

Corporate Server

Cost, Profit and Performance Management Solutions

Simplified Installation and Configuration Manual

(Application Server & Calculation Engine Server installation only)

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Introduction

Welcome to **MyABCM Corporate Server**. This installation manual is meant to aid the user in installing **MyABCM Corporate Server (simplified setup)** and all other software necessary for the correct usage of this product. This is why this guide details all the necessary hardware and installation procedures for this product and its auxiliary applications.

Structure of the Installation Manual

This manual is divided into the following sections:

- Architecture and Installation Scenarios for MyABCM Corporate Server;
- Installation and Configuration for MyABCM Corporate Server (simplified setup);
- Registration and activation;
- Basic configurations;
- Advanced topics.



Architecture, Requirements and Scenario for MyABCM Corporate Server

Introduction

MyABCM Corporate Server is an application that should be installed and executed on the same server and it is accessed by Desktop application.

Architecture

MyABCM Corporate Server is a server application that is made up three components, but the simplified installation installs and configures only the following two components:

• MyABCM Corporate Application Server

This component is responsible for all of the application's logic, that is, all the commands executed by the Corporate are sent to the MyABCM Corporate Application Server, which executes them, accesses the database, and returns any results to the MyABCM Corporate.

• MyABCM Corporate Calculation Engine (CalcEngine) Server

This component is responsible for all of the internal operations that need to be scheduled or that cannot be executed in real time. Even though the MyABCM Corporate Application Server is responsible for the execution of the application logic, when a more lengthy operation such as a calculation, import, or running the entire model is needed, this operation is sent to the MyABCM Corporate Calculation Engine Server to be executed in the background.

Additional note on the simplified installation

The simplified installation was designed to install only the Corporate Application Server and Corporate Calculation Engine Server components without installing the third Corporate WEB Server component.

This setup was created to make the installation process easier for users that are not going to use Corporate WEB Server for technical or licensing reasons.



Installation Scenario

The two components of MyABCM Corporate Server installed by this simplified setup are executed on the same server and are installed at the same time.





and Corporate SysAdmin Desktop (System User or Administrator)





MyABCM Corporate Application Server MyABCM Corporate Calculation Engine Server





Database Server



Note about scalability

All the MyABCM Corporate Server components are pure 64-bit and have been designed to support vertical scalability, but the simplified installation limits the CPU usage to 4 logical cores in the Calculation Engine Server component.



Requirements

Corporate Desktop & Corporate SysAdmin Desktop

- Windows 10 (64-bits)
- Microsoft .Net Framework 4.8
- Processor 2.0GHz x64
- 4 GB of RAM memory*
- 1 GB of free disk space

MyABCM Corporate Server (Application & Calculation Engine components)

- Windows Server 2016,2019 or 2022
- Microsoft Internet Information Services 10.0 or above
- Net Framework 4.8 (shipped with the installation material)
- 16 GB of RAM memory*
- 2 GB of free disk space
- Processor 2.0GHz x64 quad core

Database server

Any of the following databases:

• SQL Server Standard 2012 or newer

Warning: Besides the core database component of SQL Server, Analysis Services component is required for OLAP analysis using large costing models.

(*) The quantity of CPU memory required may vary according to the number of users and the size of the model being processed.



1. Installing MyABCM Corporate Server (simplified setup)

1.1. Installing MyABCM Corporate Server (simplified setup)

- **1.** Begin installing MyABCM Corporate Server (simplified setup) by double-clicking on the installer. If you have not installed .NET Framework 4.8, a dialog box will appear asking for your confirmation and you just have to click the install button to begin the installation process.
- 2. Click the <u>Next></u> button.



3. Select the destination folder and click the <u>Next></u> button.

👼 MyABCM Corporate Lite Setup	_		×
Select Installation Folder This is the folder where MyABCM Corporate Lite will be installed.		6	Ð
To install in this folder, dick "Next". To install to a different folder, e "Browse".	nter it l	below or clic	k
Folder: C:\Program Files\MyABCM\Corporate\		Browse	
Advanced Installer			
< Back Next	t >	Can	cel



4. Click the **Install** button to begin the installation.

S MyABCM Corporate Lite Setup
Ready to Install The Setup Wizard is ready to begin the MyABCM Corporate Lite installation
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Advanced Installer

5. When the dialog box opens asking if you want to setup the database for the MyABCM Corporate Server Configuration, click <u>Yes</u> to begin the database creation process.

KyABCM Corporate Server Configuration	×
Do you want to setup the database now? Yes No	

For this step, you will need to give a user account that has the right to create a SQL Server database on the server. If you do not know the password for such a user account or if the DBA prefers to do this manually, you can click **No** and create the database manually after the installation has finished.

6. Fill in the data necessary for the creation of the database according the instructions below:

Type: Choose the database to be used.

Server: Provide the name of the database server.

Integrated Authentication: Choose Yes or No for Integrated Authentication.

UserID*: Provide the login to be used to connect to the database server.

Password: Provide the associated password.



File Store path:** Provide the path of the folder in which you want MyABCM Corporate Server to store files sent to the server by users.

MyABCM Corporate Serv Database server settings Settings for managing (cre	rer Configuration ating/removing) MyABCM Corporate	Server database.	×
Type: Server: Integrated Authentication: UserID: Password: FileStore path:	SQL Server 2012/14/16/17		
		OW Canad	

(*) It is important to remember that this user will be used just for creating the database. During the database creation, the user MYABCM_CLOUD_USER is also created and is thereafter used for all the connections to the database. In summary, this user with database creation rights is used just for the setup and not for the use of the product itself.

(**) It is important to remember that this locale should be accessible to the MyABCM Corporate Application Server Component as well as the MyABCM Corporate Calculation Engine Server.

Also remember that moving the initialization account for MyABCM Corporate Application Server Component and MyABCM Corporate CalcEngine Server services from "LocalSystem" to any other user which permits shared access means that you'll have to modify the access rights to the port used by MyABCM Corporate Application Server Component using the **NETSH** command.

Here's an example of how to add rights for the user "JohnDoe" to the port: **netsh.exe** http add **urlacl url=http://+:2208/user=MYORGANIZATION1\JohnDoe**

If you need to undo this operation, here's how you'd undo it for "JohnDoe": **netsh.exe** http delete **urlacl url=http://+:2208/**

7. Click on the **OK** button to proceed.





8. Click the <u>Finish</u> button to complete the installation.

B MyABCM Corporate Lite	Setup	×
R	Completing the MyABCM Corporate Lite Setup Wizard	
	Click the "Finish" button to exit the Setup Wizard.	
	< Back Finish Cancel	

After the installation has finished, you will note that there are now 3 new services in the Windows local service list as shown in the example below:

🔍 Services					- 0	×
File Action View	Help					
🗢 🄿 📰 Q 🕫	🗼 📝 📷 🕨 🕨 🔳 II ID					
🔍 Services (Local)	Services (Local)					
	Select an item to view its description.	Name	Description	Status	Startup Type	^
		MyABCM Corporate Application Server		Running	Automatic	- 11
		MyABCM Corporate Calculation Engine Server		Running	Automatic	
		MyABCM Corporate Licensing Service		Running	Automatic	\sim
		<				>
	Extended Standard					

After installing and configuring each of the 2 components (Application Server and Calculation Engine Server), execute the automatic update application following the instructions in Chapter 4 of this manual.

Important Note: The MyABCM Corporate Licensing Service should always be executed using the "Local System" account.

Important notice on exporting/importing from Microsoft Access In order for MyABCM Corporate Application Server Component to export and import data from Access data sources, server needs to have the 64-bit Access OLE DB drivers available. If it is not already present, those drivers are available directly from Microsoft website: Link: https://www.microsoft.com/en-us/download/details.aspx?id=13255 File: AccessDatabaseEngine_X64.exe

Microsoft Access Database Engine Redistributable version 2010 is highly recommended as version 2016 has several known problems that limits its usage with MyABCM Corporate.



1.2. Registering MyABCM Corporate Server

After installing MyABCM Corporate Server and before you begin to really use it, you need to register the application with MyABCM. It is important to remember that you cannot use MyABCM Corporate Server services before the product has been registered.

You can register the MyABCM Corporate Application Server directly using the system administrator Desktop application or by using **Abm.Server.Shell.exe** at the command prompt.

The following steps detail how to register the application by using the command prompt.

- 1. Open the **Command Prompt** with administrator rights.
- **2.** Change the directory to the installation directory for the MyABCM Corporate Application Server Component.

This directory is usually C:\Program Files\MyABCM\Corporate\AppServer

3. Execute the following command:

Abm.Server.Shell GET_MACHINE_ID

After executing this command, the console should show you the **Machine ID** which is a sequence of 20 letters and numbers.

4. Send this Machine ID together with the name of your organization in an email to reg@myabcm.com

The MyABCM software activation department should respond promptly and provide you with an activation code.

5. With this code in hand, execute the following command:

Abm.Server.Shell ADD_LICENSE=(<type the activation code here>)

After you execute this command, you should see a message advising you that the product has been successfully activated.





1.3. Configuring MyABCM Corporate Server (Application Server Component)

All the configuration of MyABCM Corporate Application Server Component is done using **Abm.Server.Shell.exe** at the command prompt (**with administrator permission**). The following parameters should be revised and eventually modified soon after the product has been installed:

• Host name, port and protocol

Using the **APPHOST** parameter, it is possible to define the host name, port and protocol to be used. As an example, if the product is installed on server SERVER_XYZ, and it is using port TCP 3000 and protocol HTTPS, the following command should be used:

Abm.Server.Shell.exe APPHOST=(SERVER_XYZ,3000,HTTPS)

[]

The product is pre-configured to use port 2208 and protocol HTTP. As MyABCM Corporate Server (simplified setup) is installed on the same server, it is not mandatory/necessary to modify these parameters.

• Database

Using the **DATABASE** parameter, it is possible to define the name, type and server name for the database to be used, as well as the type of authentication and access credentials. Just as an example, if the database CORPORATE_DB, located on the SQL Server named DB_SERVER_01 is going to be used and accessed by SQL Server userid user_abc with password pw1234, the following command would be used:

Abm.Server.Shell.exe DATABASE=(SQLSERVER,DB_SERVER_01,CORPORATE_DB,false,user_abc,pw1234)

!

If the database is created by the installer, this parameter should already be correct. If it is not, it will be necessary to configure the database with these parameters.



OLAP Server

Using the **OLAP** parameter, we can define which OLAP server will be used and the access credentials that will be utilized. In this case, it is important to note that besides the OLAP configurations given, it's possible that other configurations will be necessary depending on the OLAP server being used and its configurations.

In the specific case of Microsoft Analysis Server, if HTTP access is not configured, MyABCM Corporate Application Server Component will try to access it directly and this will require Windows integrated authentication. In this case, it will be necessary to have the credentials being used for MyABCM Corporate Calculation Engine Server registered in the Analysis Server so that the system will function correctly. More details can be obtained in the Analysis Server documentation.

Just as an example, if the server name is OLAP_SVR1 and HTTP access is activated and the access credentials are user_abc with password pw1234, the following command would be used:

Abm.Server.Shell.exe OLAP=(SQLSERVER,MULTIDIMENSIONAL,OLAP_SVR1,false,user_abc,pw1234)

• Mail Server (email)

MyABCM Corporate Application Server Component depends on a mail server to send messages to administrators and users about important events like the completion of processing or even internal system errors. This is why it's important that the system be informed of these parameters soon after the installation by using the **MAIL** parameter.

Just as an example, if the SMTP mail server's name is MSERVER01 and it is using port 1025, and the access credentials are adm_corporate with password pw1234, and the originating email address is <u>adm_corporate@myabcm.com</u>, and the administrator's email address is <u>johndoe@myabcm.com</u> and a second administrator's email address is <u>markz@myabcm.com</u>, the following command would be used:

Syntax:

Abm.Server.Shell.exe MAIL=(my_smtp_server.net,1025,user1,psw_user1,send_from@sample.com,send_to@sample.co m,send_cc@sample.com,true)

Example:

Abm.Server.Shell.exe MAIL=(MSERVER01,1025,adm_corporate,pw1234,adm_corporate@myabcm.com,johndoe@myabc m.com,markz@myabcm.com,true)

Abm.Server.Shell.exe SEND_TEST_MAIL=(send_to@sample.com)

Tests the configuration of the email by sending a test email.



• Configuring LDAP Authentication

MyABCM Corporate Application Server Component can use its own mechanism to generate user credentials or use an LDAP server like Microsoft Active Directory to authenticate users.

Just as an example, if you want to use an LDAP server named AD_SERVER1, with domain empresaxyz.com using encrypted communication (LDAPS), the following command would be used:

Abm.Server.Shell.exe LDAP=(AD_SERVER1,empresaxyz.com,yes)

MyABCM Corporate Application Server Component comes pre-configured to use its own mechanism to generate credentials and the use of an LDAP server is optional.

• Default Language

MyABCM Corporate Application Server Component is an application that supports multiple languages simultaneously, for the application interface as well as the cost model. The user always makes the choice of language after logging onto the system, however in the case of a few internal routines that depend directly on the user that is logged on, it will be necessary to define the language to be used.

There are a few cases such as the recording of messages for the Windows event log and other situations where it will be necessary to define the specific language. Just as an example, if you wish to use "Brazilian Portuguese", the following command would be used:

Abm.Server.Shell.exe CULT=pt-BR

Since MyABCM Corporate Application Server Component already comes pre-configured to use US English (**en-Us**) internally, this configuration does not need to be altered unless you wish to change languages.

• File Store Directory

Whenever users upload a file to the MyABCM Corporate Application Server Component, this information will be registered in the database and the files will be stored in the directory that has been defined by the FILE_STORE_PATH parameter. Just as an example, if you wish to use the directory C:\FSTORE as your file store directory, you would use the following command:

Abm.Server.Shell.exe FILE_STORE_PATH="C:\FSTORE"



If the database is created by the installer, this parameter already should be correct. If not, you will have to configure this parameter. In addition, this should point to the same directory as the FILE_STORE_PATH for MyABCM Corporate Calculation Engine Server Component, because the files saved in this location by MyABCM Corporate Application Server are normally accessed by MyABCM Corporate Calculation Engine Server.



• Export Templates

MyABCM Corporate comes with a predefined set of export templates that are stored inside the database. If the end user wants to add a new template, you need to activate the user interface for template manipulation first.

You can configure the product, so that users can manipulate the export templates either by the administration or end user interfaces (Desktop).

In order to activate the template manipulation via the administrator's interface, use the following command:

Abm.Server.Shell.exe SHOW_EXPORT_TEMPLATES_TO_ADMIN_USERS=true

In order to activate the template manipulation via the end user's interface, use the following command:

Abm.Server.Shell.exe SHOW_EXPORT_TEMPLATES_TO_REGULAR_USERS=true

If you want to disable template manipulation, just run the commands using "false" as parameter.

The rights for direct export template manipulation must be configured carefully because those templates can give full access to all database contents regardless of access rights in use.

Along with the parameters that we have already discussed, **Abm.Server.Shell** also supports the following additional parameters:

• ADD_OPERATION_OWNER

Registers a new server for the MyABCM Corporate Application Server with the system.

• UPDATE_OPERATION_OWNER

Registers the configurations of the current server for the MyABCM Corporate Application Server.

• REMOVE_OPERATION_OWNER

Removes the registration of the current server for the MyABCM Corporate Application Server.

• GET_OPERATION_OWNERS

Obtains the system's list of registered servers for MyABCM Corporate Application Server.



• DATABASE_OPERATION_TIMEOUT

Defines how long the system will wait before timing out and cancelling a database operation.

• DATABASE_LOG_OPERATION_TIMEOUT

Defines how long the system will wait before timing out and cancelling a database operation for operations that are known to take a long time like copying models.

• DISPLAY_DELETED_MODELS

Defines whether models deleted by the administrator are displayed in the model list or not.

• DISPLAY_DELETED_USERS=true

Change the configuration to display the users who have been deleted by the System Administrator.

• LIST_PARAMETERS

Lists all the parameters that are currently in use in the shell.

• SERVER_MODE_DB

The Server Mode DB parameter makes it possible to input the credential of an alternative database to be used in "Server Mode." This is important, because in "Server Mode" the Server connects directly to the database without using stored procedures and the original database credential doesn't permit this. As an example, to add a credential with this command, execute:

SERVER_MODE_DB=(false,JOHN_DOE,123)

• OLAP_DB_PREFIX=MYABCM_CLOUD_DW

Change OLAP database prefix, used to warehouse data from the OLAP database.

• SURVEY_TEMPLATE_PASSWORD=myabcm

Define the password to be used for Excel Survey files

• ENABLE_STRONG_PASSWORD_VALIDATION=true

Activate the strong password validation. Minimum of 8 characters, with at least 3 of them having to be:

- o Capital letter
- o Number
- o Special character (! @ # \$ % ^ & * ? _ ~- ,)



• ENFORCE_UNIQUE_PASSWORD_INTERVAL=365

In changing the password, force the use of a different password within an interval of X days, or in other words, the same password that has been used before will cease to be used in less than X days.

• PROVIDER_MSOLAP_QUERY_TIMEOUT

Change the provider query time in seconds.

• USE_IMPORT_TRANSACTIONS_IN_SCRIPTS

Change script import transactions.

• GET_LICENSE_DETAILS

Obtain license details.

• GET_EXPIRED_NAMED_LICENSES

Obtain named licenses that have expired.

• **REMOVE_LICENSE**

Remove license.

• BACKUP_CONFIG="C:\Backup.xml"

Configuration of the backup to an XML file.

• RESTORE_CONFIG="C:\Backup.xml"

Restoration of the configuration of the XML file.

• LIST_INSTALLED_VERSIONS

List installed versions.

• LIST_SYS_ADMINS

List system administrators.

• REACTIVATE_ADMIN=(user1,50)

Reactivate system administrator.

• USE_PRIVATE_LICSTORE

Use Lisctore private license.



• RESET_LICSTORE

Reset Licstore License.

• SYS_INFO

Obtain System Information.



1.4. Configuring MyABCM Corporate Server (Calculation Engine Server Component)

Change to the installation directory for MyABCM Corporate Calculation Engine Server Component. This directory is usually **C:\Program Files\MyABCM\Corporate\CalcEngine.**

All the configuration of MyABCM Corporate Calculation Engine Server component is done using the **Abm.Server.CalcEngineShell.exe** command. The following parameters should be revised and eventually modified soon after the product has been installed:

• Database

Using the **DATABASE** parameter, it is possible to define the name, type and server name for the database to be used, as well as the type of authentication and access credentials. Just as an example, if the database CORPORATE_DB, located on a SQL Server named DB_SERVER_01 is going to be used and accessed by SQL Server userid user_abc with password pw1234, the following command would be used:

Abm.Server.CalcEngine.Shell.exe DATABASE=(SQLSERVER,DB_SERVER_01,CORPORATE_DB,false,user_abc,pw1234)

This information should already have been provided during the installation process and should already be correct. It will be necessary to configure the database if this information was not provided during the installation or if you wish to make modifications.

OLAP Server

Using the **OLAP** parameter we can define which OLAP server will be used and the access credentials that will be utilized. In this case, it is important to note that besides the OLAP configurations given, it is possible that other configurations will be necessary depending on the OLAP server being used and its configurations.

In the specific case of Microsoft Analysis Server, if HTTP access is not configured, MyABCM Corporate Calculation Engine Server will try to access it directly and this will require Windows integrated authentication. In this case, it will be necessary to have the credentials being used for MyABCM Corporate Calculation Engine Server registered in the Analysis Server so that the system will function correctly. More details can be obtained in the Analysis Server documentation.

Just as an example, if the server name is OLAP_SVR1 and HTTP access is activated and the access credentials are user_abc with password pw1234, the following command would be used:

Abm.Server.CalcEngine.Shell.exe OLAP=(SQLSERVER,MULTIDIMENSIONAL,OLAP_SVR1,false,user_abc,pw1234)

OLAP_DB=(false,user_abc,pw1234)

Change OLAP database configuration.



OLAP_DB_PREFIX=MYABCM_CLOUD_DW

Change OLAP database prefix, used to warehouse data from the OLAP database.

OLAP_TIMEOUTS=(180,180)

Change the time limit to access the OLAP database (in seconds).

• Mail Server (email)

MyABCM Corporate Calculation Engine Server depends on a mail server to send messages to administrators ad users about important events like the completion of processing or even internal system errors. This is why it is important that the system be informed of these parameters soon after the installation by using the **MAIL** parameter.

Just as an example, if the SMTP mail server's name is MSERVER01 and it is using port 1025, and the access credentials are adm_corporate with password pw1234, and the originating email address is adm_corporate@myabcm.com, and the administrator's email address is johndoe@myabcm.com and a second administrator's email address is markz@myabcm.com, and the administrator's email address is johndoe@myabcm.com and a second administrator's email address is markz@myabcm.com, the following command would be used:

Syntax:

Abm.Server.CalcEngine.Shell.exe

MAIL=(my_smtp_server.net,1025,user1,psw_user1,send_from@sample.com,send_to@sample.co m,send_cc@sample.com,true)

Example:

Abm.Server.CalcEngine.Shell.exe MAIL=(MSERVER01,1025,adm_corporate,pw1234, adm_corporate@myabcm.com, johndoe@myabcm.com, markz@myabcm.com,true)

Abm.Server.CalcEngine.Shell.exe SEND_TEST_MAIL=(send_to@sample.com) Tests the configuration of the email by sending a test email.

• Default Language

MyABCM Corporate Calculation Engine Server is an application that supports multiple languages simultaneously for the application interface as well as the cost model. The user always makes the choice of language after logging onto the system, however in the case of a few internal routines that depend directly on the user that is logged on, it will be necessary to define the language to be used.

There are a few cases such as the recording of messages for the Windows event log and other situations where it will be necessary to define the specific language. Just as an example, if you wish to use "Brazilian Portuguese", the following command would be used:

Abm.Server.CalcEngine.Shell.exe CULT=pt-BR



Since MyABCM Corporate Application Server already comes pre-configured to use US English (en-US) internally, this configuration doesn't need to be altered unless you wish to change languages.



• File Store Directory

Whenever users upload a file to the MyABCM Corporate Calculation Engine Server, this information will be registered in the database and the files will be stored in the directory that has been defined by the FILE_STORE_PATH parameter. Just as an example, if you wish to use the directory C:\FSTORE as your file store directory, you would use the following command:

Abm.Server.CalcEngine.Shell.exe FILE_STORE_PATH="C:\FSTORE"

If the database is created by the installer, this parameter already should be correct. If it is not, you will have to configure this parameter. In addition, this should point to the same directory as the FILE_STORE_PATH for MyABCM Corporate Application Server, because the files saved in this location by MyABCM Corporate Calculation Engine Server are normally accessed by MyABCM Corporate Application Server.

Along with the parameters that we have already discussed, **Abm.Server.CalcEngine.Shell** also supports the following additional parameters:

• HOST_UNIQUE_NAME

Define the unique name for the host where the instance of MyABCM Corporate Calculation Engine Server is being configured. This is particularly important when there is more than one instance of MyABCM Corporate Calculation Engine Server on the network.

• MAX_WAIT_BEFORE_DEACTIVATE_HOST

Define the number of tries that MyABCM Corporate Calculation Engine Server should make before deactivating another instance on the network that's delaying a pending operation.

• MAX_IMPORT_ERRORS=200

Maximum number of errors permitted in the import before it is cancelled.

• DATABASE_CONNECTION_RETRY_TIME=60000

Wait time before trying to connect to the database again.

• MAIN_THREAD_SLEEP_eTIME=2000

Wait time for the initialization of each operation.

• SURVEYS_NOTIFICATION=(1,120000)

Wait time in milliseconds.



• ADD_OPERATION_OWNER

Registers a new server for the MyABCM Corporate Calculation Engine Server with the system.

• UPDATE_OPERATION_OWNER

Registers the configurations of the current server for the MyABCM Corporate Calculation Engine Server.

• REMOVE_OPERATION_OWNER

Removes the registration of the current server for the MyABCM Corporate Calculation Engine Server.

• GET_OPERATION_OWNERS

Obtains the system's list of registered servers for MyABCM Corporate Calculation Engine Server.

DATABASE_OPERATION_TIMEOUT

Defines how long the system will wait before timing out and cancelling a database operation.

• DATABASE_LOG_OPERATION_TIMEOUT

Defines how long the system will wait before timing out and cancelling a database operation for operations that are known to take a long time like copying models.

• LIST_PARAMETERS

Lists all the parameters that are currently in use in the shell.

• CACHE_MEMBERS_BEFORE_IMPORTING=0

Cache the structural members before importing periodic data.

• MAX_ROWS_IN_IMPORT_TRANSACTION=100

Number of rows to be stored in cache before importing each transaction.

• MAX_ROWS_IN_ETL_PACKAGE_LOG=10000

Number of errors rows registered before the execution of the ETL is cancelled.



• ENABLE_STRONG_PASSWORD_VALIDATION=true

Minimum of 8 characters, with at least 3 of them having to be:

- o Capital letters
- o Numbers
- o Special characters (! @ # \$ % ^ & * ? _ ~- ,)

• BLOCK_USER_AFTER_DAYS_WITHOUT_USE=60

Blocks user rights.

• REVOKE_USER_RIGHTS_AFTER_DAYS_WITHOUT_USE=180

After the stipulated days without use, the user's access rights are blocked even if the final Active date has already been stipulated.

• ENFORCE_UNIQUE_PASSWORD_INTERVAL=365

Repeating a password within a period of 365 days is not allowed (in accordance with the example above).

• PURGE_LOGS_INTERVAL=365

Stipulated time to erase old logs – For example: logs older than 365 days will be eliminated.

• GET_LICENSE_DETAILS

Obtain license details.

• GET_EXPIRED_NAMED_LICENSES

Obtain named licenses that have expired.

• REMOVE_LICENSE

Remove license.

• BACKUP_CONFIG="C:\Backup.xml"

Configuration of the backup to an XML file.

• RESTORE_CONFIG="C:\Backup.xml"

Restoration of an XML file configuration.

• LIST_INSTALLED_VERSIONS

List installed versions.

• ETL_CONFIG=(domain,user,psw)

Credential to be used to execute ETL packages.



• ALLOW_IMPOR_OF_MANUALLY_MODIFIED_FACT_XML

Allow import of manually modified xml fact.

• CPU_FACT_PERFORMANCE_LOG

Change the performance of the Log on the CPU.

• LDAP_SYNC

Set LDAP synchronization parameters.

• NUM_PROCS

Change the number of cores to use when processing facts.

• ODBC_PERFORMANCE_LOG

Allow to change Log performance when using ODBC.

• ADONET_PERFORMANCE_LOG

Allow you to change the performance of the Log when used ADO.NET.

• OLAP_DOMAIN

Allows you to change the domain to use for external cube access rights.

• OLAP_ENGINE

Lets you change the mechanism of how OLAP is generated.

• OLAP_OPTIMIZED_SELECT_INSERT

Changes the optimization of SELECT and Insert queries (Tabular mode only).

• TEST_LDAP_CONFIGURATION

Tests the LDAP settings that are configured.

• USE_PRIVATE_LICSTORE

Use private license.

• RESET_LICSTORE

Resets the license repository.

• SYS_INFO

Get System Information.



• LIST_DM_CONNECTORS

Updated list of installed connectors for the DataMap.

• ADD_DM_CONNECTOR

Adds DataMap connector to the system.

• REMOVE_DM_CONNECTOR

Removes DataMap connector from the system.



2. Installing MyABCM Corporate SysAdmin Desktop

2.1. Installing MyABCM Corporate SysAdmin Desktop

- **1.** Begin installing MyABCM Corporate SysAdmin Desktop by double-clicking on the installer.
- 2. Click the <u>Next></u> button.

B MyABCM Corporate SysA	dmin Instalação	×
	Welcome to the MyABCM Corporate SysAdmin Wizard de instalação	
	Select the setup language:	
	English (United States)	~
	Próximo > Cancela	ir

3. Click the <u>Next></u> button again.



4. Select the destination folder and click the <u>Next></u> button.



5. Click the **Install** button to begin the installation.





6. Click the <u>Finish</u> button to complete the installation.





3. How to Use the Administrative Module to Create Users and Models

Soon after you complete the installation and configuration of MyABCM Corporate Server (simplified setup) and MyABCM Corporate SysAdmin Desktop, you should have the following icon for access to the administrative application:





3.1. General Overview of MyABCM Corporate SysAdmin Desktop

The first step after installing MyABCM Corporate Server and MyABCM Corporate SysAdmin Desktop is to create organizations, users and groups. Using MyABCM Corporate SysAdmin, you can create users and groups as well as perform a series of administrative tasks. Before navigating through this Desktop application and just after logging in, it is important that the default administrator password be modified.

1. Double-click on the MyABCM Corporate SysAdmin icon to open the MyABCM Corporate System Administrator desktop.

MyABCM Corporate System Administrator —	□ ×
(]] → Home	^ 🛈 😯
Crganizations Models Idioms Dynamic Event Administrators Licenses Search Templates	
Welcome to MyABCM Corporate System Administrator	
To start using MyABCM Corporate System Administrator, you must logon.	
Local DESKTOP-RNUNT2J Remote User/Password Inttp://192.168.56.103:2208 Connect I forgot my password Send user by e-mail Connect Cancel	

At this point, the following window should be open:

Use the Server according to your installation, the default is usually <u>http://localhost:2208</u>.
 Use the user name admin and the password myabcm to enter the system for the first time.

Just after you login, the initial Administrator window should be open like the example below:



The first and most important step is to modify the default password of the administrator's userid.



3. Click on the Administrators tab to open the user details window.

The user details allows you to modify many details relating to the administrator userid and the first thing that has to be done is modify the admin password to preserve the security of the product.

	MyABCM Corporate System Administrator		×
(≣, → Home		^	• •
Organizations Models Idioms Dynamic Eve Dynamic Log	Administrators Licenses Search Export Templates		
	Home		
Administrator			
User Name: Full Name: Password:	admin Administrator		

4. Modify the **password**, provide an **e-mail** address and modify any other parameters that you like before clicking the **Save** button to save your changes.

The functions of the MyABCM Corporate SysAdmin are organized into the following functional groups:

Organizations: Administration of users and groups

The first step that you will take in the Administrator application is usually the creation of organizations and after users. When you create a user, the following details can be filled in:



Terre Home	MyABCM Corporate System Administrator	- □ × ^ ĵ ?
Organizations Models Idioms Dynamic Drivers	Event Administrators Licenses Search Export Templates	
→ MyABCM USA → Use	rs	
User Name:		
Full Name:		
Password:		
	User must change password at next login	
E-Mail:		
Phone:		
Factor:	1,00	
Session timeout (minutes):	20	
Password duration (days):	30 Maximum failed password attempts: 10	
Time zone:	(UTC) Coordinated Universal Time	
Default Language:	English •	
Role:	Regular (All Components) -	
Can create model		
S Use LDAP authentication		
Use LDAP synchronization		
Activate		
Private space (MB):	0	
License:	Validate	
Accessible Components:	Modeling Integration Analyses	
Available groups:	Groups in use:	
	Add Remove Save	
Server: http://localhost:2208		

User Name: The name that the user will use on the logon page.

Full Name: The user's complete name.

Password: The password that the user will use (note that the user can change this password at any time).

E-Mail: The user's email address.

Phone: The user's telephone number.

Factor: The user's salary factor (if provided, this information is used in the weighted drivers used in Surveys). This configuration doesn't need to be altered in MyABCM Corporate Server when simplified setup because it doesn't have WEB access.

Session timeout (minutes): Maximum amount of time that a session can be inactive before the session expires.

Password duration (days): How long the password remains valid (in days).



Maximum failed password attempts: Number of times in a row that the system will accept someone trying to use the wrong password before the user is blocked.

Time zone: User's time zone.

Default Language: Default language to be used by the user (note that the user can choose another language after logging on).

Role: User profile. The possible values are **Regular** for a normal user, **Complete** for system administrators, and **Limited** for analysis administrators.

Can create model: Defines whether the user can create models.

Use LDAP authentication: Defines whether the system should use external LDAP authentication or internal authentication. If this option is selected, the system will ignore all parameters related to the password and will use the LDAP server to authenticate the user's password.

Use LDAP synchronization: Configure the product so that users are synchronized with a Microsoft Active Directory (LDAP) server.

Activate: Enables or disables the user. All users, when enabled, need to have an end date after which the user will be disabled automatically.

Private space (MB): This is the maximum amount of space that the user will have available to make uploads to the server or to export files.

The private space field should be filled in, because otherwise the user won't be able to upload files, imports or exports.

License: License associated with a specific user. Usage licenses for MyABCM Corporate Server are normally associated directly with the server and type of server, but it is possible to associate a license with a specific user. In this case, the user will always have access to the system no matter how many total licenses are available on the server.

Important note: The license listed in this field must have a name in order to function.

Accessible Components: Features that will be available for the user.

At least one component should be selected so that the user has access to the system's functionality.

Available Groups: List of groups available to the organization you created.

Groups in Use: List of groups that the user belongs to

Besides creating users, you can create groups and associate these groups to existing users. The use of groups makes defining access rights simpler, because these rights can be associated with users or groups.



• **Models**: Administration of models.

The function of model administration is to enable the system administrator to create or remove models. Note that even though the administrator can create and remove models, the administrator does not have access to the models' content.

In this model creation window, the following information needs to be provided:

Add	×	<
Name:		
Reference:		
Description:		
Auditing Level:	Disabled	•
Organization	MyABCM - EN	-
User	User 1	•
	OK Cancel	

Name: Model name.

Reference: Reference code.

Description: Model description.

Audit Level: The audit level to be used with this model. The levels are:

- **Disabled:** No auditing;
- **Basic:** Register just logon/logoff operations;
- **Intermediate:** Register logon/logoff operations and asynchronous/scheduled operations like calculations, running the entire model, imports and exports;
- **Complete:** Register all executed operations.

Organization: Organization assigned to the model.

User: Define which user will be considered the model's owner. This is very important, because the model's owner is the only user with unrestricted access to the model.

• Idioms: Administration of languages to be used in the models.

The function of language administration allows the user to define which languages will be used when the model is created. The system comes with English, Spanish, French and Portuguese as standard options.

If the model is just going to be used in English, it is important that the languages "Spanish", "French" and "Portuguese" be immediately removed to avoid any type of confusion on the part of the users.


• Dynamic Drivers: Administration of custom cost drivers

MyABCM Corporate Server supports the use of different types of cost drivers, however in some cases the user may want to create a very specific driver that is not found among the drivers provided by the system. In this case, the system administrator can define a custom driver.

-		MyABCM Corporate System Administrator	
	Home		^ 🖲 😲
(Corgar	izations Models	Idioms Variante Event Drivers Logs Variante Administrators Licenses Search Templates Home	
$\hat{\Box}$	Driver Det	ails	
	Name: Reference:		
	Description:		
	Model:		
Dynamic Drivers > Driver Details	Query:		
		Save	
🕀 La	nguage: English	💄 My Profile: Administrator 🛛 🖵 Server: http://192.168.56.103:2208	.::

The window where dynamic drivers are defined has the following fields:

Name: Custom driver name.

Reference: Reference code. This field is extremely important because the user should use this reference when using custom drivers in the model.

Description: Custom driver description.

Model: Associated model, because custom drivers are always created for individual models.

Query: The SQL statement that will be used to retrieve the driver quantity. This statement must use the following mandatory parameters:

@SRC_MEMBER_ID : the source member ID.
@SRC_ASSOCIATION_ID: the source association ID.
@DST_MEMBER_ID: the destination member ID.
@DST_ASSOCIATION_ID: the destination association ID.

In addition, this query should return just one column and one row with the quantity of the related driver.



If for any reason, including for questions of performance, it is preferable to use a stored procedure for a custom driver, one option is to create a stored procedure in the database with the same parameters and return results and give the user the procedure name directly. This is possible, because if MyABCM Corporate Server cannot find the custom driver mentioned by the user in the calculated driver formula, it will look for a stored procedure with the same name.

• Event Logs:

Sessions: To view the system's audit logs.

MyABCM Corporate Server registers all system user activity according to the definition created by the administrator when the model is created. You can view the different types of logs on this page.

Operations: List of all scheduled, in progress of finished operations in the system.

- Administrators: To view and edit the list of administrators in the system.
- Licenses: To view the details of the user license.

On the license window, you can update license data as well as view it.

• **Search**: Search for users, groups and models.

When the system has more than a few dozen users, the search window makes it easier to locate users. This search can also be used to locate groups and models.



3.2. Creating Organizations, Users and Groups

3.2.1. Creating Organizations

1. Click **Organizations** and then click **Actions > Add**.

-0		MyABCM Corp	orate System Administrator	_	o x
I] → Home					^ () (?
Organizations Models Idioms Dynamic Ev Drivers Lo	vent gs v	icenses Search	Export Templates		
Select: All None					
Description	Add				Edit
	Remove				

2. In the Add dialog box, fill in the name of the group that you are creating and click the **OK** button.

Add		×
Description:	MyABCM - EN	
		OK Cancel

3.2.2. Creating a New Group

1. Click Organizations, choose the desired organization and then click Groups.

-				
(<u>∎</u> ⊽ H	ome			
Organizatio	ons Models	Idioms	Dynamic Drivers	Event Logs ~
				Home
☆ ► M	Iyabcm - Ei	N		Home
	iyabcm - Ei	N		Home



2. Click the Actions button and select Add.

🔹 MyABCM Corporate :	ystem Administrator — 🗆 🗙
III ▼ Home	^ 🖸 🥹
Organizations Models Idioms Dynamic Event Administrators Licenses Search Exp Drivers Logs V	rt ites
Home	
← MyABCM - EN Select: All None	
Name	Add Edit
	Remove
	Import Group

3. In the Add dialog box, fill in the name of the group that you are creating and click the OK button.

Add		×
Description:	Financial	
		OK Cancel

3.2.3. Creating a New User

1. Click **Organizations**, choose the desired organization and then click **Users**.





2. Click the Actions button and the select Add.

ling → Home	MyAt	3CM Corporate	System Administrator
Organizations Models Idioms Dynamic Event Drivers Logs	Administrators Licenses	Search Exp Temp	2 Joort Jalates
Home	Select: All	None	Actions 🔻
FullName		<u> </u>	Add
			Remove
			Restore
			Move To
			Import User
			Activate LDAP Synchronization
			Deactivate LDAP Synchronization
			Transfer Files To
Ser			

On the user details window, fill in at least the following fields:

	MyABCM Corporate System Administrator — 🗆 🗙							
	→ Home	^ ① ②						
Org	rganizations Models Idloms Dynamic Event Administrators Licenses Search Templates Home							
\bigcirc	► MyABCM - EN ► Use	rs						
	User Name:	User 1						
	Full Name:	User 1						
	Password:	*****						
		User must change password at next login						
	E-Mail:	user1@myabcm.com						
	Phone:							
	Factor:	1,00						
	Session timeout (minutes):	60						
	Password duration (days):	60 Maximum failed password attempts: 10						
	Time zone:	(UTC) Tempo Universal Coordenado						
<u></u>	Default Language:	English v						
etai	Role:	Regular (All Components)						
SerD	Can create model							
×								
Users	Use LDAP synchronization							
^ S	Activate	30/06/2023 -						
ŝ	Private space (MB):	1024						
ABC	License:	Validate						
1 2 1	Accessible Components:	✓ Modeling ✓ Integration ✓ Analyses ✓ Surveys ✓ SM						
SLO	Available groups:	Groups in use:						
izati	Financial							
lgan	Resources	Add						
ō		Remove						
١	🕽 Language: English 💄 My Profile: Administrator 📮 Server: http://192.168.56.103:2208 🔬							

User Name: The name used for logging onto the system.



Full Name: The user's complete name.

Password: The user's password (this password can be changed by the user at any time).

E-Mail: The user's email. This information is essential because for various lengthy operations, the user will have the option of asking the system to notify him or her by email when the operation has finished.

Phone: The user's telephone number.

Factor: The user's salary factor (if provided, this information is used in the weighted drivers used in Surveys).

Session timeout (minutes): Maximum time of inactivity allowed before the system logs out the user.

Password duration (days): Maximum number of days using the same password before the system forces the user to change the password.

Maximum failed password attempts: Maximum times the user can enter a wrong password in sequence before the system disabled the user.

Time zone: The user's time zone. This is also very important because the scheduling of all operations depends on the user's correct local time.

Default Language: Idiom that is selected just after the logon (this can be changed any time after the logon).

Role: User's role in the system. Every user can be "Regular", "Complete" or "Limited". Regular users can use all software components, Complete is the user management whereas Limited users can only access analysis window.

Can create model: Defines whether the user has the right to create new models or just use existing models.

Use LDAP authentication: If an LDAP server was provided during the setup and this option is selected, the system will ignore all parameters related to the password and will use the LDAP server to authenticate the user's password.

Use LDAP synchronization: Configure the product so that users are synchronized with a Microsoft Active Directory (LDAP) server.

Activate: For the user to be able to effectively logon to the system, this option must be selected, and an end date must be defined after which the user will be disabled automatically.



Private Space (MB): This is the maximum amount of space that the user will have available to make uploads to the server or to export files.

License: License associated with a specific user. Usage licenses for MyABCM Corporate Application Server are normally associated directly with the server and type of server, but it is possible to associate a license with a specific user. In this case, the user will always have access to the system no matter how many total licenses are available on the server.

Accessible Components: Features that will be available for the user.

Groups: List of groups that the user belongs to.

Besides creating users, you can create groups and associate these groups to existing users. The use of groups makes defining access rights simpler, because these rights can be associated with users or groups.

3. Click the Save button to save the information that you have provided.

Available groups:		Groups in use:	
Resources		Financial	
	Add		
	Remove		Save



3.3. Creating Models

To create a model, follow these steps:

1. Click on Models.



2. Click on the Actions button and then select Add.

		MyABCM Corporate System	m Administrator			
I] マ Home						
Organizations Models Idioms Dynamic Eve Drivers Logs	Administrators Lic	tenses Search Export Templates				
Select: All None Actions 🗸						
Name	Add	Description				
	Remove					

3. In the **Add** dialog box, fill in the following fields:

Add	×	
Name:		
Reference:]
Description:		
Auditing Level:	Disabled -	
Organization	MyABCM - EN -]
User	User 1 -	
	OK Cancel]

Name: Name of the model that you are creating.

Reference: Reference code.

Description: Model description.



Audit Level: The audit level to be used with this model. More information about these levels may be obtained in section 3.1.

Organization: Defines in which organization the model will be created.

User: Define which user will be considered the model's owner. This is very important, because the model's owner is the only user with unrestricted access to the model.

- 4. Click on the **OK** button to create the model.
- 5. After creating the model, click on the Access Rights icon.

MyABCM Corporate System Administrator				-	n x
To Home					^ () (?
Organizations Models Idioms Dynamic Eve Drivers Logs	Administrators Licenses Search	Export Templates			
Select: All None	Actions 🔻				
Name	Reference	Description	User	Access Rights	Details
Model 1	MDL - 001		User 1		

6. In the Access Rights dialog box, define the access rights to the model and click the OK button to save them.

Access Right						×
Users Groups						
Name	Access Right	Edit		×	Smart Metrics	Edit
Coordinator	Not Defined					
User 2	Not Defined	Access Right:	Super User	-		
User 3	Not Defined	Modeling:	With Access	-		
		Integration:	Read Write	-		
		Analyses:	Read Write	-		
		Surveys:	Creator	-		
		Smart Metrics:	Read Only	-		
		4	This operation cannot be undone.			
			ОК Са	incel		
						Close



4. Updating the MyABCM Corporate Installation

The automatic update system should be executed just one time on the server that has **MyABCM Corporate Server** components installed. That is, the 2 components (Application Server and the Calculation Engine Server) that are on a single server, the automatic update of the system will only be executed once.



4.1. Installing the automatic update system

The installation of **MyABCM Corporate System Update** is done using the executable which comes in the installation package for **MyABCM Corporate Server**.

1. Double click on the application.

The myabcm-corporate-system-update-11.0.0.13032

2. If a pop-up window appears asking you to confirm that you want to execute this program, click <u>Yes</u>.



3. Click <u>Next</u> >.

system System State Stat	em Update Setup	Х
R	Welcome to the MyABCM Corporate System Update Setup Wizard	
	The Setup Wizard will install MyABCM Corporate System Update on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.	
	< Back Next > Cancel	

4. Select the installation folder and then click <u>Next</u> >.



5. Begin the installation by clicking **Install**.

👼 MyABCM Corporate System Update Setup 🛛 🗙
Ready to Install The Setup Wizard is ready to begin the MyABCM Corporate System Update installation
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Advanced Installer



6. When the process has been completed click **<u>F</u>inish**.





4.2. Executing the automatic update system

Updating the installation of any of the MyABCM Corporate Server components is very simple to do using the automatic update system, but some care needs to be taken to make sure it is successful. Even though the automatic update system is designed to stop the services MyABCM Corporate Calculation Engine, MyABCM Corporate Application Server and the MyABCM Corporate Licensing Service, it's recommended that you stop these services manually before you begin your MyABCM Corporate System Update. In addition to stopping any MyABCM Corporate services that are running, we recommend that the Desktop application of the MyABCM Corporate Server be stopped as well.

4.2.1. Stopping the Windows and Application Services

The following services can potentially be installed:

- MyABCM Corporate Application Server
- MyABCM Corporate Licensing Service
- MyABCM Corporate Calculation Engine
- 1. Using the Windows search, type **Services** and find the above mentioned services:





2. Click on MyABCM Corporate Application Server, and then click Stop.

🔍 S	ervices						_		×
File	Action V	ew Help							
<hr/>	I	0 🗟	? 🖬 🕨 🔲 🛛 🕩						
Q, Si	ervices (Local) 🚫 Se	rvices (Local) Stop Serv	vice					
		MyABC	M Corporate Application	1	Name	^	Description	Status	^
					Microsoft Storage Space	SMP	Host service	Dunning	_
		Stop the	e service		MyABCM Corporate App	ulation Engine Server		Running	
		Kestart t	ine service		MyABCM Corporate Lice	nsing Service		Running	
					<	-			>
		Extend	ed Standard /						
â	Convicos					_			
2000	Services								
File	Action	View H	lelp			_			
()	🔿 📊	🗐 🖸 🗉	🗟 🛛 🛐 🖿 🖉		I IÞ				
Q, 9	Services (Lo	cal)	Services (Local)						
	Service C	ontrol			×				
	Windows	is attempting	g to stop the following s	ervic	e on Local Computer				
	MyABCM	Corporate A	pplication Server						
			Close]					

3. Repeat the same procedure for the other services (when applicable - MyABCM Corporate Licensing Service and MyABCM Corporate Calculation Engine).



4.2.2. Executing the MyABCM Corporate System Update

1. Double click the MyABCM Corporate System Update icon.



2. If a pop-up window appears asking you to confirm that you want to execute this program, click <u>Yes</u>.



3. Click the <u>Next</u> button to advance.



4. Leave **Internet** selected to obtain direct updates from the MyABCM servers or select **Local File** to activate the off-line update option (based on a file). If you select the **Local File** option, then click on the [...] button to find and select the update file.

MyABCM Corporate Server System Update	
MyABCM Corporate Server System Update Wizard	
Select from where to get the update package:	
O Internet	
Local File	
	< Back Next > Cancel

5. After selecting the file, click on the **Open** button.

MyABCM Corporate Serve	r System Update			
MyABCM Corporate	Server System Update Wiza	rd		
Select from where to g	et the update package:			~
	Open			×
O Internet	← → ~ ↑ 🗖 > T	his PC > Desktop >	マ Ö Search Desktop	م
	Organize 👻 New fold	ler	E	= - 🔳 🕐
Local File	🖈 Quick access	Name	Date modified	Туре
	📃 Desktop 📌	UPDATE_10.0.12145_TO_11.0.13032	15/03/2023 14:30	Compressed (zipp
	👆 Downloads 🛛 🖈			
	🖀 Documents 🖈			
	Fictures 🖈			
	This PC			
	💣 Network			
	DESKTOP-RNUNT2	1		
	VBOXSVR	<		>
	File r	name: UPDATE_10.0.12145_TO_11.0.13032	✓ Zip Files (*.zip)	~
			Open	Cancel

6. Click the <u>Next > button to proceed</u>.

MyABCM Corporat	e Server System Update
MyABCM Corp	orate Server System Update Wizard
Select from wh	ere to get the update package:
 Internet 	
Local File	
	C:\Users\vania.gomes\Desktop\UPDATE_10.0.12145_TO_11.0.13032.zip
	< Back Next > Cancel

Then click the Next > button and a window will appear with a list of installed products, their version numbers, and installation dates and the number of the Update that's available, and then click Next > to proceed.

MyABCM Corporate Server System Update								
MyABCM Corporate Server System Update Wizard								
Currently installed products:								
Product	Current Version	Installation Date						
Application Server	10.0.12145	01/11/2021 12:06:29						
Calculation Engine Server	10.0.12145	01/11/2021 12:06:29						
WEB Server	10.0.12145	01/11/2021 12:06:29						
New update 11.0.13032 available.								
	10-							
	< Bac	Cancel						



Remember that, the example above is based on the principle that all of the components are installed on a single server. If it was installed on different computers, only the installed product will appear on this screen. Therefore, it will be necessary to repeat all these procedures for each component.



8. A list of modifications will appear. Now click on the <u>Next</u> > button.



9. If the update package being installed contains database modifications, the database user will need to provide his or her username and password (for users with permission to create objects in the database), or select the option **Save sql script for later execution**, and then click on the [...] button to select a folder and save the script with the commands there for later execution by the DBA, and then click **Install**.

MyABCM Corporate Server S	System Update							
MyABCM Corporate Set	rver System Update W	izard						
O Update database nov	Save As							×
Login:	← → • ↑ 🗖	> This	s PC > Desktop	~	5	Search Desktop		P
Password:	Organize 🔻 Nev	<i>w</i> folder	r					?
 Save sql script for lat 		^	Name		Dat	e modified	Туре	
Filename:	Quick access		script_update_10.0.12	145_TO_11.0.13032.s	15/	03/2023 15:37	SQL File	
	Desktop	*						
	Documents ;	*						
	Pictures ;	*						
	VVBOXSVR\C	on						
	OLAP							
	💻 This PC							
	🍠 Network		,				_	
	File name: script_update_10.0.12145_TO_11.0.13032.sql						~	
	save as type:	Script P	net squ					~
	 Hide Folders 					Save	Cancel	



MyABCM Corporate Serve	er System Update
MyABCM Corporate	Server System Update Wizard
🔿 Update database r	IOW
Login:	
Password:	
 Save sql script for 	later execution
Filename:	C:\Users\vania.gomes\Desktop\script_update_10.0.12145
	< Back Install Cancel

10. After the Update has been completed successfully, click the **Close** button.

MyABCM Corporate Server System Update							
	MyABCM Corporate Server System Update Wizard						
	Check update log for further details: CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \OperationPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \OrganizationDetailsPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \SearchPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \SearchPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \StetMasterPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \StetMasterPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\\$ysAdmin\Scripts \UserPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\SysAdmin\Styles \UserPageScripts.js) CopyFile - ok. (C: \Program Files\MyABCM\Corporate\WebServer\SysAdmin\Styles \UserPageScripts.js)						
	Close						



4.2.3. Restarting the Windows and Desktop Application Services

The services should restart automatically, but it's important to check this manually.

1. Open the Windows services window and verify that the **MyABCM Corporate** services are active and running.

Carriero .						\sim
Services					- 0	^
File Action View	Help					
♦ ♦ □ 0) 📑 🛛 🖬 🕨 🔲 🖬 🕩					
🔍 Services (Local)	Services (Local)					
	MyABCM Corporate Application	Name	Description	Status	Startup Type	^
	Server	🎑 Microsoft Passport Container	Manages Io		Manual (Trigger St	
	Stop the service	🎑 Microsoft Software Shadow Copy Provider	Manages so		Manual	
Restart the service		🎑 Microsoft Storage Spaces SMP	Host service		Manual	
		🖏 MyABCM Corporate Application Server		Running	Automatic	
		Average MyABCM Corporate Calculation Engine Server		Running	Automatic	
		MyABCM Corporate Licensing Service		Running	Automatic	
		🎑 Net.Tcp Port Sharing Service	Provides abi		Disabled	
		🎑 Netlogon	Maintains a	Running	Automatic	
		🍓 Network Connection Broker	Brokers con	Running	Manual (Trigger St	
		🎑 Network Connections	Manages o		Manual	
		🎑 Network Connectivity Assistant	Provides Dir		Manual (Trigger St	🗸
		<				>
-	Extended Standard					



5. Advanced Topics

The previous topics of this guide explain in details how to install and configure MyABCM Corporate Server, but due to the desired architecture and security policies required by the organization using the product, further configurations like for the use of HTTPS might be necessary.

The several following sessions explain the most common additional configurations and how to apply them. Use each session independently for helping you when configuring the product.

5.1. Configuring a Database Manually

If the database for MyABCM Corporate Server has not been created by the installer, it is possible to create it manually. The following steps will explain how to do.

All the SQL scripts mentioned in this section are located within the installation directory of MyABCM Corporate Application Server Component in a subdirectory named **sql**. The complete path is usually **c:\program files\myabcm\Corporate\appserver\sql**.

In addition, there are versions of the scripts there for both SQL Server:

Description	SQL Server
Database creation scripts	SQL Server (2008/2012): db_createdb_sqlserver.sql
User Creation Scripts for MyABCM Corporate Server	SQL Server (2008/2012): db_createuser_sqlserver.sql
Table Diagram Creation Scripts	SQL Server (2008/2012): db_diagram_sqlserver.sql
	SQL Server 2008: db_triggers_sqlserver_2005_2008.sql
Trigger Creation Scripts	SQL Server 2012: db_triggers_sqlserver_2012.sql
Function Creation Scripts	SQL Server (2008/2012): db_functions_sqlserver.sql
Stored Procedure Creation Scripts	SQL Server (2008/2012): db_sp_sqlserver_common.sql SQL Server 2008: db_sp_sqlserver_2005_2008.sql
	SQL Server 2012: db_sp_sqlserver_2012.sql
Scripts to Initialize Specific Data	SQL Server (2008/2012): db_initialsetup_sqlserver.sql
	SQL Server (2008/2012): db_export_templates_sqlserver.sql

!

If the database to be used is Microsoft SQL Server, the Analysis Services component should be present in order to make all of the OLAP functionality of MyABCM available.



5.1.1. Configuring a SQL Server 2008 Database

1. Using Microsoft SQL Server Management Studio, execute the following SQL scripts in order:

db_createdb_sqlserver.sql db_diagram_sqlserver.sql db_triggers_sqlserver_2005_2008.sql db_functions_sqlserver.sql db_sp_sqlserver_common.sql db_sp_sqlserver_2005_2008.sql db_export_templates_sqlserver.sql db_initialsetup_sqlserver.sql db_createuser_sqlserver.sql These SQL scripts should create a new SQL Server database and all objects associated with it.

The script **db_sysmessages_sqlserver_2005_2008.sql** is optional and serves to register the list of possible database access errors generated by MyABCM Corporate in the SQL Server 2005/2008 message table. The execution of this script will provide the user with more precise error codes.

2. After the proper creation of all the database objects, use Abm.Server.Shell.exe and Abm.Server.CalcEngine.Shell.exe to configure MyABCM Corporate Application Server and MyABCM Corporate Calculation Engine Server for proper access to the database you have created.

More details about configuration can be obtained in the previous sections of this manual.

5.1.2. Configuring a SQL Server 2012 Database

- 1. Using Microsoft SQL Server Management Studio, execute the following SQL scripts in order:
 - db_createdb_sqlserver.sql db_diagram_sqlserver.sql db_triggers_sqlserver_2012.sql db_functions_sqlserver.sql db_sp_sqlserver_common.sql db_sp_sqlserver_2012.sql db_export_templates_sqlserver.sql db_initialsetup_sqlserver.sql

These SQL scripts should create a new SQL database and all the objects associated with it.



2. After the proper creation of all the database objects, use Abm.Server.Shell.exe and Abm.Server.CalcEngine.Shell.exe to configure MyABCM Corporate Application Server Component and MyABCM Corporate Calculation Engine Server for proper access to the database you have created.

More details about configuration can be obtained in the previous sections of this manual.



5.2. Configuring Access to Microsoft Analysis Services

Even though access to Microsoft Analysis Services (MSAS) is already available via HTTP/HTTPS using the MSMDPUMP.DLL together with IIS, MyABCM Corporate Server Component requires additional manual adjustments to correctly access MSAS. This is necessary because direct access to MSAS normally requires that the userid that is accessing MSAS be part of the same domain as MSAS and that it be a registered user with access rights to MSAS.

MyABCM Corporate Calculation Engine Server require direct access to MSAS and need to be executed with a userid in the same domain where MSAS is registered.

In the case of **MyABCM Corporate Server**, which is an application that runs within IIS, it is pre-configured to use the ID **ApplicationPoolIdentity** which is the identity defined for the **MyABCMApplicationPool**. Since this identity should not have access to MSAS, it is necessary to substitute it manually for another ID that is registered with MSAS.

To modify this IIS ID, follow these steps:

- 1. Open Internet Information Services (IIS) Manager.
- 2. Select Application Pools.
- 3. Select the Application Pool called MyABCMApplicationPool and then click on Advanced Settings...
- 4. In the Advanced Settings dialog box, select Identity.
- 5. Click on the icon next to ApplicationPoolIdentity.



- **6.** Select an appropriate ID that has access rights to MSAS and the installation directory for MyABCM Corporate Server and then click the **OK** button.
- 7. In the Advanced Options window, click the OK button to save your changes.

Besides modifying the IIS, you need to modify the logon account for the MyABCM Corporate Calculation Engine Server service. Follow these steps to make this modification on the computer where the MyABCM Corporate Calculation Engine Server was installed:



1. Using the Windows Control Panel, select Administrative Tools and then Services.

A window like the example below should appear:

🔍 Services					- 0	×
File Action View	Help					
) 🗟 👔 📰 🕨 🔲 II 🕪					
Services (Local)	Services (Local)					
	MyABCM Corporate Calculation	Name	Description	Status	Startup Type	^
	Engine Server	MyABCM Corporate Calculation Engine Server		Running	Automatic	
	Stop the service	MyABCM Corporate Licensing Service		Running	Automatic	
	Restart the service	🍓 Net.Tcp Port Sharing Service	Provides abi		Disabled	
		🏩 Netlogon	Maintains a	Running	Automatic	~
		<				>
	Extended Standard					

- 2. Find and double-click on the MyABCM Corporate Calculation Engine service.
- **3.** In the popup window called **MyABCM Corporate Calculation Engine Properties**, click on the Log On tab.

MyABCM Corporate Ca	lculation Engine Server Properties (Local Co 💙	<
General Log On Rec	overy Dependencies	
Log on as:		
 Local System account Allow service to a 	int interact with desktop	
O This account:	Browse	
Password:		
Confirm password:		
	OK Cancel Apply	

- 4. Change the logon from the Local System Account to This account and select a valid ID that has local rights and is registered in MSAS.
- **5.** Click the **OK** button to complete the operation.

After these configurations, MyABCM Corporate Calculation Engine Server should be able to access MSAS without any difficulties.



5.3. Executing MyABCM Corporate Application Server component within IIS

MyABCM Corporate Application Server component comes pre-configured to be executed as a Windows service; however, it also can executed within IIS. This is particularly useful in case there is a need to expand MyABCM Corporate Application Server's processing capacity through the use of multiple servers.

MyABCM Corporate Application Server Component is capable of being executed as a group of services within IIS and supports its execution in environments like a "Server Farm" using Windows Server's Network Load Balancing (NLB) component together with IIS.

The only tasks that should be executed in this case are the disabling of the MyABCM Corporate Application Server Component local service and the subsequent configuration of equivalent services in IIS.

Follow these steps to disable the MyABCM Corporate Application Server service:

1. Using the Windows Control Panel, select Administrative Tools and then Services.

A window like the one below should appear:

🔍 Services					- 0	×
File Action View	Help					
🗢 🏟 📊 🗔 🖸	🕽 📑 🛛 🖬 🕨 🔲 🔢 🕩					
Services (Local)	Services (Local)					
	MyABCM Corporate Application	Name	Description	Status	Startup Type	^
	Server	MyABCM Corporate Application Server		Running	Automatic	
	Stop the service	MyABCM Corporate Calculation Engine Server		Running	Automatic	
	Restart the service	🍓 MyABCM Corporate Licensing Service		Running	Automatic	
		🔍 Net.Tcp Port Sharing Service	Provides abi		Disabled	~
		<				>
	Extended Standard					

- 2. Find and double-click on the MyABCM Corporate Application Server service.
- **3.** In the **MyABCM Corporate Application Server Properties** window, click the **Stop** button to disable the service.
- 4. Change the Startup Type from Automatic to Disabled.
- 5. Click the **OK** button to complete the operation.

After disabling the service, you need to configure WEB services within IIS. To do this, follow these steps:

- **1.** Open Internet Information Services (IIS) Manager.
- 2. Click the right mouse button on Sites and then on Add Web Site...
- 3. For Site Name, type: MyABCMCorporateApplicationServer
- 4. For Application Pool, type DefaultAppPool



5. For Physical Path, select the installation directory for MyABCM Corporate Application Server

This directory usually is c:\program files\myabcm\Corporate\appserver

- 6. For Binding, type: 2208
- 7. Click the **OK** button to add the new web site.

With your web site created, the last step is to make sure that the ID used by the pool (**DefaultAppPool**) has access rights to the installation directory of MyABCM Corporate Application Server. To do this, follow these steps:

- **1.** Open Windows Explorer and find the installation directory for MyABCM Corporate Application Server Component.
- 2. Click the right mouse button on it and select Properties.
- 3. Click the Security tab and then Edit...
- 4. In the dialog box **Permissions for AppServer**, click on the **Add...** button.
- 5. In the dialog box Select Users or Groups, type: IIS AppPool\DefaultAppPool
- 6. Click the **OK** button on all the dialog boxes that you've opened to save your changes.

[]

Note that it's not necessary to use **DefaultAppPool** for questions of security, and that it's probably better to create a new Application Pool for the new Web Site. In any event, this is a decision that should be made by the customer's IT area, because it may be related to its internal use of IIS policy.

If MyABCM Corporate Application Server REST API is going to be used to upload files, it might be necessary to increase the **Maximum allowed content length** in IIS/Request Filtering for IIS to let larger files to be uploaded and downloaded via REST API. In order to increase this setting:

1. Select the MyABCM CorporateApplicationServer application on IIS.

2. Double click IIS / Request Filtering.





3. In the Request Filtering page, select the hyper link Edit Feature Settings...



4. In the Edit Request Filtering Settings dialog box, change the Maximum allowed content length (Bytes) to you desired value.

Edit Request Filtering Settings	?	×
General		
Allow unlisted file name extensions		
Allow unlisted verbs		
Allow high-bit characters		
Allow double escaping		
Request Limits		
Maximum allowed content length (Bytes):		
4294967295		
Maximum URL length (Bytes):		
4096		
Maximum query string (Bytes):		
2048		
ОК	Cancel	

D This value will represent the size of the largest allowed files to be uploaded or downloaded via the REST API.

5. Click OK to confirm the update.



5.4. Using HTTPS protocol

MyABCM Corporate Server uses HTTP protocol out of the box, but this can be easily changed so that HTTPS is used instead for all communication between the end users and MyABCM Corporate Application Server Component.

5.4.1. Stopping and disabling the MyABCM Corporate Application Server (Component) service

MyABCM Corporate Application Server Component runs as a Windows Service out of the box, but in order for it to use SSL, it must be executed inside IIS instead.

- **1.** Open the Windows Local Services window.
- 2. Locate and select the MyABCM Corporate Application Server service.

Services						- 0	×
File Action View	Help						
⇐ ➡ 📰 🖾	à 🗟 🛛 📰 🕨 🔲 II 🕪						
Services (Local)	Services (Local)						
	MyABCM Corporate Application Server	Name	Description	Status	Startup Type	Log On As	^
	Stop the service	Microsoft ISCSI Initiator Service	Manages In		Manual Manual (Trigger St	Local Syste	
	Restart the service	Microsoft Passport Container Microsoft Software Shadow Copy Provi Microsoft Storane Spaces SMP	Manages Io Manages s Host servic		Manual (Trigger St Manual Manual Manual	Local Service Local Syste Network S	
		MyABCM Corporate Application Server	riost servicin	Running	Automatic	Local Syste	
		MyABCM Corporate Calculation Engine		Running	Automatic	Local Syste	
		MyABCM Corporate Licensing Service		Running	Automatic	Local Syste	
		🍓 Net.Tcp Port Sharing Service	Provides ab		Disabled	Local Service	
		🔍 Netlogon	Maintains a	Running	Automatic	Local Syste	
		Network Connection Broker	Brokers co	Running	Manual (Trigger St	Local Syste	
		Network Connections	Manages o		Manual	Local Syste	
		Network Connectivity Assistant	Provides Di		Manual (Trigger St	Local Syste	
		Network List Service	Identifies t	Running	Manual	Local Service	
		Network Location Awareness	Collects an	Running	Automatic	Network S	
		Network Setup Service	The Netwo		Manual (Trigger St	Local Syste	
		Network Store Interface Service	This service	Running	Automatic	Local Service	
		Offline Files	The Offline		Disabled	Local Syste	
		OpenVPN Interactive Service	Allows Ope	Running	Automatic	Local Syste	
		Optimize drives	Helps the c		Manual	Local Syste	
		Performance Counter DLL Host	Enables re		Manual	Local Service	
		Performance Logs & Alerts	Performan		Manual	Local Service	
		Phone Service	Manages t		Manual (Trigger St	Local Service	
		Plug and Play	Enables a c	Running	Manual	Local Syste	
		Portable Device Enumerator Service	Enforces gr		Manual (Trigger St	Local Syste	
		Power	Manages p	Running	Automatic	Local Syste	
		Print Spooler	This service	Running	Automatic	Local Syste	
		Printer Extensions and Notifications	This service		Manual	Local Syste	
		Problem Reports and Solutions Control	This service		Manual	Local Syste	
		Program Compatibility Assistant Service	This service	Running	Automatic	Local Syste	
		Quality Windows Audio Video Experience	Quality Wi		Manual	Local Service	
		Service Radio Management Service	Radio Man		Manual	Local Service	
		Remote Access Auto Connection Mana	Creates a c		Manual	Local Syste	
	Estandard (Standard (Semote Access Connection Manager	Manages di		Manual	Local Syste	~
	Extended / Standard /						

3. Double click the MyABCM Corporate Application Server service.



4. Click the **Stop** button to stop the service.

MyABCM	l Corpora	te Applicat	tion Server Properties (Local Computer)	×
General	Log On	Recovery	Dependencies	
Service	name:	MyABCMC	Cloud Application Server	
Display	name:	MyABCM (Corporate Application Server	
Descrip	tion:		~	
Path to "C:\Pro	executabl gram Files	le: ∖MyABCM∖(Corporate\AppServer\Abm.Server.SystemSen	<i>i</i>
Startup	type:	Automatic	>	
Service S You car from her Start pa	status: itart n specify t re. arameters:	Running Stop he start para	p Pause Resume ameters that apply when you start the service]
			OK Cancel Apply	

5. Change the Startup Type to Disabled.

MyABCM	l Corpora	te Applicat	ion Server Prop	erties (Loca	l Computer)	×
General	Log On	Recovery	Dependencies			
Service	name:	MyABCMC	loudApplicationS	erver		
Display	name:	MyABCM (Corporate Applica	tion Server		
Descrip	tion:				^	
Path to "C:\Pro	executabl gram Files	e: \MyABCM\0	Corporate\AppSe	rver∖Abm.Ser	ver.SystemServ	ń
Startup	type:	Disabled			~	
Service	status:	Stopped				
S	òtart	Stop) Pa	use	Resume	
You car from he	n specify t re.	he start para	meters that apply	when you st	art the service	
Start pa	rameters:]
			ОК	Cancel	Apply	

6. Click the **OK** button to confirm the change.



5.4.2. Creating a new application MyABCM Corporate Application Server

- 1. Open Internet Information Services (IIS) Manager.
- 2. Right click over the server and select Add WEB Site .

🍋 Internet Information Services (IIS) Manager	– 🗆 X
← → ♥ WIN-S022BBN386Q →	😂 🖂 🚯 😦 -
File View Help	
Connections WIN-S022BBN386Q Home	Actions
Start Page Filter: Go Show All Application Pools Refresh Add Website NET Start Start Start Pages Go Show All Controls Pages and Providers Session State SMTP E-mail Controls Controls	Wanage Server Restart Start Stop View Application Pools View Sites Change .NET Framework Version Get New Web Platform Components Help
Keady	Ga

3. Type MyABCMCorporateAppServer in Site name.

te name.	Appl	cation pool:			
	Defa	ultAppPool		Select	
Content Directory					
Physical path:			_		
Pass-through authent	tication				
Connect as	Fest Settings				
	_				
linding					
Туре:	IP address:		Port:		
http ~	All Unassigned	~	80		
Host name:					
Example: www.conto:	so.com or marketing.co	ontoso.com			
	-				
Charles Marketine 1					



4. Click the **Select...** button, change **Application Pool** to **MyABCMApplicationPool** and click the **OK** button.

Select Application Pool	? ×
Application pool:	
MyABCMApplicationPool	~
Properties:	
.Net CLR Version: 4.0 Pipeline mode: Integrated	
ОК	Cancel

5. For Physical Path, select the installation directory for MyABCM Corporate Application Server

This directory usually is c:\program files\myabcm\Corporate\appserver

- 6. Change type to HTTPS.
- 7. Change the port to 2208.
- 8. Select your SSL certificate certificate.
- 9. Click the OK button to create the new site.

	nnServer	MyABCMAnnlica	tionPool	Select	
тульстисогропател	ppserver	myAbemApplied		Select	
Content Directory					
Physical path:					
C:\Program Files\N	lyABCM\Corpora	te\AppServer			
Pass-through auth	entication				
Connect as	Test Settings				
Binding					
Type:	IP address:		Port:		
https	 All Unassigne 	ed	~ 2208		
Host name:			1		
Require Server N	lame Indication				
SSL certificate:					
corporate.my	abcm.com	~	Select	View	
Start Website imm	ediately				
-					



5.4.3. Updating the configuration files

The last step in order to use **SSL** is updating the configuration files for MyABCM Corporate Application Server Component.

1. Start the **command prompt** with administrator rights.



2. Select the MyABCM Corporate Application Server directory: (usully C:\Program Files\MyABCM\Corporate\AppServer)



3. Execute the following command:

Abm.Server.Shell.exe APPHOST=(<nome da máquina>, 2208, HTTPS) Replace <machine name> with your server name





5.5. Creating OLAP cubes with languages different from those defined during the product installation

MyABCM Corporate is pre-configured to use the languages Portuguese, English, Spanish and French for the OLAP cube creation process, which means that when the cube is created, all of the common words that can appear on the interface such as "Cost", "Revenue", and "Quantity," etc. are added to the cube for the 4 languages mentioned above. If the user utilizes another modeling language that is not one of these 4, English will be defined as the language for the installation and for displaying these common words.

If the user wishes to redefine these common words so that they appear in another language, this may be accomplished by altering the configuration file **olapconfig.xml** which is located within the **MyABCM Corporate Calculation Engine Server** installation directory.

In the example below, we're going to add **German – Germany (de-DE)**:

- 1. Access the installation folder for CalcEngine, which normally is: C:\Program Files\MyABCM\Corporate\CalcEngine\bin
 - xmi 🖸 version="1.0"?> <Strings Idioms="en-US,pt-BR,es-ES,fr-FR" DefaultIdiom=</pre> fr-FR="lisension (source)"/>
 fr-FR="Disension (destination)"/>
 fr-FR="Coût"/>
 fr-FR="Coût"/>
 fr-FR="Coût (sontce)"/>
 fr-FR="Coût (sontce)"/>
 fr-FR="Coût (sontce)"/>
 fr-FR="Coit (sontce)"/>
 fr-FR="Coit (sontce)"/>
 fr-FR="Quantité salsie"/>
 fr-FR="Q es-ES="Desconocido" es-ES="Dimensión Origen" es-ES="Dimensión Destino" es-ES="Costo" es-ES="Costo (in)" es-ES="Costo (out)" (SourceDimension (DestinationDimension en-US="Source Dimensio en-US="Destination Dim BR="Dimensão Origem" BR="Dimensão Destino" en-US="Cost" en-US="Cost (in)" en-US="Cost (out)" easureCost easureCostIn BR="Custo" BR="Custo (in)" BR="Custo (out)" es-ES="Costo (out)" es-ES="Costo Primario" es-ES="Ingreso" ps-Formario" en-US="Cost (out)" en-US="Primary Cost" en-US="Revenue" en-US="Calculated TDQ" en-US="Used Quantity" en-US="Output Quantity" pt-BR="Custo (out)" pt-BR="Custo Primario" pt-BR="Receita" pt-BR="QTD Calculado" <MeasurePrimaryCost -ES="Ingreso" -ES="CTD Calculado" -ES="Cantidad Utilizada" -ES="Volumen" -ES="Medidas" -ES="Rentabilidad" Utilizada" MeasureOutputQua Measures MeasureProfit "Volume "Medidas" "Rentabilidade" en-US="Measure en-US="Profit" en-US="Name" s-ES="Nombre" s-ES="Nombre" s-ES="Referencia" s-ES="Descripción" NameAttribute ReferenceAttribute DescriptionAttribut ="Period fr-FR="Période"/> fr-FR="Scénario"/> pt-BR="Periodo' pt-BR="Cenário' enario" ConnectionTimeout="180" CommandTimeout="180" MaxRecordsInBulkInsertTrans="100" Domain="" />
- 2. Find it and double-click on it to open the file OlapConfig.xml

The file structure follows this scheme:

```
<?xml version="1.0"?>
<Olap>
<Strings Idioms="en-US,pt-BR,es-ES,es-CL,fr-FR" DefaultIdiom="en-US">
<UnknownMember en-US="Unknown" pt-BR="Desconhecido" es-ES="Desconocido" es-
CL="Desconocido" fr-FR="Inconnu" de-DE="Unbekannt"/>
.
```

```
</Strings>
<Parameters ConnectionTimeout="180" CommandTimeout="180" />
</Olap>
```
3. The file can be edited using Notepad. Add a column with the translation of the terms for German.

de-DE = "Unbekannt"
<pre>de-DE = "Quellendimension"</pre>
de-DE = "Zieldimension"
de-DE = "Kosten"
de-DE = "Kosten (in)"
<mark>de-DE</mark> = "Kosten (aus)"
de-DE = "Primärkosten"
de-DE = "Umsatz"
<pre>de-DE = "Berechneter TDQ"</pre>
de-DE = "Verwendete Menge"
<pre>de-DE = "Ausgabemenge"</pre>
<mark>de-DE</mark> = "Maßnahmen"
de-DE = "Gewinn"
de-DE = "Name"
de-DE = "Referenz"
<pre>de-DE = "Beschreibung"</pre>
de-DE = "Periode"
de-DE = "Szenario"

4. On the line: <<u>Strings Idioms</u>="en-US,pt-BR,es-ES,es-CL,fr-FR" <u>DefaultIdiom</u>="en-US"> add **de-DE**:



5. Save the file.

*If necessary, search for "language code Microsoft" to find the correct language code that you wish to add. See:

https://msdn.microsoft.com/en-us/library/ee825488%28v=cs.20%29.aspx?f=255&MSPPError=-2147217396



6. Double-click on the icon to access MyABCM Corporate SysAdmin, and then type in the server, user name, password and click the Connect button.

Home Image: Comparized on the second sec	·•	MyABCM Corpo	orate System Administrator		—	□ ×
Image:	I → Home					^ 🛈 😯
Welcome to MyABCM Corporate System Administrator, you must logon. To start using MyABCM Corporate System Administrator, you must logon. Ornect Image: Ima	Organizations Models Idioms Dynamic I Drivers L	vent Administrators Licenses Search E re Home	Export implates			
To start using MyABCM Corporate System Administrator, you must logon.	Welcome to MyABCM Cor	porate System Administral	tor			
	To start using MyABCM Corporate	System Administrator, you must k	0gon. OP-RNUNT2J Password 1/192.168.56.103:2208 1 == I f Connect	v orgot my password end user by e-mail Cancel		

7. Click on **Idioms** on the tool bar.

	MyABCM Corporate System Administrator	-	o x
			^ 🛈 😧
品 🗊	🕀 🔩 🖪 🌲 💷 🔎 👒		
Organizations Models	Idioms Dynamic Event Administrators Licenses Search Export Drivers Logs ~ Templates		
	Home		

8. Click on **Actions > Add**.

MyABCM Corporate System Administrator						
I dome						
品 💼 🌐 🐇 🛽	l 🛃 📖 🔎 🖳					
Organizations Models Idioms Dynamic Even Drivers Logs	nt Administrators Licenses Search Export ; ~ Templates					
Hor	me					
Select: All None	Actions 🔻					
Description	Add					
English	Remove					
Español						
Français						
Português						



9. Select the language which was added to the **OlapConfig.xml** file and then click **OK**. In this case it would be **German – Germany**.

Add	×
Description:	Deutsch German (Germany)
	OK Cancel

10. Check that the language has been added correctly.

-			
	~	Home	
(Orga	mizat	tions Models Idioms Dynamic Drivers	Event Logs ¥
			Home
	Se	elect: All None	
		Description	
] English	
] Español	
] Français	
		Português	
] Deutsch	

11. Access MyABCM Corporate Desktop, select the model and then click on the Analyses > Views > OLAP View tab. If the tool language isn't selected, click on the arrow and then select Deutsch as the language.

Welcome to MyABCM Corporate Desktop						
To start using MyABCM C	orporate Deskto	op, you must create a model or open an existing o	ne.			
	Select	×				
Create Model	Language:	Deutsch				
Open Model		Deutsch English				
Recent Models:		Español Français Português				



12. Click on Fields Section and Area Section Stacked.



13. Check that the hidden fields have the recently added language.

∑ Data Area



Periode Szenario

Row Area



5.6. Using Integrated Authentication in MyABCM Corporate Server (SQL Server)

The standard installation of MyABCM Corporate uses an access credential for the SQL Server's own database, but it's also possible to use an integrated authentication account.

To use an integrated authentication account, you'll need to modify the configurations of MyABCM Corporate, as well as make modifications to the database and Windows service.

Configuring MyABCM Corporate Application Server Component

- **1.** Open the **Services** page on the Windows control panel.
- 2. Locate and double-click on the service MyABCM Corporate Application Server.
- 3. Click on the Log On tab.

MyABCM Corporate Ap	oplication Server Prop	perties (Local Cor	nputer) $ imes$
General Log On Rec	overy Dependencies		
Log on as: Local System account Allow service to intervie to intervi	int interact with desktop		
◯ <u>T</u> his account:		Br	owse
<u>P</u> assword:			
<u>C</u> onfirm password:			
	ОК	Cancel	Apply

- 4. Select **This account** and input the integrated authentication account to be used.
- 5. Clique **OK** to complete the alteration of the service.



6. Using the command prompt, go to the directory where the Application Server was installed and type in the following command (substituting SERVER NAME and MYABCM_CLOUD with your server name and the database name of MyABCM Corporate):

Abm.Server.Shell.exe DATABASE=(SQLSERVER,<SERVER_NAME>,<MYABCM_CLOUD>,true,,)

This command should alter the configurations of the MyABCM Corporate Application Server so that it uses integrated authentication instead of a SQL Server account.

Configuring MyABCM Corporate Calculation Engine Server Component

- **1.** Open the **Services** page on the Windows control panel.
- 2. Locate and double-click on the service MyABCM Corporate Application Server.
- 3. Click on the Log On tab.

MyABCM	Corpora	te Calculat	ion Engine Serv	er Propertie	es (Local Co	×
General	Log On	Recovery	Dependencies			
Log on	as:					
	al System Allo <u>w</u> servio	account ce to interac	t with desktop			
◯ <u>T</u> his	account:				Browse	
<u>P</u> as:	sword:					
<u>C</u> on	firm passw	ord:				
			OK	Cancel	Apply	

4. Select **This account** and input the integrated authentication account to be used.



5. Click **OK** to complete the alteration of the service.

At the command prompt, go to the directory where the Calculation Engine Server was installed and type in the following command (substituting the SERVER_NAME and MYABCM_CLOUD with the name of your server and the MyABCM Corporate database name respectively):

Abm.Server.CalcEngine.Shell.exe DATABASE=(SQLSERVER, <SERVER_NAME>,<MYABCM_CLOUD>,true,,) Abm.Server.CalcEngine.Shell.exe OLAP=(<SERVER_NAME>,true,,) Abm.Server.CalcEngine.Shell.exe OLAP_DB=(true,,)

This command should alter the configurations of the MyABCM Corporate Calculation Engine Server to that it uses integrated authentication instead of a SQL Server account.

In this case, the default user that initializes the Analysis Services is the **NT Service\MSSQLServerOLAPService**, as in the image below:

SQL Server Agent (SQLEXPRESS2008)	Executes jo	Disabled	Network Service
🤹 SQL Server Analysis Services (MSSQLSERVER)	Supplies onl Started	Automatic	NT Service\MSSQLServerOLAPService
SQL Server Browser	Provides SQ Started	Automatic	Local Service

Configure the SQL Server database

Besides configuring the Windows services, the IIS application pool and the MyABCM Corporate configuration files themselves, you also need to give the proper rights to the database objects so that the user can use integrated authentication to gain access to procedures, functions and database tables.

In addition, the user used to initiate SQL Server Analysis Services should also have access to the same database objects that the user with integrated authentication has.

- 1. On the database server, open the **Services** page on the Windows control panel.
- 2. Locate the SQL Server Analysis Services (MSSQLSERVER) service and note the name of the account used to logon.

In the example below it is **NT Service\MSSQLServerOLAPService**:

Services (Local)		
SQL Server Analysis Services	Name	Log On As
(MSSQLSERVER)	🙀 SQL Server Analysis Services (MSSQLSERVER)	NT Service\MSSQLServerOLAPService
		NET CONSTRUCT OF ACTION

- 3. Close the Windows Services page.
- **4.** Locate and open the script **db_create_user_sqlserver.sql** which is usually in the AppServer\sql\sqlserver directory of the MyABCM Corporate Application Server.

This is the standard script to create a user in MyABCM Corporate. Besides creating the user this script contains various lines that **GRANT** privileges that the user needs to access the SQL Server database.

5. Save this file under any other name in your work area.



- 6. Remove all the lines that don't begin with **GRANT** (this should be roughly the first 30 lines of the file).
- 7. Reuse all of the lines beginning with **GRANT**, removing the users after the word **TO** and substituting them with your integrated authentication user and the Microsoft Analysis Services user.

The result should be something like this:

```
GRANT EXECUTE TO myabcm\john.doe;
GRANT SELECT ON dbo.FUNC_DIMENSIONS TO [myabcm\john.doe], [NT Service\MSSQLServerOLAPService];
...
GRANT SELECT ON dbo.TB_ATTRIBUTE_FIXED_INSTANCES TO [myabcm\john.doe], [NT Service\MSSQLServerOLAPService]
```

- **8.** Save the script.
- **9.** Using the SQL Server Management Studio, select the MyABCM Corporate database and execute this script to give the proper permission to the new user with integrated authentication.

After configuring the 2 components of MyABCM Corporate and SQL Server, it's recommended that you restart the services of MyABCM Corporate Application Server Component and MyABCM Corporate Calculation Engine Server as well as the IIS application pool.



5.7. A Practical Guide to Backup/Restore for a MYABCM_CLOUD Database

The backup and restore processes for the SQL Server databases used by MyABCM are simple, but certain items require attention to ensure that the database restoration process is completed successfully.

Restoring from a backup can be done in the same environment as the original installation, as well as a new environment if the product is being transferred to another group of machines.

Performing a Backup and Restore of a database

1. Perform the MYABCM_CLOUD database backup by listing correctly the backup location and using the BAK extension. To migrate a database server, choose within the Recovery Model the option **Simple**, and for Backup Type choose the option **Full**.

🧻 Back Up Database - MYABC	CM_CLOUD		-		×
Select a page	Script 🔻 📑 Help				
Backup Options	Source				
	Database:	MYABCM_CLOUD			\sim
	Recovery model:	SIMPLE			
	Backup type:	Full			\sim
	Copy-only backup				
	Backup component:				
	Database				
	 Files and filegroups: 				
	Destination				
	Back up to:	Disk			\sim
	F:\MSSQL\BACKUP\MYABCM_CLO	JD_MIG_FULL_BKP.bak		Add	
Connection				Remov	/e
Server: AJAX				Conten	ts
Connection: MYABCM\leandro.fiore					
View connection properties					
Progress					
Ready					
			ОК	Cano	el

2. Copy the backup to the destination server.



3. On the destination server, in the Restore window, determine the location of the backup copy. Confirm the restore by clicking the **OK** button.

🧏 Restore Database - MYABCM_0	CLOUD					-		×
🕕 Ready								
Select a page General	🔄 Script 👻 📑 Help							
Files Options	Source							_
	 Database: Device: 	EVMSSOI \ Packup \ N				2KD bak	7 [~
	Database:	MYABCM_CLOUD	MABCIN_CEC	500_1010	5_1022_1	JKFIDØK		~
	Destination							
	Database:	MYABCM_CLOUD						~
	Restore to:	The last backup take	n (quinta-fei	ra, 3 de a	agosto d	e 2017 1 [.]	Timeline.	
	Restore plan Backup sets to restore:							
	Restore Name		Component	Туре	Server	Database	Position	Fi
	S							
ABCSQL01 [MYABCM\leandro.fiore]								
View connection properties								
Progress One Done	<					Verify E	Backup Me	> dia
<u> </u>					ок	Cancel	Help	

After restoring the backup, access the database properties and check that the owner information is filled in. If the **Owner** field is blank, choose the database owner. This is required for certain **MyABCM Corporate** transactions.

间 Database Properties - MYAE	SCM_CLOUD				_		×
Select a page General	🔄 Script 🔻 🛐	Help					
Files Filegroups Options Change Tracking Permissions Fixended Properties Mirroring Files	Database name: Owner: Use full-text in Database files:	dexing	MYABCM_	CLOUD]
Transaction Log Shipping Query Store	Logical Name MYABCM_C MYABCM_C	File Type ROWS LOG	Filegroup PRIMARY Not Applicable	Initial Size (MB) 29891 3	Autogrowth / Max By 1 MB, Unlimite By 10 percent, Lir	size d mited to 2	209



4. When migrating from one server to another, the users SQL MYABCM_CLOUD_USER and MYABCM_OLAP_USER probably won't exist. In this case, delete the users that exist in the database (they came together with the backup) and execute the script db_createuser_sqlserver.sql in the context of the MASTER database to create the users and apply the permissions correctly.

If the database restore has been performed going from SQL Server 2008 to a more recent version of SQL Server (2012 or newer), you'll also need to execute the scripts creating procedures and functions listed below:

db_functions_sqlserver.sql db_sp_sqlserver_common.sql db_sp_sqlserver_2012.sql

Adjusting the configurations of the application after restoring the database

For backing up and restoring in the exact same environment, you don't have to reconfigure the application because the environment is exactly the same. If the restoring has been done in an environment different from the original such as when the database is restored in a new installation on different servers, it is important that all of the application and calculation server configurations be revised according to the instructions below.

To execute Shell configuration commands in the new environment, the software first needs to be activated, otherwise the Shell commands will fail.

- 1. Configure the server using the appropriate Shell configuration commands.
- **2.** Configure the application server using the appropriate Shell configuration commands. Pay special attention to the parameters for the DATABASE and OLAP databases.
- **3.** Configure the calculation server using the appropriate Shell commands. Pay special attention to the parameters for the DATABASE and OLAP databases.
- 4. After applying these configurations, proceed to activate the product following the steps described in section 1.2. Registering MyABCM Corporate Server.
- **5.** Use the MyABCM Corporate Calculation Engine Server Shell command following the example below to obtain a list of the "OPERATION OWNERS."

C:\Program F OWNER_ID	OWNER_NAME	COMPUTING_POWER	HOST_STATUS
5 4	PRD2 AJAX	1 1	Active Active
C:\Program I	Files\MyABCM\Corporate\CalcEng	gine>_	



For installations in different environments, it's very like that 2 operation owners will appear, one with the name of the calculation server in the original environment and the other with the name of the calculation server in the new environment.



6. Execute the following command to stop the MyABCM Corporate Calculation Engine service:

net stop MyABCMCloudCalculationEngine

- 7. Remove the "OPERATION OWNER" of the calculation server in the new environment using the following command example: Abm.Server.CalcEngine.Shell.exe REMOVE_OPERATION_OWNER=(ID DO NOVO OPERATION OWNER)
- **8.** Rename the old OPERATION OWNER with the new name (which is exactly the name which was removed in the previous step). To do this use the following command example:

Abm.Server.CalcEngine.Shell.exe UPDATE_OPERATION_OWNER=(ID_ANTIGO,NOME_DO_SERVIDOR_novo,COMPUTING_POWER,HO ST_STATUS)

C:\Program Files\MyABCM\Corporate\CalcEngine>Abm.Server.CalcEngine.Shell.exe UPDATE_OPERATION_OWNER=(6,PRD2,1,1)

9. Execute the following command to restart the MyABCM Corporate Calculation Engine server:

net start MyABCMCloudCalculationEngine

The final result should leave just 1 OPERATION OWNER with the name of the current calculation server as in the example below:

C:\Program	Files\MyABCM\Corporate\CalcEn	gine>Abm.Server.Calc	Engine.Shell.exe GET_OPERATION_OWNERS
OWNER_ID	OWNER_NAME	COMPUTING_POWER	HOST_STATUS
6	PRD2	1	Active
C:\Program	Files\MyABCM\Corporate\CalcEn	gine>_	

Make the necessary tests by accessing the MyABCM Corporate application and executing a calculation operation.



5.8. Integrating third party DTS products

MyABCM Corporate can work along and control any external DTS product that supplies a command line interface. This way, it is possible to configure Corporate Application Server Component and Corporate Calculation Engine to recognize and use an external ETLX.

Example:

 Copy the text below and add to the EtlConfig.xml, from CalcEngine > Bin and from ApplicationServer > Bin directories:

<executable Id="3"</executable
Name="Integration Services Package"
Type="File"
Extension="etlx"
CommandLine="c:\Program Files (x86)\Microsoft SQL Server\140\DTS\Bin\DTExec.exe"
SuccessExitCode="0" >

Your file will look like this:

🔚 EtlCor	fig.xml 🔀	
1	x</td <td>ml version="1.0"<mark>?></mark></td>	ml version="1.0" <mark>?></mark>
2	₽<e< b="">t</e<>	1>
3	<	Executable
4		Id="1"
5		Name="MyABCM Corporate ETL Studio Package"
6		Type="File"
7		Extension="etlx,etlsql"
8		CommandLine="C:\Program Files\MyABCM\Corporate\ETL\Abm.ETL.Console.exe"
9	白	SuccessExitCode="0">
10	白	<parameters></parameters>
11		<param en-us="Macro" es-es="Macro" fr-fr="Macro" pt-br="Macro"/>
12		<pre><param en-us="Variables" es-es="Variables" fr-fr="Variables" pt-br="Variáveis"/></pre>
13	-	
14	- <	/Executable>
15	<	Executable
16		Id="2"
17		Name="MyABCM Corporate ETL Studio Package"
18		Type="Database"
19		Extension=""
20		CommandLine="C:\Program Files\MyABCM\Corporate\ETL\Abm.ETL.Console.exe"
21	白	SuccessExitCode="0">
22	白	<parameters></parameters>
23		<pre><param en-us="Macro" es-es="Macro" fr-fr="Macro" pt-br="Macro"/></pre>
24		<param en-us="Variables" es-es="Variables" fr-fr="Variables" pt-br="Variáveis"/>
25	-	
26	- <	/Executable>
27	<ex< td=""><td>ecutable</td></ex<>	ecutable
28		Id="3"
29		Name="Integration Services Package"
30		Type="File"
31		Extension="etlx"
32		CommandLine="c:\Program Files (x86)\Microsoft SQL Server\140\DTS\Bin\DTExec.exe"
33	₽	SuccessExitCode="0" >
34	- <td>xecutable></td>	xecutable>
35		
36	L <td>tl></td>	tl>
<		· · · · · · · · · · · · · · · · · · ·

2. After this configuration, it will be possible to upload the ".etlx" file and also the DTS integration in MyABCM Corporate Desktop.



5.9. Additional notes on uninstalling MyABCM Corporate

If the automatic update system has been used to update the installation, it's possible that some of the files were not automatically removed in the deinstallation of the product and will have to be removed manually by removing the installation folder using Windows Explorer.



5.10. LDAP Synchronization

MyABCM Corporate Server users are traditionally managed directly by the Corporate System Administrator (Desktop interface), however, it is also possible to configure the product so that users are synchronized with a Microsoft Active Directory (LDAP) server.

If synchronization is enabled, users created in a certain group within Active Directory are automatically created in Corporate. In addition, users modified or removed in Active Directory are also modified/disabled in Corporate.

5.10.1. Enabling Synchronization

To enable synchronization, run the CalcEngine shell using the example below:

Abm.Server.CalcEngine.Shell.exe LDAP_SYNC=(<Synchronization status>, <Synchronization interval> <Corporate organization name>, <LDAP server address>, <LDAP group name>, <Default parameters used when creating users>)

Description of LDAP_SYNC command parameters:

- 1. Synchronization status: TRUE (enabled) or FALSE (disabled).
- 2. Interval between synchronizations (in minutes), that is: how often the Corporate must perform the synchronization. The value, in this case, will depend on what the admin considers reasonable.
- **3.** Name of the Corporate organization where users must be created/updated.
- 4. LDAP server address.
- 5. AD GROUP name from which users should be read. The simple group name should work if it is in the default groups folder, but the name can be used with the full LDAP syntax, that is: 'cn=MyABCMCorporateUsers,or=MyABCM Groups,dc=myabcm,dc=com'. This means: MyABCMCorporateUsers Group within MyABCM Groups, within the myabcm.com domain.



- **6.** Default values for creating users. When a new user is identified in LDAP/AD the Corporate creates the user using the values defined in this list. Below is explained each of them:
 - **SessionTimeOut=20:** Session timeout (minutes)
 - UserRole=0: is the User Profile (Role), which can be: [0] Regular (All Components), [1] Complete (User Management) and [2]: Limited (Analysis/Surveys/SM)
 - IsExternal=false: Use LDAP authentication
 - IdiomCode=en-US: Default Language
 - **TimeZone=UTC-0:** Time zone
 - CanCreateModel=true: Can create model
 - PrivateSpace=2000000: Private space (MB)
 - **CaModeling=true:** Modeling accessible
 - CaIntegration=true: Integration accessible
 - CaAnalysis=true: Analyses accessible
 - CaSurveys=true: Surveys accessible
 - CaSmartMetrics=true: SM accessible
 - Groups=Grupo1;Grupo2: Available groups

Command example:

Abm.Server.CalcEngine.Shell.exe

"LDAP_SYNC=(TRUE,60,MyABCMHQ,'LDAP://DC=myabcm,DC=com','cn=MyABCMCorporateUsers,ou=My ABCM Groups,dc=myabcm,dc=com','SessionTimeOut=20,UserRole=0,IsExternal=false,IdiomCode=en-US,TimeZone=UTC-

0,CanCreateModel=true,PrivateSpace=2000000,CaModeling=true,CaIntegration=true,CaAnalysis=true,CaSurveys=true,CaSmartMetrics=true,Groups= ')"

5.10.2. Deactivating the synchronization

To DISABLE LDAP synchronization the following command must be run:

Abm.Server.CalcEngine.Shell.exe "LDAP_SYNC=(FALSE,,,,,)"

The above command simply passes false on the first parameter leaving the other parameters empty.

5.10.3. Testing and tuning synchronization issues

When the synchronization is executed, any eventual error is automatically registered in the Windows Event Log, however to facilitate the LDAP configuration, the TEST_LDAP_SYNC command from the CalcEngine shell can be used to check the access to the LDAP server.

To test your LDAP configuration, use the following command:

Abm.Server.CalcEngine.Shell.exe TEST_LDAP_SYNC

If the configuration is correct, a list of users found in the defined group of the LDAP server should be presented.



5.10.4. Default synchronization behavior

When synchronizing Corporate users with the LDAP server, MyABCM Corporate follows the following rules:

- 1. If the existing user in LDAP/AD does **not exist** within the Corporate: It is **AUTOMATICALLY** created.
- 2. If the existing user in LDAP/AD already exists within the Corporate: ONLY the following fields in Corporate are updated: Fullname, Email and Activate.

IMPORTANT: the **Activate** field in Corporate follows the **Enabled** field in AD, that is, if the Administrator disables the user in AD, it is disabled and it loses access to Corporate. Additionally, the expiry date field is always kept 30 days after the last sync. This is important because if synchronization is disabled, all users managed by AD are disabled 30 days later.

3. If the existing user in LDAP/AD has already existed within the Corporate in the past and has been deleted:

User synchronization will fail as Corporate is programmed to NOT restore a user that has been automatically deleted. In this case, the administrator has to physically remove the user from the database or restore it.

To physically remove the user from the Corporate it is necessary to enable the option of "Show deleted users" using the Shell so that they are visible in the Corporate Admin and then can be removed.

4. If the **existing user in Corporate** does not exist on the LDAP server within the configured Group: The user is disabled in Corporate, that is, the **Activate** field is disabled.

