems):

- Check that the Java Runtime Environment path has been added to the (Windows) operating system's environmental variables.
- Start menu -> Right-click "Computer" -> Properties -> Advanced System settings -> Advanced tab -> Environment variables... -> System variables -> Scroll down and double click on "Path".
or
- Start menu-> cmd -> write "path" and press the "Enter" key.**
- If there is no mention of Java, add the location of your JRE **\bin** and **\lib** folder to the path string. For example, add the following to the end of the path string: ;C:\Program Files (x86)\Java\jre7\bin; C:\Program Files (x86)\Java\jre7\lib

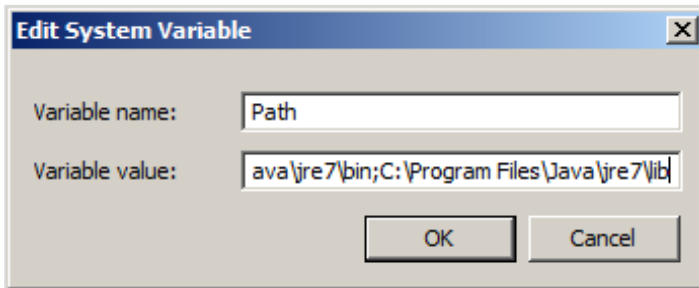
12.7.1. Add JRE path to the system environment variables

Click on "Start" menu -> Right-click on "Computer" -> Select "Properties" -> Select "Advanced system settings" -> Select the "Advanced" tab -> Click on "Environment variables..."



Scroll down in "System variables" and double click on "Path"

Add the following to the end of the path string: ;C:\Program Files (x86)\Java\jre7\bin;C:\Program Files (x86)\Java\jre7\lib



12.7.2. Changing JRE memory allocation

Java memory settings can be changed by editing the "wrapper.conf" file located in "[Installation path]\servicewrapper\yajsw\conf\" folder.

Values to modify are:

```
wrapper.java.additional.1.5 = -Xms256m  
wrapper.java.additional.1.6 = -Xmx1024m
```

Note!: Xmx value needs to be 4 times bigger than Xms value (e.g. if you have -Xms1024m, then you need to have -Xmx4096m)

Please restart the BMC service in order to apply the changes. See the "[Restart BMC service](#)" for detailed instructions.

12.8. System default report views

Report views have the following default fields shown:

12.8.1. All reports

Name	Description
Date	Date when the erasure was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the erasure (e.g. "Successful").
Disk serial	Serial number of the erased disk (e.g. "EC98L8F").
Disk capacity	Capacity (formatted) of the erased disk (e.g. "3926 MB").
Memory capacity	Capacity (formatted) of the memory (e.g. "2048 MB").
Product Name	Name of the Blancco software that was used (e.g. "Blancco 5").
Report verification	Verification status of the report ("true" or "false")

12.8.2. Computer reports

Name	Description
Date	Date when the erasure was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the erasure (e.g. "Successful").
Disk serial	Serial number of the erased disk (e.g. "EC98L8F").
Disk capacity	Capacity (formatted) of the erased disk (e.g. "3926 MB").
Memory capacity	Capacity (formatted) of the memory (e.g. "2048 MB").
Product Name	Name of the Blancco software that was used (e.g. "Blancco 5").
Report verification	Verification status of the report ("true" or "false")

12.8.3. Mobile reports

Name	Description
Date	Date when the erasure was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the erasure (e.g. "Successful").
Erasure standard name	Erasure standard used to perform the erasure (e.g. "HMG Infosec Standard 5, Lower Standard", "Factory reset" or "CDMA erasure")
Disk capacity	Capacity (formatted) of the erased disk (e.g. "3926 MB").
System manufacturer	Manufacturer of the mobile device (e.g. "Samsung").
System model	Model name of the mobile device (e.g. "GT-I9000").
Mobile identifier	Identifier of the erased mobile device (e.g. "IMEI:1983472192").
Mobile wireless operator	Name of the mobile wireless operator of the mobile device (e.g. "O2").
Operating system version	Version of the OS running in the mobile device (e.g. "iOS, 5.1.1").
Report verification	Verification status of the report ("true" or "false")

12.8.4. LUN reports

Name	Description
Date	Date when the erasure was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the erasure (e.g. "Successful").
Disk serial	Serial number of the erased disk (e.g. "EC98L8F").
Disk capacity	Capacity (formatted) of the erased disk (e.g. "3926 MB").
Disk vendor	Manufacturer of the erased disk (e.g. "Kingston").
Disk model	Model of the erased disk (e.g. "DataTraveler G3").
Erasure target path (File)	Target (path) of the erased disk (e.g. "/dev/sda1").
Operating system computer name	Computer name on which Blancco LUN was executed (e.g. "WIN-12345").
Report verification	Verification status of the report ("true" or "false")

12.8.5. File reports

Name	Description
Date	Date when the shredding was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the shredding (e.g. "Successful").
Erasure operation name	Name of the shredding operation (e.g. "File Shredding").
Erasure target path (File)	Path of the shredded target (e.g. "C:\temp\test.txt").
Erasure target capacity	Total size (formatted) of the shredding (e.g. "12 MB").
Operating system computer name	Computer name on which the file was shredded (e.g. "WIN-12345").
Operating system user name	User name used for the shredding (e.g. "WIN-12345\John Doe").
Report verification	Verification status of the report ("true" or "false")

12.8.6. Flash reports

Name	Description
Date	Date when the erasure was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the erasure (e.g. "Successful").
Disk serial	Serial number of the erased disk (e.g. "EC98L8F").
Disk capacity	Capacity (formatted) of the erased disk (e.g. "3926 MB").
Disk vendor	Manufacturer of the erased disk (e.g. "Kingston").
Disk model	Model of the erased disk (e.g. "DataTraveler G3").
Operating system computer name	Computer name on which the disk was erased (e.g. "WIN-12345").
Report verification	Verification status of the report ("true" or "false")

12.8.7. Degausser reports

Name	Description
Date	Date when the degauss was performed (e.g. "2010-06-15 20:03").
Erasure state	State of the degauss (e.g. "Successful").
Disk serial	Serial number of the degaussed disk (e.g. "EC98L8F").
Disk capacity	Capacity (formatted) of the degaussed disk (e.g. "10 GB").
Disk vendor	Manufacturer of the degaussed disk (e.g. "Western Digital").
Disk model	Model of the degaussed disk (e.g. "STC07").
Customer	Customer name.
Barcode	Barcode number of the degaussed disk.
Extra1	Extra information.
Report verification	Verification status of the report ("true" or "false")

12.9. Searching fields in a filtered list

If a search is done on the "Selected columns", and the order of the filtered columns is changed (using the "Top", "Up", "Down" or "Bottom" buttons), the order of the unfiltered columns stays the same, only the order between filtered columns changes.

Example of ordering columns in a filtered list:

Step 1: five (5) columns are selected (visible in the "Selected columns" box):

- **BIOS date** (position 1.)
- **CPU model** (position 2.)
- **Report date** (position 3.)
- **Disk capacity** (*position 4.*)
- **Erase state** (*position 5.*)

Step 2: A search is done on the pattern "**ate**". The results of the search are:

- **BIOS date** (position 1.)
- **Report date** (position 3.)
- **Erase state** (*position 5.*)

Step 3: The "**Erase state**" moves to the top of the filtered columns. The reordered results are:

- **Erase state** (*position 5.*)
- **BIOS date** (position 1.)
- **Report date** (position 3.)

Step 4: The search has been cleared. The unfiltered column list:

- **Erase state** (*position 5.*)
- **CPU model** (position 2.)
- **BIOS date** (position 1.)
- **Disk capacity** (*position 4.*)
- **Report date** (position 3.)

Explanation:

"**Erase state**" is now on the top of the column list. The columns "**CPU model**" and "**Disk capacity**" have held their original positions in the list as they were not filtered by the search.

The order of the "**Erase state**", "**BIOS date**" and "**Report date**" columns in the unfiltered list will be the same as in the filtered list. "**Erase state**" will be on top of "**BIOS date**" and "**BIOS date**" will be on top of "**Report date**".

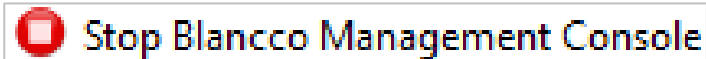
12.10. Restart BMC service

There are several methods to restart the BMC service.

12.10.1. Restart using application shortcuts (Windows only)

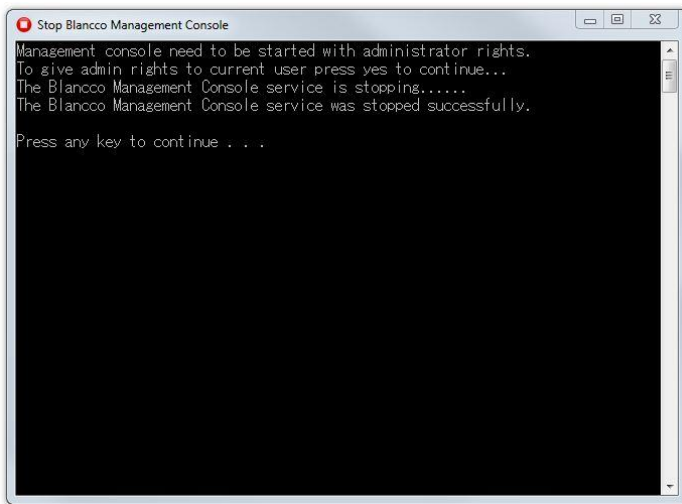
12.10.1.1. Stop BMC service

Stop the BMC service by clicking the "Stop Blancco Management Console" shortcut. The shortcut can be found by clicking "Start" icon -> "All Programs" -> "Blancco" -> "Blancco Management Console" -> "Stop Blancco Management Console".



A command prompt window appears on the screen.

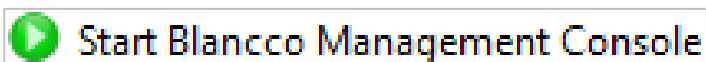
Wait until the message "The Blancco Management Console service was stopped successfully. Press any key to continue . . ." will be displayed on the screen.



Press any key (e.g. "Enter" or "Space" key). The command prompt window will automatically close.

12.10.1.2. Start BMC service

Start the BMC service by clicking the "Start Blancco Management Console" shortcut. The shortcut can be found by clicking "Start" icon -> "All Programs" -> "Blancco" -> "Blancco Management Console" -> "Start Blancco Management Console".

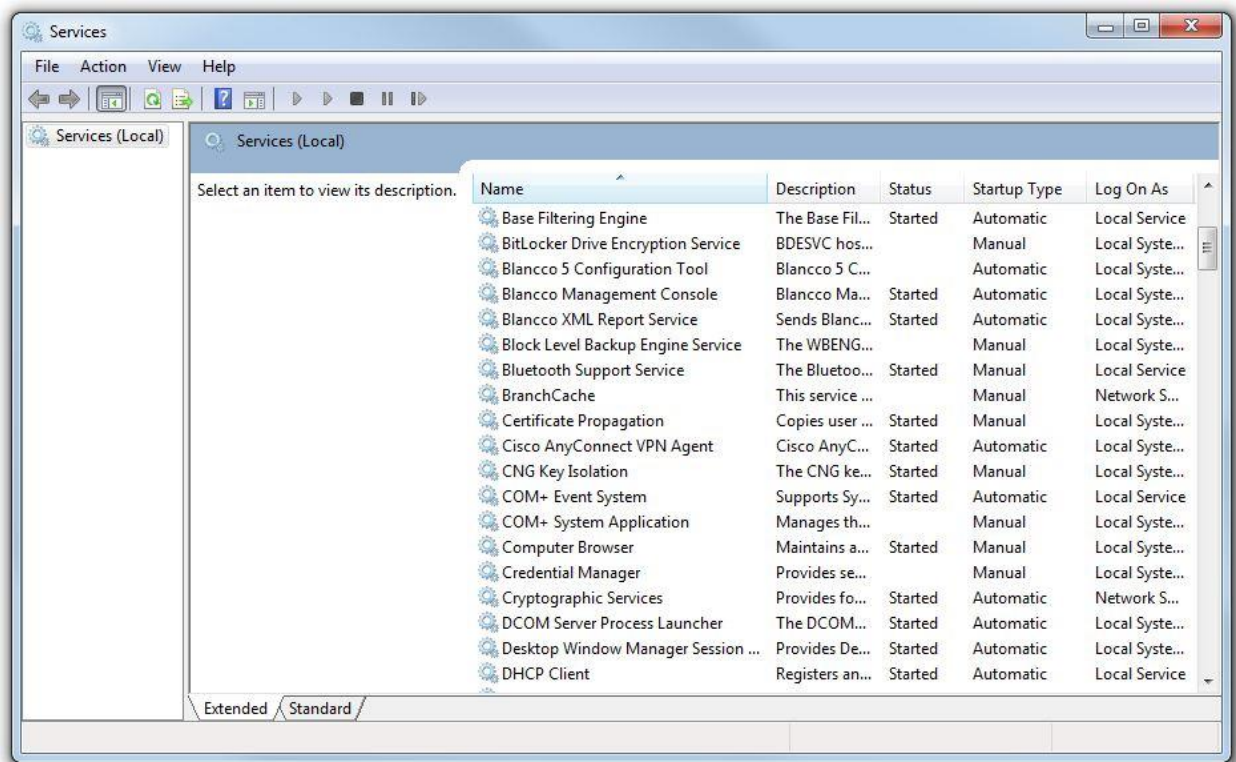


A similar command prompt window than above appears on the screen.

Wait until the message "Service BMC started. Press any key to continue . . ." is displayed on the screen. Press any key (e.g. "Enter" or "Space" key). The command prompt window will automatically close.

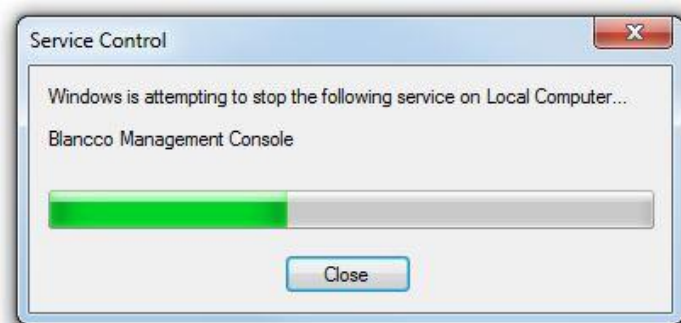
12.10.2. Restart using the "Services" menu (Windows only)

Open the "Services" menu:



- Start menu -> Right-click "Computer" -> Click "Manage" -> on the left panel, expand "Services and Applications" -> click on "Services"
- Or
- Start menu -> write "services.msc" and press the "Enter" key.

Right-click on "Blanco Management Console" and select "Restart". Wait until the popup below closes.



12.10.3. Restart using terminal (Linux only)

In Linux systems, restart the BMC service by running the following command:

```
# sudo /etc/init.d/BMC restart
```

Or by running the following shell scripts:

```
# sudo stop_bmc.sh
# sudo start_bmc.sh
```

These scripts are available in the installation folder. Similar messages than shown above will be shown. Press the "Enter" key to return to the command prompt.

12.11. Example for Managing Roles, Groups and Licenses

If there are only a few users, the easiest way to use BMC is just to use the admin account to create one user (ROLE_USER) to complete all tasks with. The admin account should only be used for configuring BMC and users.

If there are multiple users, they should be separated into the following categories:

The **admin** usually has all the rights in to the system and to the licenses. His main focus should be creating group admins and distributing licenses to group admins.

In this example the admin creates two groups: "Group 1" and "Group 2" and assigns them as **Group Administrators**: "GroupAdminOne" and "GroupAdminTwo" who both get 50 licenses of the Blancco 5 product, and "ROLE_GROUPADMIN" and "ROLE_USER" roles.

Create new group

Group attributes:

GROUP NAME:*

GROUP DESCRIPTION:

GROUP REPORTS ☐ *Share reports between users of the same group*

Group administrator account:

EMAIL:*

LICENSES:*

▼ License Details

Product name	Assigned licenses	Total licenses
Blancco Demo	0	[0]
Blancco Asset Manager / Blancco 5 Asset	0	[0]
Blancco PC Edition / Blancco 5	50	[50]
Blancco Server Edition	0	[0]

Users

Roles

Licenses

All groups

Group	User	Role(s)
☐ Example Cor	admin (N/A N/A)	ROLE_ADMIN
☐ Group 1	GroupAdminOne	ROLE_GROUPADMIN
☐ Group 2	GroupAdminTwo	ROLE_GROUPADMIN

These group admins then create users for their respective groups, which have unlimited access to the 50 licenses of Blancco 5 owned by the group administrator:

Create new user

EMAIL:*

GROUP:*

LICENSES:*

► License Details

USERNAME:*

FIRST NAME:

LAST NAME:

PASSWORD:*

RE-TYPE PASSWORD:*

USER ROLE(S):* ☒ ROLE_USER
☐ ROLE_GROUPADMIN

ACCOUNT STATUS: ☒ Active

Users
 Roles
 Licenses

	Group	User	Role(s)
☐	Group 1	GroupAdminOne	ROLE_USER, ROLE_GROUPA
☐	Group 1	UserFour	ROLE_USER
☐	Group 1	UserOne	ROLE_USER
☐	Group 1	UserThree	ROLE_USER
☐	Group 1	UserTwo	ROLE_USER

When these are done, the admin can see the following users:

	Group	User	Role(s)
☐	Example Coi	admin (N/A N/A)	ROLE_ADMIN
☐	Group 1	GroupAdminOne	ROLE_USER, ROLE_GROUPADMIN
☐	Group 1	UserFour	ROLE_USER
☐	Group 1	UserOne	ROLE_USER
☐	Group 1	UserThree	ROLE_USER
☐	Group 1	UserTwo	ROLE_USER
☐	Group 2	GroupAdminTwo	ROLE_USER, ROLE_GROUPADMIN
☐	Group 2	UserFive	ROLE_USER
☐	Group 2	UserSeven	ROLE_USER
☐	Group 2	UserSix	ROLE_USER

This has created the following hierarchy:

Admin, 200 Blancco 5 licenses -(50+50=100) to Group Admins

Group 1

In this group licenses are shared among users that are using same license pool.

Group Admin One, shared pool of 50 licenses of Blancco 5 ("Unlimited" access).

User One, access to Group Admin One's shared pool of 50 licenses.

User Two, access to Group Admin One's shared pool of 50 licenses.

User Three, access to Group Admin One's shared pool of 50 licenses.

User Four, access to Group Admin One's shared pool of 50 licenses.

Group 2

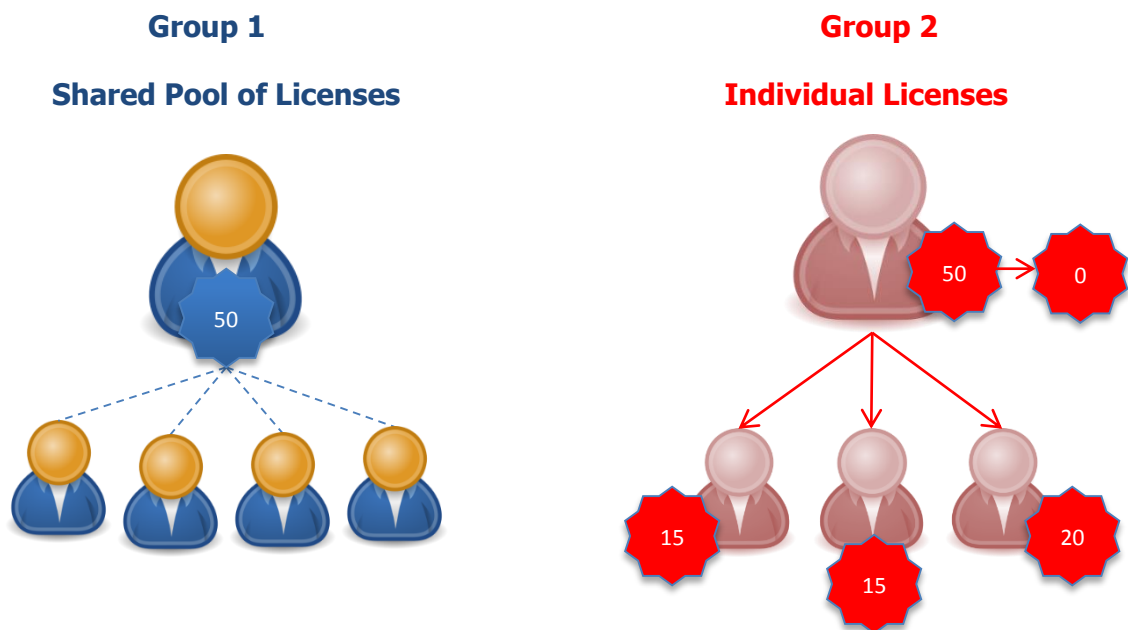
In this group the admin assigns a set amount of licenses to users.

Group Admin Two, 50 licenses of Blancco 5, which he gives to users as follows ("Limited" access):

User Five, has 15 licenses of Blancco 5.

User Six, has 15 licenses of Blancco 5

User Seven, has 20 licenses of Blancco 5.



12.12. Example of Forced Synchronization

The situation:

- Before synchronization, the amount of licenses in the container was equal to **100**.
 - For some reason, the HASP key has been changed/updated, and now the amount of licenses in the container is down to **10**.
- **Admin** has assigned 50 licenses to **Group1**.
 - **Group1** has assigned 20 licenses to **User2**.
 - Thus **Group1** licenses being 30 and **Admin** licenses being 50.

With the change in license amount, either admin reduces the amount of licenses assigned to both **Group1** and **User2**, or he clicks on **Force synchronization**.

The table below shows the situation before clicking **Force synchronization**". The unsynchronized database thinks that the Admin has 100 licenses

User	Type of license	Remaining licenses to be assigned	Total licenses
Admin	container	50	100
Group1	individual licenses	30	50
User1 (Group1)	shared licenses	30	30
User2 (Group1)	individual licenses	20	20

The situation after **Force synchronization** has been clicked:

User	Type of license	Remaining licenses to be assigned	Total licenses
Admin	container	10	10
Group1	individual licenses	0	0
User1 (Group1)	shared licenses	0	0
User2 (Group1)	individual licenses	0	0

12.13. Role attributes

In this chapter, all the role attributes will be listed and explained. This chapter is comprised of tables which demonstrate what each role attribute means. The name of the attribute is in the left column and the explanation is located in the right column.

Name of the authority group	
Name of the attribute	Explanation of the user-right.

GROUP	
CREATE	Right to create groups.
DELETE	Right to delete groups.
EDIT	Right to edit groups.

LICENSE	
ACTIVATE	Right to activate licenses.
CONSUME	Right to consume licenses.
EXPORT	Right to export licenses.
VIEW	Right to view licenses information.

PROCESS	
MANAGEMENT	Right to manage processes.

REPORT	
CREATE	Creating reports.
DELETE	Deleting reports.
EMAIL	Emailing reports.
EXPORTCSV	Exporting reports in CSV-format.
EXPORTPDF	Exporting reports in PDF-format.
EXPORTXML	Exporting reports in XML-format.
IMPORT	Importing reports.
PRINT	Printing reports.
VIEW	Viewing reports.

STATISTICS	
STATISTICS	Right to view the statistics screen.

USER	
CREATE	Creating users.
DELETE	Deleting users.
EDIT	Editing users.
LIST	Listing users.
ROLE_CREATE	Creating roles.
ROLE_DELETE	Deleting roles.
ROLE_EDIT	Editing roles.

SYSTEM	
LOGIN	Right to login to the BMC.
CONFIGURATION	Right to configure system settings.

WIDGET	
CUSTOMIZE_WIDGET	Right to manage widgets.

12.13.1. Default Role authorities

The three default roles, "ROLE_ADMIN", "ROLE_GROUPADMIN" and "ROLE_USER" have the following authorities as default values:

ROLE_ADMIN	
All authorities	Full access to the BMC functionalities.

ROLE_GROUPADMIN	
GROUP	Create, Delete and Edit.
LICENSE	Consume, Export, View
PROCESS	Management
REPORT	Create, Delete, Email, Export-CSV, Export-PDF, Export-XML, Import, Print, and View.
STATISTICS	Statistics
USER	Create, Delete, Edit, List
SYSTEM	Login

ROLE_USER	
LICENSE	Consume, View
REPORT	Create, Delete, Email, Export-CSV, Export-PDF, Export-XML, Import, Print, and View.
STATISTICS	Statistics
USER	List
SYSTEM	Login

12.14. Filtering report with special fields

12.14.1. Product name

When filtering with "Product Name" field, the software actually refers to the Product IDs, so it is necessary to search with product IDs. Below is a list of all Blancco product ID's.

Example: "Product name" = 4 (this will filter all "Blancco Server Edition" reports).

Product name	Product ID
Blancco Demo	1
Blancco Asset Manager / Blancco 5 Asset	2
Blancco PC Edition / Blancco 5	3
Blancco Server Edition	4
Blancco HMG	5
Blancco Stealth (Activation & Licensing)	6
Blancco Stealth (Erasure)	7
Blancco Mobile	8
Blancco Data Centre Edition	9
Blancco Profiler	10
Blancco File	11
Blancco Flash	12
Blancco SPARC	13
Blancco Management Console for Linux	14
Blancco Management Console for Windows	15
Blancco Demo (per HDD)	16
Blancco Asset Manager (per HDD)	17
Blancco PC Edition (per HDD)	19
Blancco Server Edition (per HDD) / Blancco 5 Server	20
Blancco HMG (per HDD)	21
Blancco Mobile Reporting Tool	23
Blancco Mobile Reset & Report	24
Blancco Data Centre Edition (per HDD)	25
Blancco LUN	26

Blancco SPARC (per HDD)	29
Blancco Demo (per GB)	32
Blancco Asset Manager (per GB)	33
Blancco PC Edition (per GB)	35
Blancco Server Edition (per GB)	36
Blancco HMG (per GB)	37
Blancco Data Centre Edition (per GB)	41
Blancco SPARC (per GB)	45
Blancco Degausser	48
Blancco 5	50
Blancco Management Console (version 2 and 3)	51

12.14.2. Report state

When filtering with "Report state" field, the software actually refers to "State IDs". Below is a list of all "State IDs".

Example: "Report state" = 1 (this will filter all "Successful" erasure reports).

Report state	Identifier
Failed	0
Successful	1
Completed with exceptions	2

12.14.3. Erasure date

To search by date, the following format is required: *YYYY-MM-DD hh:mm:ss*. The hour format is 24h.

Example 1: filtering reports with precise date and time (including seconds)

Erasure date = 2012-01-20 22:01:20 (this will return all reports from 20th of January 2012 at 22:01:20.

The "=" comparison operator needs to be used.

Example 2: filtering reports from a specific day

Erasure date like 2012-01-20% (this will return all reports from 20th of January 2012).

The "like" comparison operator needs to be used.

Example 3: filtering reports from a specific day's hour

Erasure date like 2012-01-20 10% (this will return gives all reports from 20th of January 2012 10'o-clock).

The "like" comparison operator needs to be used.

12.15. Using PXE-boot

To use the PXE-booting in server environments:

- a. Make sure that no tftp or pxe-booting related services have been previously installed on the server. These services can interfere with the Blancco Management Console components.
- b. Make sure that the following ports are open in the firewall
 - o TCP ports 8080 and 8443
 - o UDP port 69 (default TFTP port).
- c. Turn the tftp service on by clicking **Enable tftp service** and save the settings.
- d. Restart the Blancco Management Console service. Please refer to the [Restart BMC service](#) section for instructions.
- e. **(Windows Server)** Configure the DHCP service.
 - o "066 Boot Server Host Name" must point to the Blancco Management Console.
 - o "067 Bootfile Name" is "\gpxlinux.0"
- f. **(Linux)** Make sure the DHCP-service is running on network and pointing to PXE (TFTP).
- g. Place the Blancco images to the following location: [Installation folder]/apache-tomcat/webapps/root/networkboot/
- h. Edit the file name **default**, located under [Installation folder]\tftp\pxelinux.cfg\ folder. Edit the text highlighted in yellow to match with your environment configuration.
 - o The text after **LABEL** will be shown in the network boot menu.
 - o The IP address, and port (in the example below *192.168.0.1:8080*) must match with the Blancco Management Console IP must match with the Blancco Management Console IP and port in use.
 - o The erasure client ISO filename (in the example below *erasure_client.iso*) must match with the ISO filename existing in your environment (file copied in step g.).

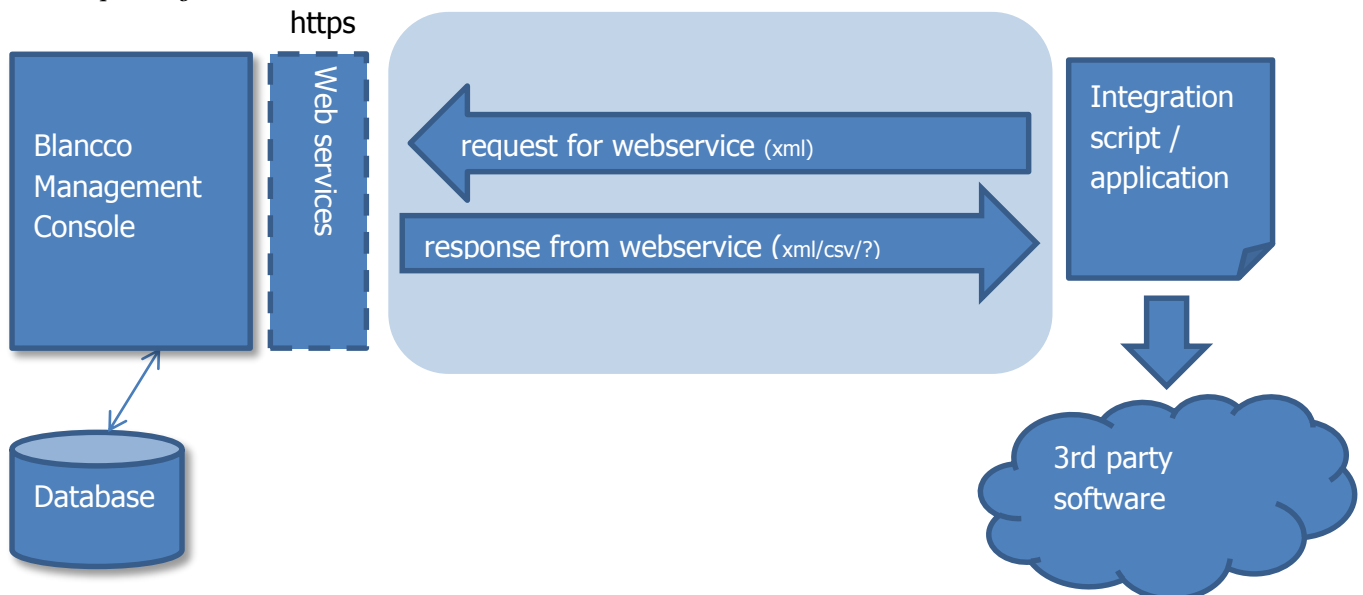
```
MENU TITLE Blancco PXE Boot Menu
#---
LABEL Blancco PC Edition
linux memdisk
append iso
initrd http://192.168.0.1:8080/networkboot/erasure_client.iso
MENU DEFAULT
```

13. INTEGRATION

The Blancco Management Console supports data integration with external systems by providing web services. These web services provide a few different interfaces where the required data can be queried by using different parameters. The Blancco Management Console offers several integration opportunities.

The web services will remain the same after a version update. An already functional integration to the Blancco Management Console (version 3.0.0 and later) will work on the next version of the Blancco Management Console. Integration to 3rd party applications using direct database queries should be avoided. During a version update of BMC, there may be changes applied to the database structure, but the web services functionalities will remain the same.

Example integration:



The example above describes the general flow of the integration process. The integration script (not provided by Blancco) sends a request to Blancco Management Console's web service with the required parameters. Blancco Management Console processes the given parameters and returns the matching results in the format specified by the parameters. The same integration script (represented above) then transforms/converts the data in a compatible format for further integration to the 3rd party software.

Blancco does not provide solutions (such as integration scripts) or support (such as implementation of the integration process).

The user needs to manage their own environment or seek the assistance of an expert.

Examples and technical documentation can be found in Blancco Management Console's installation folder ([Installation folder]\doc\integration_package\).

14. CONTACT INFORMATION

Visit the technical knowledgebase (FAQ) and contact Blancco Technical Support by submitting a technical support ticket at:

<http://support.blancco.com/>

See the instructional videos for Blancco products at:

<http://www.blancco.com/en/videos/>

For contact information and the latest information about secure data erasure solutions, visit the Blancco website at:

<http://www.blancco.com>

We are always looking for ways to improve our products. Please let us know if you have any suggestions!