

Columbus 7.5

Migration Guide

Product version 7.6

columbus

Issue: 12.18

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CHAPTER 1

Preparation

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1.1 Requirements

License conversion
License conversion completed (for 7.3 or older)
If the license has not yet been converted, please contact the Brainware Sales Department. Mig- ration is not possible without conversion.
Spider implementation
 Previously agree on the Spider mandators ID with a Spider consultant. (for 7.3) Check the OTB connection information of the Spider Data Receiver with the Spider mandator ID and agree upon it with the Spider consultant. (for 7.4.0 or newer)
If Spider is used, the inventory data can be sent to a Spider system. Please inform a Spider Consultant about the migration.

1.1.3 Installation file

• Download the current Columbus 7.5.0 installation file.

1.1.4 License file

• Prepare a license file valid for Columbus 7.5.0.

1.2 Preliminary work

1.2.1 DNS Columbus-Server

Important	The Columbus communication can deal with DNS aliases instead of fixed specifications of server names. This facilitates the configuration e.g. in the case of a server change or the use of site servers in branch offices. If DNS aliases are used, please refer to this chapter.
	Setting up DNS aliasesTest of DNS FQDN resolution and accessibility from all networks
Attention	A conversion from FQDN to the DNS alias would necessarily have to be carried out prior to the update.

1.2.2 Columbus share

- Create the directory D:\Columbus on the server and grant NTFS rights.
- Set up Columbus UNC share on the server and test it (Hostname & DNS alias).

1.2.3 Client configuration templates

- E-Mail to employees regarding a possible restart (in case of modification OTB server).
- Adjust the client configuration templates at an off-peak period if required. (After Columbus share has been completed).

Attention	Modifying the OTB server may trigger a reboot at the clients!
	 On company level, enter the variables _AdminServer, _AdminPath and _SWAdmin and specify them with the former Network Access value from the default template. (Only if Network Access had any contents). Register Client Default – Empty Network Access and store.
Attention	Network Access is resolved on the Clients into _AdminServer, _AdminPath and _SWAdmin. If these variables are used in packages, the packages must be adjusted or the variables must be set on company level.
1 7 4	Test devises for OS deployment

1.2.4 lest devices for OS deployment

- Obtain test devices for OS deployment.
- Execute the test with this device for OSDeploy & SWDeploy.

1.2.5 SQL Server

	The future SQL Server must be provided.
Attention	The SQL Server can be operated locally on the Master Server or on a remote server in the net- work.

1.2.6 Prepare the server

• Execute the Power Shell Script Prepare2016forColumbus.ps1. (IIS & .NET Framework 4.6) https://support.brainwaregroup.com/kb/article/AA-00984/25/

1.2.7 Lock the Columbus server

• In the Management Console, activate the Emergency Stop and leave it that way.

1.2.8 Backup

• Create a system backup or snapshot of the Columbus server?

1.2.9 User names and passwords

• User name and password for SQL SA User, columbusrw, sysdba & Columbus-AD-Admin (domain account) available in clear text.

1.2.10 WinPE

- Obtain a WinPE10 driver from the main suppliers.
 - HP http://ftp.hp.com/pub/caps-softpaq/cmit/HP_WinPE_DriverPack.html
 - Dell http://en.community.dell.com/techcenter/enterprise-client/w/wiki/2065.dellcommand-deploy-driver-packs-for-enterprise-client-os-deployment

CHAPTER 2

Migration

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2.1 Emergency Stop

• Check that the Emergency Stop has been set.

2.2 Database Backup

• Database was backed up.

2.3 Stop Infrastructure Service

- Stop all infrastructure servers and the site server via the «Stop Infrastructure Server» batch.
- Check that the processes «BWInfra.exe», «NotificationSvc.exe» & «PrelogServer.exe» have stopped.

2.4 Making sources available

• Copy the source on the server.

2.5 Installation of Columbus 7.5

• Start the latest installation file for the Columbus installation directly. (Columbus_7.5.0.exe)

2.5.1 License file

• Select the correct license file for the 7.5.0 version.

2.5.2 Component selection

- Select the Master option.
- Enter the FQDN of the Columbus Master Server correctly.

Attention	For the installation of a Site Server, use the rollout from the Management Console whenever
	possible.

2.5.3 Available options

• The option Prepare Autoupdate for Management Client must be active to execute a migration.

2.5.4 Firebird settings

- Save the Database path to the existing Columbus Firebird DB.
- Save the user name of the Columbus User (ColumbusRW) and the related password.
- Enter the SYSDBA password.

2.5.5 SQL connection and users

- Enter the SQL server name (with instance name in case of the Express edition).
- If the logged-in Windows user has no administrative rights on the SQL Server, the SQL login must be activated and a user having administrative rights must be entered with password.

2.5.6 SQL Database

• Enter the prefix and/or the suffix for the Databases if required.

2.5.7 Columbus SQL login

 User name and password used by the Columbus Infrastructure Service to access the SQL Database. (e.g. ColumbusRW)

2.5.8 Columbus system administrator

• Record the administrator's password (sysadmin) in the Management Console.

2.5.9 Legacy, Smart and Linux Deployment – Defaults

- Enter the default values for Smart Windows OS Deployment.
- Enter the default values for Legacy Linux Deployment.

2.5.10 Install & close

• Terminate the installation without starting the console.

CHAPTER 3

Purging

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3.1 Check Brainware.log.

- If all 10 entries, the license ID and the license features were correctly detected with CacheReader thread.
- Start Columbus Management Console.

3.2 WinPE10.0 driver

- Copy the WinPE10 driver files into the correct directories.
 - $\bullet \quad C:\Program Files (x86)\Columbus\Infrastructure\PETemplates\x64\Drivers$
 - C:\Program Files (x86)\Columbus\Infrastructure\PETemplates\x86\Drivers
- Read in the WinPE10 driver using Inject Windows PE files.

3.3 Default template

	Connection tab - Update and save OTB Server with FQDN from the server.
Attention	Modifying the OTB server will most probably trigger a reboot at the clients!
	 Inventory Common tab – Update and save OTB server and port with FQDN.
	 Inventory Spider tab – Create and save exception «%WinDir%\WinSxS».
	Save the default template in the file Columbus.cfg.
	 Save the inventory configuration in the two files ColumbusInventoryScanner.cfg and Co- lumbusInventoryAgent.cfg.

3.4 Client rollout

- In the C:\Program Files (x86)\Columbus\Console\ClientRollout directory, delete the old Columbus clients.
- Update the file Columbus.cfg in the directory C:\Program Files (x86)\Columbus\Console\ClientRollout\Columbus Client 7.5.0\.

3.5 Console rollout

- In the C:\Program Files (x86)\Columbus\Console\ConsoleRollout directory, delete the old Columbus clients.
- Copy cmc.ini and accept it in the ConsoleRollout.

3.6 Infra rollout

- In the C:\Program Files (x86)\Columbus\Console\InfraRollout directory, delete the old versions.
- Accept all implemented WinPE10 drivers from the processed directories into the drivers directories under InfraRollout\\$programfile\$\....

3.7 Inv rollout

- In the C:\Program Files (x86)\Columbus\Console\InvRollout directory, delete the old versions.
- Accept the configuration file ColumbusInventoryScanner.cfg after InvRollout\Standalone Inventory Scanner 7.5.0.
- Accept the file ColumbusInventoryAgent.cfg after D:\Columbus\InvData\Updates_Agent.

3.8 OS depot

3.8.1	SmartDeploy
	 Execute D:\Columbus\OSDepot_jobstore\windows\mandatory\Pre- pareWUA\ASETUP\Updates\PatchDownload.ps1 with PowerShell.
Note	The job "PrepareWUA" includes Windows updates in order to simplify the distribution of up- dates by Columbus UpdateManagement.
3.8.2	LegacyDeploy
	 Execute D:\Columbus\OSDepot_leg- acy\NT5\Job\PrepareWUA\ASETUP\Updates\PatchDownload.ps1 mit PowerShell. Execute D:\Columbus\OSDepot_leg- acy\NT6\Job\PrepareWUA\ASETUP\Updates\PatchDownload.ps1 mit PowerShell.
Note	The job "PrepareWUA" includes Windows updates in order to simplify the distribution of up- dates by Columbus UpdateManagement.
	 On each Legacy Windows OS release, the three jobs ASetup, S_ADS and PrepareWUA must be copied out of the corresponding source directory \OSDepot_legacy\NT5\Job\ or \OSDepot_legacy\NT6\Job\ and must be inserted and replaced in the job directory of the OS release.
	• The job Col7 must be updated in each Legacy Windows OS release with the current Columbus client and the corresponding configuration file.
	• Both source directories \OSDepot_legacy\NT5\Job\ & \OSDepot_legacy\NT6\Job\ con- tain several other jobs that have been updated for Columbus 7.5.0. The existing jobs in the Legacy Windows OS releases must be replaced with the corresponding updated jobs. The additional updated jobs that are not yet included in the Legacy releases must not be reim- plemented.
3.9	SW depot

Package 100100_MS_Windows_Activation.UNI ٠ Package 190100 MS Windows 10 x64 Inplace Upgrade.UNI • Package 190200_MS_Windows_10_x86_Inplace_Upgrade.UNI ٠ Package 900000_RemotelyAnywhere_12_Config_Client.ENU ٠ Package 900000_RemotelyAnywhere_12_Config_Server.ENU • Package 900100_LogMeIn_NetworkConsole_9.ENU • Implement package 903000_Columbus_PackagingTools_7.UNI and update all source files. • Package 960000_Columbus_Prepare_For_SmartCapture.UNI ٠ SW packages which are delivered with Columbus and can be used by the customer without Note any obligation. The SW packages are not an integral part of the product.

3.10 Auto update

• All files must be updated.

← → 👻 🛧 📙 🤆 Program I	Files (x86)\Columbus\Infrastructure\AutoUpdate	\Client	∨ Ö Sea	rch Client	
Program Files (x86)	Name	Date modified	Туре	Size	File version
Baretail	SAPPDATAS	04.05.2017 09:52	File folder		
Columbus	BwCsidl64.exe	03.05.2017 12:45	Application	857 KB	
Console	🧲 ClientUpdater.exe	03.05.2017 12:45	Application	4'455 KB	7.5.0.145
Documentation	CollSvc.exe	03.05.2017 12:45	Application	18'404 KB	7.5.0.145
Infractructure	ኛ CollectBWSupportFiles.exe	03.05.2017 12:45	Application	15'892 KB	7.5.0.145
Autolladate	🗟 columbus.dll	03.05.2017 12:45	Application extens	22'950 KB	7.5.0.145
Autoopdate	🧲 Columbus.exe	03.05.2017 12:45	Application	25'332 KB	7.5.0.145
Client	ColumbusClientDiskImaging32.exe	03.05.2017 12:45	Application	13'514 KB	7.5.0.145
Cache	ColumbusClientDiskImaging64.exe	03.05.2017 12:45	Application	20'664 KB	7.5.0.145
ImagingTools	👩 ColumbusClientUninstall.exe	03.05.2017 12:45	Application	15'251 KB	7.5.0.145
PETemplates	🗟 ColumbusDisklmaging.dll	03.05.2017 12:45	Application extens	17'909 KB	7.5.0.145
PXEData	ColumbusDotNetLib.dll	03.05.2017 12:45	Application extens	17 KB	1.0.0.0
Temp	ColumbusDotNetLib4.dll	03.05.2017 12:45	Application extens	17 KB	1.0.0.0
Client Autol Indate	ColumbusHook.dll	20.03.2017 07:40	Application extens	14 KB	
	🧲 DotnetLauncher.exe	03.05.2017 12:23	Application	3'422 KB	7.5.0.145
LicenseConsole	🚳 libeay32.dll	20.03.2017 07:40	Application extens	1'328 KB	1.0.2.1
LicenseService	le NotificationSvc.exe	03.05.2017 12:45	Application	9'808 KB	7.5.0.145
Packaging	🧲 Onlinelmaging.exe	03.05.2017 12:45	Application	17'886 KB	7.5.0.145
Tools	🧲 SoftwareDeploy.exe	03.05.2017 12:45	Application	4'337 KB	7.5.0.145
WWWRoot	🗟 ssleay32.dll	20.03.2017 07:40	Application extens	347 KB	1.0.2.1
Common Files					
20 items					ſ

3.11 Columbus agents

3.11.1 Columbus base agent

- General tab Check and adjust the maintenance time frame.
- Wake-on-LAN tab Check and adjust the IP subnets and ports. (...\Brainware\Columbus\7\OS Management\... WOLSubnetBroadcast & Port)
- Status delivery tab Adjust the hostname with FQDN or DNS Alias.
- FTP access tab Adjust the FTP server and FTP root with FQDN or DNS Alias.

3.11.2 Block store

• General tab - Check and adjust the block depot location and the metadata location.

3.11.3 COM Interface

• Checking the current configuration

3.11.4 Endpoint Protection

• Configure > General tab - Fill in the Block Store with FQDN and port.

Important	The Block Store Agent must be necessarily set up if the Endpoint Protection Agent is to be
	used.

3.11.5 Indexing and network scanner

- Image scanner > Check and adjust the value in Path.
- Schedule > Planned task for the disc Images refresh detected.

3.11.6 Inventory collection

- Configure > Check and adjust Basedir on the inventory agent.
- If Send to Spider Data Receiver is active, check the OTB server, port and customer ID and adjust if required.

3.11.7 LDAP synchronisation

• If the Agent is set up, test its functionality.

3.11.8 OS deployment

- Configure > Adjust the value in the source with FQDN or DNS Alias.
- Schedule > Detect the planned task for Refresh OS Depot Index List.

Important The Preboot Service Agent must be necessarily set up if the OS deployment agent is to be used.

3.11.9 Patch deployment

• Checking the current configuration

3.11.10 Preboot services

• Check the standard keyboard and the OTB server for Preboot Services Agent.

3.11.11 REST

• Configure > Enter and save OTB Server as FQDN.

3.11.12 Replication

- Configure Sources > Replication sources settings tab Check the paths for all replication sets and adjust if required.
- Configure Targets > Replication restore target settings tab Check the path of all restore target locations and adjust if required.
- Configure Connection > Check the block store for all site servers and adjust if required (default would be the master server).
- Synch Sources > Planned task detected. (at master server)
- Synch Target > Planned task detected. (at site servers)

3.11.13 Reporting and cleanup

- CleanUp tab > Define the history life.
- SW cleanup > Detect the planned task if required.

Attention If a package is removed from the depot, the assignments disappear when the task is run. If the package is reinserted, it is removed from all clients.

3.11.14 SW deployment

- Configure > Job configuration tab Check and adjust the source path in all jobs.
- Configure > CRC options tab Check Perform CRC checks on packages and adjust if required.
- Schedule > Planned task for SW Depot Index Refresh detected. (swrefresh)
- Infrastructure > SW Deployment tab > Software tab > Deployment Groups tab > Check the groups and correct in case of error.

Attention If the software groups were not correctly migrated, undesired deinstallations could occur.

3.12 Management server and variables

- Assign the management server with its agents to all sites, companies and organizations if missing.
- Under Site management in the complete structure, check the variables and update if required.
- Infrastructure > Uplink > Infrastructure Uplink Check the entry on the main server. Depending on cascading, on the assigned OTB server or on itself.

3.13 DNS conversion

• Purge the DNS for the server and for the DNS alias.

3.14 Server reboot

• Restart the Columbus server.

3.15 Hard-coded variables and paths

- In all files in the Columbus directory, search the hard-coded server names using the full-text search and replace with the DNS alias if required.
- In all files in the Columbus directory, search the hard-coded values _AdminServer, _Admin-Path und _SWAdmin using the full-text search. If these values are not included, the variables can be deleted on company level.

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CHAPTER 4

Completion

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Attention

At this moment, **Emergency Stop** is still active.

4.1 Testing Columbus client push

 Test Update Columbus Client from the Management Console via Operation > Rollout > Management Client.

4.2 Testing OSDeploy (Legacy Deploy)

4.2.1 Starting OSDeploy

- Let the device stage over the planned task via the Management Console.
- Start the device.

4.2.2 PDHCP & WinPE download

- Receive IP address via DHCP?
- Receive IP address of the TFTP server?
- Correct WinPE.wim file downloaded from the TFTP server?

4.2.3 Loading WinPE & installing the operating system

- Is the correct architecture displayed according to Source.ini?
- Is the IP address displayed?
- Are the MAC address and the hostname displayed?
- Is the OS being installed?

4.2.4	Jobs			
	 «OS-Deployment in Progress Please wait» is displayed on the screen (OSDeploy jobs started). 			
	In the Management Console, the status OS installed successfully is assigned to the device.			
	 After all jobs are correctly processed, the device remains on the log-in screen. 			
	 Has the complete hardware been detected and equipped with drivers by the device man- ager? 			
	Check whether all jobs have been processed as usual.			
Important	In the Management Console, the Emergency Stop is still active.			

4.3 Testing Columbus client autoupdate

Attention	If something does not run as it should during the test, immediately activate the Emergency Stop again.
	Emergency Stop deactivated.

• Update Columbus-Client by restarting Brainware Columbus Service and clicking on Update.

4.4 Testing SWDeploy

- No Software packages are removed or added spontaneously.
- Assign and install a package on a device.
- Repair a package on a device.
- Remove a package from a device.
- If needed, implement the package for the current Columbus Client Update.

4.5 Testing Columbus Inventory scan

- Run Device > Inventory > Local inventory scan.
- Check whether the last Inventory Scan has provided clean data.

4.6 Testing OSDeploy (Smart Deploy)

4.6.1 Create OS release

- Create Smart Deploy OS release if none is available.
- Fill in the default values in the template (Region/Location, Local Administrator, Domain, Source name, Language and Install key) if none are available.

4.6.2 Configuring the device

• Configure the device with Smart Deploy. (OS release and template)

4.6.3 Starting OSDeploy

- Let the device stage over the planned task via the Management Console.
- Start the device.

4.6.4 PDHCP & WinPE download

- Receive IP address via DHCP?
- Receive IP address of the TFTP server?
- Correct WinPE.wim file downloaded from the TFTP server?

4.6.5 Loading WinPE & installing the operating system

- Is the correct architecture displayed according to Source.ini?
- Is the IP address displayed?
- Are the MAC address and the hostname displayed?
- The OS is being installed.

4.6.6 Jobs

- «OS-Deployment in Progress... Please wait» is displayed on the screen (OSDeploy jobs started).
- In the Management Console, the status OS installed successfully is assigned to the device.
- After all jobs are correctly processed, the device remains on the log-in screen.
- Has the complete hardware been detected and equipped with drivers by the device manager?
- Check whether all jobs have been processed as usual.

CHAPTER 5

Migration Site Server

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5.1 Site Server migration using setup

The migration of a Site Server can also be done through a setup routine. The user is guided and is prompted to make the corresponding entries.

Setup issue "Could not determine Installation Type"

Columbus 7.5.x setup requires some information from the registry that was not provided by the 7.4.x setup scripts:



Workaround:

The following registry entry must be previously entered:

[HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Brainware\Columbus\7\Setup] "IsSite"=dword:00000001

5.2 Rollout infrastructure server

	 Device > Operation > Rollout > Infrastructure Server > Rollout mask. Deactivate the agent-based rollout and start the process with rollout.
Attention	The rollout is executed by the process CMC.exe. Thus, never update more than 5 site servers from a Console due to high processor load.
	• If possible and if no client update is necessary, restart the Site Server.

5.3 Infrastructure Service Agents

In principle, no Agents are necessarily required on a site server. However, all activated Agents on all Site Servers must be checked and adjusted if required. The Columbus Base Agent is responsible for push and wake on LAN. The Preboot Services Agent is responsible for PXE Boot.

5.3.1 Base

- General tab Check Activate Forwarding to OTB Server, Host & Port and the maintenance time frame, and adjust if required.
- Wake-on-LAN tab Check the IP subnets and ports and adjust if required. (...\Brainware\Columbus\7\OS Management\... WOLSubnetBroadcast & Port)
- Status delivery tab Adjust the hostname with FQDN or DNS Alias.
- FTP access tab Adjust the FTP server and FTP root with FQDN or DNS Alias.

5.3.2 Block store

• General tab - Check and adjust the block depot location and the metadata location. (obligatory for replication and shareless)

5.3.3 COM Interface

• Checking the current configuration

5.3.4 Endpoint Protection

- Configure > General tab Fill in the Block Store with FQDN and port.
- Configure > General tab Set sync data and approvals from.

Important The Block Store Agent must be necessarily set up if the Endpoint Protection Agent is to be used.

5.3.5 Indexing and network scanner

- Image scanner > Check and adjust the value in Path.
- Schedule > Planned task for the disc Images refresh detected.

5.3.6 Inventory collection

- Configure > Check and adjust Basedir, Forward results, OTB server and OTB Port on Inventory Agent. (for external site server)
- Configure > Check and adjust Basedir, Import results and Send to Spider Data Receiver off. (for internal site server)

5.3.7 LDAP synchronisation

• If the Agent is set up, test its functionality.

5.3.8 OS deployment

- Configure > Adjust the value in the source with FQDN or DNS Alias.
- Schedule > Detect the planned task for Refresh OS Depot Index List.

Important The Preboot Service Agent must be necessarily set up if the OS deployment agent is to be used.

5.3.9 Patch deployment

• Checking the current configuration

5.3.10 Preboot services

• Check the standard keyboard and the OTB server for Preboot Services Agent.

5.3.11 REST

• Configure > Enter and save OTB Server as FQDN.

5.3.12 Replication

- Configure Sources > Replication sources settings tab Check the paths for all replication sets and adjust if required.
- Configure Targets > Replication restore target settings tab Check the path of all restore target locations and adjust if required.
- Configure Connection > Check the block store and adjust if required (default would be the Master Server)
- Synch Sources > Planned task detected. (for Master Server)
- Synch Target > Planned task detected. (for Site Server)

5.3.13 Reporting and cleanup

- CleanUp tab > Define the history life.
- SW cleanup > Detect the planned task if required.

Attention If a package is removed from the depot, the assignments disappear when the task is run. If the package is reinserted, it is removed from all clients.

5.3.14 SW deployment

- Configure > Job configuration tab Check and adjust the source path in all jobs.
- Configure > CRC options tab Check Perform CRC checks on packages and adjust if required.
- Schedule > Planned task for SW Depot Index Refresh detected. (swrefresh)

5.4 Management server and variables

- Assign the Site Server with its agents to all sites, companies and organizations if missing.
- Delete all old Site Servers.
- Under Site management in the complete structure, check the variables and update if required.
- Infrastructure > Uplink > Infrastructure Uplink Check the entry on the main server. Depending on cascading, on the assigned OTB server or on itself.

KAPITEL 6

Database server change

In this chapter

General	25
Back up existing databases	25
Restore databases	
Customize databases	

6.1 General

6.1.1 Variants

There are basically two different types of migration. The «Central Task Manger is the server where the DB is located.

- SQL DB on a new host and Central Task Manger stays on the old server
- SQL DB and Central task manager will be reallocated to a new server

The second option is called «(OTB-Move)» and will be referenced in the title or header of a step. If «(OTB-Move)» is mentioned, the following steps are required. If the Central Task Manager moves with the database. Otherwise, skip these steps

6.2 Back up existing databases

6.2.1 Stoping Columbus Infrastructure services

Before starting the migration, stop all infrastructure Services as listed below. Do these changes for the Master (Central Task manager) and **ALL** site servers if available.

Services (Local)	-				
Select an item to view its description.	Name	Description	Status	Startup Type	Log On As
	Client License Service (ClipS	Provides inf		Manual (Trig	Local Syste
	🌼 CNG Key Isolation	The CNG ke	Running	Manual (Trig	Local Syste
	🆏 Columbus Infrastructure Gu	Monitors th		Automatic	Local Syste
	🆏 Columbus Infrastructure Se	Provides an		Automatic	Local Syste
	🔍 Columbus Notification Serv	Provides act		Automatic	Local Syste
	🥋 COM+ Event System	Supports Sy	Running	Automatic	Local Service
	🎇 COM+ System Application	Manages th		Manual	Local Syste
	🌼 Computer Browser	Maintains a		Disabled	Local Syste

6.2.2 Database Backup

In order to migrate the databases to a new server, all Columbus related databases have to be saved. The needed steps are provided as example with the Audit database. Apply the same steps for the Columbus and Endpoint database.

- > Open the SSMS and logon as a user with appropriate administration rights
- Select the desired Database as listed above
- Open contextual menu > Tasks > Back Up...

😓 Object Explorer Deta	ails - Microsoft SQL Sen	ver Ma	anage	ement Studio	
File Edit View Tools	Window Help				
🛅 • 🖮 • 📂 📕 🕯	🗿 🔛 New Query 🛛 🔒	19 1	6	% == = = = = = = = = = = = = = = = = =	-
Object Explorer	→ ‡ ×	Objec	t Expl	lorer Details 🗙	
Connect 🕶 🛃 📑	🍸 🧧 🍒	4	6)	🛓 🦨 🍸 🛃 🍒 Search	
SM-SRV-2008R2	SQLEXPRESS (SQL Server	SM-S	RV-20	008R2\SQLEXPRESS (SQL Server 12.0.5207 - sa)\Databases	TestAudit
E Databases	atabases	Name	2	Policy Health State	
	New Database New Query Script Database as Tasks Policies Facets Start PowerShell Reports Rename Delete Refresh Properties	• •	Dat Tab Viev Syr	tabase Diagrams bles ws onryms ggrammability Detach Take Offline Bring Online Shrink Back Up Restore Generate Scripts Extract Data-tier Application Dealoy Database to a Windows Azure VM	
				Export Data-tier Application Register as Data-tier Application	

> Select "Back up to Disk" and define a destination file.

📒 Back Up Database - TestAu	dit		<u>_ ×</u>
Select a page	🔄 Script 👻 📑 Help		
General Media Ontions			
Backup Options	Source		
	Database:	TestAudit	<u> </u>
	Recovery model:	SIMPLE	
	Backup type:	Full	-
	Copy-only backup		
	Backup component:		
	 Database 		
	C Files and filegroups:		
	Destination		
	Back up to:	Disk	•
	D:\SQL-Backup\TestAudit.bak		Add
			Remove
Connection		,	
Server: SM-SRV-2008R2\SQLEXPRESS			Contents
Connection:			
sa			
View connection properties			
Progress			
Ready			
Weak of			
		ОК	Cancel

> Select Verify backup when finished

间 Back Up Database - TestAu	dit	
Back Up Database - TestAu Select a page General Media Options Backup Options	dit Script • Help Overwrite media Back up to the existing media set Append to the existing backup set Overwrite all existing backup sets Check media set name and backup set expiration Media set name: 	
	Back up to a new media set, and erase all existing backup sets New media set name: New media set description: Relability Relability Perform checksum before writing to media Continue on error Transaction log	× F
Connection Server: SM-SRV-2008R2\SQLEXPRESS Connection: a Wew connection properties Progress Ready	C Truncate the transaction log Back up the tail of the log, and leave the database in the restoring state Tape drive Unload the tape after backup Rewind the tape before unloading	
	ОК С	ancel

- > Optional: provide a Description
- Start the Backup with OK

间 Back Up Database - TestAu	dit		- O ×
Select a page	Script - 📑 Help		
General			
Backup Options	Backup set		
	Name	TestAudit-Full Database Backup	
	Humo.		
	Description:		
	Backun set will evnire :		
	buokup set will expire.		
	 After: 	0 days	
	C. On:	12.09.2017	
		, <u> </u>	
	Compression		
	Set backup compression:	Use the default server setting	•
	Encryption		
	 Encrypt backup 		
	Algorithm:	AES 128	~
Connection	Certificate or Asymmetric key:		~
Server: SM-SRV-2008R2\SQLEXPRESS	Encryption is available only when Back up to a	new media set is selected in Media Options.	
Connection:			
sa			
View connection properties			
Progress			
Ready			
No. of Contract of			
		ОК	Cancel
			///

After all databases have been backed up, the following files will be available:

> Dow	nloads				
	Name	^	Date modified	Туре	Size
	TestEndPoint.bak		12.09.2017 10:30	BAK File	2'965 KB
	TestAudit.bak		12.09.2017 10:30	BAK File	2'901 KB
	TestColumbus.bak		12.09.2017 10:30	BAK File	88'641 KB

Copy these files to the new SQL Server.

6.3 Restore databases

6.3.1 Stoping Columbus Infrastructure services

Before starting the restore, stop all infrastructure Services as listed below. Do these changes for the Master (Central Task manager) and **ALL** site servers if available.

Services (Local)					
Select an item to view its description.	Name	Description	Status	Startup Type	Log On As
	Q Client License Service (ClipS	Provides inf		Manual (Trig	Local Syste
	🔍 CNG Key Isolation	The CNG ke	Running	Manual (Trig	Local Syste
	🧠 Columbus Infrastructure Gu	Monitors th		Automatic	Local Syste
	🌼 Columbus Infrastructure Se	Provides an		Automatic	Local Syste
	Columbus Notification Serv	Provides act		Automatic	Local Syste
	🖏 COM+ Event System	Supports Sy	Running	Automatic	Local Service
	🌼 COM+ System Application	Manages th		Manual	Local Syste
	Computer Browser	Maintains a		Disabled	Local Syste

6.3.2 Restore databases

Restore all 3 databases on the new server using the SSMS and the procedure as described below. Execute these advises for all 3 Columbus Databases "Columbus", Endpoint" and "Audit".

- > Open the SSMS and logon as a user with appropriate administration rights
- Select the desired Database as listed above
- > Open contextual menu > Restore Database

Object Explorer	т ∓ Х ОБ	oject Explorer Details 🕒 🗙		
Connect - 📑 📑 I	🛛 🍸 🖒 🔏 🛛 🛛 🖥 🖉	ack Forward 🔁 🦨 🝸 🖒 💈	Search	
🗉 🐻 SRV-DEMO\SC	QLEXPRESS (SQL Server 13.0. SR	V-DEMO\SQLEXPRESS (SQL Serve	r 13.0.4001 - BWGDEMO\Administrato	or)\Database
Data	New Database		Name	Policy He
⊕ 🛄 D	Attach	RV-DEMO\SQLEXPRESS	System Databases	
🗉 📃 A	Restore Database	RV-DEMO\SQLEXPRESS	Database Snapshots	
	Restore Files and Filegroups	udit	Audit	
	Deploy Data-tier Application	riveLock	DriveLock	
🕀 间 Ei	Import Data-tier Application	riveLock-DATA	DriveLock-DATA	
🕀 📑 h	Start PowerShell	ndPoint	EndPoint	
⊕ Serve		MailServerDB	hMailServerDB	
🕀 🧰 Repli	Reports	•		
🕀 🧰 Mana	Refresh			
	I			

- · · · · · · · · · · · · · · · · · · ·								
Select a page	Script 👻 🚺	Help						
🚰 General								
🚰 Files	Source							
P Options	Junce							
	 Databa 	ase:						
	Device			nintentor\ Down	lende\ T	aat Audit hale		
	0		C. (Users viumin	IISTIGIOT (DOWN	loaus (I	estAduit.bak		
	Dat	tabase:	TestAudit					
	Destination -							
	Database:		TestAudit					
	Restore to:	c.	The last backu	p taken (Diens	tag, 12.	September 2017 10:30:11)		Timeline
	Restore plan						L	
	Backup sets	to restore:						
	Restore N	lame		Component	Туре	Server	Database	Positio
				Detabase	E.J.		TestAuda	1
		restAbbit-Fuil D	atabase Backup	Database	ruii	SW-SRV-2008R2/SQLEAFRESS	TestAudit	
onsection		restAudit-Fuil D	atabase Backup	Database	Pui	SM-SRV-2008H2/SQLEAP RESS		
		estadot-fuil D	atabase Backup	Database	Fui	SM-SRV-2008R2/SQLEAPRESS	j TestAuar	
Connection B SRV-DEMO\SQLEXPRESS [BWGDEMO\Administrator]		estadut-rui D	atabase backup	Database	FUI	SM-SRV-2006R2/SQLEAFRESS	j TestAuor	
Connection SRV-DEMO\SQLEXPRESS [BWGDEMO\Administrator]		estadut-tui D	atabase backup	Database	FUII	SM-SRV-2008R2/SQLEAPRESS	j TestAudr	
Connection SRV-DEMO\SQLEXPRESS [BWGDEMO\Administrator] View connection properties Progress		est-Audit-Fuil D	atabase backup	Database	FUII	SM-SRV-2008R2/SQLEAPRESS	j TestAudr	
Connection SRV-DEMO\SQLEXPRESS [BWGDEMO\Administrator] Wew connection properties Progress Connection	<	rest-out-rui D	atabase backup	Datapase	FUI	SM-SRV-2006H2/SQLEAPRESS		
Connection SRV-DEMO\SQLEXPRESS (BWGDEMO\Administrator) View connection properties Progress Done	<		atabase backup	Datapase	Fui	SM-SRV-2008H2/SQLEAP RESS	Verify Bac	kup Medi

> Select "Device" and the select the desired database

> At the Files tab, select Relocate all files to folder otherwise the path may be wrong.

😓 Restore Database - TestAudit				-		
🕦 Ready						
Select a page	🔄 Script 🔹 📑 Help					
General Files Options	Restore database files	as ———				
	Relocate all files	to folder			_	
	Data file folder :		D:\SQL\Database			
	Log file folder :		D:\SQL\Database			
	Logical File Name	File Type	Original File Name	Restore As		
	TestAudit	Rows Data	D:\SQL\TestAudit.mdf	D:\SQL\Database\TestAudit.mdf		
	TestAudit_log	Log	D:\SQL\TestAudit_log.ldf	D:\SQL\Database\TestAudit_log.ldf		
Connection						
뿐 SRV-DEMO\SQLEXPRESS [BWGDEMO\Administrator]						
View connection properties						
Progress						
Oone Done						
				OK Cancel	He	lp

- > Select Overwrite the existing database if a database with the same name already exists.
- > Press *OK* to start the restore

🕦 Ready			
Select a page	🔄 Script 👻 📑 Help		
Files	Restore options Overwrite the existing (Preserve the replication Restrict access to the	database (WITH REPLACE) n settings (WITH KEEP_REPLICATION) restored database (WITH RESTRICTED_USER)	
	Recovery state:	RESTORE WITH RECOVERY	~
	Standby file:	D:\SQL\Backup\TestAudit_RollbackUndo_2017-09-12_10-36-54.bak	
	Leave the database ready	to use by rolling back uncommitted transactions. Additional transaction logs cannot be resto	ored.
	Tail-Log backup		
	Take tail-log backup b	efore restore	
	(WITH NOREC	atabase in the restoring state DVERY)	
	Backup file:	D:\SQL\Backup\TestAudit_LogBackup_2017-09-12_10-34-46.bak	
	Server connections Close existing connect	ions to destination database	
	Prompt	1 each backup	
Connection SRV-DEMO\SQLEXPRESS	The Full-Text Upgra database.	de server property controls whether full text indexes are imported, rebuilt, or reset for the rest	tored
[BWGDEMO\Administrator]			
View connection properties			
Progress			
One Done			

After a successful restore, the databases will be visible in the SSMS



6.4 **Post configuration**

6.4.1 Remap of SQL user ColumbusRW

Background information

An SQL with mixed authentication enabled manages the users locally. Every user has therefore an identification ID (GUID). During an export of a database, this GUID will be exported within the DB and will not match the new servers local authentication. Although the user ColumbusRW has the same name.

Trying to assign the user manually will bring up an error, the user already exists

Login Properties - Columb	usRW				-		×
Select a page	Script	🕶 📑 Help					
Proteineral Server Roles							
🚰 User Mapping	Users ma	apped to this login:					
Securables	Map	Database	User	Default Schema			
im Status		Audit	ColumbusRW	dbo			
		Columbus	ColumbusRW	dbo			
		DriveLock					
		DriveLock-DATA					
		EndPoint	ColumbusRW	dbo			
		hMailServerDB					
		master					
		model					
		msdb					
		tempdb					_
		TestAudit	ColumbusRW				
		TestColumbus					
		TestEndPoint					
BWGDEMO\Administrator	db_b db_d	ackupoperator latareader					
	db_d	ldladmin lenydatareader					
Progress		lenydatawriter					
	db_s	ecurityadmin					
heady	🗹 publi	c					
.40.							
					ОК	Car	ncel
Microsoft SQL Server Managemen	t Studio		×				
Croate failed for User 10-1	mburDW04	crosoft CalConver Smo)					
Additional information:	while executin	g a Transact-SQL statement or ba	ıtch.				
(Microsoft.SqlServer.C → User, group, or rol Error: 15023)	le 'ColumbusRV	V already exists in the current dat	tabase. (Microsoft SQL Server,				
Ø• 🖹 🔮			ОК				

Fix it

Use the Columbus AdminConsole (C:\Program Files (x86)\Columbus\Tools\AdminConsole.exe). Starte the tool and connect with an administrative user

🧲 Admin console		-		\times
Database connection in	formation			
Database	SRV-DEMO\SQLEXPRESS:TestColumbus			
Authentication Method	SQL Server Authentication			
User	sa	<u>C</u> on	nect	
Password	*******	Disco	nnect	

Correct the user mapping with *Reset user logins*. Use this function on all 3 databases (Columbus, Endpoint and Audit)

Admin consol	e	– 🗆 ×
Database connec	tion information	
Database Authentication M	SRV-DEMO\SQLEXPRESS:TestColumbus	
User	sa	Connect
Pass	word	Disconnect
OTB settings	B settings License settings	
DB Schema	Columbus	
Database	SM-SRV-2008R2\SQLEXPRESS:TestColumbus	
Username	ColumbusRW	
Password	***************************************	
Cause DR and the	Reset user logins	<u>S</u> ave
Server		•
Username		
Password		
		S <u>a</u> ve
Change SysAc	Imin password	
Password Confirm password		
		Sa <u>v</u> e

Information: The database was successfully connected

Review the mappings using the User Mapping tab in the Properties dialog

Jerver mores					
User Mapping	Users ma	ipped to this login:			
Securacies	Map	Database	User	Default Schema	
3.805		Audt	ColumbusRW	dbo	
		Columbus	ColumbusRW	dbo	
		DriveLock			
		DriveLock-DATA			
		EndPoint	ColumbusRW	dbo	
		hMailServerDB			
		master			
		model			
		medb			
		tempdb			
	M	TestAudit	ColumbusRW	doo	
		TestColumbus	ColumbusRW	dbo	
	N	TestColumbus TestEndPoint	ColumbusRW ColumbusRW	dbo dbo	
nection	Guest	TestColumbus TestEndPoint	ColumbusRW ColumbusRW	doo doo	
nnection ner: N-DEMO\SQLEXPRESS	Guest	TestColumbus TestEndPoint account enabled for: TestEndPoint role membership for: TestEndPoint	Columbus RW Columbus RW	doo doo	
nection rver: IV-DEMO\SQLEXPRESS median:	Guest Database	TeetColumbus TeetEndPoint account enabled for: TeetEndPoint role membership for: TeetEndPoint cosesadrim	Columbus RW Columbus RW	do do	
nnection nver: N-DEMOVSQLEXPRESS reaction: VGDEMOVAdministrator	Guest Database	TestColumbus TestEndPort account enabled for. TestEndPort ende membership for. TestEndPort coessadnin adupoperator	Columbus RW Columbus RW	do do	
nection rver: VOEMO/SQLEXPRESS rvection: VGDEMO/Administrator / Mex.connection.properties	Guest Database	TeetColumbus TeetEndPort account enabled for: TeetEndPort e role membership for: TeetEndPort e cosessimn ackupopentar ackapopentar	Columbus RW Columbus RW	deo deo	
nnection IV-DEMO/SQLEXPRESS invection: VGDEMO/Administrator VGDEMO/Administrator	Cuert Database	TestEndPort account enabled for: TestEndPort accessation adsupperstor adamater adamater adamater	Columbus RW Columbus RW	do do	
nnection vver: v-DEMO/SQLEXPRESS nnection: (SQEMO/Administrator Ver: concrection properties	Cuert Database da_at da_dt da_dt da_dt da_dt	TextCountous TextEndPort account enabled for TextEndPort a role membership for. TextEndPort accessed in adexport dambar dambar dedemin endparader	ColumbusRW ColumbusRW	dea dea	
nnection nver: N-DENO/SQLEX/PRESS nvector: VSDEMO/Administrator VSDEMO/Administrator VSDEMO/Administrator	Constit Constit	TertColumbos TertEndPore account enabled for TertEndPort a role membership for: TertEndPort densider densider densider densider wyddarsreder wyddarsreder	Columbo/RW Columbo/RW	dea dea	
nnection ver ver vocation vocati		TerdCombos TerdEndPort account enabled for TerdEndPort and another TerdEndPort accounting to TerdEndPort advector advecon advecon	CalantadRW ColontadRW	- das das	
nnection Inner Indexis ISOEMOVAdministrator View.connection.properties	∑ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	TercEndbook TercEndPort Incomet enabled for TercEndPort an encode the tercEndPort an encode the tercEndPort and accessed on an encode tercEndPort advance adva	ColumbusRW ColumbusRW	dea dea	

Disconnect the admin console when finished

6.4.2 Setting database paths

Since Columbus 7.5, the paths to the databases are saved in the main Columbus DB. Adapt these Paths according the new server.

Do the following steps for all 3 databases (Audit, Columbus & EndPoint) using the following pattern for the server name (%SQL-Server% \ %SQL-Instannce%:%DB%) and reset the user and database credentials.

Save the settings with "Save" on each database.

🧲 Admin console			-	\times
Database connection	information			
Database Authentication Metho	SRV-DEMO\SQLEXPRESS:TestCo	olumbus		
User	ColumbusRW		Connect	
Passwor	d *********		Disconnect	
OTB settings DB settings	ettings License settings			
DB Schema	plumbus		•	
Username Co	V-DEMO (SQLEXPRESS: LestColumbu	IS		
Password **	******	******		
- Sava DR pattings		Reset user logins	<u>S</u> ave	
Server Username	srv-demo		_	
Password				
- Change SvcAdmin	openword		S <u>a</u> ve	
Password	passworu			
Confirm password				i
			Sa <u>v</u> e	

Information: The database was successfully connected

6.4.3 Update license server (OTB Move)

Adapt the license URL according the new server.

🧲 Admin console	– 🗆 X
Database connection information	
Database SRV-DEMO\SQLEXPRESS:TestColumbus	
Authentication Method SQL Server Authentication	
User ColumbusRW	Connect
Password *********	Disconnect
OTB settings DB settings License settings	
License server URL:	
Inttp://skv-bemo/licenseservice/byvlicense.asmx	
	Save
Information: The database was successfully connected	

6.4.4 Update the connection settings

To have the Columbus Infrastructure working correctly, the new DB settings have to be applied onto the new server.

Therefore, use the *Option Save DB Settings to selected OTB servers registry* to write the new settings to the selected server. Provide credentials if needed to access the remote registry.

Admin console		-	
Database connection	information		
Database	SRV-DEMO\SQLEXPRESS:TestColumbus		
Authentication Metho	SQL Server Authentication		
User	ColumbusRW	Conne	ect
Passwor	rd **********	Disconr	nect
OTB settings DB se	ettings License settings		
DB Schema	olumbus		-
Database SR	RV-DEMO\SQLEXPRESS:TestColumbus		
Username Co	olumbusRW		
Password **	***************************************		
Save DB settings	to selected OTB servers registry	Save	:
Server	srv-demo		-
Username			
Password			
		S <u>a</u> ve	!
Change SysAdmin	n password		
Password Confirm password			
		Sa <u>v</u> e	:

Information: The database was successfully connected

Note If the desired server isn't available in the list of the servers, the values may be applied manually to the servers registry.

Registry Editor							
File Edit View Favorites Help							
Database A Name	Туре	Data					
	REG_SZ	(value not set)					
🐌 Export 🐽 Audit	REG_SZ	srv-v-roba12a.roba.test\SQLEXPRESS:Audit					
	REG_SZ	C#wh2Fy798B6/WpQc2oD1DF3S08Hz5vvkLKEJfBfAeRsk=T1					
Indexing MuditPassword	REG_SZ	H#B7572735563CA55BD21A93E9C619A20A1AD497E10AAF					
Infrastructure ab AuditUser	REG_SZ	ColumbusRW					
	REG_SZ	srv-v-roba12a.roba.test\SQLEXPRESS:Columbus					
Inventory and Asset Management ColumbusPassword	REG_SZ	H#B7572735563CA55BD21A93E9C619A20A1AD497E10AAF					
LDAP Sync = M ColumbusUser	REG_SZ	ColumbusRW					
LicenseWS ab DoGuidLookup	REG SZ	0					
Logging ab EndPoint	REG SZ	srv-v-roba12a.roba.test\SQLEXPRESS:EndPoint					
Of Massager	REG SZ	H#B7572735563CA55BD21A93E9C619A20A1AD497E10AAF					
Datablear	REG SZ	ColumbusRW					
Protocol	-						
- Hotocol							

Disconnnect the admin console

6.4.5 Update Central Task Manager (OTB Move)

Update the Central Task Manager Settings (Master OTB) when the infrastructure Service has been moved to the new server as well.

- Start the Columbus Infrastructure Service
- The infrastructure service will register himself as a new server. Wait until the following lines appear in the logfiles (C:\Windows\Brainware.log)

3.09.2017 09:52:42 - MgmtÅgent: Started the notification server manager: Started notification server manager in another module

J.05.201/	05.52.42	- ngmongeno.	Figuritie	arv-demo	19 11	oc yec	regratered		a Sw Deproyment. Ferrorming registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a OS Deployment. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a LDAP Synchronisation. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Reporting. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Base. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Inventory Collection. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Preboot Services. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Patch Manager. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a COM Server. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Disk Imaging. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Replication. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	<pre>srv-demo</pre>	is n	ot yet	registered	as	a Block Store. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a Endpoint Protection. Performing registration now.
3.09.2017	09:52:42	- MgmtAgent:	Machine	srv-demo	is n	ot yet	registered	as	a REST. Performing registration now.
3.09.2017	09:52:43	- MgmtAgent:	H9D9qgb1	111: Activ	ratio	n flag	set to 0 (cype	: SW Management).
3.09.2017	09:52:43	- MgmtAgent:	H9D9qg4r	n3K: Activ	ratio	n flag	set to 0 (cype	: OS Management).

- > Stop the Infrastructure service immediately after the registration.
- Run the AdminConsole again.
- Connect as user ColumbusRW
- On the tab OTB settings, select your new server and set the settings for the OTB Port (default (24784) and set the option Central Task Manager
- > Click on *Save* to apply the new settings

C Admin console				-		Х
Database connection info	ormation					
Database	DUS					
Authentication Method	SQL Server Authenti	cation	•			
User	ColumbusRW			Conr	rect	
Password	Discor	nect				
OTB settings DB settin	igs License settings	1				
Available OTB Servers						
sm-srv-2008r2	- Serve Na	r configuration me coming Port	srv-demo			
	Ma	ax Bandwidth	0	Kbit/s		
		tral Task Manag	jer			
				Sav	e	
	OTB cor	mmunication en	cryption:			
	V Use	SSL Fo	rce SSL			
				S <u>a</u> v	e	

Information: The database was successfully connected

- Disconnect the AdminConsole
- Start the Infrastructure service