



# **IPDIRECTOR PROCEDURE**

## **UPGRADE / DOWNGRADE TO / FROM IPDirector 7.91**

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6 GB of RAM is the minimum recommended to run IPDirector 7.91

## O.S. – WINDOWS 7 AND WINDOWS 10

IPDirector 7.91 is compatible Windows 7 (SQL Server 2008 R2 Express) and Windows 10 (SQL Server 2016 Express).

EVS will not provide any migration procedure from SQL Server 2008 R2 Express to Microsoft SQL Server 2016 Express.

Windows 7 is working with SQL Express 2008 and Windows 10 with SQL Express 2016 (it's a Microsoft compatibility constraint).

On Windows 10 we do not need to Install .NET Framework 4.6.2 nor SHA 256. Windows 10 machines are already delivered with the right framework.

## HOW TO UPGRADE IPDIRECTOR 7.90 TO 7.91

Before upgrading to 7.91 it is **important to read the Release Note**.

Several checks/actions must be taken before upgrading to IPDirector 7.91.

**Please contact your EVS Account manager to discuss the steps required as part of the upgrade.**

- Mandatory BEFORE INSTALL / UPGRADE:
  - License code migration required before upgrading to 7.30 or higher ("**IPAccess**" license codes are no more supported - code "**15**" and "**115**")
  - Microsoft legal obligations to be met for system running SQL Server 2016 Standard ("Windows Server CAL Device 2016" required)
  - Framework and Certificate validation (via specific installer)
    - o .NET Framework 4.6.2 required (.NET 4.5 not supported)
    - o SHA256 (certificate validation) required (application signed)

- From version 7.20 the Nearlines, IPDrives and Thumbnails must be re-configured after the upgrade.

Supported OS are:

- Windows 7 64 bits (OS 32 bits not supported)
- Windows 10 64 bits

Note, ATS (Archive Transfer Service) and Indexing Service needs a 64 Bits OS.

Indexing Service: Workstation (standalone) where Indexing Service is running need at least 16GB to work.

BEPlay: BEPlay must be upgraded to 1.4.1 to be used with IPDirector 7.20 and more recent  
See upgrade procedure on: "*Application\_Note\_BEPlay\_Firmware.pdf*"

**The upgrade should not be started if the DB Server and Station OS are not compatible.**

## CONFIGURATION FILE BACKUP

**This step is not needed if you are upgrading from IPDirector 6.57.**

- Upgrading to IPDirector 07.91.xx will encrypt all the Database information in configuration file. If you want to be able to downgrade back from IPD 07.91 without losing the configurations of your service, you must back up the following configuration files on each IPDirector Management Station:
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP Drive\CurrentVersion\DriveDetectorService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Director\CurrentVersion\IpDirector.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Scheduler\CurrentVersion\IPSchedulerService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IPWebService\CurrentVersion\IPWebService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Remote Installer\App\IPBrowseConfigurator\IPBrowseConfigurator.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Remote Installer\Remote Installer.exe.Config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Routage\CurrentVersion\RoutingService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Router Control\CurrentVersion\RouterControlService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\SynchroDB\CurrentVersion\SynchroDBService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\User Manager\User Manager.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\VtrEngine\CurrentVersion\VtrEngineService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Browse\ IpBrowse.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IPClipLogger\ ClipLogging.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director-IS\Administration\Indexing.Administration.Service.exe.config"

## MIGRATION TO MICROSOFT SQL 2008

- From 6.55.xx and superior, IPDirector will use Microsoft's SQL 2008 to manage Databases, so it's necessary to upgrade from SQL 2005.
- DB Servers should be upgraded to Windows Server 2008 / SQL Server 2008 (hardware exchange or OS upgrade), please contact your EVS regional contact.
- On each IPDirector Server, is **mandatory** to use HTA Full Installer provided by EVS if we came from older version than 6.55.
- The HTA Full Installer will also automatize most of tasks required in the upgrade process.
- Attention the **last** HTA Full Installer provided by EVS is 7.10. This HTA Full Installer is **discontinued** since 7.20.

## PREPARE THE DB SERVER FOR SQL 2008

If Windows Server 2008 & SQL 2008 are already installed:

- Stop the service "SQL SERVER (MSQL SERVER)".
- Install "XSecure Manager 1.9.x" provided with this package on the DB server.
- If a previously version has been installed on this station before, is highly recommended to delete the file "IPD\_SetupInstalled.txt" which contains information about installed software versions. Doing that, we will be sure that the last version of each needed software will be installed. Attention: All the needed software will be completely installed again.
- Start the service "SQL SERVER (MSQL SERVER)".
- Request an IPD Live PAM Core Engine license from EVS (code 05) and install it.
- Repeat these steps for each DB server.
- Note that the new IPD Live PAM Core start up process needs 3-4 minutes to connect.
- Install "SQL\_Toolkit-19.11.0" on your DB Server.

## ABOUT SQL 2016 (SERVER AND EXPRESS)

IPDirector needs Microsoft SQL Server 2016 (or SQL Express 2016 for StandAlone setups) when Windows 10 is the Operating System.

EVS provides a bundle with an SQL Installer (Light, Server, and Express versions) which makes Install Procedure easy and intuitive.

## UPDATE THE IPDIRECTORS

- Delete the files in "C:\EVSLog\IP-Director\" on each IPDirector stations.
- If a previously version has been installed on this station before, it is highly recommended to delete the file "C:\Windows\<System32\SysWOW64>\IPDSetupInstalled.txt" which contains information about installed software versions.  
Doing that, we will be sure that the last version of each needed software will be installed. Attention: All the needed software will be installed again.
- Using actual Remote Installer (older than 7.30) send "NET462\_SHA256" IPD package provided by EVS to install Microsoft's .NET Framework 4.6.2 and SHA 256 on all machines. Note that we only can send package on mode "IPDirector" or mode "Other" on Remote Installer.
- A restart will be automatically started when deploying "NET462\_SHA256" package.
- Launch Remote Installer's "Setup.exe"
- Once installation is completed, the machine **should** be restarted (orange status) before send IPD package.
- Deploy the package 7.91 (Tip: You can send the Package to all the machines in the workgroup with the option "Install version" from the "Remote Installer"). This operation may take a while.
- Choose "Upgrade database" in the database configuration menu or Restore a clean Database 7.91.
- Check the database configuration with the "IPDirector\_Check\_DB plugin" in the Remote Installer plugins.
- Check the "Verify IPD Live PAM Core" with the "IPDirector\_Check\_DB plugin" in the Remote Installer plugins.
- If the Database instance is mirrored on a DB Server couple, these two steps should be executed on both members of the redundant Databases (a failover is thus requested).

**A detailed upgrade procedure is also available in the IPDirector Tech Ref Remote Installer**

## HOW TO CONFIGURE THE MAINTENANCE JOBS

Since IPDirector 7.30 we do not need the bootstrapper jobs anymore. They are included on SynchroDB service.

Therefore, if they are already installed, we need to remove from Microsoft Windows Scheduler (on Standalone machines with used DB and DB Servers only).

## WITH THE REMOTE INSTALLER'S TOOL

- Open “EVS-DB-Tool” in the Remote Installer plugins on the Database station
- Select “Create Maintenance Jobs”, choose your database and create the jobs
- *If you have a big database, we recommend you install “Create Maintenance Jobs for Big Databases”*
- Check on the Database if you have the 4 maintenances jobs installed (5 for “Big Database”)
  - Backup log
  - Full Backup
  - FT Catalogue Reorganize
  - Indexes Rebuild
  - *FT Unlock indexing Queues (For “Big Database”)*

## WITH THE SQL TOOLKIT'S TOOL

- Select “Maintenance tool” in the Server start up Toolbar on the Database station
- Select “Create Maintenance Jobs”, choose your database and create the jobs
- *If you have a big database, we recommend you install “Create Maintenance Jobs for Big Databases”*
- Check on the Database if you have the 4 maintenances jobs installed (5 for “Big Database”)
  - Backup log
  - Full Backup
  - FT Catalogue Reorganize
  - Indexes Rebuild
  - *FT Unlock indexing Queues (For “Big Database”)*



## HOW TO CONFIGURE INDEXING SERVICE VERSION

1 dedicated "Application Server RAM", "IPDirector 1U 5S" or "IPDirector 2U" is recommended to run Indexing Service  
(2 machines required for redundancy)

Indexing Service and its dependencies can't be started on a 32 Bits system (64 Bits needed).

Archive Transfer Service (ATS) can't be started on 32 Bits system (64 Bits needed).

Indexing Service need at least 16GB to start.

For good performance, some exceptions in your anti-virus must be added (see below).

## CONFIGURE KASPERSKY FOR INDEXING SERVICE

- Open Kaspersky on the station with the service "Indexing Service" started
- Select "Settings" and select the tabs "Anti-Virus protection"
- Open the settings in "Exclusions and trusted applications"
- Add the exclusion rule "\*.jar" in "Select file or folder"
- Add the exclusion rule "C:\Program Files (x86)\EVS Broadcast Equipment"
- Save changes in Kaspersky

## HOW TO INSTALL EVS SHA 256 CERTIFICATE

- This procedure is optional, to avoid Confirmation Message about certificate. To be done on machines under Windows 10 and NOT provided by EVS (EVS Ghost will contain configuration needed already).

To avoid Certificate Confirmation message appears each time:

1. Select any EVS "exe" file, right click and select:
2. Properties > Digital Signatures > Details > View Certificate > Install Certificate

That will Install EVS Digital Signature and Confirmation message will not appear anymore.

## HOW TO DOWNGRADE FROM IPDIRECTOR 7.91

From version 6.57, IPDirector works with encrypted configuration files. Those files won't be supported by previous versions of IPDirector and cannot be downgraded automatically.

To downgrade to a version older than 6.57, you must follow the following procedure.

For downgrading to IPDirector 6.57, you don't need the configuration file backup.

## CONFIGURATION FILE BACKUP

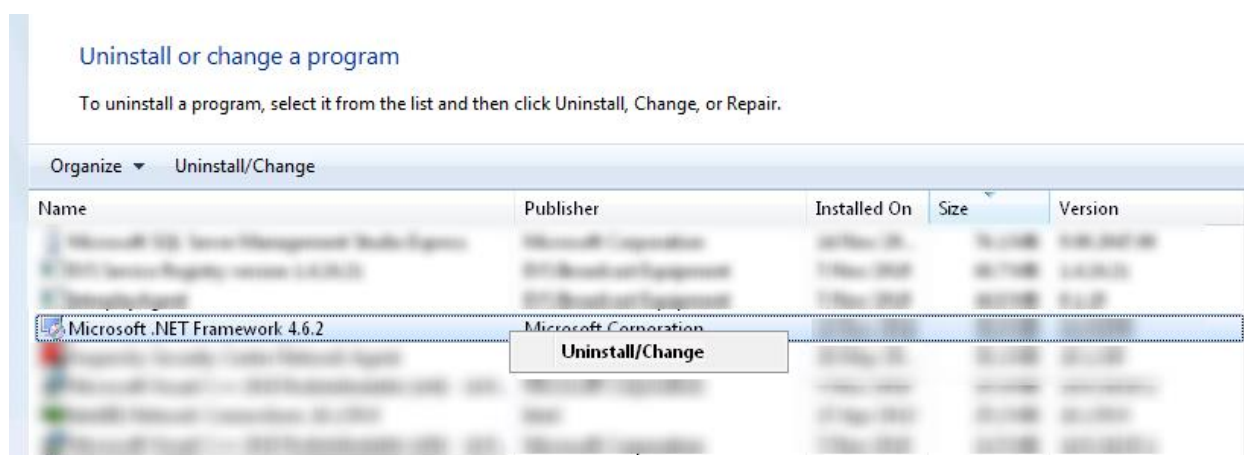
- Prior to the downgrade from IPDirector 7.91 procedure, the following unencrypted configuration files should have been backed up on each IPDirector Management Station:
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP Drive\CurrentVersion\DriveDetectorService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Director\CurrentVersion\IpDirector.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IP-Scheduler\CurrentVersion\IPSchedulerService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\IPWebService\CurrentVersion\IPWebService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Remote Installer\AppIPBrowseConfigurator\IPBrowseConfigurator.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Remote Installer\Remote Installer.exe.Config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Router\CurrentVersion\RouterControlService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\Router Control\CurrentVersion\RouterControlService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\SynchroDB\CurrentVersion\SynchroDBService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\User Manager\User Manager.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director\VtrEngine\CurrentVersion\VtrEngineService.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Browse\IpBrowse.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IPClipLogger\ClipLogging.exe.config"
  - "C:\Program Files (x86)\EVS Broadcast Equipment\IP-Director-IS\Administration\Indexing.Administration.Service.exe.config"

## CLEANING AN IPDIRECTOR STATION

- Cleaning the station from IPDirector references can be done by using IPDirector Station Cleaner related to the version you want to downgrade from. This cleaner can be found on the EVS Download Center or is available on the workstation itself. Copy the content of the ZIP file on the IPDirector station and run the IPDirectorStationCleaner.exe. Click “Proceed” to run. Check Warning and Failed to ensure cleaning is correct.



- For downgrade to 6.55 - 7.10 we need to remove .NET 4.6.2 and install .NET 4.5.1 (versions 6.55 to 7.10 will install .NET4.5.1 with IPD package).
- For downgrade to 6.41 - 6.08 we need to remove .NET 4.6.2 and install .NET 4.0 Extended.
- If some services cannot be stopped (e.g. Autocomplete Service) you may need to reboot your machine and relaunch IPDirector Station Cleaner. More info [here](#).



Station Cleaner is only available starting version 6.57. If you are downgrading from version 6.56/6.55, you need to manually delete the file "C:\Windows\<System32/SysWOW64>\IPDSetupInstalled.txt" which contains information about installed software versions.

For more information on downgrade procedure, please contact the support team.

## RE-INSTALL THE IPDIRECTOR

- Launch Remote Installer's "setup.exe"
- Once installation is completed, machine **should** be restarted before to send the package IPD.
- Deploy the required IPDirector package (Tip: You can send the Package to all the machines in the workgroup with the option "Install version" from the "Remote Installer"). This operation may take a while.
- Point your workgroup to the right Database
- Restore you backed up database or deploy a clean Database

## RE-APPLY CONFIGURATION FILES

If needed, copy all backed up configuration files to their original directory, selecting the "copy and replace" option in the windows popup.