

# Manuel de zenon

## Installation et mises à jour

v. 7.60





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## 1. Bienvenue dans l'aide de COPA-DATA

### TUTORIELS VIDÉO DE ZENON.

Des exemples concrets de configurations de projets dans zenon sont disponibles sur notre chaîne YouTube ([https://www.copadata.com/tutorial\\_menu](https://www.copadata.com/tutorial_menu)). Les tutoriels sont regroupés par sujet et proposent un aperçu de l'utilisation des différents modules de zenon. Les tutoriels sont disponibles en anglais.

### AIDE GÉNÉRALE

Si vous ne trouvez pas certaines informations dans ce chapitre de l'aide, ou si vous souhaitez nous suggérer d'intégrer un complément d'information, veuillez nous contacter par e-mail : [documentation@copadata.com](mailto:documentation@copadata.com) (<mailto:documentation@copadata.com>).

### ASSISTANCE PROJET

Si vous vous rendez compte que vous avez besoin de licences ou de modules supplémentaires, veuillez contacter l'équipe commerciale par e-mail : [support@copadata.com](mailto:support@copadata.com) (<mailto:support@copadata.com>)

### LICENCES ET MODULES

Si vous vous rendez compte que vous avez besoin de licences ou de modules supplémentaires, veuillez contacter l'équipe commerciale par e-mail : E-mail [sales@copadata.com](mailto:sales@copadata.com) (<mailto:sales@copadata.com>).

## 2. Installation et mises à jour

Lors de la première installation de zenon, la procédure d'installation démarre automatiquement et vous guide tout au long du processus d'installation. Si vous avez désactivé la fonction Exécution automatique

de votre lecteur de média, vous pouvez démarrer l'installation en exécutant le fichier **START.exe** situé dans le répertoire racine de votre support d'installation de zenon.

### Remarques concernant l'installation :

- ▶ Avant d'installer zenon :
  - Toutes les mises à jour actuelles du système d'exploitation doivent être installées.  
**Remarque :** Si vous utilisez toujours la dernière version (Service Pack) de votre système d'exploitation, vous évitez non seulement les problèmes de compatibilité, mais également les problèmes de sécurité.
  - Le système d'exploitation ne doit pas être en attente de redémarrage.
- ▶ Avec Windows 7 Embedded Standard, zenon est installé dans le cadre d'une procédure d'installation normale. Vous trouverez des informations concernant la configuration matérielle requise au chapitre Le Runtime sous Windows Embedded Standard (à la page 42).
- ▶ zenon pour Windows CE est installé dans le cadre de la procédure d'installation normale. La version 7.20 des fichiers pour Windows CE est installée. Vous trouverez plus de détails à ce sujet au chapitre Runtime sous Windows CE (à la page 49).
- ▶ Pendant l'installation de zenon, **COPA-DATA Multiple Network Protocol Driver (cdprotdrv.sys)** est installé. Pour démarrer le driver, vous devez redémarrer le système d'exploitation après installation.

#### Attention

*À partir de la version 7.10, zenon ne peut pas être installé sur les systèmes sur lesquels Microsoft SQL Server Data Engine (MSDE) est déjà installé. Ceci affecte tous les systèmes sur lesquels est installé zenon 6.01 ou 6.20 ou une version antérieure.*



### Informations

*Durant l'installation, si vous recevez un message d'erreur indiquant qu'un service ne peut pas être démarré :*

- ▶ Redémarrez d'abord l'ordinateur
- ▶ Ensuite, redémarrez le programme d'installation de zenon

## 3. Installation standard de zenon

zenon démarre automatiquement l'installation et effectue l'ensemble de la procédure d'installation lorsque le support d'installation de zenon est connecté. Vous pouvez également démarrer l'installation en exécutant le fichier **START.exe** situé dans le répertoire racine du support d'installation de zenon.

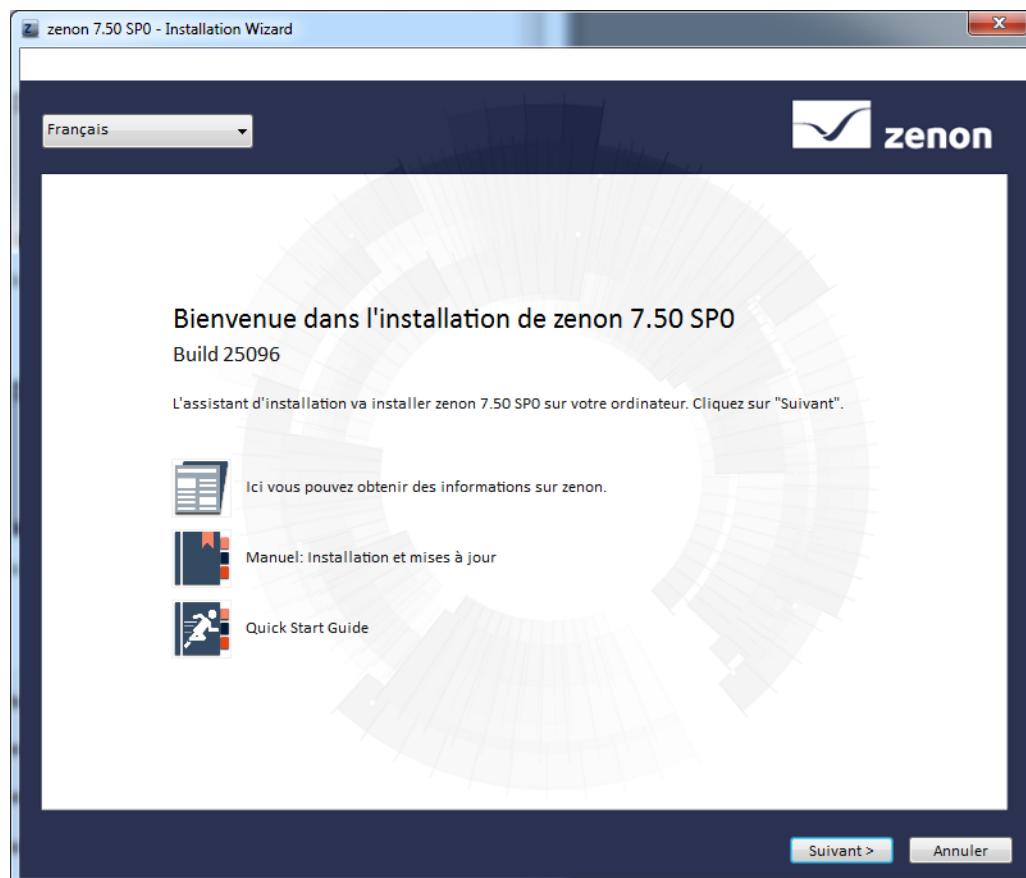
Des droits d'administrateur sont requis pour la procédure d'installation sur l'ordinateur !

### ⚠️ Attention

*L'ordinateur redémarre automatiquement durant l'installation, si nécessaire. Fermez tous les autres programmes avant l'installation.*

### 3.1 Synoptique de départ

L'écran de démarrage indique la version à installer, ainsi que le numéro de version.



1. Dans la liste déroulante affichée en haut à gauche, sélectionnez la langue souhaitée pour l'installation.

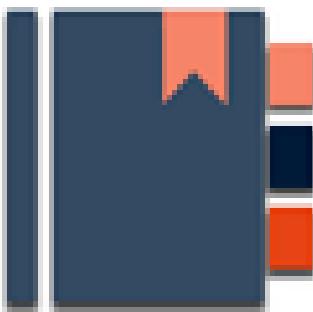
Les langues suivantes sont disponibles pour l'installation :

- Allemand
- Anglais
- Français
- Italien
- Espagnol

2. Des informations concernant zenon sont disponibles en cliquant sur le bouton souhaité :



Ouvre une animation contenant les informations concernant la version actuelle de zenon.



Ouvre l'aide relative à l'installation zenon, sous forme de fichier PDF.



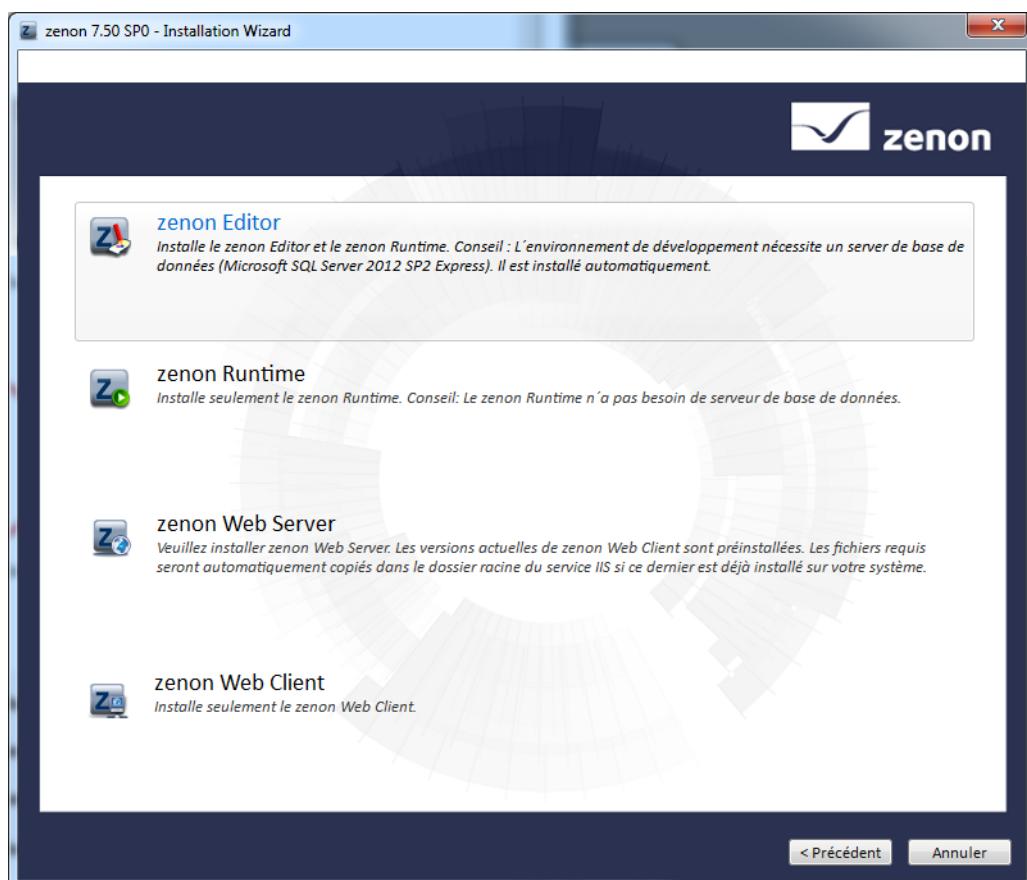
Ouvre le guide de démarrage rapide au format PDF, qui contient des conseils relatifs aux premières étapes de configuration de projets dans zenon.

**Attention :** Vous ne pourrez plus afficher cette page ultérieurement. Si vous avez besoin d'informations concernant la version actuelle du logiciel ou souhaitez consulter le manuel pour connaître la procédure d'installation, ouvrez-la maintenant.

3. Cliquez sur le bouton **Suivant** pour ouvrir la fenêtre contenant les conditions d'accord de licence.
4. Confirmez les conditions d'accord de licence en cochant la case correspondante.
5. Vous pouvez également modifier les conditions d'accord de licence en cliquant sur le bouton **Imprimer**.
6. Cliquez sur le bouton **Suivant** pour ouvrir la fenêtre de sélection du produit souhaité.  
**Remarque :** Le bouton Suivant est uniquement disponible si vous avez accepté les conditions d'accord de licence en cliquant sur la case d'option.

## 3.2 Installation standard de zenon

Sélectionnez le produit de votre choix. Il est uniquement possible de sélectionner les produits qui n'ont pas encore été installés. Si vous souhaitez réinstaller un produit, vous devez d'abord le désinstaller depuis le Panneau de configuration.



- **zenon Editor:**  
Installe zenon Editor et le Runtime zenon. Les autres composants requis pour Editor sont également installés ensemble automatiquement.

- **zenon Runtime:**  
Installe uniquement le Runtime zenon.
- **zenon Web Server:**  
Installe zenon Web Server et les modules <CD\_PRODUCTNAME Web Client> correspondants.
- **zenon Web Client :**  
Installe uniquement zenon Web Client.



#### Informations

*L'installation démarre immédiatement lors de la sélection de zenon Web Server ou de zenon Web Client.*

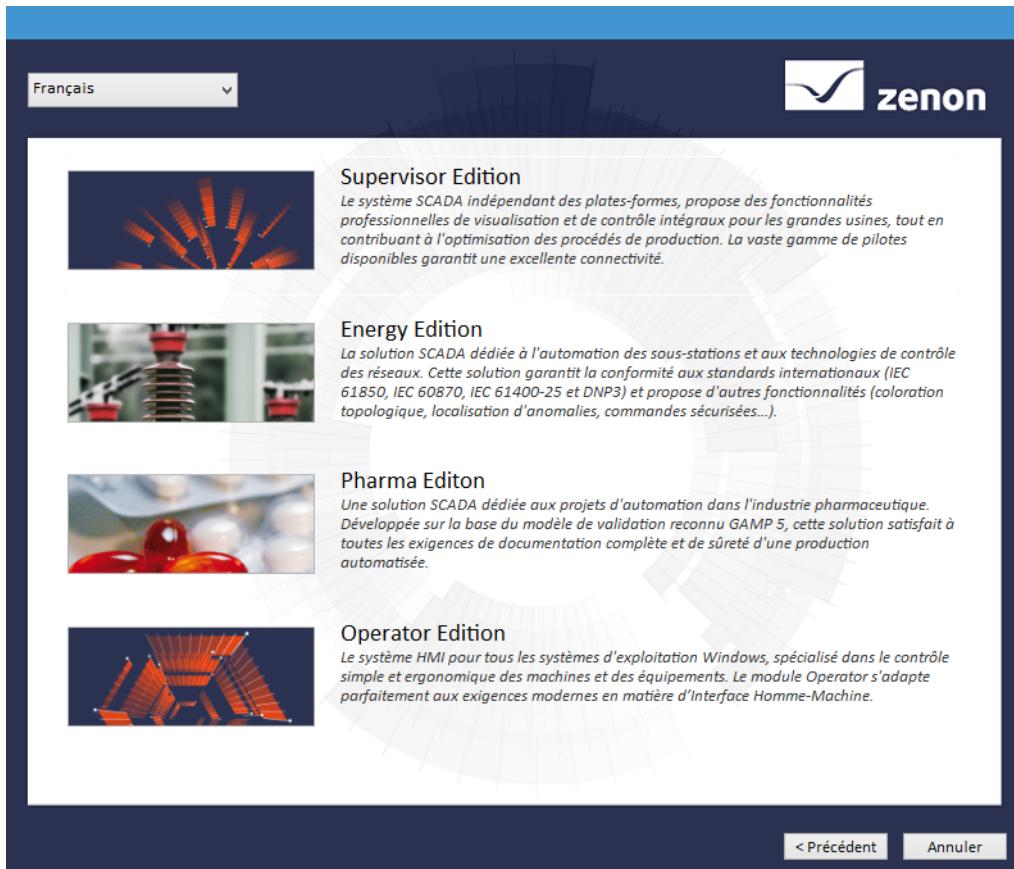
*La boîte de dialogue de sélection de l'édition s'affiche lors de la sélection de zenon Editor ou de zenon Runtime.*

### 3.3 Sélection de l'édition – Type d'installation (installation définie par l'utilisateur)

Cliquez sur le produit souhaité pour ouvrir la fenêtre de sélection de l'édition.

1. Sélectionnez la version comportant la licence de votre choix :
  - **zenon Supervisor Edition**
  - **zenon Energy Edition**
  - **zenon Pharma Edition**

- **zenon Operator Edition**

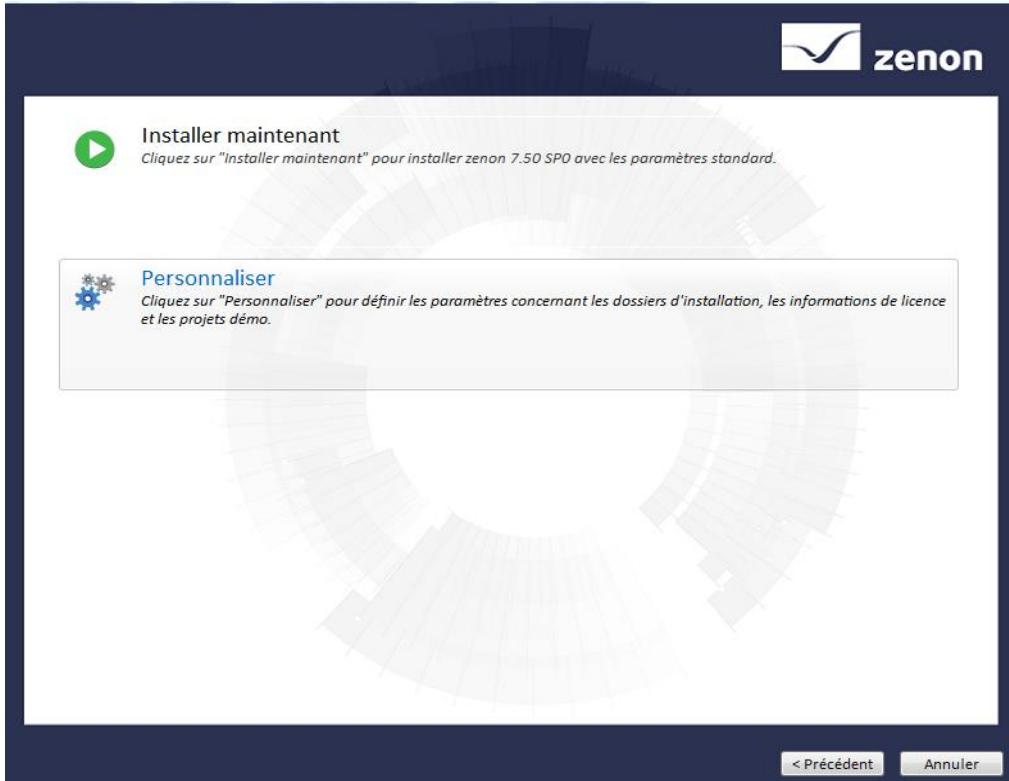


The screenshot displays a software interface for zenon, featuring a dark blue header with a "Français" language selection dropdown and the zenon logo. Below the header, there are four main sections, each representing a different software edition:

- Supervisor Edition**: Includes a small graphic of red and orange bars and a detailed description of the system's capabilities for large factories.
- Energy Edition**: Includes a photograph of industrial electrical components and a description of the solution for power substations and network control.
- Pharma Edition**: Includes a photograph of pharmaceutical capsules and a description of the solution for pharmaceutical automation, based on GAMP 5 validation principles.
- Operator Edition**: Includes a graphic of red and orange geometric shapes and a description of the HMI system for Windows-based operations, emphasizing simplicity and ergonomics.

At the bottom right of the interface are two buttons: "< Précédent" (Previous) and "Annuler" (Cancel).

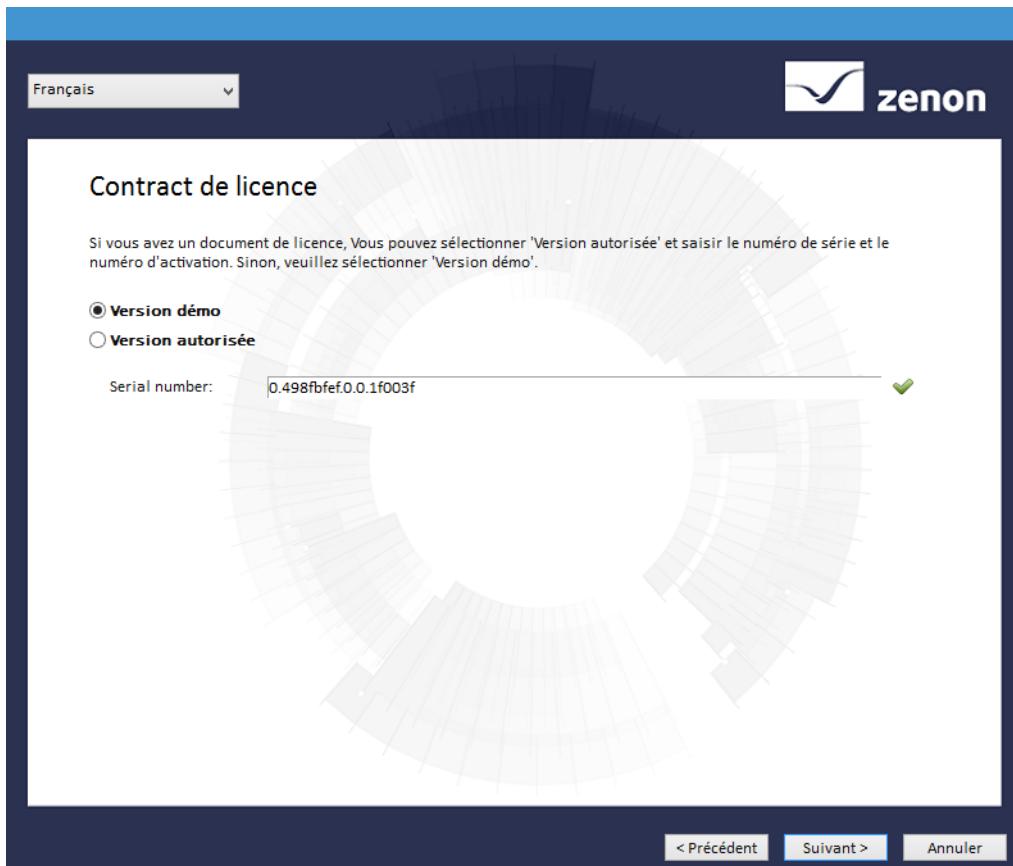
2. Cliquez sur l'édition souhaitée pour ouvrir la fenêtre de sélection du type d'installation.



- **Installer maintenant :**  
démarrer l'installation de l'édition sélectionnée.  
L'ordinateur peut redémarrer automatiquement durant l'installation. Suivez les instructions de l'assistant
- **Défini par l'utilisateur :**  
ouvre d'autres fenêtres pour l'installation en cours.  
Vous pouvez saisir un numéro de série existant et modifier le répertoire d'installation.

## INSTALLATION DÉFINIE PAR L'UTILISATEUR

- Si vous sélectionnez une installation **définie par l'utilisateur**, la fenêtre de saisie du numéro de série s'affiche :



- Sélectionnez **Version démo** si vous ne possédez pas de licence.
- Si vous possédez déjà une licence, saisissez le numéro de série et le numéro d'activation.  
**Remarque :** La validité du numéro de série est contrôlée. Si la licence est valide, une grüner Haken apparaît près du champ de saisie.

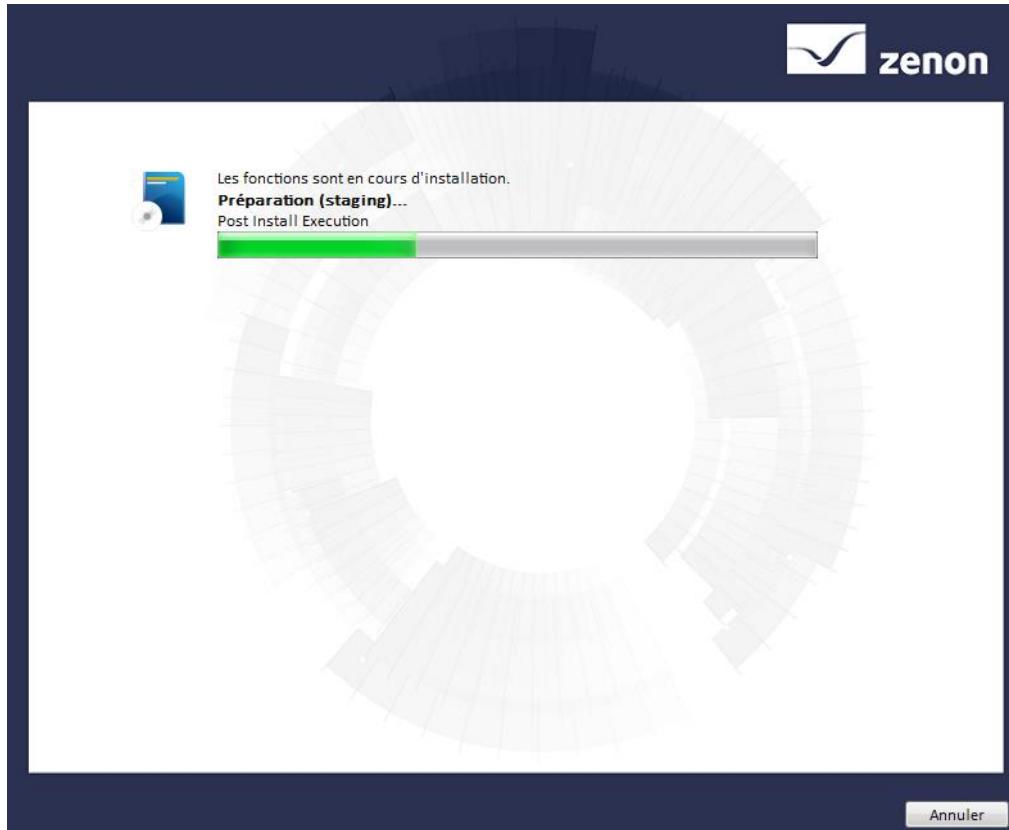
2. Cliquez sur le bouton **Suivant** pour ouvrir la fenêtre permettant de modifier les dossiers d'installation.



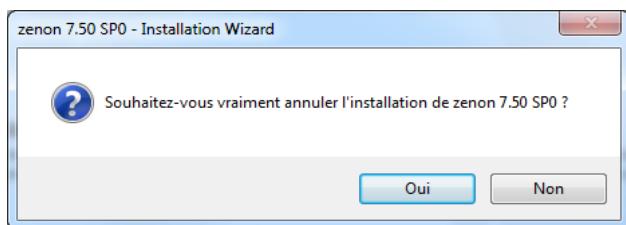
- Si nécessaire, définissez individuellement les dossiers correspondant aux versions 32 bits et 64 bits du programme.  
Pour cela, cliquez sur le bouton **Modifier....**
  - Définissez le dossier cible de la base de données du projet.  
**Remarque :** Ce dossier ne peut pas être modifié ultérieurement. L'emplacement de sauvegarde sélectionné ici doit disposer d'une quantité suffisante d'espace libre. Tous les utilisateurs doivent disposer d'une autorisation d'écriture.
  - Si vous souhaitez également installer le projet de démonstration, cochez la case correspondante.  
Le projet de démonstration fournit des exemples de scénarios d'utilisation possibles dans différentes industries.
3. Cliquez sur le bouton **Installer**.  
L'installation de l'édition sélectionnée démarre.  
L'ordinateur peut redémarrer automatiquement durant l'installation. Suivez les instructions de l'assistant

## 3.4 Installation et finalisation

Une barre de progression vous informe de l'avancement de l'installation concernée et de l'étape d'installation actuelle.



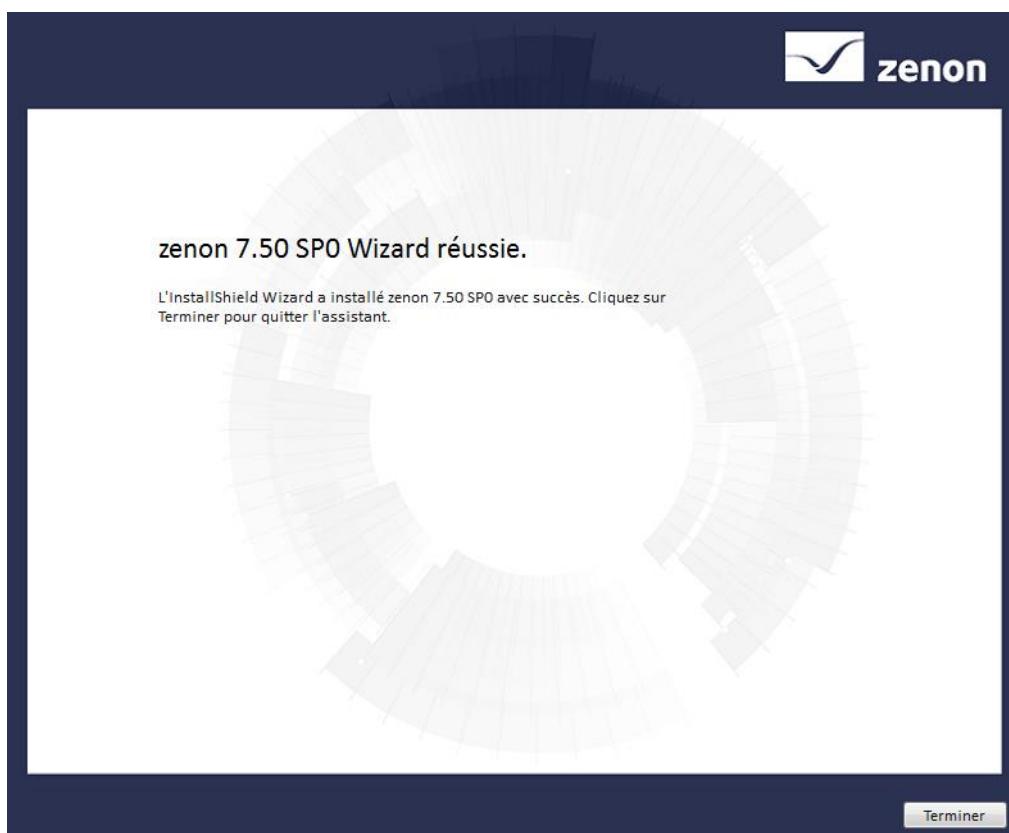
- ▶ Vous pouvez annuler l'installation en cliquant sur le bouton **Abbrechen**.  
Vous serez invité à confirmer votre choix avant l'annulation de l'installation.



Paramètres	Description
<b>Oui</b>	L'installation est annulée. La boîte de dialogue d'avertissement en cas d'installation non valide est affichée.
<b>Non</b>	L'installation se poursuit.

L'installation peut demander un certain temps. N'éteignez pas votre ordinateur à cet instant.  
Assurez-vous également que le mode de veille de votre ordinateur ne sera pas automatiquement activé.

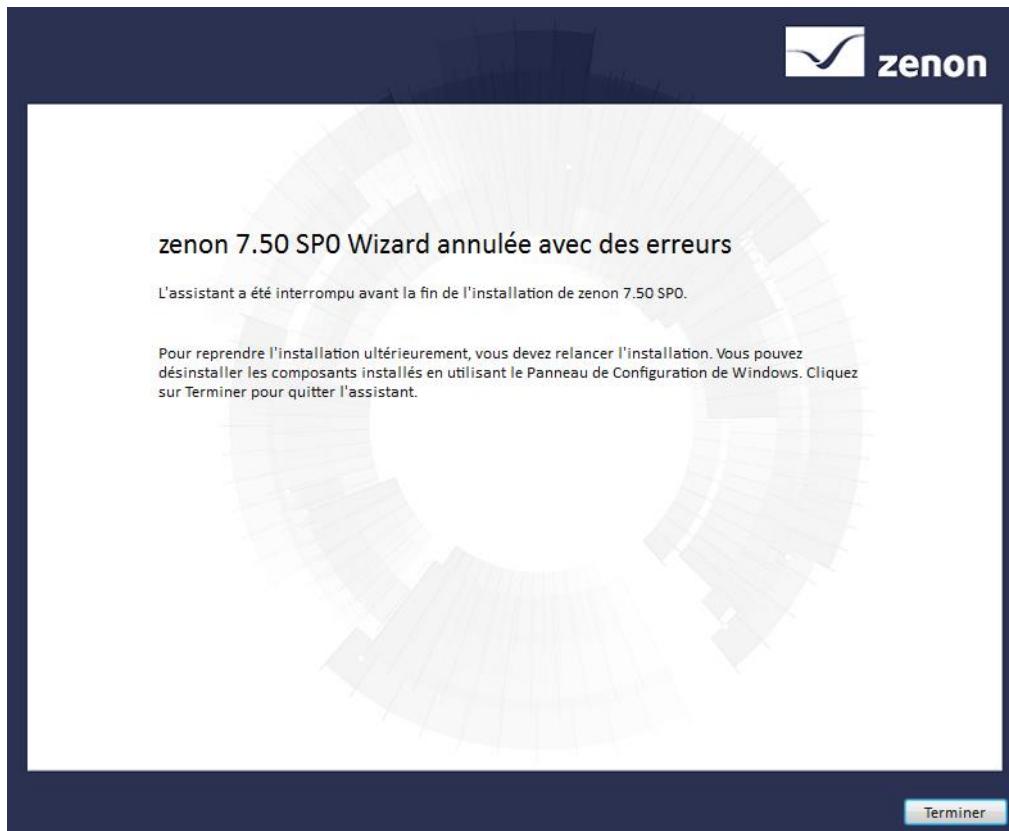
## TERMINÉ



Une boîte de dialogue vous informe du bon déroulement de l'installation.

- ▶ Cliquez sur le bouton **Fertig stellen** pour terminer l'installation.
- ▶ Redémarrez le programme d'installation si vous souhaitez installer d'autres produits, tels que **zenon Web Server**.

## Annulation ou échec de l'installation



Si une erreur se produit durant l'installation, ou si l'installation est annulée, ceci est affiché dans une boîte de dialogue.

Cliquez sur le bouton **Terminer** pour quitter le programme d'installation.

## 4. Installation et désinstallation silencieuses

zenon peut également être installé et désinstallé en silence (Silent Installation) et (Silent Remove).



### Informations

*Il est possible d'effectuer une installation et une désinstallation silencieuses pour toutes les versions de zenon à partir de 7.10.*

## INSTALLATION SILENCIEUSE À PARTIR DE ZENON 7.20

Syntaxe : **scada.exe /silent /language:[numéro] CDPROP\_EDITION=[édition] CDPROP\_TYPE=[type]**  
**ISFeatureInstall=[fonctionnalités]**

Paramètres	Arguments	Description
<b>scada.exe</b>		Appel de l'installation.
<b>/silent</b>		Installation silencieuse.
<b>/language:</b>	<ul style="list-style-type: none"> <li>▶ <b>1031</b>: Allemand</li> <li>▶ <b>1033</b>: Anglais</li> <li>▶ <b>1034</b>: Espagnol</li> <li>▶ <b>1036</b>: Français</li> <li>▶ <b>1040</b>: Italien</li> </ul>	Sélection de la langue. Exemple : Anglais : <b>language:1033</b>
<b>CDPROP_EDITION=</b>	<ul style="list-style-type: none"> <li>▶ <b>ENERGY</b></li> <li>▶ <b>SUPERVISOR</b></li> <li>▶ <b>OPERATOR</b></li> <li>▶ <b>PHARMA</b></li> <li>▶ <b>SCIENCE</b></li> </ul>	Sélection de l'édition. Exemple : Energy Edition : <b>CDPROP_EDITION=ENERGY</b> N'est pas nécessaire pour le serveur Web de zenon et le client Web de zenon.
<b>CDPROP_TYPE=</b>	<ul style="list-style-type: none"> <li>▶ <b>ED</b>: Editor et Runtime</li> <li>▶ <b>RT</b>: Runtime</li> </ul>	Sélection de l'Editor ou du Runtime. Exemple : Runtime : <b>CDPROP_TYPE=RT</b> N'est pas nécessaire pour le serveur Web de zenon et le client Web de zenon.
<b>ISFeatureInstall=</b>	<ul style="list-style-type: none"> <li>▶ <b>PREREQUISITES_EDITOR,SCADA</b>: Editor</li> <li>▶ <b>PREREQUISITES_RUNTIME,SCADA</b>: Runtime</li> <li>▶ <b>PREREQUISITES_WEBSERVER,WEB SERVER</b>: Serveur Web</li> <li>▶ <b>PREREQUISITES_WEBCLIENT,WEB CLIENT</b>: Client Web</li> </ul>	Sélection des fonctionnalités à installer. Exemple : zenon Editor : <b>ISFeatureInstall=PREREQUISITES_EDITOR,SCADA</b>

### Exemples :

- ▶ Installation de l'Editor, allemand, Energy Edition :  
**scada.exe /silent /language:1031 CDPROP\_EDITION=ENERGY CDPROP\_TYPE=ED**  
**ISFeatureInstall=PREREQUISITES\_EDITOR,SCADA**

- ▶ Installation du Runtime, anglais, Supervisor Edition :
   
**scada.exe /silent /language:1033 CDPROP\_EDITION=SUPERVISOR CDPROP\_TYPE=RT  
ISFeatureInstall=PREREQUISITES\_RUNTIME,SCADA**
- ▶ Installation du serveur Web zenon, allemand :
   
**scada.exe /silent /language:1031  
ISFeatureInstall=PREREQUISITES\_WEBSERVER,WEBSERVER**
- ▶ Installation du client Web zenon, allemand :
   
**scada.exe /silent /language:1031 ISFeatureInstall=PREREQUISITES\_WEBCLIENT,WEBCLIENT**

## DÉSINSTALLATION SILENCIEUSE À PARTIR DE ZENON 7.20

### SANS FICHIER LOG

Chemin : **C:\Program Files (x86)\InstallShield Installation Information\{9BE6EDFE-3465-486F-87EE-1C439DE5EA9A}**

Syntaxe : **SCADA.exe /remove /silent**

### AVEC FICHIER LOG

Chemin : **C:\Program Files (x86)\InstallShield Installation Information\{9BE6EDFE-3465-486F-87EE-1C439DE5EA9A}**

Syntaxe : **SCADA.exe /remove /silent /log"%TEMP%"**

## INSTALLATION SILENCIEUSE DE ZENON 7.10 ET 7.11

Syntaxe : **scada.exe /silent /language:[numéro] CDPROP\_EDITION=[édition] CDPROP\_TYPE=[type]  
ISFeatureInstall=[fonctionnalités]**

Paramètres	Arguments	Description
<b>scada.exe</b>		Appel de l'installation.
<b>/silent</b>		Installation silencieuse.
<b>/language:</b>	<ul style="list-style-type: none"> <li>▶ <b>1031</b>: Allemand</li> <li>▶ <b>1033</b>: Anglais</li> <li>▶ <b>1034</b>: Espagnol</li> <li>▶ <b>1036</b>: Français</li> <li>▶ <b>1040</b>: Italien</li> </ul>	Sélection de la langue. Exemple : Anglais : <b>language:1033</b>
<b>CDPROP_EDITION=</b>	<ul style="list-style-type: none"> <li>▶ <b>ENERGY</b></li> </ul>	Sélection de l'édition. Exemple : Energy Edition :

	<ul style="list-style-type: none"> <li>▶ <b>SUPERVISOR</b></li> <li>▶ <b>OPERATOR</b></li> <li>▶ <b>PHARMA</b></li> </ul>	<b>CDPROP_EDITION=ENERGY</b> N'est pas nécessaire pour le serveur Web de zenon.
<b>CDPROP_TYPE=</b>	<ul style="list-style-type: none"> <li>▶ <b>ED:</b> Editor et Runtime</li> <li>▶ <b>RT:</b> Runtime</li> </ul>	Sélection de l'Editor ou du Runtime.  Exemple : Runtime : <b>CDPROP_TYPE=RT</b>  N'est pas nécessaire pour le serveur Web de zenon.
<b>ISFeatureInstall=</b>	<ul style="list-style-type: none"> <li>▶ <b>WIBU,SCADA,MS,MSALL,SQL,COMMON:</b> Editor</li> <li>▶ <b>WIBU,SCADA,MS,MSALL,COMMON:</b> Runtime</li> <li>▶ <b>WIBU,WS,MSALL,COMMON:</b> Serveur Web</li> </ul>	Sélection des fonctionnalités à installer.  Exemple : zenon Editor : <b>ISFeatureInstall=WIBU,SCADA,MS,MSALL,SQL,COMMON</b>

Exemples :

- ▶ Installation de l'Editor, allemand, Energy Edition :  
**scada.exe /silent /language:1031 CDPREP\_EDITION=ENERGY CDPREP\_TYPE=ED  
ISFeatureInstall=WIBU,SCADA,MS,MSALL,SQL,COMMON**
- ▶ Installation du Runtime, anglais, Supervisor Edition :  
**scada.exe /silent /language:1033 CDPREP\_EDITION=SUPERVISOR CDPREP\_TYPE=RT  
ISFeatureInstall=WIBU,SCADA,MS,MSALL,COMMON**
- ▶ Installation du serveur Web dezenon, allemand :  
**scada.exe /silent /language:1031 ISFeatureInstall=WIBU,WS,MSALL,COMMON**

## DÉSINSTALLATION SILENCIEUSE DE LA VERSION 7.10 ET ZENON 7.11

### ZENON 7.10

Chemin : **C:\Program Files (x86)\InstallShield Installation Information\{860C41F0-6034-4822-BCF1-88D4849AE897}**

Syntaxe : **SCADA.exe /remove /silent**

### ZENON 7.11

Chemin : **C:\Program Files (x86)\InstallShield Installation Information\{ED00D319-77B8-4C58-8D67-2DA2D48E90DB}**

Syntaxe : **SCADA.exe /remove /silent**

## 5. Gestion des erreurs

### VÉRIFICATION AVANT INSTALLATION :

La configuration minimale requise du système doit être vérifiée avant l'installation. Si les critères ne sont pas satisfaisants, ils sont affichés sur une page distincte, avec des informations destinées à vous permettre d'y remédier.

### ERREUR DURANT L'INSTALLATION

Un message d'erreur s'affichera à l'écran en cas d'erreur durant l'installation.

Si vous avez besoin d'aide, vous pouvez vous adresser au service de conseil technique de COPA-DATA :

1. Si possible, créez une capture d'écran du message d'erreur.
2. Accédez au dossier nommé %Temp%/SCADALOG.
3. Vous trouverez ici les fichiers journaux de la procédure d'installation.
4. Créez un fichier ZIP avec le contenu du dossier.
5. Transmettez le fichier et la capture d'écran à support@copadata.com.

Si vous avez déjà fermé la fenêtre contenant le message d'erreur, vous pouvez consulter les fichiers journaux contenant toutes les informations concernant l'installation de SQL Server dans le dossier suivant :

C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\LOG

**Conseil :** le fichier **summary.txt** contient les informations de dépannage.



#### Informations

*Pare-feu : zenon configures automatiquement le pare-feu installé avec Windows durant l'installation. Les pare-feu d'autres fournisseurs doivent être correctement configurés par l'utilisateur.*

### SOURCES D'ERREURS FRÉQUENTES DURANT L'INSTALLATION :

- ▶ Le logiciel antivirus est actif et bloque l'installation en méprisant le programme d'installation pour un virus. Solution : isolez le système du réseau, désactivez le logiciel antivirus, puis exécutez l'installation à nouveau.

- ▶ Le pare-feu n'a pas été correctement configuré. Solution : isolez le système du réseau, désactivez le pare-feu, puis exécutez l'installation à nouveau.
- ▶ Installation incorrecte de SQL sur le système. Solution : Créez des sauvegardes de projet ; si possible, désinstallez SQL Server, renommez le dossier SQL, puis redémarrez l'installation.

## 6. Mises à jour de Windows

**Attention :** Les mises à jour automatiques de Windows influencent le déroulement de l'installation.

*Si une mise à jour du système d'exploitation Windows est effectuée pendant le fonctionnement du programme d'installation de zenon, des problèmes peuvent survenir durant l'installation de zenon.*

*Pour éviter cela :*

- ▶ Désactivez la fonction de mise à jour automatique de Windows durant l'installation, ou
- ▶ Exécutez la mise à jour de Windows avant de démarrer l'installation de zenon

## 7. Logiciel antivirus

Un logiciel antivirus peut ralentir, voire empêcher l'installation de zenon.

**Remarque :** Si le logiciel antivirus que vous utilisez entraîne des problèmes durant l'installation, désactivez le logiciel antivirus pour la durée de l'installation. Notez que pendant ce temps, l'ordinateur est plus vulnérable aux menaces informatiques. Réactivez immédiatement votre logiciel antivirus après l'installation de zenon.

## 8. Structure des fichiers

L'arborescence des fichiers est créée (ou étendue) au cours de l'installation.

Les fichiers programme de zenon sont copiés vers un dossier que vous pouvez définir durant l'installation.

De plus, le programme d'installation demande également un dossier pour les bases de données SQL des projets. Le support de stockage utilisé pour l'archivage de projets (SQL, synoptiques, etc.) doit comporter suffisamment d'espace, car toutes les données des projets et actuels sont enregistrées sur celui-ci.

Dossier	Chemin
<b>Liste des programmes</b>	Système 32 bits : %Program Files%\COPA-DATA\zenon7xxx  Système 64 bits : %Program Files%\COPA-DATA\zenon7xxx  %Program Files (x86)%\COPA-DATA\zenon7xxx
<b>Dossier de données du programme, par ex. symboles globale, modèles d'impression, fichiers journaux etc.</b>	%ProgramData%\COPA-DATA\zenon7xxx
<b>Dossier de la base de données (SQL)</b>	%ProgramData%\COPA-DATA\SQL
<b>Dossier système</b>	%ProgramData%\COPA-DATA\System
<b>Paramètres et profils d'Editor</b>	%Users%\UserName\AppData\Local\COPA-DATA\zenon\Editor
<b>Paramètres</b> Diagnosis Viewer	%Users%\UserName\AppData\Local\COPA-DATA\zenon\DiagView

## DOSSIER DE DÉFINITION DU RUNTIME ET DOSSIER DE DONNÉES

### DOSSIER DU RUNTIME

Editor crée des fichiers de Runtime dans le dossier du Runtime ; ils peuvent également être transférés vers ce dossier à l'aide du module Remote Transport. Lors de la création d'un projet, vous devez définir le dossier du Runtime. Vous pourrez ultérieurement modifier ce dossier dans les propriétés du projet. Avec le module Remote Transport, le dossier du Runtime est défini dans les paramètres du module.

### DOSSIER DES DONNÉES

Le Runtime enregistre tous les fichiers de données créés dans le Runtime, tels que les fichiers d'alarmes, les fichiers d'archives et autres, dans le dossier de données. Par défaut, le dossier de données est créé sous forme de sous-dossier du dossier du Runtime. Ce dossier reçoit automatiquement le nom de l'ordinateur sur lequel s'exécute le Runtime. Vous pouvez modifier cet emplacement de sauvegarde dans les propriétés du projet (**Général/Dossier des données**).

**Conseil :** ne définissez jamais le dossier de données sur un support amovible, tel qu'une clé USB ou un périphérique réseau. Il est recommandé d'enregistrer les données localement et de les sauvegarder sur un lecteur externe.

### Attention

Si le chemin défini n'existe pas ou n'est plus disponible, aucune autre donnée n'est écrite depuis le Runtime. Cela signifie donc que la totalité des données est perdue. Le Runtime peut encore être contrôlé, mais doit être redémarré dès que le chemin redevient disponible. La disponibilité du dossier peut être contrôlée par le biais de la variable de driver du système Dossier de **données du Runtime indisponible** ([SYSDRV.chm::/25965.htm](#)).

## 9. Ports libres

zenon et zenon Logic nécessitent certains ports de communication pour les communications via le réseau. Si ces ports sont occupés par d'autres programmes, par exemple un serveur SQL précédemment installé, les communications de zenon peuvent être perturbées. De nombreux ports dans zenon peuvent être modifiés à l'aide de l'outil **Startup Tool** ou des propriétés dans Editor.

Voici comment vérifier les attributions de ports :

1. Saisissez `netstat -a -n -o` dans la ligne de commande.

Procédez comme suit pour accéder à la ligne de commande dans Windows :

- appuyez sur la touche Windows et R.
- Saisissez `cmd` et confirmez en cliquant sur **OK**.
- Une fenêtre MS-DOS s'affiche.
- Saisissez la commande `netstat`.

2. La liste de tous les ports TCP et UDP actuellement utilisés s'affiche à l'écran.
3. Contrôlez les ports d'écoute (état : ABHÖREN LISTEN) si l'identifiant de processus (PID) des ports utilisés par zenon et zenon Logic correspond aux processus de zenon et zenon Logic.

Les PID sont affichés dans la fenêtre **Processus du Gestionnaire de tâches de Windows** ; à cette fin, activez la colonne **PID** dans le menu **Sélectionner un affichage -> Colonnes**.

4. Si d'autres logiciels utilisent ces ports, reconfigurez ce logiciel.  
Vous pouvez afficher les ports utilisés par zenon et zenon Logic dans le tableau **Attribution des ports par zenon et zenon Logic**. Ici, vous pouvez également voir si ces ports peuvent être modifiés dans ces programmes.

## PARAMÈTRES DES PORTS DE ZENON ET ZENON LOGIC

Application	Description	Ports	Fichier journal de transport
<b>stratonrt[k].exe</b>	Le Runtime de zenon Logic sonde les communications et le module Workbench de zenon Logic.	▶ 1200-1210	<b>TCP</b>
<b>stratonrt[k].exe</b>		▶ 4500-4510	<b>TCP</b>
<b>stratonrt[k].exe</b>	Redondance de zenon Logic.	▶ 7000-7010	<b>TCP</b>
<b>stratonrt[k].exe</b>	Communications événementielles du Runtime de zenon Logic.	▶ 9000-9010	<b>TCP</b>
<b>zennetsrv.exe</b>	Service réseau de zenon.	▶ 1100-1100	<b>TCP</b>
<b>zensyssrv.exe</b>	Service de transport de de zenon.	▶ 1101	<b>TCP</b>
<b>zendbsrv.exe</b>	Service de base de données de zenon.	▶ 1103	<b>TCP</b>
<b>zenAdminsrv.exe</b>	Service d'administration de zenon.	▶ 50777	<b>TCP</b>
<b>zenLogSrv.exe</b>	Service de journalisation de zenon.	▶ 50780	<b>TCP</b>
<b>zenvnc.exe</b>	Service zenon Remote Desktop	▶ 5600 (fixe) ▶ 5610 (fixe)	<b>TCP</b>
<b>CodeMeter.exe</b>	Service du dongle Code Meter.	▶ 22350 (peut, mais ne doit pas être modifié)	<b>TCP</b>
<b>WkSvW32.exe</b>	Service réseau WibuKey	▶ 22347 (fixe)	<b>TCP</b>
<b>Zenrt32.exe</b>	<b>Message Control</b> avec Voice over IP.	▶ 5060: SIP ▶ 4000: RTP ▶ 4001: RTCP (fixe)  SIP et TRP peuvent être	<b>UDP</b>

		configurés avec Editor. RTCP est automatiquement défini par le système.	
--	--	---	--

## 10. Installation d'une version antérieure après l'installation de zenon 7.60 (système d'exploitation 64 bits)

Avec un système d'exploitation de 64 bits, si une version de zenon antérieure à la version 7.10 est installée après l'installation de zenon 7.60, les services 64 bits de la version 7.10 doivent être réenregistrés manuellement, à l'aide de la ligne de commande. L'enregistrement peut être réalisé manuellement, ou à l'aide d'un fichier de commandes.

### Enregistrement avec un fichier de commandes :

1. Copiez le fichier **Register.bat** depuis le support d'installation de zenon.
2. Celui-ci se trouve dans le répertoire suivant : . . . \AdditionalSoftware\Register Admin Service and Log Service (x64) \
3. Exécutez le fichier comme administrateur sur l'ordinateur correspondant.

### Enregistrement manuel :

1. exécutez la ligne de commande avec des droits d'administrateur.
2. Accédez au dossier %Program Files%\Common Files\COPA-DATA\zenAdminSrv
3. Démarrez le service **zenAdminSrv.exe** avec le paramètre **-service**
4. Accédez au dossier %Program Files%\Common Files\COPA-DATA\zenLogSrv
5. Démarrez le service **zenLogSrv.exe** avec le paramètre **-service**

### Exemple

zenAdminSrv:

- ▶ Dossier : C:\Program Files\Common Files\COPA-DATA\zenAdminSrv
- ▶ Commande : **zenAdminSrv.exe -service**

zenLogSrv :

- ▶ Dossier : C:\Program Files\Common Files\COPA-DATA\zenLogSrv
- ▶ Commande : **zenLogSrv.exe -service**

## 11. Installation de la version 7.x et de la version 6.51 sur le même ordinateur

Si une version 7.x est installée sur un système sur lequel zenon 6.51 est déjà installé, le driver **Multiple Network Protocol Driver** doit être réinstallé après le redémarrage de l'ordinateur.

### SUR LES SYSTÈMES X64

Pour une nouvelle installation :

1. Redémarrez le système.
2. Sur le support de l'installation, accédez au chemin suivant :  
AdditionalSoftware\COPA-DATA Multiple Network Protocol Driver.
3. Exécutez le fichier intitulé **MNDPx64Setup.bat**.

Ceci permet de réinstaller correctement le driver et de l'associer correctement aux cartes réseau.

### SUR LES SYSTÈMES X86

Pour une nouvelle installation :

1. Redémarrez le système.
2. Sur le support de l'installation, accédez au chemin suivant :  
AdditionalSoftware\COPA-DATA Multiple Network Protocol Driver
3. Exécutez le fichier intitulé **MNDPx86Setup.bat**

Ceci permet de réinstaller correctement le driver et de l'associer correctement aux cartes réseau.

## 12. Configuration système requise

zenon 7.60 peut être utilisé avec tous les systèmes d'exploitation actuels de Microsoft. zenon est toujours testé avec les dernières versions en date des systèmes d'exploitation et les derniers Service Pack et correctifs disponibles.

Les modifications apportées par les Service Packs, Hotfixes ou Patches de Microsoft peuvent être à l'origine d'incompatibilités et peuvent affecter les fonctionnalités du logiciel. Si c'est le cas, COPA-DATA publiera une version mise à jour de zenon dans les meilleurs délais. Dans ce cas, vous pouvez obtenir davantage d'informations auprès du service d'assistance de COPA-DATA : support@copadata.com.

### Attention

*Remarque lors de la configuration du projet :*

- ▶ Pour garantir l'affichage optimal de zenon dans le Runtime, il est recommandé d'utiliser le réglage par défaut (100 %) du paramètre **Affichage** de Windows. L'utilisation de valeurs supérieures peut entraîner l'affichage incorrect d'éléments graphiques, de symboles, de textes, etc.
- ▶ Les thèmes de Windows peuvent recouvrir les éléments du Runtime. Lors de la configuration d'un projet, veillez à laisser une distance suffisante entre les éléments et le bord de l'écran.

▶

## 12.1 Systèmes d'exploitation pour serveurs et postes de travail

Systèmes d'exploitation compatibles et Service Packs requis :

Système d'exploitation	zenon Editor	zenon Runtime	zenon Web Server	zenon Web Client	zenon HTML Web Engine	zenon Logic Runtime	zenon Analyzer Server
<b>Windows 7</b> (Professionnel, Enterprise et Édition Intégrale, versions x86 et x64).	SP 1	SP 1	SP 1	SP 1	SP 1	SP 1	Exécution impossible
<b>Windows Embedded Standard 7</b> (si toutes les composants requis du système d'exploitation sont présents).	Exécution impossible	SP 1	SP 1	SP 1	SP 1	SP 1	Exécution impossible
<b>Windows 8 et 8.1</b> (Professionnel, Enterprise et Édition Intégrale, versions x86 et x64).	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Uniquement x64 avec SP 0
<b>Windows Embedded Standard 8</b> (si toutes les composants requis du système d'exploitation sont présents). Remarque :	Exécution impossible	SP 0	SP 0	SP 0	SP 0	SP 0	Exécution impossible
<b>Windows 10</b> (Home, Professional, Enterprise, Education, IoT Enterprise, versions x86 et x64).	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Uniquement les versions x64 des éditions Home, Professional et Enterprise avec SP 0.
<b>Windows Server 2008 R2</b> (Toutes éditions sauf Core)	SP 1	SP 1	SP 1	SP 1	SP 1	SP 1	Exécution impossible
<b>Windows Server 2012 et 2012 R2</b> (Toutes éditions sauf Core)	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Uniquement x64 avec SP 0
<b>Windows Server 2016</b> (Toutes les éditions sauf Core)	SP 0	SP 0	SP 0	SP 0	SP 0	SP 0	Uniquement x64 avec SP 0

## 12.2 Systèmes d'exploitation pour serveurs et ordinateurs de bureau jusqu'à Windows 8.1

Récapitulatif des systèmes d'exploitation pour serveurs et ordinateurs de bureau pris en charge jusqu'à Windows 8.1

	Windows Embedded 7/8 Standard	Windows Embedded 8.1 Pro/Industry	Windows 7 SP1/Windows 8 et 8.1/ Server 2008 (R2) SP1, 2012 et 2012 R2	Windows CE
<b>Editor</b>	--	X	X	--
<b>Runtime</b>	X	X	X	--
<b>Runtime pour Windows CE</b>	--	--	--	X
<b>Web Server</b>	X	X	X	X Web Server Pro Light
<b>Web Client</b>	X	X	X	--
<b>HTML Web Engine</b>	X	X	X	--

Légende :

- ▶ X: supportées
- ▶ --: indisponible

### ⚠ Attention

Windows CE n'est plus pris en charge à partir de la version 7.50. zenon CE version 7.20 est installé. Pour l'utiliser, vous devez créer les fichiers de Runtime pour la version 7.20.

## 12.3 Windows CE et Windows Embedded

Système d'exploitation	zenon Editor	zenon Runtime	zenon Web Server	zenon Web Client	zenon HTML Web Engine	zenon Logic Runtime	zenon Analyzer Server
<b>Windows CE 6.0</b> (ARM et x86)  <b>Attention :</b> uniquement pris en charge jusqu'à la version 7.20. À partir de la version 7.50, les fichiers de Runtime de la version 7.20 doivent être créés.	Exécution impossible	zenon Operator uniquement	Pro Light uniquement	Exécution impossible	Exécution impossible	exécutable	Exécution impossible
<b>Windows Embedded Compact 7</b> (ARM et x86)  <b>Attention :</b> uniquement pris en charge jusqu'à la version 7.20. À partir de la version 7.50, les fichiers de Runtime de la version 7.20 doivent être créés.	Exécution impossible	zenon Operator uniquement	Pro Light uniquement	Exécution impossible	Exécution impossible	exécutable	Exécution impossible

## 12.4 Windows 10

Récapitulatif des systèmes d'exploitation pour ordinateurs de bureau pris en charge pour Windows 10

Version de Windows	zenon Supervisor/Operator	Everywhere by zenon	zenon Logic Runtime
<b>Windows 10 Home</b>	<b>X</b>	<b>X (PC)</b>	<b>X</b>
<b>Windows 10 Mobile</b>	--	<b>X (Mobile)</b>	--
<b>Windows 10 Pro</b>	<b>X</b>	<b>X (PC)</b>	<b>X</b>
<b>Windows 10 Enterprise</b>	<b>X</b>	<b>X (PC)</b>	<b>X</b>
<b>Windows 10 Education</b>	<b>X</b>	<b>X (PC)</b>	<b>X</b>
<b>Windows 10 Mobile Enterprise</b>	--	<b>X (Mobile)</b>	--
<b>Windows 10 IoT Core</b>	--	--	<b>X</b>
<b>Windows 10 IoT Enterprise (Windows 10 Enterprise LTSB)</b>	<b>X</b>	<b>X (PC)</b>	<b>X</b>

Légende :

- ▶ **X**: disponibles
- ▶ --: Exécution impossible

## 12.5 Configuration système requise lors de l'utilisation de DirectX

La configuration minimale requise doit être satisfaite lors de l'utilisation de périphériques DirectX ou de logiciels DirectX :

**Remarque :** Pour des gros projets ou plusieurs projets chargés en même temps vous aurez besoin d'une configuration avec plus de capacité La configuration minimale requise peut augmenter en conséquence.

Paramètre	Conditions requises	Recommandée
<b>CPU :</b>	Processeur simple cœur avec prise en charge de SSE2.	Processeur quadrimoteur cœurs ou plus
<b>Carte graphique :</b> (périphérique DirectX uniquement)	Carte graphique grand public compatible DirectX 11.  <b>Remarque :</b> Si un circuit graphique intégré à la carte-mère est utilisé, selon le driver utilisé, il est possible que la qualité d'affichage soit altérée.	Carte graphique DirectX 11 haut de gamme dédiée, processeur AMD ou nVidia
<b>Mémoire graphique :</b> (périphérique DirectX uniquement)	1 Go de VRAM  <b>Remarque :</b> La capacité effectivement requise dépend du nombre de synoptiques appelés et des éléments affichés.	2 Go de VRAM
<b>Driver de carte graphique :</b> (périphérique DirectX uniquement)	Les derniers drivers publiés par le fabricant de la carte graphique.	
<b>Système d'exploitation :</b>	Les options DirectX Hardware et DirectX Software sont uniquement compatibles avec les systèmes d'exploitation prenant en charge DirectX 11.1.  Si le système n'est pas compatible avec DirectX 11.1, le mode Windows Enhanced (Windows optimisé) est sélectionné automatiquement.  Le programme DirectX-Runtime le plus récent doit être installé. Pour zenon, il est installé lors de l'installation du programme. Pour zenon Web Client, il doit être installé manuellement.	

Vous pouvez vérifier la compatibilité matérielle DirectX de la carte graphique et du driver à l'aide de l'outil **dxdiag.exe** du système d'exploitation Windows.

Jusqu'à Windows 7: Contrôlez la valeur **Version DDI** sous l'intitulé **Affichage**. La valeur 11 désigne DirectX 11, par exemple.

À partir de Windows 8 : Toutes les versions prises en charge de DirectX sont présentées dans l'onglet **Affichage**, sous **Niveaux de fonctionnalités**. Par exemple, DirectX 11 est affiché comme 11.0.

## 12.6 Logiciels supplémentaires

### SERVEUR SQL

zenon Editor utilise une base de données SQL. Ce logiciel est également installé lors de l'installation de zenon.

- ▶ Jusqu'à la version 6.20 SP4 : SQL Server 2000 (MSDE)
- ▶ À partir de la version 6.21 : SQL Server 2005 Express
- ▶ À partir de la version 7.00 SP0 SQL Server 2008R2 SP1 Express
- ▶ À partir de la version 7.10 SP0 SQL Server 2012 SP1 Express

#### Attention

*Tenez compte des consignes suivantes lors du changement de version de SQL Server : Les projets doivent être sauvegardés et exportés dans leur version d'origine, puis réimportés dans la nouvelle version.*

#### DONGLE

- ▶ Le logiciel CodeMeter indispensable à la protection par dongle est toujours installé automatiquement.
- ▶ Si WibuKey est requis, ce programme peut être installé depuis le support d'installation.  
Chemin : \AdditionalSoftware\WIBU-SYSTEMS\_WibuKey

## 12.7 Autorisation utilisateur

Des droits d'administrateur Windows sont nécessaires pour l'installation.

Les droits d'utilisateur Windows standard sont requis pour garantir la continuité du fonctionnement. Le contrôle de compte utilisateur (UAC) peut être activé au niveau de sécurité le plus élevé.

## 12.8 Configuration matérielle requise

Les versions PC et CE de zenon possèdent différentes exigences au regard des périphériques requis. Dans ce chapitre, vous trouverez les configurations matérielles requises pour chaque version d'Editor et du Runtime, ainsi que pour le serveur Web de zenon et le client Web de zenon

Editor utilise un serveur Microsoft SQL Server en tant que serveur SQL et possède des exigences matérielles supérieures à celles du Runtime. Si Editor et le Runtime doivent s'exécuter simultanément sur un même système, les exigences matérielles s'ajoutent logiquement.

**⚠️ Attention**

*Il est recommandé d'utiliser une carte graphique dotée d'une mémoire graphique et d'une prise en charge de DirectX indépendantes. Les cartes graphiques utilisant une mémoire partagée peuvent nécessiter une trop grande quantité de mémoire de travail et peuvent donc entraîner une baisse des performances. Tenez compte des indications du chapitre Configuration système requise lors de l'utilisation de DirectX (à la page 35). La configuration recommandée mentionnée dans ce chapitre doit être prise en compte en cas d'utilisation de gestes MultiTouch.*

### 12.8.1 Editor

La configuration minimale requise présentée ci-dessous repose sur une installation complète d'Editor. Pour des gros projets ou plusieurs projets chargés en même temps vous aurez besoin d'une configuration avec plus de capacité La configuration minimale requise peut augmenter en conséquence.

Matériel	Conditions requises	Recommandée
<b>Processeur</b>	Processeur simple cœur avec prise en charge de SSE2.	Processeur quadrimoteur
<b>Mémoire vive (RAM)</b>	plus de 1024 Go.  <b>Remarque :</b> plus le nombre de projets disponibles simultanément en mémoire est élevé, plus la quantité de mémoire disponible doit être importante.	8 GB
<b>Disque dur</b>	Au moins 4 Go d'espace disque pour une installation complète, plus l'espace disque nécessaire aux projets.	
<b>Résolution du moniteur</b>	VGA étendu, 1024 x 768 pixels.	Configuration à double écran : 2 fois 1920 x 1080.
<b>Carte graphique</b>	64 Mo de mémoire dédiée. Les cartes graphiques utilisant une mémoire partagée peuvent entraîner une baisse des performances. Tenez compte des indications du chapitre Configuration système requise lors de l'utilisation de DirectX (à la page 35).	
<b>Périphériques d'entrée</b>	Clavier standard ou souris standard.	
<b>Interface USB ou lecteur DVD</b>	Pour l'installation, indépendamment du support d'installation.  L'installation peut également être effectuée via le réseau. Les fichiers d'installation peuvent également être téléchargés depuis l'espace client du site Web de COPA-DATA.	
<b>Port USB ou parallèle</b>	Nécessaire pour brancher le dongle en cas d'utilisation d'une licence par dongle. En cas d'utilisation d'un dongle réseau, uniquement nécessaire sur le serveur de dongle.	
<b>Connexion réseau (facultative)</b>	Recommandée : 10 Mbit/s avec protocole TCP/IP pour le module Remote Transport, le dongle réseau, les sauvegardes de projets sur un serveur de fichiers central, un éditeur compatible avec les projets multi-utilisateurs etc.	1000 Mbit/s.

**Remarque :** Lors de l'utilisation de projets multi-utilisateurs exhaustifs, tenez compte des informations fournies au chapitre Configuration matérielle requise.

## 12.8.2 Runtime

La configuration minimale requise présentée ci-dessous repose sur une installation complète du Runtime. Pour des gros projets ou plusieurs projets chargés en même temps vous aurez besoin d'une configuration avec plus de capacité La configuration minimale requise peut augmenter en conséquence.

Matériel	Conditions requises	Recommandée
<b>Processeur</b>	Processeur simple cœur avec prise en charge de SSE2.	Processeur quadrimoteur
<b>Mémoire vive (RAM)</b>	Plus de 512 Mo.  <b>Remarque :</b> l'exécution de projets utilisant de grandes quantités de données, de projets en réseau, de plusieurs projets simultanément et de projets en mode redondant nécessitent davantage de mémoire.	4096 Mo.
<b>Disque dur</b>	2 Go d'espace disque pour l'installation du Runtime, ainsi que l'espace nécessaire aux projets.  <b>Attention :</b> Si vous consignez les données historiques (par ex. les données archivées ou les données de la liste d'alarmes ou de la liste d'événements), vous devez disposer de suffisamment d'espace disque ou devez vous assurer, durant le développement du projet, que les données historiques sont évacuées ou supprimées.	
<b>Résolution du moniteur</b>	VGA, 640 x 480 pixels.	
<b>Carte graphique</b>	64 Mo de mémoire dédiée. Les cartes graphiques utilisant une mémoire partagée peuvent entraîner une baisse des performances. Tenez compte des indications du chapitre Configuration système requise lors de l'utilisation de DirectX (à la page 35) à cet égard.	
<b>Périphériques d'entrée</b>	Clavier et/ou souris. Le système peut également être actionné via un écran tactile. De nombreux claviers logiciels personnalisables sont disponibles à cette fin. En outre, le fonctionnement MultiTouch est possible.	
<b>Interface USB (optionnel)</b>	<ul style="list-style-type: none"> <li>▶ Pour l'installation. L'installation peut également être effectuée via le réseau ou depuis un support de stockage.</li> <li>▶ Pour le dongle. Dongle réseau aussi disponible.</li> </ul>	
<b>Connexion réseau (facultative)</b>	64 kbits/s pour les projets client/serveur standard. 100 Mbit/s full duplex pour le fonctionnement en mode redondant.	1000 kbits/s full duplex pour les projets client/serveur standard.
<b>Connexion distante</b>	Configuration minimale requise : modem analogique	1 Mbit/s full duplex.

<b>(facultative)</b>	doté d'un débit de 9600 Bit/s.	
<b>Connexion WAN (optionnel)</b>	Toute connexion via un routeur, par ex. une connexion RNIS ou ADSL ; pour des raisons techniques, les transferts de données via un réseau étendu sont plus lents que les transferts via un réseau local. Assurez-vous de contrôler les taux de transferts de données possibles de votre technologie de réseau étendu lors de la création du projet.	
<b>Message Control (optionnel)</b>	Reportez-vous au chapitre Message Control pour consulter la configuration requise pour ce module.	
<b>Interfaces (optionnel)</b>	Les interfaces requises dépendent des exigences de la connexion à l'automate et/ou au bus ; par exemple, interfaces série RS232 ou RS422/485, emplacements ISA/PCI, etc.	

### 12.8.3 Runtime sous Windows Embedded Standard

La configuration minimale concerne une installation du Runtime adaptée au système d'exploitation Windows Embedded Standard 7 SP1 avec mises à jour de la plate-forme. Le matériel employé doit être plus puissant pour les projets plus importants.

Ce tableau présente uniquement les conditions requises différentes de l'installation standard. Les autres paramètres correspondent aux valeurs indiquées au chapitre Configuration matérielle requise pour le Runtime (à la page 40).

Matériel	Configuration minimale requise	Recommandée
<b>Mémoire vive (RAM)</b>	<ul style="list-style-type: none"> <li>▶ 512 MB.</li> </ul> <p><b>Remarque :</b> l'exécution de projets utilisant de grandes quantités de données, de projets en réseau, de plusieurs projets simultanément et de projets en mode redondant nécessitent davantage de mémoire.</p>	<ul style="list-style-type: none"> <li>▶ 2048 Mo</li> </ul>
<b>Support de stockage</b>	<ul style="list-style-type: none"> <li>▶ 2 Go de mémoire disponible sur le lecteur C:\ avant l'installation de .NET Framework 3.5 et 4.5</li> <li>800 Mo de mémoire disponible après l'installation de .NET Framework</li> <li>▶ Vous avez également besoin d'espace pour les projets, archives, etc.</li> </ul>	<ul style="list-style-type: none"> <li>▶ 80 Go</li> </ul>

**Attention :** Si vous consignez les données historiques (par ex. les données archivées ou les données de la liste d'alarmes ou de la liste d'événements), vous devez disposer de suffisamment d'espace disque ou

devez vous assurer, durant le développement du projet, que les données historiques sont évacuées ou supprimées.

#### 12.8.4 Runtime pour Windows CE

La configuration minimale requise présentée ci-dessous repose sur une installation complète du Runtime sous Windows CE. Le matériel employé doit être plus puissant pour les projets plus importants.

Matériel	Configuration minimale requise	Recommandée
<b>Processeur</b>	Au moins 400 MHz.	1 GHz
<b>Mémoire vive (RAM)</b>	64 MB	1024 Mo pour Windows CE 6.0.
<b>Support de stockage</b>	64 Mo d'espace disque. Support de stockage enregistrable permanent pour les données du projet.	256 Mo d'espace disque ou plus.
<b>Connexion réseau</b>	Pour les projets client/serveur standard : 10 Mbit/s full duplex.	

 **Attention**

*Windows CE n'est plus pris en charge à partir de la version 7.50. zenon CE version 7.20 est installé. Pour l'utiliser, vous devez créer les fichiers de Runtime pour la version 7.20.*

#### 12.8.5 Web Server

La configuration minimale requise présentée ci-dessous repose sur une installation complète du module Web Server. Pour des gros projets ou plusieurs projets chargés en même temps vous aurez besoin d'une configuration avec plus de capacité La configuration minimale requise peut augmenter en conséquence.

Matériel	Conditions requises	Recommandée
<b>Processeur</b>	Processeur simple cœur avec prise en charge de SSE2.	
<b>Mémoire vive (RAM)</b>	Plus de 1024 Mo.	
<b>Disque dur</b>	256 Mo d'espace disque.	1 Go d'espace disque.
<b>Connexion réseau</b>	10 Mbit/s full duplex.	1000 Mbit/s full duplex.
<b>Connexion distante (facultative)</b>	Configuration minimale requise : modem analogique doté d'un débit de 9600 Bit/s.	1 Mbit/s full duplex.

## 12.8.6 Web Client

La configuration minimale requise repose sur une installation complète du client Web de zenon. Pour des gros projets ou plusieurs projets chargés en même temps vous aurez besoin d'une configuration avec plus de capacité La configuration minimale requise peut augmenter en conséquence.

Matériel	Conditions requises	Recommandée
<b>Processeur</b>	Processeur simple cœur avec prise en charge de SSE2.	Processeur quadrimoteur
<b>Mémoire vive (RAM)</b>	Plus de 1024 Mo.	
<b>Disque dur</b>	64 Mo d'espace disque pour l'installation du client Web de zenon, ainsi que l'espace nécessaire aux projets.	80 Go d'espace disque.
<b>Connexion réseau</b>	10 Mbit/s full duplex.	1000 Mbit/s full duplex.
<b>Connexion distante (facultative)</b>	Configuration minimale requise : modem analogique doté d'un débit de 9600 Bit/s.	1 Mbit/s full duplex.
<b>Carte graphique</b>	64 Mo de mémoire dédiée. Les cartes graphiques utilisant une mémoire partagée peuvent entraîner une baisse des performances. Tenez compte des indications du chapitre Configuration système requise lors de l'utilisation de DirectX (à la page 35) à cet égard.	

## 13. Chemins d'installation et de fonctionnement

Chemins de zenon :

- ▶ Installation
- ▶ Editor
- ▶ Runtime

### Informations concernant

Vous pouvez afficher de nombreux chemins par défaut à l'aide de la commande **set** :

- ▶ Démarrez l'interface de ligne de commande (saisissez **cmd** dans le menu Démarrer de Windows)
- ▶ Saisissez la commande **set**
- ▶ Appuyez sur la touche Entrée pour afficher les dossiers standard de Windows et de zenon

**Remarque :** puisque les chemins absous diffèrent selon les systèmes d'exploitation, les chemins sont présentés sous forme de variable d'environnement dans ce chapitre. Par exemple, %ProgramData% au lieu de C:\ProgramData.

## INSTALLATION

Lors de l'installation, les chemins sont définis pour les éléments suivants :

- ▶ zenon Editor
- ▶ Dossier SQL de zenon

Seuls les chemins de zenon Editor et du dossier SQL de zenon peuvent être personnalisés.

Le programme d'installation nécessite également des droits d'administrateur. Cela s'applique également à la modification des chemins d'installation.

## CONFIGURATION MINIMALE REQUISE

Les chemins d'installation des logiciels tierce partie requis correspondent aux chemins standard définis par le fabricant correspondant et ne peuvent pas être modifiés durant l'installation.

Les packages logiciels supplémentaires devant être installés dépendent du type d'installation :

- ▶ zenon Editor
- ▶ zenon Runtime
- ▶ zenon Web Client
- ▶ Runtime de zenon Logic

Conditions préalables	Editor	Runtime	Web Client	Runtime de zenon Logic
<b>Microsoft .NET Framework 3.5 SP1</b>	+	+	-	-
<b>Microsoft .NET Framework 4.0</b>	+	+	-	-
<b>Microsoft Visual C++ 2005 Redistributables</b>	+	+	-	+
<b>Microsoft Visual C++ 2010 Redistributables</b>	+	+	+	+
<b>Microsoft Visual C++ 2012 Redistributables</b>	+	+	+	+
<b>Microsoft Visual C++ 2015 Redistributables</b>	+	+	+	-
<b>Microsoft SQL-Server 2012 SP1 Express (à partir de la version 7.10)</b>	+	-	-	-
<b>VSTA</b>	+	+	-	-
<b>COPA-DATA Multiple Network Protocol Driver x86/x64</b>	+	+	-	+
<b>Logiciel pour dongle CodeMeter x86/x64</b>	+	+	-	-
<b>Report Viewer 10.0 (à partir de la version 7.00)</b>	+	+	+	-
<b>VBA 7.1</b>	+	+	+	-

## ZENON

L'installation de zenon Editor nécessite deux chemins :

► zenon Editor :

- Systèmes 32 bits : %ProgramFiles(x86)%\COPA-DATA\zenon [Version]
- Systèmes 64 bits : %ProgramFiles%\COPA-DATA\zenon [Version]

Ces chemins peuvent être personnalisés durant l'installation.

► Dossier SQL de zenon :

- À partir de la version 7.10 : %ProgramData%\COPA-DATA\SQL2012\

Ces chemins peuvent être personnalisés manuellement par le biais du fichier zenDB.ini.

## ZENON EDITOR

Dans zenon Editor, les chemins suivants sont utilisés par défaut :

Objet	Chemin
Espace de travail	%CD_USERDATA%  Par exemple : C:\Users\Public\Documents\zenon_Projects
Projets	%CD_USERDATA%  Par exemple : C:\Users\Public\Documents\zenon_Projects <b>Raccourci-clavier conseillé</b> : sélectionnez le projet -> Ctrl+Alt+D
Dossier SQL du projet	%ProgramData%\COPA-DATA\[Dossier_SQL]\[UID]\FILES <b>Raccourci-clavier conseillé</b> : sélectionnez le projet -> Ctrl+Alt+E
project.ini	%ProgramData%\COPA-DATA\[Dossier_SQL]\[UID]\FILES\zenon\system
zenon6.ini	%ProgramData%\COPA-DATA\System Par exemple : C:\ProgramData\COPA-DATA\System
Sauvegarde	%ProgramData%\COPA-DATA\[Dossier_SQL]\[UID]\BACKUP %ProgramData%\COPA-DATA\[Dossier_SQL]\[UID]\FILES\[Projects]
Fichiers compilés	%CD_USERDATA%\[Workspace]\[Project]\RT
Fichiers externes	%CD_USERDATA%\[Workspace]\[Project]\RT\FILES\... <b>Remarque :</b> Ces paramètres peuvent être configurés dans le projet, via la propriété de stockage de fichiers.
Fichiers système	Dossier système de Windows.

## ZENON RUNTIME

Dans zenon Editor, les chemins suivants sont utilisés par défaut :

Objet	Chemin
<b>Projets</b>	%CD_USERDATA%\ [Workspace]\ [Project]\RT
<b>Fichiers externes</b>	%CD_USERDATA%\ [Workspace]\ [Project]\RT\FILES\...
<b>Archives exportées, liste d'événements et liste d'alarmes</b>	%CD_USERDATA%\ [Workspace]\ [Project]\Export <b>Remarque :</b> dossier créé lors de la première exportation.
<b>Fichiers système</b>	Dossier système de Windows.

## ZENON LOGIC

Les chemins de zenon Logic sont créés en fonction des chemins de zenon.

# 14. zenon pour Windows CE

## COMPOSANTS

La version CE du Runtime de zenon comprend les composants suivants :

- ▶ Runtime CE de zenon
- ▶ DLL de langue
- ▶ DLL de réseau
- ▶ DLL de driver
- ▶ zenon6.ini
- ▶ Service de transfert.

### Attention

*Windows CE n'est plus pris en charge à partir de la version 7.50. zenon CE version 7.20 est installé.*

*Pour l'utiliser, vous devez compiler le projet pour la version 7.20.*

## ÉLÉMENTS REQUIS POUR L'INSTALLATION DU RUNTIME SUR LES SYSTÈMES DISTANTS

- ▶ Les versions de zenon pour PC et Windows CE, jusqu'à la version zenon 7.20 incluse, doivent posséder le même numéro de version et le même service pack.  
A partir de la version 7.50, zenon CE version 7.20 est installé.
- ▶ Le service de transport (**SysSrvCE.exe**) de zenon doit être installé et démarré sur le terminal CE, ou vous devez disposer d'une connexion ActiveSync. Vous trouverez des conseils relatifs à l'installation manuelle via un support de stockage au chapitre Installation manuelle et mise à jour du Runtime (à la page 60).
- ▶ Le terminal CE vers lequel seront transférées les données doit comporter au moins 8 Mo de "mémoire programme" disponible, afin de garantir le bon transfert des données. Ce paramètre peut être adapté via le Panneau de configuration -> **Propriétés du système**.

## SUITE DES ACTIONS

Vous trouverez plus de détails concernant la compatibilité, l'installation et la mise à jour aux chapitres suivants :

- ▶ Versions CE / processeurs supportés (à la page 51)
- ▶ Mise à jour du Runtime Windows CE (à la page 52)



### Informations

*La licence du Runtime sur Windows CE peut être définie par l'intermédiaire du module Remote Transport. Lorsque vous vous connectez au système cible, vous pouvez entrer le numéro de série et le numéro de licence pour la version CE. Le numéro de série est enregistré sur le terminal CE dans le fichier **zenon6.ini**. Le numéro d'activation est enregistré dans la base de registres de Windows CE.*

### Informations concernant

*Si, au démarrage du programme **zenonrce.exe**, le fichier **syssrvce.exe** est également exécuté, il est possible d'assurer qu'une connexion TCP peut être établie à tout instant. Ainsi, un seul fichier est nécessaire pour la fonction de démarrage automatique. Toutefois, un délai entre les deux démarrages doit être configuré.*

*Raison : Au démarrage de **zenonRCE**, **zenLogSrvCE** démarre également automatiquement. Toutefois, au démarrage de **syssrvce**, **zenLogSrvCE** est également exécuté.*

*Si **zenonRCE** et **syssrvce** sont démarrés dans un intervalle très réduit, tous deux tentent de démarrer **zenLogSrvCE**. Ceci génère un message d'erreur.*

*Solution : Pour éviter ce problème, configurez un délai entre le démarrage de **zenonRCE** et de **zenLogSrvCE**. Pour cela, vous pouvez définir l'entrée **STARTDELAY=** dans le fichier **zenon6.ini**. Le Runtime (**zenLogSrvCE**) est ainsi démarré plus tard. Une vérification est ensuite effectuée pour déterminer si **zenLogSrvCE** est déjà en cours d'exécution, en quel cas, il ne redémarre pas.*

## 14.1 CE - Versions et processeurs pris en charge

Dans la version actuelle de zenon (7.60), les versions de Windows CE et les processeurs suivants sont pris en charge :

- ▶ CE 6.00 pour x86
- ▶ CE 6.00 pour ARM V4/V5



### Informations

*Vous trouverez des informations concernant les versions de CE et les processeurs pris en charge par les versions antérieures de zenon dans la documentation correspondante ; vous pouvez également contacter l'assistance de COPA-DATA.*

## 14.2 Fichiers système

Le Runtime Windows CE a besoin de certains fichiers système. Si un de ces fichiers est manquant, le système affiche un message d'erreur au démarrage du Runtime, indiquant qu'un ou plusieurs composants n'ont pas été trouvés. Les fichiers système suivants sont requis :

Fichier	Description
<b>mfc90u.dll</b>	Nécessaire au Runtime. Au démarrage, un message d'erreur apparaît si ce fichier n'existe pas.
<b>msver90.dll</b>	Nécessaire au Runtime. Au démarrage, un message d'erreur apparaît si ce fichier n'existe pas.
<b>atl90.dll</b>	Non nécessaire pour démarrer le Runtime, mais requis pour utiliser les drivers avec des connexions réseau et pour utiliser zenon sur un réseau. Si ce fichier n'existe pas, la plate-forme ne fonctionnera pas en tant que client ou les connexions de driver TCP/IP ne fonctionneront pas.
<b>IMGDECMPI.dll</b>	Pas nécessaire pour démarrer le Runtime, mais nécessaire pour afficher la transparence si la fonction Alpha Blending n'est pas intégrée au système d'exploitation. L'animation de fichiers GIF n'est pas possible sous Windows CE.
<b>VBSCRIPT.dll + JSCRIPT.dll</b>	Pas nécessaire au démarrage du Runtime. Ce fichier est nécessaire pour PCE (Process Control Engine)

Certains de ces fichiers système sont installés lors de l'installation de zenon pour CE et peuvent être transférés vers le périphérique CE à l'aide de l'outil **UpdateCE**. Tous ces fichiers système devraient être intégrés à l'image du système d'exploitation du périphérique CE par le fabricant.

#### Attention !

*Pour les fournisseurs d'images du système d'exploitation Windows CE :*

*Les versions de CE antérieures à la version 6.0 nécessitent le fichier **toolhelp.dll**. Activez l'option suivante dans **Platform Manager** pour que le fichier soit disponible sur le périphérique CE, et que Toolhelp soit disponible dans l'application SDK.*

*Core OS -> Display Based Device ->Core OS Services -> Debugging Tools -> Toolhelp API. Ainsi, le fichier Toolhelp.dll fait partie de l'image.*

*Conseil : utilisez toujours la dernière version en date du Service Pack du module **Platform Builder**.*

*Remarque : Le fichier **toolhelp.dll** n'est pas nécessaire sous Windows CE 6, et ne doit pas être utilisé avec ce système d'exploitation.*

## 14.3 Mise à jour du Runtime Windows CE

Pour effectuer une mise à jour du Runtime Windows CE :

- ▶ Assurez-vous que le service de transport de zenon (**SysSrvCE.exe**) s'exécute sur le périphérique CE.
- ▶ Assurez-vous de ne pas avoir établi une connexion à distance avec le périphérique via zenon Editor.

- ▶ Dans le menu **Options** de zenon, sélectionnez la commande **Mise à jour du Runtime de Windows CE**.

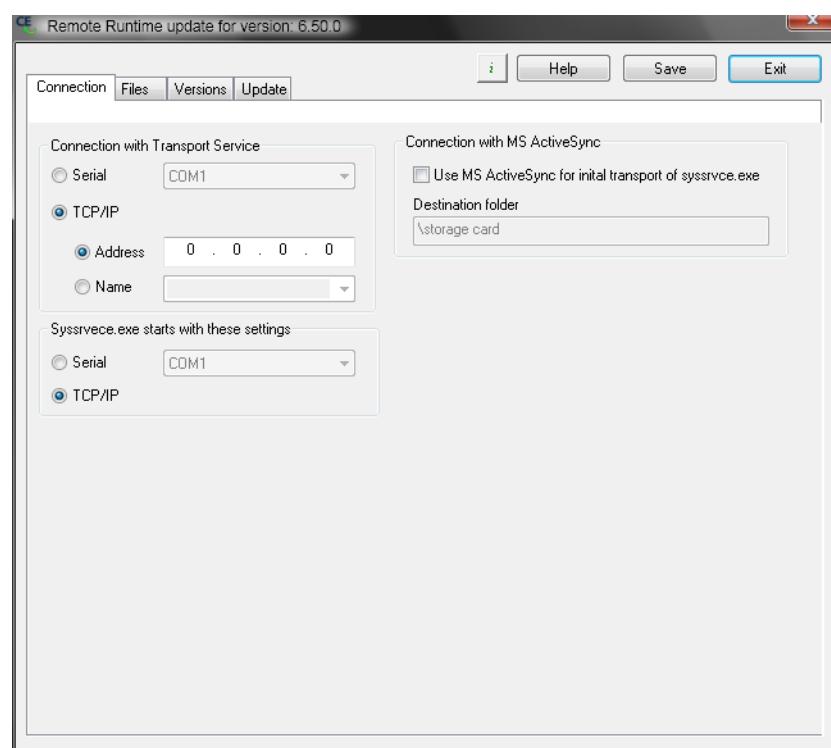
La boîte de dialogue de transfert des fichiers de Runtime s'affiche à l'écran.

- ▶ Configurez la connexion.
- ▶ Définissez les données que vous souhaitez transférer.
- ▶ Sélectionnez la version de votre choix.
- ▶ Démarrez la mise à jour.

**Remarque :** Si vous transférez/installlez le Runtime pour la première fois, notez les informations fournies au chapitre **Installation et mise à jour manuelles du Runtime** (à la page 60). (à la page 60)

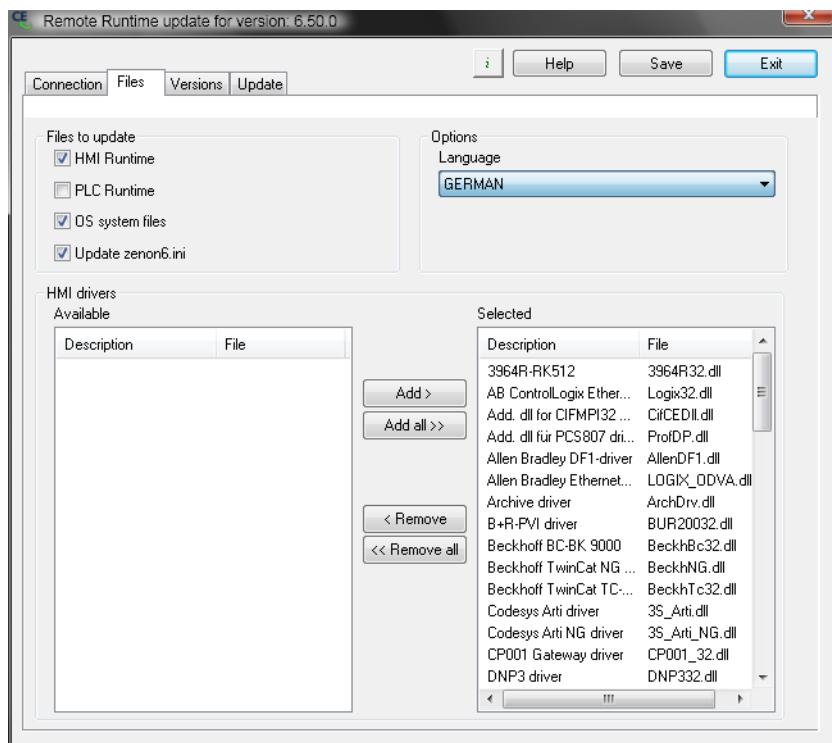
## CONFIGUREZ LA CONNEXION.

Vous pouvez configurer les connexions au périphérique Windows CE dans l'onglet **Connexion**.



Paramètres	Description
<b>Serial</b>	Paramètres de connexion série avec le périphérique Windows CE ; sélectionnez un port.
<b>TCP/IP</b>	Paramètres de connexion TCP/IP au périphérique Windows CE.
<b>Adress</b>	Adresse IP
<b>Name</b>	Nom de l'ordinateur
<b>Syssrvce.exe starts with these settings</b>	Paramètres de démarrage de <b>syssrvce.exe</b> .
<b>Serial</b>	Actif : connexion série sélectionnée ; vous devez sélectionner le port.
<b>TCP/IP</b>	Active : Connexion TCP/IP sélectionnée.
<b>Connection with MS ActiveSync</b>	Paramètres de la connexion via MS ActiveSync
<b>Use MS ActiveSync for initial transport of syssrvce.exe</b>	Actif : syssrvce.exe est transféré durant le premier transport via MS ActiveSync.
<b>Destination folder</b>	Dossier cible.
<b>Help</b>	Ouvre l'aide en ligne
<b>Save</b>	Enregistre toutes les modifications.
<b>Exit</b>	Ferme l'outil UpdateCE et affiche un message vous invitant à enregistrer les modifications non sauvegardées.

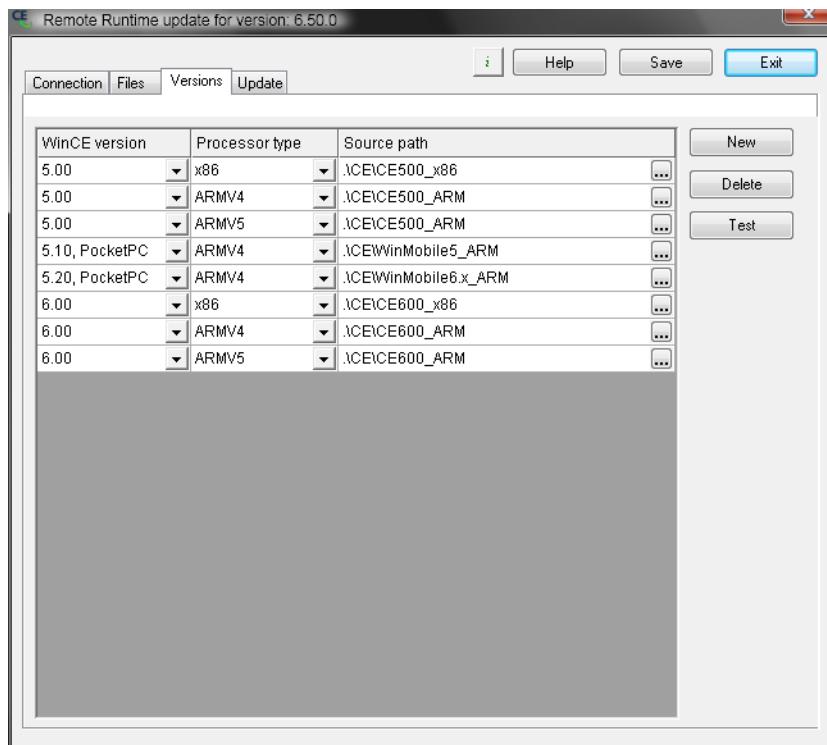
**DÉFINISSEZ LES FICHIERS QUE VOUS SOUHAITEZ TRANSFÉRER.**



Paramètres	Description
<b>Files to update</b>	Fichiers à transférer.
<b>HMI Runtime</b>	Active : Transfère les fichiers zenon vers le périphérique cible. Par défaut : active
<b>PLC Runtime</b>	Active : Transfère les fichiers zenon Logic vers le périphérique cible. Par défaut : Inactive
<b>OS system files</b>	Active : Transfère les fichiers nécessaires au système d'exploitation. Par défaut : active
<b>Update zenon6.ini</b>	Transfère le fichier zenon6.ini vers le terminal cible. Ceci permet également de modifier les informations concernant la licence du périphérique cible.
<b>Options</b>	
<b>Language</b>	Langue du système cible. Par défaut : Anglais
<b>HMI drivers</b>	Sélectionnez les drivers HMI que vous souhaitez transférer.
<b>Available</b>	Liste de drivers disponibles.
<b>Selected</b>	Liste des drivers sélectionnés.
<b>Add</b>	Ajoute les drivers choisis à la liste des drivers sélectionnés.
<b>Add all</b>	Ajoute tous les drivers à la liste des drivers sélectionnés.
<b>Remove</b>	Supprime les drivers sélectionnés de la liste des drivers sélectionnés.
<b>Remove all</b>	Supprime tous les drivers de la liste des drivers sélectionnés.
<b>Help</b>	Ouvre l'aide en ligne
<b>Save</b>	Enregistre toutes les modifications.
<b>Exit</b>	Ferme l'outil UpdateCE et affiche un message vous invitant à enregistrer les modifications non sauvegardées.

## SÉLECTIONNEZ LA VERSION

Sélectionnez la version adéquate dans l'onglet **Versions**, si celle-ci n'a pas été automatiquement reconnue.

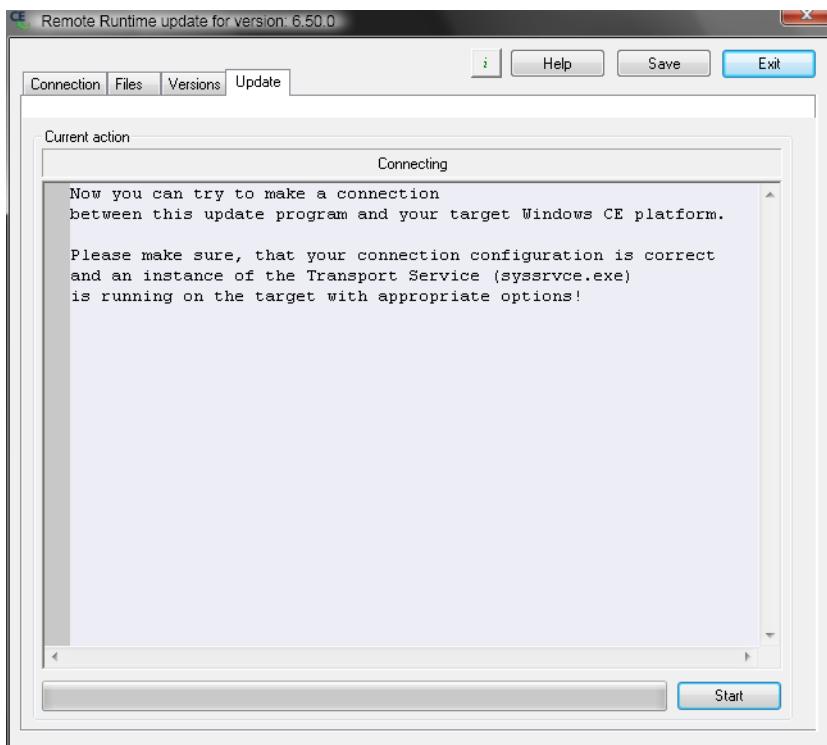


Paramètres	Description
<b>WinCE version</b>	Version du système d'exploitation Windows CE installé sur le périphérique cible. Cliquez sur le type de fonction pour ouvrir une liste déroulante de sélection.
<b>Processor type</b>	Processeur de l'équipement.
<b>Source path</b>	Chemin du dossier contenant les fichiers. Cliquez sur le bouton ... pour ouvrir une boîte de dialogue permettant de sélectionner un dossier.
<b>New</b>	Insère une nouvelle entrée vide dans la liste.
<b>Delete</b>	Supprime l'entrée sélectionnée de la liste.
<b>Test</b>	Contrôle les paramètres.
<b>Help</b>	Ouvre l'aide en ligne
<b>Save</b>	Enregistre toutes les modifications.
<b>Exit</b>	Ferme l'outil UpdateCE et affiche un message vous invitant à enregistrer les modifications non sauvegardées.

## DÉMARRER LA MISE À JOUR

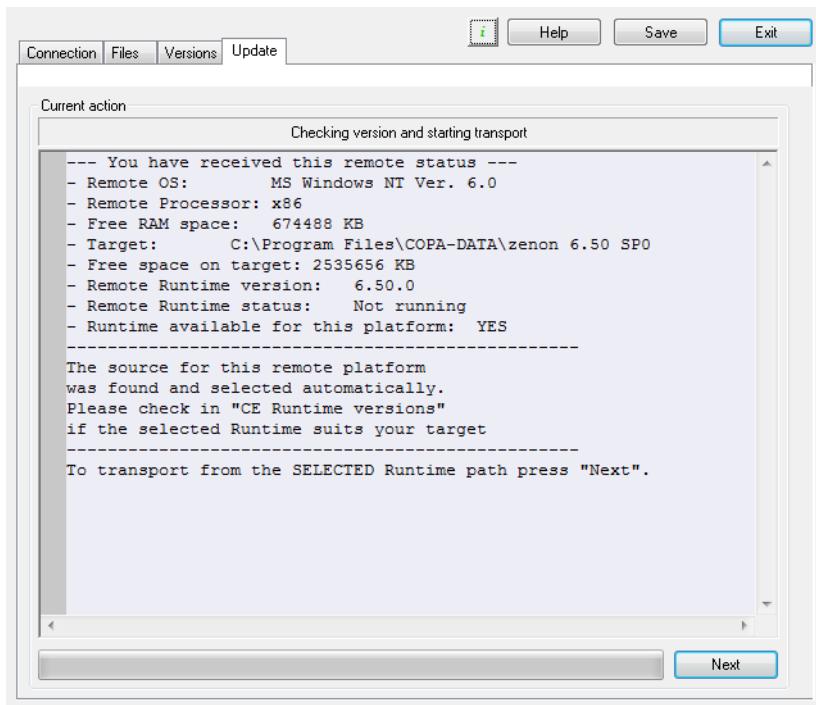
Pour établir une connexion :

1. Cliquez sur le bouton **Démarrer** de l'onglet **Mise à jour**.



Les données transférées sont contrôlées et affichées dans une fenêtre.

2. Démarrez le transfert vers le périphérique cible en cliquant sur le bouton **Suivant**.



Si le transfert ne peut pas démarrer parce que certains fichiers sont manquants, un message d'erreur contenant la liste des fichiers manquants s'affiche à l'écran :



Si vous voyez s'afficher le message d'erreur **La mise à jour actuelle n'a pas été terminée**, la mise à jour a été interrompue ou n'a pas été exécutée correctement.



### Informations

*Si vous souhaitez remplacer zenVNCServer.exe par le biais d'une mise à jour, le programme se ferme, puis redémarre après la mise à jour. Pour cela, le fichier zenVNCsrvCE.exe doit contenir*

*l'entrée suivant dans le fichier UpdateCE.ini, à la section [SOURCES\_FILES\_GENERAL] (existe par défaut) :*

- ▶ zenVNCsrvCE.exe
- ▶ zenVNCCfgCE.exe

## 14.4 Installation et mise à jour manuelles du Runtime

L'installation et la mise à jour sont également possibles sans les services Remote Transport et ActiveSync. Dans ce cas, vous devez copier les fichiers requis manuellement sur une carte de stockage destinée au périphérique CE. Vous devez connaître la version de CE et le type de processeur utilisés.

Il est impératif de copier les fichiers suivants du dossier correspondant à la plate-forme utilisée vers une carte de stockage destinée au périphérique CE :

- ▶ **zenonRCE.exe** (Runtime)
- ▶ **LogCliLibCE.dll** (DLL de diagnostic)
- ▶ **zenon6.ini** (Fichier de configuration)
- ▶ **Cd\_tooCE.dll** (DLL d'aide)
- ▶ **ZenNetSrvCE.dll** (Réseau)
- ▶ **CDHelper.dll** (DLL d'aide)
- ▶ L'une des dll de langue suivante : **RChineCE.dll**, **RCzechCE.dll**, **REngliCE.dll**, **RFrancCE.dll**, **RGermaCE.dll**, **RItaliCE.dll**, **RRussiCE.dll**, **RSpaniCE.dll** (la langue sélectionnée est stipulée dans le fichier **zenon6.ini**).
- ▶ **syssrvce.exe** (service de transport et Diagnosis Server)
- ▶ **atl90.dll** (fichier système, peut former partie du système d'exploitation)
- ▶ **mfc90u.dll** (fichier système, peut former partie du système d'exploitation)
- ▶ **msvcr90.dll** (fichier système, peut former partie du système d'exploitation)

Les autres fichiers, par exemple les drivers ou le logiciel Remote Desktop (**zenVNCCfgCE.exe** et **zenVNCsrvCE.exe**), sont facultatifs.

## 14.5 Pocket PC (PDA, Pocket PC)

Les systèmes Pocket PC ne sont plus pris en charge à partir de la version 7.

## 14.6 Traitement des erreurs

### Erreurs possibles :

Erreur	Solution possible
Erreur de connexion durant la mise à jour via l'interface COM.	Les délais d'accès sont plus longs lorsque l'Explorateur Windows est ouvert. Fermer l'Explorateur permet de remédier au problème.
Le service de transport ne fonctionne pas.	Contrôlez la version du service de transport. Au moins : Version 5.21 SP3 ou ultérieure, ou version 5.50 SP1 ou ultérieure.
Le programme de mise à jour du Runtime ne peut pas établir une connexion.	Fermez les connexions ouvertes d'Editor avec le service de transport CE.

## 15. Runtime zenon Logic pour Windows CE

L'installation du Runtime zenon Logic (Runtime d'automate) sur un système CE se déroule de manière semblable à l'installation du Runtime sous Windows CE (à la page 49).

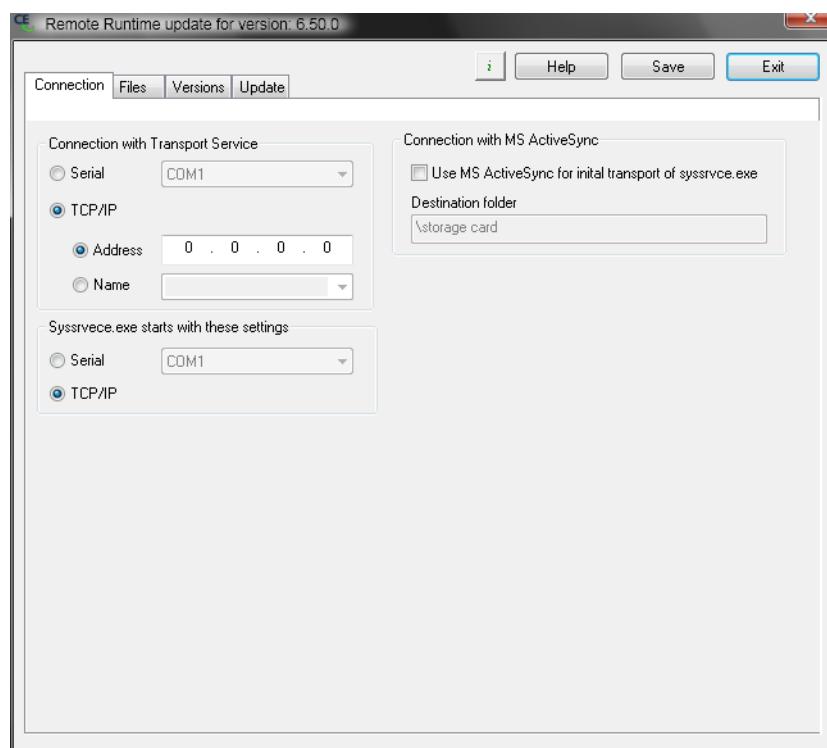
Éléments requis : service de transport exécutable sous CE.

La version CE du Runtime zenon Logic comprend les composants suivants :

- ▶ Runtime de zenon Logic
- ▶ DLL de langue
- ▶ Driver I/O de zenon Logic
- ▶ zenon6.ini

### INSTALLATION

- ▶ Dans le menu de zenon, sélectionnez **Options/Mise à jour du Runtime Windows CE**. La boîte de dialogue de transfert des fichiers de Runtime s'affiche à l'écran.
- ▶ Cochez la case PLC Runtime (Runtime de l'automate) dans la fenêtre Fichier pour copier les fichiers nécessaires à zenon Logic vers le répertoire d'exécution de CE.
- ▶ Basculez vers l'onglet Connexion.



- ▶ Définissez la connexion au périphérique Windows CE. Saisissez l'adresse IP ou le port série.
- ▶ Si zenon6.ini doit également être transféré, choisissez d'actualiser zenon6.ini. Ceci permet également de modifier les informations concernant la licence du périphérique cible.
- ▶ Sélectionnez la version adéquate parmi les versions du Runtime Windows CE , si celui-ci n'a pas été automatiquement reconnu.

## MISE À JOUR

Pour cette procédure, reportez-vous au chapitre Mise à jour du Runtime Windows CE (à la page 52).

Attention : Vous devez activer l'option PLC Runtime (Runtime de l'automate) dans l'onglet Fichiers !



### Informations

*Les fichiers MFC sont toujours transférés à l'aide de Windows CE 6.0.*

## 16. zenon Web Server

Um den **zenon Web Server** oder **zenon Web Server Pro** zu installieren:

1. Aktivieren Sie die WWW-Dienste auf dem Rechner.  
Der Ordner C:\inetpub\wwwroot muss existieren.
2. Starten Sie das zenon Installationsmedium. Der Startbildschirm wird angezeigt.  
Falls Sie Autostart von Medien deaktiviert haben, führen Sie die Datei **start.exe** auf dem Installationsmedium aus.
3. Wählen Sie zenon Web Server aus.  
Entsprechend der Version des Betriebssystems wird automatisch die 32-Bit oder 64-Bit Version des zenon Web Servers installiert.
4. Folgen Sie der Installationsroutine.
5. Starten Sie den Computer neu.

Die Setup-Dateien für den Web Client finden Sie nach der Installation in Unterverzeichnissen des zenon Web Server-Installationspfades (xxx steht für die jeweilige Version von zenon), z. B.: C:/Programme (x86)/COPA-DATA/zenonWebserver/zenon/controlversions/Versionxxx/zenon\_Webclient\_Setup\_GERMAN.EXE  
oder

C:/Inetpub/wwwroot/zenon/controlversions/Versionxxx/zenon\_Webclient\_Setup\_GERMAN.EXE

Es werden auch die Beispiel-Webseiten (index\*.html und init\*.html) mitinstalliert. Diese sind im Unterverzeichnis zenon des zenon Web Server-Installationspfades zu finden, z. B.:  
 C:/Programme/zenonWebserver/zenon/index.htm  
 oder  
 C:/Inetpub/wwwroot/zenon/index.html



### Informations

*Der Dienst für den **zenon Web Server** wird nur in der lizenzierten Version automatisch gestartet. Im Demo-Modus muss der zenon Web Server manuell über die zenon Web Server-Konsole in den Systemeigenschaften gestartet werden.*

## INFORMATIONS SUPPLÉMENTAIRES

Vous trouverez d'autres détails concernant zenon Web Server dans le manuel zenon Web Server and Web Server Pro et des détails concernant la gestion des licences dans le manuel Gestion des licences.

## 17. zenon Web Client

Le **zenon Web Client** est principalement un contrôle ActiveX qui affiche l'information dans un navigateur web. L'affichage est identique à celui d'un **zenon Runtime Client** normal. La connexion au **serveur de Runtime** est mise en œuvre à l'aide du **zenon Web Server** via des communications TCP/IP.

Une fois l'installation terminée, vous trouverez les fichiers d'installation du client Web de zenon dans les sous-dossiers du répertoire d'installation du serveur Web de zenon (xxx désigne la version correspondante de zenon), par exemple : %Programfiles%/COPA-DATA/zenon Web Server/zenon/controlversions/Versionxxx/zenon\_Webclient\_Setup\_GERMAN.EXE  
 or

C:/Inetpub/wwwroot/zenon/controlversions/Versionxxx/zenon\_Webclient\_Setup\_ENGLISH.EXE

Toutes les installations du client Web de zenon Logic disposent d'une signature numérique et peuvent également être mises à disposition en téléchargement sur Internet.



### Info

*Le client Web de zenon transmet des fichiers d'erreur et des fichiers journaux. Le Diagnosis Server nécessaire est également installé lors de l'installation du client Web de zenon.*

## 18. Mises à jour (installations de versions)

### MISE À JOUR (INSTALLATION DE VERSION)

Une mise à jour est installée par-dessus l'installation existante ; elle remplace uniquement les fichiers modifiés dans la nouvelle version. Tous les projets et paramètres individuels restent inchangés. Veuillez noter que la qualité des installations de versions n'est jamais garantie à 100 %. Seuls les correctifs sont testés. Si des effets collatéraux indésirables se produisent suite à l'installation d'un correctif, il arrive parfois que ces "effets secondaires" ne soient pas visibles durant les tests. COPA-DATA préconise donc toujours l'utilisation de Service Pack. Ces correctifs sont soumis à un processus d'assurance-qualité rigoureux.

#### Remarque :

- ▶ Les versions peuvent aussi être installées localement. Installation impossible sur des chemins de réseau (UNC).
- ▶ zenon Web Client : Pour installer une mise à jour du client Web de zenon, vous devez préalablement désinstaller le client web dezenon.

### INSTALLATION D'UNE NOUVELLE VERSION

Si vous souhaitez installer une nouvelle version de zenon, démarrez la procédure d'installation. La nouvelle version sera installée parallèlement à l'ancienne version. Tous les projets et paramètres individuels restent inchangés. Les projets ne sont pas convertis au format de la nouvelle version durant l'installation. Les différents projets sont convertis lors de leur première ouverture dans Editor. Une boîte de dialogue vous informe au sujet de cette procédure. L'ancienne version est automatiquement sauvegardée. Si vous souhaitez uniquement utiliser la dernière version en date, utilisez l'outil Ajout/suppression de programmes du Panneau de configuration de Windows pour supprimer l'ancienne version.

#### Attention

*Si une installation implique la modification de SQL Server (par exemple, mise à jour de zenon 7.00 vers zenon 7.10), vous devez sauvegarder tous les projets ou l'espace de travail avant de procéder à l'installation. Cette sauvegarde est lue après l'installation. Pour plus de détails, reportez-vous également à la section **Projets multi-utilisateurs/Mise à jour avec modification du serveur SQL**.*

Si vous souhaitez utiliser plusieurs versions de zenon simultanément, vous devez gérer ces dernières à l'aide de l'outil **Startup Tool**. Vous ne pouvez démarrer qu'une version à la fois. Vous pouvez sélectionner la version que vous souhaitez exécuter en utilisant l'outil **Startup Tool**, qui ajuste automatiquement tous les paramètres nécessaires. Vous trouvez plus de détails au chapitre **Startup Tool**.



## Informations

*Les nouvelles versions comportent toujours des modifications structurelles. Les projets et paramètres restent inchangés durant l'installation. Si vous ouvrez Editor pour la première fois, les projets sont convertis pour la nouvelle version. Parallèlement à cela, une sauvegarde automatique de l'ancienne version est créée.*

*Les projets convertis ne peuvent pas être modifiés dans les anciennes versions. À compter de la version 6.2, Editor permet de créer des projets adaptés aux différentes versions du Runtime.*

*Vous trouverez des conseils importants concernant la conversion de projets dans le texte de révision. Celui-ci est disponible en ligne et sur le support d'installation.*

## PROJETS MULTI-UTILISATEURS

Pour garantir que l'évolution vers une nouvelle version de zenon se déroule sans perte de données dans un projet multi-utilisateurs :

1. Activez tous les éléments désactivés en sélectionnant Clients -> Accepter les modifications.  
Aucun élément ne doit être désactivé. Ceci s'applique pour tous les projets.
2. Installez la nouvelle version de zenon sur le serveur.
3. Convertissez tous les projets de serveur dans la nouvelle version ; pour cela, chargez tous les projets dans Editor sur l'ordinateur du serveur.
4. Installez la nouvelle version de zenon sur l'ordinateur du client.
5. Chargez les projets sur le client, puis désactivez-les.

## MISE À JOUR AVEC MODIFICATION DU SERVEUR SQL

Si une installation nécessite de modifier le serveur SQL (par exemple, mise à jour de zenon 7.00 vers zenon 7.60), des étapes supplémentaires sont requises. Ces étapes sont effectuées :

- ▶ Après l'activation de tous les projets
- ▶ Avant l'installation de la nouvelle version

Procédure lors de la modification du serveur SQL :

1. Activez tous les éléments désactivés en sélectionnant Clients -> Accepter les modifications.
2. Sur le serveur du projet multi-utilisateurs, ouvrez Editor dans la version de départ.
3. Créez des sauvegardes de tous les projets que vous souhaitez modifier ou ouvrir avec la nouvelle version
  - Soit sous forme de sauvegardes de projet uniques

- Soit sous forme de sauvegarde de l'espace de travail complet
4. Installez la nouvelle version sur le serveur
  5. Convertissez tous les projets du serveur dans la nouvelle version en chargeant les sauvegardes de projet précédemment créées dans Editor
  6. Installez la mise à jour sur tous les clients
  7. Transférez les projets provenant du serveur multi-utilisateurs vers les clients (tenez compte du nouveau nom de l'instance SQL)
  8. Les projets sont convertis, synchronisés et prêts à être utilisés

**Attention :** Assurez-vous que les paramètres du pare-feu autorisent le trafic des données circulant entre le serveur de projets multi-utilisateurs et les clients.

## 19. FAQ

Les erreurs durant l'installation se produisent principalement lorsqu'un logiciel antivirus ou une installation existante empêche le remplacement ou la création de fichiers. Vous trouverez ici les causes les plus fréquentes d'erreurs d'installation et leur solution.

### ZENON

Problème	Solution
L'installation est interrompue.  Message d'erreur habituel : <b>Erreur 1304. Erreur d'écriture du fichier...</b>	Désactivez le logiciel antivirus. Fermez les programmes inutiles.
Des projets de démonstration ont été installés, mais il est impossible de les afficher. De nouveaux projets ne peuvent pas être créés.	Contrôlez le nom de l'ordinateur. L'ordinateur : <ul style="list-style-type: none"> <li>▶ Ne doit pas comporter plus de 15 caractères</li> <li>▶ Doit être conforme aux conventions de dénomination d'ordinateurs de NetBIOS</li> </ul>
<i>Message d'erreur indiquant qu'un service ne peut pas être démarré.</i>	<ul style="list-style-type: none"> <li>▶ Redémarrez d'abord l'ordinateur</li> <li>▶ Ensuite, redémarrez le programme d'installation de zenon</li> </ul>

## SERVEUR SQL

### GÉNÉRAL

Problème	Solution
L'installation a échoué, car le mot de passe n'est pas conforme aux critères.	Si la longueur minimale du mot de passe est modifiée de 8 (valeur par défaut) en une valeur supérieure à 10 par l'intermédiaire de la directive de sécurité locale de Windows, l'installation de SQL Server échouera, car le mot de passe SQL de zenon comprend 10 caractères.

## 20. Support technique

### NIVEAU D'ASSISTANCE BASIC

Si vous avez besoin d'assistance durant l'installation, le personnel de notre service d'assistance technique sera ravi de vous aider.

Les utilisateurs bénéficiant du niveau d'assistance Basic peuvent contacter le service d'assistance à l'adresse e-mail suivante : support@copadata.com.

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- ▶ For zenVNCsrv.exe, zenVNCsrvCE.exe and zenVNCCli.exe:  
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- ▶ For MsgCtrlVoip.dll:  
GNU LESSER GENERAL PUBLIC LICENSE Version 3 applies
- ▶ For Ude.dll:  
MOZILLA PUBLIC LICENSE Version 1.1 applies
- ▶ For TestOCCReader.dll  
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The source code for the above mentioned software components can always be requested, free of charge, at this contact address:

Ing. Punzenberger COPA-DATA GmbH  
 Karolingerstrasse 7b  
 A-5020 Salzburg  
 Austria  
 Tel: +43 / 662 / 43 10 02 - 0  
 Fax: +43 / 662 / 43 10 02 - 33  
 Email: sales@copadata.com  
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Version 1.1

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## 22.5 Bootstrap, jQuery UI, jQuery, Newtonsoft.Json

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## 22.13 PortAudio

Based on the Open Source API proposed by Ross Bencina

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## 22.25 Mono.AddIns 1.3

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