Tutti i diritti riservati.

La distribuzione e la copia di questo documento - indifferentemente dal metodo usato - può essere consentita esclusivamente con permesso scritto della ditta COPA-DATA. I dati tecnici servono solo alla descrizione del prodotto e non rappresentano in alcun modo caratteristiche garantite in senso legale. Con riserva di modifiche - anche di tipo tecnico.
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1. Benvenuti nell'help di COPA-DATA

VIDEO TUTORIAL DI ZENON

Nel nostro canale YouTube (https://www.copadata.com/tutorial_menu) si trovano esempi pratici di progettazione con zenon. I tutorial sono raggruppati per tema e forniscono una panoramica di come si lavora con i diversi moduli di zenon. Tutti i tutorial sono disponibili in lingua inglese.

GUIDA GENERALE

Se non avete trovato le informazioni che cercavate o se avete dei consigli relativi al completamento di questo capitolo dell'help, potete scrivere una E-Mail all'indirizzo documentation@copadata.com (mailto:documentation@copadata.com).

SUPPORTO ALLA PROGETTAZIONE

Se avete domande che riguardano progetti concreti, potete rivolgervi via E-Mail all'indirizzo support@copadata.com (mailto:support@copadata.com).

LICENZE E MODULI

Se avete bisogno di nuovi moduli o licenze, potete rivolgervi ai nostri collaboratori all'indirizzo sales@copadata.com (mailto:sales@copadata.com).

2. Installazione e update

Note sull´installazione:

- Prima dell´installazione di zenon:
  - Si dovrebbero installare gli update attuali del sistema operativo.
    Nota: Se usate sempre la versione più attuale (Service Pack) del vostro sistema operativo, evitate i problemi di compatibilità e le lacune nel sistema di sicurezza.
  - Non ci deve essere nessun riavvio in sospeso.
- Durante l´installazione di zenon, viene installato il **COPA-DATA Multiple Network Protocol Driver (cdprotdrv.sys)**. Per avviare il driver, si deve riavviare il sistema operativo dopo la fine del processo di installazione.

⚠️ **Attenzione**

A partire dalla versione 7.10, zenon non può essere installato su sistemi su quali è già installato **Microsoft SQL Server Data Engine (MSDE)**. Ciò riguarda tutti i sistemi su cui sono installati zenon 6.01 oppure 6.20.

💡 **Info**

Se durante l´installazione viene visualizzato un messaggio di errore nel quale si dice che non è stato possibile avviare un servizio, allora:

- riavviate il computer.
- riavviate poi il setup di zenon

3. **zenon: installazione standard**

zenon avvia automaticamente la sua routine di installazione non appena si collega il supporto di installazione di zenon; il sistema vi guida poi nell´effettuazione dell´intero processo di installazione. In alternativa, è possibile avviare l´installazione eseguendo il file **START.exe** nella root directory del supporto di installazione di zenon.
Per effettuare il processo di installazione è necessario disporre di diritti di amministratore!

⚠️ **Attenzione**

*Se necessario, il sistema riavvia il computer automaticamente durante il processo di installazione. Prima di iniziare l’installazione, chiudete tutti gli altri programmi.*

### 3.1 Schermata Start

Nella schermata iniziale vedrete la versione da installare, incluso il numero di build.

1. **Selezionate nel menù a tendina che si trova in alto a sinistra la lingua desiderata per l’installazione.**
   
   Sono disponibili le seguenti lingue:
   
   - Tedesco
   - Inglese
   - Francese
2. Potete avere delle informazioni su zenon cliccando sul pulsante desiderato:

- Apre un’animazione contenente informazioni attuali sulla versione di zenon.
- Apre la guida di zenon che potrà essere installata come PDF.
- Apre la guida Quick-Start in formato PDF con consigli per i primi passi della progettazione con zenon.

**Attenzione:** questa pagina non può più essere visualizzata in un secondo momento. Se avete bisogno di informazioni sulla versione attuale, oppure della guida per l’installazione, aprite questa pagina adesso.

3. Cliccando sul pulsante **Avanti** aprite la finestra che contiene le condizioni concernenti le licenze.

4. Confermate le condizioni di licenza attivando il checkbox corrispondente.

5. Cliccando sul pulsante **Stampa**, potete anche stampare le condizioni di licenza.

6. Cliccando sul pulsante **Avanti**, aprite la finestra per selezionare il prodotto desiderato.

**Nota:** il pulsante Avanti è disponibile solamente se avete accettato le condizioni del contratto di licenza cliccando sul campo opzione.
3.2 zenon: installazione standard

Selezionate il prodotto desiderato. Si possono selezionare solamente i prodotti che non sono ancora installati. Se desiderate installare nuovamente qualcosa, dovete anzitutto disinstallare il prodotto precedentemente installato; a tale scopo usate il Pannello di controllo.

- **zenon Editor**: Installa l’Editor di zenon e il Runtime di zenon. Le altre componenti richieste per l’Editor vengono installate automaticamente.

- **zenon Runtime**: Installa solamente il Runtime di zenon.

- **zenon Web Server**: Installa il Webserver di zenon e i corrispondenti Web Client attuali di zenon.

- **zenon Web Client**: Installa solamente zenon Web Client.
3.3 **Selezione dell’edizione - Tipo di installazione (installazione definita dall’utente)**

Cliccando sul prodotto desiderato, apriete la finestra che serve a selezionare l’edizione.

1. Selezionate la versione per la quale disponete di una licenza:
   - zenon Supervisor Edition
   - zenon Energy Edition
   - zenon Pharma Edition
- zenon Operator Edition

Supervisor Edition
Il sistema SCADA indipendente da piattaforma, rende professionale la completa visualizzazione e il controllo di impianti di grandi dimensioni e consente l’ottimizzazione di processi di produzione. La grande velocità di driver di comunicazione offre una connettività eccezionale.

Energy Edition
La soluzione SCADA per l’automazione di sottostazioni e il controllo delle reti. E’ garantita la conformità con gli standard internazionali come IEC 61850, IEC 60870, IEC 61400-25 e IEC 61800-7-3. Altri punti salienti sono: la costituzione topografica, la segnalazione errori, la gestione di comandi sicuri etc.

Pharma Edition
La soluzione SCADA specifica per progetti di automazione nell’industria farmaceutica. Sviluppata sulla base del modello di validazione cGMP 5, soddisfa tutte le richieste per una produzione automatizzata sicura e completamente documentata.

Operator Edition
Il sistema idoneo per tutti i sistemi operativi Windows, specializzato per macchine semplici ed ergonomiche e nel controllo di impianti. Con il suo funzionamento chiaro e intuitivo, Operator è orientato a soddisfare i moderni standard di ergonomia ed usabilità.
2. Cliccando sull’edizione desiderata, aprire la finestra che serve a selezionare il tipo di installazione.

- **Installazione ora:**
  - Avvia l’installazione dell’edizione selezionata.
  - È possibile che il computer venga riavviato dal sistema durante il processo di installazione.
  - Seguire le istruzioni del Wizard

- **Definito dall’utente:**
  - Apre altre finestre che servono ad effettuare un’installazione individuale.
  - Potete digitare qui un numero di serie già esistente e cambiare il percorso di installazione.
INSTALLAZIONE DEFINITA DALL’UTENTE

1. Se, al momento di effettuare l’installazione, scegliete l’opzione **Definito da utente**, si apre la finestra che serve ad inserire il numero di serie:

   - Selezionate l’opzione **Versione demo**, se non disponete di nessuna licenza.
   - Se disponete già di una licenza, digitate il numero di serie e quello di attivazione. **Nota**: il sistema verifica la validità del numero di serie. Se la licenza è valida, appare una spunta di color verde accanto al campo di inserimento.
2. Cliccando sul pulsante **Avanti** apri la finestra che serve a definire la cartella di installazione:

- Se necessario, definire la vostra cartella individuale per la versione a 32-bit e quella a 64-bit del programma.
  Per far ciò, cliccate sul pulsante **Cambia...**
- Definite la cartella di destinazione per la banca dati del progetto.
  **Attenzione:** Questa cartella non può essere modificata in seguito. Il luogo di salvataggio scelto in questa sede deve disporre di uno spazio di memoria sufficiente. Tutti gli utenti hanno bisogno di diritti di scrittura.
- Se volete installare anche il progetto demo, attivate il checkbox corrispondente.
  Il progetto demo fornisce degli esempi di possibili forme di uso in diversi settori industriali.

3. Cliccate sul pulsante **Installa**
Viene avviato il processo di installazione dell’edizione scelta.
È possibile che il computer venga riavviato dal sistema durante il processo di installazione.
Seguite le istruzioni del Wizard
3.4 Installazione e completamento

La barra di stato vi informa sullo stato di avanzamento del processo di installazione e su quale passo dello stesso viene eseguito al momento.

- Cliccando sul pulsante **Annulla** potete interrompere l’installazione. Il sistema vi chiede di confermare la vostra intenzione prima di procedere ad annullare effettivamente il processo di installazione.
### Parametro e Descrizione

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sì</strong></td>
<td>L’installazione viene interrotta. Viene visualizzata una finestra di dialogo in cui si informa che l’installazione non è stata portata a termine con successo.</td>
</tr>
<tr>
<td><strong>No</strong></td>
<td>Il processo di installazione prosegue.</td>
</tr>
</tbody>
</table>

Il processo di installazione può durare un po’ di tempo. Non spegnete il vostro computer durante questo tempo. Assicuratevi anche del fatto che il vostro computer non passi automaticamente in sleep mode (modalità sospensione).

**COMPLETAMENTO**

Una finestra di dialogo informa che il processo di installazione è riuscito.

- Cliccate sul pulsante **Termina** per completare l’installazione.
- Riavviare il setup per installare altri prodotti, come, ad esempio, **zenon Web Server**.
Installazione e disinstallazione silenziosa

Se si verifica un errore nella fase di installazione del programma, oppure se la stessa è stata interrotta, viene visualizzata una finestra di dialogo che ne informa l’utente.

Cliccare sul pulsante **Termina** per chiudere il setup.

### 4. Installazione e disinstallazione silenziosa

Si può installare e disinstallare zenon anche in modalità non visibile all’utente (si parla rispettivamente di Silent Installation e di Silent Remove).

**Info**

Un’installazione e disinstallazione silenziosa è possibile per tutte le versioni di zenon a partire dalla 7.10.
## Installazione e disinstallazione silenziosa

**INSTALLAZIONE SILENZIOSA A PARTIRE DA ZENON 7.20**


<table>
<thead>
<tr>
<th>Parametro</th>
<th>Argomenti</th>
<th>Descrizione</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>scada.exe</code></td>
<td></td>
<td>Inizializzazione dell’installazione.</td>
</tr>
<tr>
<td><code>/silent</code></td>
<td></td>
<td>Installazione silenziosa.</td>
</tr>
<tr>
<td></td>
<td><code>1033</code>: Inglese</td>
<td>Esempio inglese: <code>language:1033</code></td>
</tr>
<tr>
<td></td>
<td><code>1034</code>: Spagnolo</td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>1036</code>: Francese</td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>1040</code>: Italiano</td>
<td></td>
</tr>
<tr>
<td><code>CDPROP_EDITION=</code></td>
<td><code>ENERGY</code></td>
<td>Selezione della Edition.</td>
</tr>
<tr>
<td></td>
<td><code>SUPERVISOR</code></td>
<td>Esempio Energy Edition: <code>CDPROP_EDITION=ENERGY</code></td>
</tr>
<tr>
<td></td>
<td><code>OPERATOR</code></td>
<td>Non necessario per zeron Web Server e zeron Web Client.</td>
</tr>
<tr>
<td></td>
<td><code>PHARMA</code></td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>SCIENCE</code></td>
<td></td>
</tr>
<tr>
<td><code>CDPROP_TYPE=</code></td>
<td><code>ED</code>: Editor e Runtime</td>
<td>Selezione di Editor o Runtime.</td>
</tr>
<tr>
<td></td>
<td><code>RT</code>: Runtime</td>
<td>Esempio Runtime: <code>CDPROP_TYPE=RT</code></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non necessario per zeron Web Server e zeron Web Client.</td>
</tr>
<tr>
<td><code>ISFeatureInstall=</code></td>
<td><code>PREREQUISITES_EDITOR,SCADA</code>: Editor</td>
<td>Selezione della funzionalità da installare.</td>
</tr>
<tr>
<td></td>
<td><code>PREREQUISITES_RUNTIME,SCADA</code>: Runtime</td>
<td>Esempio zeron Editor: <code>ISFeatureInstall=PREREQUISITES_EDITOR,SCADA</code></td>
</tr>
<tr>
<td></td>
<td><code>PREREQUISITES_WEBSERVER,WEBSERVER</code>: Web Server</td>
<td></td>
</tr>
<tr>
<td></td>
<td><code>PREREQUISITES_WEBCLIENT,WEBClient</code>: Web Client</td>
<td></td>
</tr>
</tbody>
</table>

**Esempi:**

- Installazione Editor, tedesco, Energy Edition:
  
  ```
  scada.exe /silent /language:1031 CDPROP_EDITION=ENERGY CDPROP_TYPE=ED ISFeatureInstall=PREREQUISITES_EDITOR,SCADA
  ```
Installazione e disinstallazione silenziosa

- Installazione Runtime, inglese, Supervisor Edition:
  scada.exe /silent /language:1033 CDPROP_EDITION=SUPERVISOR CDPROP_TYPE=RT ISFeatureInstall=PREREQUISITES_RUNTIME,SCADA

- Installazione zenon Web Server, tedesco:
  scada.exe /silent /language:1031 ISFeatureInstall=PREREQUISITES_WEBSERVER,WEBSERVER

- Installazione zenon Web Server, tedesco:
  scada.exe /silent /language:1031 ISFeatureInstall=PREREQUISITES_WEBCLIENT,WEBCLIENT

Disinstallazione silenziosa a partire da Zenon 7.20

Senza file log

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

Sintassi: SCADA.exe /remove /silent

Con file log

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

Sintassi: SCADA.exe /remove /silent /log"%TEMP%"

Disinstallazione silenziosa Zenon 7.10 e 7.11


<table>
<thead>
<tr>
<th>Parametro</th>
<th>Argomenti</th>
<th>Descrizione</th>
</tr>
</thead>
<tbody>
<tr>
<td>scada.exe</td>
<td></td>
<td>Inizializzazione dell’installazione.</td>
</tr>
<tr>
<td>/silent</td>
<td></td>
<td>Installazione silenziosa.</td>
</tr>
<tr>
<td>/language:</td>
<td>1031:</td>
<td>Selezione della lingua.</td>
</tr>
<tr>
<td></td>
<td>1033:</td>
<td>Esempio inglese:</td>
</tr>
<tr>
<td></td>
<td>1034:</td>
<td>language:1033</td>
</tr>
<tr>
<td></td>
<td>1036:</td>
<td>Francese</td>
</tr>
<tr>
<td></td>
<td>1040:</td>
<td>Italiano</td>
</tr>
</tbody>
</table>

| CDPROP_EDITION=  | ENERGY    | Selezione della Edition.    |
|                 |           | Esempio Energy Edition:     |
Installazione e disinstallazione silenziosa

<table>
<thead>
<tr>
<th>SUPERVISOR</th>
<th>OPERATOR</th>
<th>PHARMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDPROP_EDITION=ENERGY</td>
<td>Non necessario per zeron Web Server.</td>
<td></td>
</tr>
<tr>
<td>CDPROP_TYPE=</td>
<td>ED: Editor e Runtime</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selezione di Editor o Runtime.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISFeatureInstall=</td>
<td>WIBU,SCADA,MS,MSALL,SQL,COMMON:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WIBU,SCADA,MS,MSALL,COMMON:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>WIBU,WS,MSALL,COMMON:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selezione della funzionalità da installare.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Esempi:**

- Installazione Editor, tedesco, Energy Edition:
  `scada.exe /silent /language:1031 CDPROP_EDITION=ENERGY CDPROP_TYPE=ED ISFeatureInstall=WIBU,SCADA,MS,MSALL,SQL,COMMON`
- Installazione Runtime, inglese, Supervisor Edition:
  `scada.exe /silent /language:1033 CDPROP_EDITION=SUPERVISOR CDPROP_TYPE=RT ISFeatureInstall=WIBU,SCADA,MS,MSALL,COMMON`
- Installazione zeron Web Server, tedesco.
  `scada.exe /silent /language:1031 ISFeatureInstall=WIBU,WS,MSALL,COMMON`

**DISINSTALLAZIONE SILENZIOSA VERSIONE 7.10 E ZENON 7.11**

**ZENON 7.10**

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

Sintassi: `SCADA.exe /remove /silent`

**ZENON 7.11**

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

Sintassi: `SCADA.exe /remove /silent`
5. Trattamento errori

**CONTROLLO PRIMA DELL’INSTALLAZIONE**

Prima dell’installazione, viene eseguito un controllo volto a verificare l’esistenza dei requisiti necessari sul sistema. Nel caso in cui essi non dovessero essere soddisfatti, il sistema ve lo segnalerà e vi darà indicazioni per risolvere i problemi.

**ERRORI DURANTE L’INSTALLAZIONE**

Nel caso in cui dovessero verificarsi degli errori in fase di installazione, otterrete un messaggio di errore corrispondente.

Se doveste aver bisogno dell’aiuto del supporto tecnico di COPA-DATA per la soluzione di eventuali problemi:

1. Create, se possibile, uno screenshot del messaggio di errore.
2. Passate alla cartella %Temp%/SCADALOG.
3. Qui troverete i file LOG dell’installazione.
4. Create un file ZIP con il contenuto della cartella.
5. Inviate file e screenshot a support@copadata.com

Nel caso in cui abbiate già chiuso la finestra contenente il messaggio d’errore, trovate i file di Log con tutte le informazioni di installazione per il server SQL nella cartella: C:\Program Files\Microsoft SQL Server\110\Setup Bootstrap\LOG

**Suggerimento:** Il file Summary.txt fornisce un’indicazione su dove si potrebbe trovare l’errore.

**Info**

*Firewall:* zenon configura automaticamente durante l’installazione il firewall installato con Windows. I firewall di altri produttori, invece, devono essere configurati correttamente dall’utente.

**FREQUENTI FONTI DI ERRORE NEL CORSO DELLA INSTALLAZIONE:**

- Il programma antivirus è attivo e blocca l’installazione per l’erronea individuazione di virus. Soluzione: scollegare il computer dalla rete, disattivare il programma antivirus, eseguire nuovamente l’installazione.
- Il firewall non è stato configurato correttamente. Soluzione: scollegare il computer dalla rete, disattivare il firewall, eseguire nuovamente l’installazione.
6. **Update di Windows**

**Attenzione:** Gli update Windows automatici influenzano il processo d’installazione!

*Se, durante il setup di zenon, viene eseguito un update del sistema operativo di Windows, si possono verificare dei problemi nell’installazione di zenon.*

*Per evitare ciò:*
- Disattivate gli update automatici di Windows per il periodo dell’installazione.
- Eseguite tali update prima di avviare l’installazione di zenon.

7. **Il programma antivirus**

I software antivirus possono determinare un rallentamento del processo d’installazione di zenon, o lo possono addirittura rendere impossibile.

**Nota:** se il programma antivirus da voi utilizzato crea problemi durante dell’installazione, disattivatelo finché essa non sarà completata. Tenete presente che i computer in questione saranno esposti a rischi più elevati in questo lasso di tempo. Riattivate il programma antivirus subito dopo l’installazione di zenon.

8. **Struttura file**

La struttura di file viene creata o estesa durante l’installazione.

I file di programma di zenon sono copiati in una cartella definita in fase di installazione.

Inoltre, durante l’installazione, il sistema richiede una cartella per i database-SQL del progetto. Sul supporto di memorizzazione dei progetti (SQL, immagini ecc) ci deve essere abbastanza spazio di memoria visto che qui verranno salvati tutti i dati di progetto correnti e futuri.
<table>
<thead>
<tr>
<th>Cartella</th>
<th>Percorso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartella programma</td>
<td>Sistema a 32-Bit: %Program Files%\COPA-DATA\zenon7xxx</td>
</tr>
<tr>
<td></td>
<td>Sistema a 64-Bit: %Program Files%\COPA-DATA\zenon7xxx</td>
</tr>
<tr>
<td></td>
<td>%Program Files (x86)%\COPA-DATA\zenon7xxx</td>
</tr>
<tr>
<td>Cartella dei dati programma, per es. simboli globali, modelli di stampa, file di Log, ecc.,</td>
<td>%ProgramData%\COPA-DATA\zenon7xxx</td>
</tr>
<tr>
<td>Cartella database (SQL)</td>
<td>%ProgramData%\COPA-DATA\SQL</td>
</tr>
<tr>
<td>Cartella di sistema</td>
<td>%ProgramData%\COPA-DATA\System</td>
</tr>
<tr>
<td>Impostazioni Editor e profili</td>
<td>%Users%\UserName\AppData\Local\COPA-DATA\zenon\Editor</td>
</tr>
<tr>
<td>Impostazioni Diagnosis Viewer</td>
<td>%Users%\UserName\AppData\Local\COPA-DATA\zenon\DiagView</td>
</tr>
</tbody>
</table>

DEFINIZIONE DELLA CARTELLA RUNTIME E DELLA CARTELLA DATI

CARTELLA RUNTIME

L’Editor crea i file Runtime nella cartella Runtime; oppure i file Runtime vengono trasferiti in questa cartella mediante Trasporto Remoto. La cartella Runtime viene creata o aggiornata nell’Editor quando si compila un progetto. Questa cartella può essere modificata nelle proprietà di progetto (nodo "Generale", proprietà "Cartella Runtime"). Nella trasferimento remoto, la cartella Runtime viene definita nelle impostazioni del Trasporto Remoto.

CARTELLA DATI

Il Runtime salva tutti i file dati generati a Runtime (come, per esempio, file di allarme, file di archivi ecc) nella cartella dati. Di default, la cartella dati viene creata come sottocartella della cartella Runtime. Riceve automaticamente il nome del computer su cui è eseguito il Runtime. Si può modificare questo percorso di salvataggio nelle proprietà di progetto (Generale/Cartella dati).

Suggerimento: non salvare mai la cartella dati su un dispositivo rimovibile, come una chiavetta USB o una periferica di rete. Si consiglia di salvare i dati localmente e di eseguirne un backup esternamente.
9. Porte libere

zenon e zenon Logic utilizzano determinate porte per comunicare in rete. Se queste porte sono occupate da altri programmi (per esempio un Server SQL già installato), possono insorgere problemi nella comunicazione di zenon. In zenon molti numeri di porta sono modificabili usando lo Startup Tool, oppure tramite le proprietà nell’Editor.

Per verificare l’assegnazione delle porte, procedere come segue:

1. Inserire nella riga di comando netstat -a -n -o.
   
   Per aprire la riga di comando in Windows:
   - Premere i tasti Windows+R.
   - Digitare cmd e confermare con OK.
   - Si aprirà una finestra di inserimento DOS.
   - In questa finestra, inserire il comando netstat.

2. Verrà visualizzata una lista di tutte le porte TCP/IP e UDP attive.

3. Controllare le porte di ascolto (stato: ASCOLTO) e verificare se per le porte necessarie per la comunicazione di zenon e zenon Logic l’ID processo (PID) corrisponde ai processi di zenon e zenon Logic.

   Nel Task Manager di Windows è possibile verificare quali sono questi PDI: aprire il Task Manager di Windows e passare alla scheda Services.

4. Nel caso in cui un altro software dovesse utilizzare queste porte, riconfiguratelo.

Quali siano le porte usate da zenon e zenon Logic, lo vedete nella tabella Assegnazione porta a zenon e zenon Logic. In questa sede potete anche verificare se in questi programmi i numeri di porta sono adattabili e modificabili.
### ASSEGNAZIONE PORTA A ZENON E ZENON LOGIC

<table>
<thead>
<tr>
<th>Applicazione</th>
<th>Descrizione</th>
<th>Numeri di porta</th>
<th>Protocollo di trasporto</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>stratonrt[k].exe</code></td>
<td>Runtime di zenon Logic - comunicazione polling e workbench di zenon Logic.</td>
<td>1200-1210</td>
<td>TCP</td>
</tr>
<tr>
<td><code>stratonrt[k].exe</code></td>
<td></td>
<td>4500-4510</td>
<td>TCP</td>
</tr>
<tr>
<td><code>stratonrt[k].exe</code></td>
<td>Ridondanza di zenon Logic.</td>
<td>7000-7010</td>
<td>TCP</td>
</tr>
<tr>
<td><code>stratonrt[k].exe</code></td>
<td>Runtime di zenon Logic - comunicazione spontanea.</td>
<td>9000-9010</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zennetsrv.exe</code></td>
<td>Servizio di rete di zenon.</td>
<td>1100-1100</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zensyssrv.exe</code></td>
<td>Servizio di trasporto di zenon.</td>
<td>1101</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zendbsrv.exe</code></td>
<td>Servizio di database di zenon.</td>
<td>1103</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zenAdminsrv.exe</code></td>
<td>Servizio di amministrazione di zenon.</td>
<td>50777</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zenLogSrv.exe</code></td>
<td>Servizio di registrazione di zenon.</td>
<td>50780</td>
<td>TCP</td>
</tr>
<tr>
<td><code>zenvnc.exe</code></td>
<td>Servizio Desktop remoto di zenon.</td>
<td>5600 (fisso)</td>
<td>TCP</td>
</tr>
<tr>
<td><code>CodeMeter.exe</code></td>
<td>Servizio dongle Code Meter.</td>
<td>22350 (modificabile; ma non deve essere cambiato).</td>
<td>TCP</td>
</tr>
<tr>
<td><code>WkSvW32.exe</code></td>
<td>Servizio di rete WibuKey.</td>
<td>22347 (fisso)</td>
<td>TCP</td>
</tr>
<tr>
<td><code>Zenrt32.exe</code></td>
<td><strong>Message Control</strong> con Voice over IP.</td>
<td>5060: SIP</td>
<td>UDP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4000: RTP</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4001: RTCP (fisso)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>SIP e RTP possono essere configurati usando l’Editor.</td>
<td></td>
</tr>
</tbody>
</table>
10. Installazione di una versione più vecchia dopo quella di zenon 7.60 (sistema operativo a 64-Bit)

Se, su un sistema operativo a 64-Bit, dopo l’installazione di zenon 7.60 si installa una versione di zenon con un numero inferiore a 7.10, i servizi a 64-Bit di quest’ultima devono poi essere registrati di nuovo usando la riga di comando. La registrazione può essere effettuata usando un file batch, oppure manualmente.

**Registrazione con file batch:**
1. Copiate dal supporto di installazione di zenon il file `Register.bat`.
2. Lo trovate nella cartella: `...\AdditionalSoftware\Register Admin Service and Log Service (x64)`
3. Eseguite il file sul computer in questione come amministratore.

**Registrazione manuale:**
1. Aprire la riga comandi con diritti di amministratore.
2. Passate alla cartella `Program Files%\Common Files\COPA-DATA\zenAdminSrv`
3. Avviate il servizio `zenAdminSrv.exe` con il parametro `-service`
4. Passate alla cartella `%Program Files%\Common Files\COPA-DATA\zenLogSrv`
5. Avviate il servizio `zenLogSrv.exe` con il parametro `-service`

**Esempio**

`zenAdminSrv`:
- **Cartella:** `C:\Program Files\Common Files\COPA-DATA\zenAdminSrv`
- **Comando:** `zenAdminSrv.exe -service`

`zenLogSrv`:
- **Cartella:** `C:\Program Files\Common Files\COPA-DATA\zenLogSrv`
- **Comando:** `zenLogSrv.exe -service`
11. Installazione parallela della versione 7.x e della versione 6.51

Se si installa una versione 7.x su un sistema su cui si trova già zenon 6.51, dopo l’installazione, si deve installare di nuovo **Multiple Network Protocol Driver** dopo un reboot.

**PER SISTEMI X64**

Per reinstallare:

1. Riavviare il sistema.
2. Aprire sul supporto di installazione il percorso `AdditionalSoftware\COPA-DATA Multiple Network Protocol Driver`
3. Esegui il file `MNDPx64Setup.bat`

Il driver verrà installato nuovamente e collegato in modo corretto alla scheda di rete.

**PER I SISTEMI X86:**

Per reinstallare:

1. Riavviate il sistema.
2. Apri sul supporto di installazione il percorso `AdditionalSoftware\COPA-DATA Multiple Network Protocol Driver`
3. Eseguite il file chiamato `MNDPx86Setup.bat`

Ciò significa che il driver viene installato nuovamente e collegato in modo corretto alla scheda di rete.

12. Requisiti di sistema

zenon 7.60 può essere utilizzato su tutti gli attuali sistemi operativi Microsoft. zenon viene testato costantemente per verificarne la compatibilità con le versioni più recenti dei sistemi operativi, nonché con i più recenti Service Pack e Hotfix disponibili.

Le modifiche dovute a Service Packs, Hotfixes oppure Patches di Microsoft possono causare problemi di incompatibilità e pregiudicare la funzionalità del software. In questo caso, COPA-DATA provvederà a fornire una versione aggiornata di zenon il prima possibile. In questa eventualità, il supporto tecnico COPA-DATA è a vostra disposizione per fornirvi le informazioni del caso: support@copadata.com.
**Attenzione**

In fase di configurazione, si prega di tener presente quanto segue:

- Per garantire una visualizzazione ottimale di zenon a Runtime, si consiglia di adottare le impostazione standard per la **visualizzazione Windows** (corrisponde al 100%). Se si configurano risoluzioni più alte, può succedere che elementi grafici, simboli, testi ecc. non siano visualizzati correttamente.

- Temi di Windows possono coprire elementi a Runtime. Quando si configura un progetto, bisogna far attenzione che ci sia una distanza adeguata fra gli elementi e il margine dello schermo.
12.1 Sistemi operativi server e desktop.

Sistemi operativi supportati e service pack necessari:

<table>
<thead>
<tr>
<th>Sistema operativo</th>
<th>zenon Editor</th>
<th>zenon Runtime</th>
<th>zenon Web Server</th>
<th>zenon Web Client</th>
<th>zenon HTML Web Engine</th>
<th>zenon Logic Runtime</th>
<th>zenon Analyzer Server</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Windows 7</strong> (versioni Professional, Enterprise e Ultimate, in tutti i casi le versioni x86 e x64).</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Windows Embedded Standard 7</strong> (a condizione che esistano tutte le componenti necessarie del sistema operativo)</td>
<td>Impossibile eseguire</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Windows 8 e 8.1</strong> (versioni Standard, Professional e Enterprise, in tutti i casi le versioni x86 e x64).</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>Solo x64 con SP 0</td>
</tr>
<tr>
<td><strong>Windows Embedded 8 Standard</strong> (a condizione che esistano tutte le componenti necessarie del sistema operativo)</td>
<td>Impossibile eseguire</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Windows 10</strong> (Professional, Enterprise e Ultimate, versioni x86 e x64).</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>Solo Home, Pro e Enterprise (sempre x64) con SP 0</td>
</tr>
<tr>
<td><strong>Windows Server 2008 R2</strong> (tutte le edizioni, eccetto Core.)</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>SP 1</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Windows Server 2012 e 2012 R2</strong> (tutte le edizioni, eccetto Core.)</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>Solo x64 con SP 0</td>
</tr>
<tr>
<td><strong>Windows Server 2016</strong> (tutte le edizioni, eccetto Core.)</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>SP 0</td>
<td>Solo x64 con SP 0</td>
</tr>
</tbody>
</table>
## 12.2 Sistemi operativi server e desktop fino a Windows 8.1

Visione generale dei sistemi operativi server e desktop fino a Windows 8.1.

<table>
<thead>
<tr>
<th></th>
<th>Windows Embedded 7/8 Standard</th>
<th>Windows Embedded 8.1 Pro/Industry</th>
<th>Windows 7 SP1/Windows 8 e 8.1/ Server 2008 (R2) SP1, 2012 e 2012 R2</th>
<th>Windows CE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Editor</td>
<td>--</td>
<td>X</td>
<td>X</td>
<td>--</td>
</tr>
<tr>
<td>Runtime</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>--</td>
</tr>
<tr>
<td>Runtime per Windows CE</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>X</td>
</tr>
<tr>
<td>Web Server</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Web Client</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>--</td>
</tr>
<tr>
<td>HTML Web Engine</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>--</td>
</tr>
</tbody>
</table>

**Legenda:**
- **X**: supportata
- **--**: non supportato

### Attenzione

A partire dalla versione 7.50, Windows CE non è più supportato. Viene installata la versione 7.20 di zenon CE. Per usarla, devono essere creati i file Runtime per la versione 7.20.
## 12.3 Windows CE e Windows Embedded

<table>
<thead>
<tr>
<th>Sistema operativo</th>
<th>zenon Editor</th>
<th>zenon Runtime</th>
<th>zenon Web Server</th>
<th>zenon Web Client</th>
<th>zenon HTML Web Engine</th>
<th>zenon Logic Runtime</th>
<th>zenon Analyzer Server</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Windows CE 6.0</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ARM e x86)</td>
<td>Impossibile eseguire</td>
<td>Solo zenon Operator</td>
<td>Solo Pro Light</td>
<td>Impossibile eseguire</td>
<td>Impossibile eseguire</td>
<td>eseguibile</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Attenzione:</strong> supportato solo fino alla versione 7.20.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A partire dalla versione 7.50, devono essere creati file Runtime per Runtime per 7.20.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Windows Embedded Compact 7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ARM e x86)</td>
<td>Impossibile eseguire</td>
<td>Solo zenon Operator</td>
<td>Solo Pro Light</td>
<td>Impossibile eseguire</td>
<td>Impossibile eseguire</td>
<td>eseguibile</td>
<td>Impossibile eseguire</td>
</tr>
<tr>
<td><strong>Attenzione:</strong> supportato solo fino alla versione 7.20.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>A partire dalla versione 7.50, devono essere creati file Runtime per Runtime per 7.20.</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
12.4 Windows 10

Visione generale dei sistemi operativi desktop supportati per Windows 10.

<table>
<thead>
<tr>
<th>Versione Windows</th>
<th>zenon Supervisor/Operator</th>
<th>Everywhere by zenon</th>
<th>zenon Logic Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 10 Home</td>
<td>X</td>
<td>X (PC)</td>
<td>X</td>
</tr>
<tr>
<td>Windows 10 Mobile</td>
<td>--</td>
<td>X (Mobile)</td>
<td>--</td>
</tr>
<tr>
<td>Windows 10 Pro</td>
<td>X</td>
<td>X (PC)</td>
<td>X</td>
</tr>
<tr>
<td>Windows 10 Enterprise</td>
<td>X</td>
<td>X (PC)</td>
<td>X</td>
</tr>
<tr>
<td>Windows 10 Education</td>
<td>X</td>
<td>X (PC)</td>
<td>X</td>
</tr>
<tr>
<td>Windows 10 Mobile Enterprise</td>
<td>--</td>
<td>X (Mobile)</td>
<td>--</td>
</tr>
<tr>
<td>Windows 10 IoT Core</td>
<td>--</td>
<td>--</td>
<td>X</td>
</tr>
<tr>
<td>Windows 10 IoT Enterprise (Windows 10 Enterprise LTSB)</td>
<td>X</td>
<td>X (PC)</td>
<td>X</td>
</tr>
</tbody>
</table>

Legenda:
- X: disponibile
- --: non funzionante

12.5 Requisiti di sistema con uso di DirectX

Quando si usano le DirectX Hardware oppure le DirectX Software, devono essere soddisfatti i seguenti requisiti minimi:

### Requisiti di sistema

<table>
<thead>
<tr>
<th>Parametro</th>
<th>Requisiti minimi</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU:</strong></td>
<td>Single Core con supporto SSE2.</td>
<td>Quad Core o più core</td>
</tr>
<tr>
<td><strong>Scheda grafica:</strong></td>
<td>Scheda grafica DirectX 11 Mainstream.</td>
<td>scheda grafica DirectX 11 AMD oppure nVidia High-End dedicata.</td>
</tr>
<tr>
<td>(solo DirectX Hardware)</td>
<td><strong>Nota:</strong> soprattutto quando si usa una chip grafica integrata, è possibile (a seconda del driver usato) che ci siano problemi di qualità della visualizzazione.</td>
<td></td>
</tr>
<tr>
<td><strong>Memoria grafica:</strong></td>
<td>1 GB VRAM</td>
<td>2 GB VRAM</td>
</tr>
<tr>
<td>(solo DirectX Hardware)</td>
<td><strong>Nota:</strong> la quantità di memoria di cui si ha effettivamente bisogno dipende dal numero di immagini aperte e di elementi visualizzati.</td>
<td></td>
</tr>
<tr>
<td><strong>Driver della scheda grafica:</strong></td>
<td>Il driver più recente del produttore della scheda grafica.</td>
<td></td>
</tr>
<tr>
<td>(solo DirectX Hardware)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Sistema operativo:</strong></td>
<td><strong>DirectX Hardware e DirectX Software</strong> funzionano solamente sui sistemi operativi che supportano DirectX 11.1.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Se il sistema non supporta DirectX 11.1, si passa automaticamente a Windows standard.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Deve essere installato sul PC il Runtime DirectX corrente. Per zenon, questo viene installato automaticamente con il setup. Per zenon Web Client, invece, deve essere installato manualmente.</td>
<td></td>
</tr>
</tbody>
</table>

Per verificare la compatibilità della scheda grafica e del driver con DirectX Hardware, si può usare il tool dei sistemi operativi di Windows `dxdiag.exe`.
Fino a Windows 7: controllare il valore **DDI-Version** alla voce **Visualizzazione**. Il valore **11**, per esempio, significa DirectX 11.
A partire da Windows 8: tutte le versioni di DirectX supportate sono elencate nella scheda **Display**, alla voce **Feature Levels**. DirectX 11, per esempio, viene visualizzato come **11.0**.

### 12.6 Software aggiuntivo

**SERVER SQL**

L’Editor di zenon lavora con una banca dati SQL. Essa viene installata insieme all’Editor di zenon:
- Fino alla versione 6.20 SP4: SQL-Server 2000 (MSDE)
- Dalla versione 6.21 SP0: SQL Server 2005 Express
Requisiti di sistema

- Dalla versione 07:00 SP0: SQL Server 2008R2 SP1 Express
- Dalla versione 07:10 SP0: SQL Server 2012 SP1 Express

⚠️ Attenzione

Quando cambiate la versione del server SQL, tenete presente: si deve realizzare un backup ed un export dei progetti nella versione originale, e poi bisogna di nuovo importarli nella nuova versione.

DONGLE

- CodeMeter, il software necessario per la protezione dongle, viene sempre installato automaticamente.
- Se è richiesto WibuKey, lo si può installare dal supporto di installazione. Percorso:\AdditionalSoftware\WIBU-SYSTEMS WibuKey

12.7 Autorizzazione utente

Per l’installazione è necessario disporre dei diritti amministratore di Windows.

Per il funzionamento corrente, invece, è sufficiente disporre dei diritti utente standard di Windows. Il controllo account utente (UAC) può essere attivato con il livello massimo di sicurezza.

12.8 Requisiti hardware

La versione PC e quella CE di zenon richiedono delle prestazioni diverse all’hardware. In questo capitolo trovate quelli che sono i requisiti hardware per le singole versioni dell’Editor e del Runtime, nonché del zenon Webserver e del zenon Web Client.

L’Editor usa come Server SQL un server Microsoft SQL e richiede all’hardware prestazioni maggiori rispetto al Runtime. Se l’Editor e il Runtime devono funzionare contemporaneamente su un sistema, i requisiti si sommano.

⚠️ Attenzione

Si consiglia l’uso di schede grafiche con memoria grafica propria e supporto di DirectX. Schede grafiche Shared Memory potrebbero consumare troppa memoria e, di conseguenza, pregiudicare l’efficienza del funzionamento del sistema. A questo proposito, tenete presente quanto detto nel capitolo Requisiti del sistema nel caso di uso di DirectX (A pagina: 34). Se si vuole usare Multi-Touch, si deve tener presente la configurazione consigliata nel suddetto capitolo.
### 12.8.1 Editor

I requisiti minimi si riferiscono ad un’installazione completa dell’Editor. La gestione di progetti di grandi dimensioni o di più progetti caricati in contemporanea, presuppone l’uso di un hardware dalle elevate performance. In questo caso, i requisiti minimi possono essere maggiori di quelli elencati nella tabella successiva.

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisito minimo</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Single Core con supporto SSE2.</td>
<td>Quad Core</td>
</tr>
<tr>
<td>Memoria RAM</td>
<td>Da 4 GB</td>
<td>8 GB</td>
</tr>
<tr>
<td></td>
<td><strong>Nota</strong>: tanti più progetti sono presenti in memoria contemporaneamente, tanti più aumenta il fabbisogno di spazio di memoria.</td>
<td></td>
</tr>
<tr>
<td>Disco fisso</td>
<td>Per l’installazione completa, più spazio di memoria per i progetti.</td>
<td></td>
</tr>
<tr>
<td>Risoluzione dello schermo</td>
<td>Extended VGA con 1024 x 768.</td>
<td>Sistema a doppio monitor: 2 volte 1920 x 1080.</td>
</tr>
<tr>
<td>Scheda grafica</td>
<td>64 MB di memoria dedicata. Le schede con shared memory possono causare una riduzione delle prestazioni. A questo proposito, tenete presente quanto detto nel capitolo Requisiti del sistema nel caso di uso di DirectX (A pagina: 34).</td>
<td></td>
</tr>
<tr>
<td>Periferiche di input</td>
<td>Tastiera standard e mouse standard</td>
<td></td>
</tr>
<tr>
<td>Interfaccia USB oppure unità DVD</td>
<td>Per l’installazione, in dipendenza del supporto di installazione.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>L’installazione è possibile anche attraverso la rete. I file di installazione possono essere anche scaricati dall’area clienti della Website di COPA-DATA.</td>
<td></td>
</tr>
<tr>
<td>Interfaccia parallela oppure USB</td>
<td>In caso di licenza dongle, richiesta per dongle. Con dongle di rete, necessaria solamente per dongle server.</td>
<td></td>
</tr>
<tr>
<td>Connessione di rete (opzionale)</td>
<td>Raccomandati 10 Mbit/s con protocollo TCP/IP per il Trasporto Remoto, dongle di rete, backup di progetti su server file centrale, editor multiutente ecc.</td>
<td>1000 MBit/s</td>
</tr>
</tbody>
</table>

**Nota**: quando si lavora con progetto multiutente complessi, tenete presente le informazioni contenute nel capitolo requisiti hardware.
12.8.2 Runtime

I requisiti minimi si riferiscono ad un’installazione completa del Runtime. La gestione di progetti di grandi dimensioni o di più progetti caricati in contemporanea, presuppone l’uso di un hardware dalle elevate performance. In questo caso, i requisiti minimi possono essere maggiori di quelli elencati nella tabella successiva.
<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisito minimo</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Single Core con supporto SSE2.</td>
<td>Quad Core</td>
</tr>
<tr>
<td><strong>Memoria RAM</strong></td>
<td>Da 512 MB.</td>
<td>4096 MB</td>
</tr>
<tr>
<td></td>
<td><strong>Nota</strong>: progetti con grandi quantità di dati, progetti di rete, più progetti eseguiti in parallelo e progetti con ridondanza hanno bisogno di più spazio di memoria.</td>
<td></td>
</tr>
<tr>
<td><strong>Disco fisso</strong></td>
<td>2 GB di spazio di memoria libero per l’installazione del Runtime, più spazio di memoria per i progetti.</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Attenzione</strong>: se si salvano dati storici (per esempio dati d’archivio oppure dati relativi ad allarmi e/o dati CEL), sul disco fisso ci deve essere uno spazio di memoria sufficiente; oppure si deve prevedere in fase di progettazione che i dati storici vengano esportati oppure cancellati.</td>
<td></td>
</tr>
<tr>
<td><strong>Risoluzione dello schermo</strong></td>
<td>VGA con 640 x 480.</td>
<td></td>
</tr>
<tr>
<td><strong>Scheda grafica</strong></td>
<td>64 MB di memoria dedicata. Le schede con shared memory possono causare una riduzione delle prestazioni. A questo proposito, tenere presente le informazioni contenute nel capitolo Requisiti del sistema in caso di uso di DirectX (A pagina: 34).</td>
<td></td>
</tr>
<tr>
<td><strong>Periferiche di input</strong></td>
<td>Tastiera e/o mouse. E’ possibile anche una gestione tramite Touchscreen. Per l’opzione touchscreen, avete a disposizione molti tipi di keyboard adeguabili alle esigenze individuali. Esiste inoltre la possibilità di una gestione Multi-Touch.</td>
<td></td>
</tr>
<tr>
<td><strong>Interfaccia USB</strong></td>
<td>Per l’installazione.</td>
<td></td>
</tr>
<tr>
<td>(opzionale)</td>
<td>E’ possibile un’installazione anche via rete, oppure mediante altri supporti dati.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Per Dongle. Possibile anche dongle di rete.</td>
<td></td>
</tr>
<tr>
<td><strong>Connessione di rete</strong></td>
<td>64 kBits/s per progetti Client/Server standard.</td>
<td>1000 Mbit/s Fullduplex per Progetti Client/Server standard.</td>
</tr>
<tr>
<td>(opzionale)</td>
<td>100 Mbit/s Fullduplex per funzionamento ridondante.</td>
<td></td>
</tr>
<tr>
<td><strong>Connessione remota</strong></td>
<td>Requisito minimo: Modem dial-up a 9600 bit/s.</td>
<td>1 MBit/s Fullduplex.</td>
</tr>
<tr>
<td>(opzionale)</td>
<td>Qualsiasi connessione tramite router, per esempio via ISDN oppure DSL. Per ragioni tecniche, il trasferimento dati in una rete WAN è più lento che</td>
<td></td>
</tr>
<tr>
<td><strong>Impiego WAN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(opzionale):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
in una rete locale. Si prega di tenere presente già in fase di progettazione le possibili velocità di trasferimento dati consentite dalla tecnica WAN utilizzata.

| Message Control (opzionale): | I requisiti richiesti sono illustrati nel Message Control. |
| Interfaccce (opzionale): | Le interfacce necessarie dipendono dai requisiti del PLC e/o della connessione bus, ad esempio: interfacce seriali RS232 oppure RS422/485, ISA/PCI, ecc. |

12.8.3 Runtime sotto Windows Embedded Standard

I requisiti minimi si riferiscono ad un’installazione del Runtime adattata al sistema operativo Windows Embedded Standard 7 SP1 con aggiornamento piattaforma. Per quello che concerne i progetti di grandi dimensioni, l’hardware deve essere in grado di fornire delle prestazioni adeguate.

Questa tabella contiene solamente i valori che divergono da quelli dell’installazione standard. I parametri restanti corrispondono ai valori descritti nel capitolo Requisiti hardware per il Runtime (A pagina: 38).

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisiti minimi</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memoria RAM</td>
<td>512 MB.</td>
<td>2048 MB</td>
</tr>
<tr>
<td><strong>Nota:</strong> progetti con grandi quantità di dati, progetti di rete, più progetti eseguiti in parallelo e progetti con ridondanza hanno bisogno di più spazio di memoria.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supporto di memorizzazione dati</td>
<td>2 GB liberi di spazio di memoria sull’unità C:\ prima dell’installazione di .NET Framework 3.5 e 4.5 800 MB liberi di spazio di memoria dopo l’installazione di .NET Framework. Più lo spazio di memoria per progetti, archivi, ecc.</td>
<td>80 GB</td>
</tr>
</tbody>
</table>

**Attenzione:** se si salva dati storici (per esempio dati d’archivio oppure dati relativi ad allarmi e/o dati CEL), sul disco fisso ci deve essere uno spazio di memoria sufficiente; oppure si deve prevedere in fase di progettazione che i dati storici vengano esportati oppure cancellati.
12.8.4 Runtime per Windows CE

I requisiti minimi si riferiscono all’installazione completa del Runtime per Windows CE. Per quello che concerne i progetti di grandi dimensioni, l’hardware deve essere in grado di fornire delle prestazioni adeguate.

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisiti minimi</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Elenomen più 400 MHz</td>
<td>1 GHz</td>
</tr>
<tr>
<td>Memoria RAM</td>
<td>64 MB</td>
<td>1024 MB per Windows CE 6.0.</td>
</tr>
<tr>
<td>Supporto di memorizzazione dati</td>
<td>64 MB spazio libero di memoria. Memoria ritentiva permanentemente accessibile a scrittura per i dati di progetto.</td>
<td>256 MB o più di spazio di memoria libera.</td>
</tr>
<tr>
<td>Connessione di rete</td>
<td>Per Progetti Client/Server standard: 10 Mbit/s full duplex.</td>
<td></td>
</tr>
</tbody>
</table>

⚠️ Attenzione

A partire dalla versione 7.50, Windows CE non è più supportato. Viene installata la versione 7.20 di zenon CE. Per usarla, devono essere creati i file Runtime per la versione 7.20.

12.8.5 Web Server

I requisiti minimi si riferiscono ad un’installazione completa del Webserver. La gestione di progetti di grandi dimensioni o di più progetti caricati in contemporanea, presuppone l’uso di un hardware dalle elevate performance. In questo caso, i requisiti minimi possono essere maggiori di quelli elencati nella tabella successiva.
12.8.6 Web Client

I requisiti minimi si riferiscono ad un’installazione completa del zenon Web Client. La gestione di progetti di grandi dimensioni o di più progetti caricati in contemporanea, presuppone l’uso di un hardware dalle elevate performance. In questo caso, i requisiti minimi possono essere maggiori di quelli elencati nella tabella successiva.

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisiti minimi</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Single Core con supporto SSE2.</td>
<td></td>
</tr>
<tr>
<td>Memoria RAM</td>
<td>Da 1024 MB</td>
<td></td>
</tr>
<tr>
<td>Disco fisso</td>
<td>256 MB spazio libero di memoria.</td>
<td>1 GB spazio libero di memoria.</td>
</tr>
<tr>
<td>Accesso rete:</td>
<td>10 Mbit/s Fullduplex.</td>
<td>1000 Mbit/s Fullduplex.</td>
</tr>
<tr>
<td>Connessione remota</td>
<td>Requisiti minimi dial-up modem a 9600 bit/s.</td>
<td>1 MBit/s Fullduplex.</td>
</tr>
<tr>
<td>(opzionale)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Percorsi per setup e per funzionamento

#### Percorsi per zenon:
- Installazione
- Editor
- Runtime

#### Info

Molti percorsi standard possono essere visualizzati usando il comando `set`:

Aprire la riga di comando (cliccare sul menù di start di Windows e digitare `cmd`).

Digitate il comando `set`

Cliccando sul pulsante Invio verranno visualizzate le cartelle standard di Windows e zenon

**Nota:** visto che i percorsi assoluti possono differire in diversi sistemi operativi, in questo capitolo i percorsi sono indicati sempre come variabili di ambiente Windows. Per esempio `%ProgramData%`, invece di `C:\ProgramData`. 

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Requisito minimo</th>
<th>Raccomandato</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Single Core con supporto SSE2.</td>
<td>Quad Core</td>
</tr>
<tr>
<td><strong>Memoria RAM</strong></td>
<td>Da 1024 MB</td>
<td></td>
</tr>
<tr>
<td><strong>Disco fisso</strong></td>
<td>64 MB di spazio di memoria libero per zenon Web Client, più spazio di memoria per i progetti.</td>
<td>80 GB spazio libero di memoria.</td>
</tr>
<tr>
<td><strong>Accesso rete:</strong></td>
<td>10 Mbit/s Fullduplex.</td>
<td>1000 Mbit/s Fullduplex.</td>
</tr>
<tr>
<td><strong>Connessione remota</strong></td>
<td>Requisiti minimi dial-up modem a 9600 bit/s.</td>
<td>1 MBit/s Fullduplex.</td>
</tr>
<tr>
<td>(opzionale)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Scheda grafica</strong></td>
<td>64 MB di memoria dedicata. Le schede con shared memory possono causare una riduzione delle prestazioni. A questo proposito, tenere presente le informazioni contenute nel capitolo Requisiti del sistema in caso di uso di DirectX (A pagina: 34).</td>
<td></td>
</tr>
</tbody>
</table>
INSTALLAZIONE

Durante l’installazione, il sistema setta percorsi per:

- zenon Editor
- la cartella SQL di zenon

Solo i percorsi per l’Editor di zenon e la cartella SQL di zenon possono essere individualizzati. Per eseguire il setup, si deve essere in possesso di diritti di amministratore; questo vale anche se si vuole modificare i percorsi di installazione.

REQUISITI

I percorsi di installazione dei necessari componenti software di terzi, corrispondono ai percorsi standard del relativo produttore, e non sono modificabili durante il setup.

Quali pacchetti software addizionali devono essere installati, dipende dal tipo di installazione:

- zenon Editor
- zenon Runtime
- zenon Web Client
- zenon Logic Runtime
L’installazione dell’Editor di zenon imposta due percorsi:

- **zenon Editor:**
  - Sistemi a 32-Bit: %ProgramFiles(x86)%\COPA-DATA\zenon [Version]
  - Sistemi a 64-Bit: %ProgramFiles%\COPA-DATA\zenon [Version]

Questi percorsi possono essere individualizzati durante l’installazione.

- **Cartella SQL di zenon:**
  - A partire dalla versione 7.10: %ProgramData%\COPA-DATA\SQL2012\SQL Server 2012 SP1 Express

Questi percorsi possono essere individualizzati manualmente attraverso zenDB.ini.

**ZENON EDITOR**

Nell’Editor di zenon vengono usati di default i seguenti percorsi:
### Oggetto | Percorso | Consigli per combinazioni di tasti
--- | --- | ---
Workspace | %CD_USERDATA| **Per esempio:** C:\Users\Public\Documents\zenon_Projects

Progetti | %CD_USERDATA| **Per esempio:** C:\Users\Public\Documents\zenon_Projects  
**Consigli per combinazioni di tasti:** selezionare progetto -> Ctrl+Alt+D

Cartella SQL del progetto: | %ProgramData\COPA-DATA\[SQL-Ordner]\[UID]\FILES | **Consigli per combinazioni di tasti:** selezionare progetto -> Ctrl+Alt+E

project.ini | %ProgramData\COPA-DATA\[SQL-Ordner]\[UID]\FILES\zenon\system |

zenon6.ini | %ProgramData\COPA-DATA\System | **Per esempio:** C:\ProgramData\COPA-DATA\System

Backup | %ProgramData\COPA-DATA\[SQL-Ordner]\UID\BACKUP  
%ProgramData\COPA-DATA\[SQL-Ordner\UID\FILES\[Projekte] |

File compilati | %CD_USERDATA\[Arbeitsbereich]\[Projekt]\RT |

File esterni | %CD_USERDATA\[Arbeitsbereich]\[Projekt]\RT\FILES\... |

File di sistema | Cartella di sistema di Windows.

### ZENON RUNTIME

Nell’Editor di zenon vengono usati di default i seguenti percorsi:
<table>
<thead>
<tr>
<th>Oggetto</th>
<th>Percorso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progetti</td>
<td>%CD_USERDATA%[Arbeitsbereich][Projekt]\RT</td>
</tr>
<tr>
<td>File esterni</td>
<td>%CD_USERDATA%[Arbeitsbereich][Projekt]\RT\FILES...</td>
</tr>
<tr>
<td>Archivi esportati, Lista Eventi Cronologica e Lista di informazione allarmi</td>
<td>%CD_USERDATA%[Arbeitsbereich][Projekt]\Export</td>
</tr>
<tr>
<td><strong>Nota:</strong> viene creato al momento del primo export.</td>
<td></td>
</tr>
<tr>
<td>File di sistema</td>
<td>Cartella di sistema di Windows.</td>
</tr>
</tbody>
</table>

ZENON LOGIC

I percorsi per zenon Logic vengono creati in modo analogo a quelli per zenon.

14. zenon per Windows CE

COMPONENTI

La versione CE di zenon è composta dalle seguenti componenti:

- zenon CE Runtime
- DLL di lingua
- DLL di rete
- DLL driver
- zenon6.ini
- Servizio di trasporto
Attenzione

A partire dalla versione 7.50, Windows CE non è più supportato. Viene installata la versione 7.20 di zenon CE. Per usarla, devono essere creati i file Runtime per la versione 7.20.

REQUISITI PER L’INSTALLAZIONE DEL RUNTIME SU SISTEMI REMOTI.

- Sul terminal CE deve essere installato ed avviato il servizio di trasporto (SysSrvCE.exe) di zenon, oppure esistere una connessione ActiveSync. Istruzioni per l’installazione manuale mediante supporti dati, potete trovarle nel capitolo Installazione manuale e update del Runtime (A pagina: 58).
- Per consentire un trasporto corretto, il terminale CE al quale devono essere trasmessi i nuovi dati, deve disporre di almeno 8 megabyte di memoria "Program Memory". Questo parametro può essere adeguato usando il pannello di controllo. Proprietà del sistema.

PROCEDURA

Dettagli su compatibilità, installazione ed update li potete trovare nei capitoli:

- Versioni CE / Sostegno processore (A pagina: 49)
- Aggiorna Runtime di Windows CE... (A pagina: 51)

Info

La registrazione della licenza per il Runtime per Windows CE si esegue con il Trasporto Remoto. Quando instaurate la connessione con il sistema destinatario, potete indicare il numero di serie e il numero di licenza per la versione CE. Il numero di serie viene salvato sul dispositivo CE nel file zenon6.ini. Il numero di attivazione viene salvato nella registry.
Se, al momento dello start di `zenonrce.exe`, viene eseguito anche il file `syssrvce.exe`, si può garantire che possa sempre essere instaurata una connessione TCP. Pertanto è necessario solamente un file per la funzionalità autostart. Tuttavia, si deve provvedere a configurare un intervallo di tempo (ritardo) fra i due start.

**Causa:** con lo start di `zenonRCE`, si avvia automaticamente anche `zenLogSrvCE`. Ma anche al momento dello start di `syssrvce`, il sistema avvia automaticamente `zenLogSrvCE`.

Se, dunque, `zenonRCE` e `syssrvce` vengono avviati nel giro di poco tempo, entrambi cercheranno di aprire `zenLogSrvCE`. Ciò causa un messaggio di errore.

**Soluzione:** per evitare il verificarsi di questo problema, configurate un intervallo di tempo (ritardo) fra lo start di `zenonRCE` e quello di `zenLogSrvCE`. Per far ciò, potete settare nello zenon6.ini l’inserimento `STARTDELAY=x`. Così il Runtime (`zenLogSrvCE`) verrà avviato più tardi. Il sistema, poi, provvederà a verificare se `zenLogSrvCE` è già in esecuzione, e non tenterà più di avviarlo.

## 14.1 Versioni CE e processori supportati

Nella versione 7.20 di zenon vengono supportate le seguenti versioni di Windows CE ed i seguenti processori:

**Processori:**
- x86
- ARM V4/V5

**Versioni CE:**
- CE 6.00
- Windows Embedded Compact 7

Le informazioni relative alle versioni CE e ai processori supportati da precedenti versioni di zenon, le trovate nella documentazione relativa, oppure le potete richiedere al supporto tecnico di COPA-DATA.

⚠️ **Attenzione**

A partire dalla versione 7.50, Windows CE non è più supportato. Viene installata la versione 7.20 di zenon CE. Per usarla, devono essere creati i file Runtime per la versione 7.20.
14.2 File di sistema

Perché il Runtime per Windows CE possa funzionare, devono essere disponibili alcuni file di sistema. Se manca uno di questi file, il sistema operativo genera un messaggio di errore durante l’avvio del Runtime, che avverte l’utente che non è stato possibile trovare uno o più componenti. I seguenti file di sistema sono assolutamente necessari:

<table>
<thead>
<tr>
<th>File</th>
<th>Descrizione</th>
</tr>
</thead>
<tbody>
<tr>
<td>mfc90u.dll</td>
<td>Necessario per il Runtime. Se questo file non esiste, viene visualizzato un messaggio di errore al momento dell’avvio.</td>
</tr>
<tr>
<td>msvcr90.dll</td>
<td>Necessario per il Runtime Se questo file non esiste, viene visualizzato un messaggio di errore al momento dell’avvio.</td>
</tr>
<tr>
<td>atl90.dll</td>
<td>Non necessario per l’avvio del Runtime, ma per l’utilizzo di un driver con connessioni di rete, o per usare zenon in rete. Se questo file non esiste, il dispositivo non potrà fungere da client, oppure non funzioneranno le connessioni driver TCP/IP.</td>
</tr>
<tr>
<td>IMGDECMP.dll</td>
<td>Non necessario per l’avvio del Runtime, ma per la visualizzazione della trasparenza, se alpha blending non è integrato nel sistema operativo. L’animazione di file GIF non è possibile con Windows CE.</td>
</tr>
<tr>
<td>VBSCRIPT.dll + JSCRIPT.dll</td>
<td>Non necessario per l’avvio del Runtime. Questo file è necessario per il PCE (Process Control Engine)</td>
</tr>
</tbody>
</table>

Alcuni di questi file di sistema vengono installati al momento dell’installazione di zenon per CE e possono essere trasferiti al dispositivo CE usando, per esempio, il tool UpdateCE. Tutti questi file di sistema dovrebbero essere integrati già dal produttore nell’immagine del sistema operativo del dispositivo CE.

⚠️ Attenzione

Per i produttori di immagini del sistema operativo Windows CE:

il file toolhelp.dll è necessario per le versioni di CE precedenti alla 6.0. Attivare il seguente inserimento nel Platform Manager per garantire che il file sia disponibile sul dispositivo CE, e che il "Toolhelp" sia disponibile nel SDK:

Core OS -> Display Based Device -> Core OS Services -> Debugging Tools>Toolhelp API. In questo modo, Toolhelp.dll sarà parte dell’immagine.

Consiglio: si consiglia di usare sempre il service pack più recente del Platform Builder.

Nota: il file toolhelp.dll non è necessario per Windows CE 6, e non dovrebbe essere utilizzato con CE 6.


14.3 **Update del Runtime Windows CE**

Per eseguire un update del Runtime Windows CE:

- Assicurarsi che il servizio di trasporto di zenon (**SysSrvCE.exe**) sia eseguito sul dispositivo CE.
- Assicurarsi di non aver stabilito una connessione remota con il dispositivo tramite l’Editor di zenon.
- Selezionare nel menu **Extras** dell’Editor di zenon, il comando **Aggiorna Runtime di Windows CE**. Si apre la finestra di dialogo che consente di trasferire i file Runtime.
- Configurare la connessione.
- Definire i file che si vuole trasferire.
- Selezionare la versione.
- Avviare l’update.

**Nota:** quando si trasferiscono i file Runtime/si installa il Runtime per la prima volta, tenere presente le informazioni contenute nel capitolo **Installazione manuale e update del Runtime**. (A pagina: 58)

**CONFIGURARE LA CONNESSIONE.**

La connessione con il dispositivo Windows CE si configura nella scheda **Connection** della finestra di dialogo "Remote Runtime update...".
<table>
<thead>
<tr>
<th>Parametro</th>
<th>Descrizione</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial</td>
<td>Impostazione della connessione seriale con il dispositivo Windows CE; si deve selezionare il numero di porta.</td>
</tr>
<tr>
<td><strong>TCP/IP</strong></td>
<td>Impostazioni della connessione TCP/IP con il dispositivo Windows CE.</td>
</tr>
<tr>
<td>Adress</td>
<td>Indirizzo IP.</td>
</tr>
<tr>
<td>Name</td>
<td>Nome computer.</td>
</tr>
<tr>
<td><strong>Syssrvce.exe starts with these settings</strong></td>
<td>Impostazioni per lo start di <em>syssrvce.exe</em>.</td>
</tr>
<tr>
<td>Serial</td>
<td><strong>Attivo:</strong> viene selezionata la connessione seriale; si deve selezionare il numero di porta.</td>
</tr>
<tr>
<td><strong>TCP/IP</strong></td>
<td><strong>Attivo:</strong> viene selezionata la connessione TCP/IP.</td>
</tr>
<tr>
<td><strong>Connection with MS ActiveSync</strong></td>
<td>Impostazioni per la connessione via MS ActiveSync.</td>
</tr>
<tr>
<td><strong>Use MS ActiveSync for initial transport of syssrvce.exe</strong></td>
<td><strong>Attivo:</strong> il file <em>syssrvce.exe</em> viene trasferito durante il primo trasporto via MS ActiveSync.</td>
</tr>
<tr>
<td>Destination folder</td>
<td>Cartella di destinazione.</td>
</tr>
<tr>
<td>Help</td>
<td>Apre la guida online.</td>
</tr>
<tr>
<td>Save</td>
<td>Salva tutte le modifiche.</td>
</tr>
<tr>
<td>Exit</td>
<td>Chiude il tool di update CE e offre prima la possibilità di salvare tutte le modifiche non ancora salvate.</td>
</tr>
</tbody>
</table>

**DEFINIZIONE DEI FILE CHE DEVONO ESSERE TRASFERITI**
<table>
<thead>
<tr>
<th>Parametro</th>
<th>Descrizione</th>
</tr>
</thead>
<tbody>
<tr>
<td>Files to update</td>
<td>File che devono essere trasferiti.</td>
</tr>
<tr>
<td>HMI Runtime</td>
<td><strong>Attivo:</strong> trasferisce i file di zenon al dispositivo di destinazione. <strong>Default:</strong> attiva</td>
</tr>
<tr>
<td>PLC Runtime</td>
<td><strong>Attivo:</strong> trasferisce i file di zenon al dispositivo di destinazione. <strong>Default:</strong> non attivo</td>
</tr>
<tr>
<td>OS system files</td>
<td><strong>Attivo:</strong> trasferisce i file necessari del sistema operativo. <strong>Default:</strong> attiva</td>
</tr>
<tr>
<td>Update zenon6.ini</td>
<td>Trasferisce il file zenon6.ini al dispositivo di destinazione. In questo caso verranno modificate anche le informazioni sulla licenza sul dispositivo di destinazione.</td>
</tr>
<tr>
<td>Options</td>
<td></td>
</tr>
<tr>
<td>Language</td>
<td>Lingua desiderata sul sistema di destinazione. <strong>Default:</strong> Inglese</td>
</tr>
<tr>
<td>HMI drivers</td>
<td>Selezione dei driver HMI da trasferire.</td>
</tr>
<tr>
<td>Available</td>
<td>Lista dei driver disponibili.</td>
</tr>
<tr>
<td>Selected</td>
<td>Lista dei driver selezionati.</td>
</tr>
<tr>
<td>Add</td>
<td>Aggiunge i driver selezionati alla lista dei driver scelti.</td>
</tr>
<tr>
<td>Add all</td>
<td>Aggiunge tutti i driver alla lista dei driver selezionati.</td>
</tr>
<tr>
<td>Remove</td>
<td>Cancella i driver selezionati dalla lista dei driver scelti e li sposta nella finestra di quelli disponibili.</td>
</tr>
<tr>
<td>Remove all</td>
<td>Cancella tutti i driver dalla lista dei driver scelti e li sposta nella finestra di quelli disponibili.</td>
</tr>
<tr>
<td>Help</td>
<td>Apre la guida online.</td>
</tr>
<tr>
<td>Save</td>
<td>Salva tutte le modifiche.</td>
</tr>
<tr>
<td>Exit</td>
<td>Chiude il tool di update CE e offre prima la possibilità di salvare tutte le modifiche non ancora salvate.</td>
</tr>
</tbody>
</table>

**SELEZIONE DELLA VERSIONE**

Nella scheda **Versions** della finestra di dialogo "Remote Runtime update....", selezionare la versione corretta di CE, quando questa non viene riconosciuta automaticamente dal sistema.
<table>
<thead>
<tr>
<th>Windows CE Version</th>
<th>Processor Type</th>
<th>Source Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>x86</td>
<td>\ICDEXEDE0_x86</td>
</tr>
<tr>
<td>5.00</td>
<td>ARMv4</td>
<td>\ICDEXEDE0_ARM</td>
</tr>
<tr>
<td>5.00</td>
<td>ARMv5</td>
<td>\ICDEXEDE0_ARM</td>
</tr>
<tr>
<td>5.10, PocketPC</td>
<td>ARMv6</td>
<td>\ICDWinMobile_x_ARM</td>
</tr>
<tr>
<td>5.20, PocketPC</td>
<td>ARMv6</td>
<td>\ICDWinMobile6x_ARM</td>
</tr>
<tr>
<td>6.00</td>
<td>x86</td>
<td>\ICDEXEDE0_x86</td>
</tr>
<tr>
<td>6.00</td>
<td>ARMv6</td>
<td>\ICDEXEDE0_ARM</td>
</tr>
<tr>
<td>Parametro</td>
<td>Descrizione</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>WinCE version</td>
<td>Versione del sistema operativo Windows CE sul dispositivo di destinazione. Cliccando sul pulsante, si apre il menù a tendina che consente la selezione.</td>
<td></td>
</tr>
<tr>
<td>Processor type</td>
<td>Tipo di processore del dispositivo.</td>
<td></td>
</tr>
<tr>
<td>Source path</td>
<td>Percorso della cartella che contiene i file. Cliccando sul pulsante ... si apre la finestra di dialogo che consente di selezionare una cartella.</td>
<td></td>
</tr>
<tr>
<td>New</td>
<td>Aggiunge un nuovo inserimento vuoto alla lista.</td>
<td></td>
</tr>
<tr>
<td>Delete</td>
<td>Cancella l’inserimento selezionato dalla lista dopo una richiesta di conferma.</td>
<td></td>
</tr>
<tr>
<td>Test</td>
<td>Verifica la correttezza delle impostazioni.</td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td>Apre la guida online.</td>
<td></td>
</tr>
<tr>
<td>Save</td>
<td>Salva tutte le modifiche.</td>
<td></td>
</tr>
<tr>
<td>Exit</td>
<td>Chiude il tool di update CE e offre prima la possibilità di salvare tutte le modifiche non ancora salvate.</td>
<td></td>
</tr>
</tbody>
</table>

**AVVIA UPDATE**

Per stabilire una connessione:
1. Nella scheda **Update** della finestra di dialogo "Remote Runtime update....", cliccare sul pulsante **Start**.

Il sistema verifica i dati per il trasferimento che verranno poi visualizzati in una finestra.

2. Cliccando sul pulsante **Next**, si avvia il trasferimento al dispositivo di destinazione.
Se il trasferimento non può essere avviato per la mancanza di file, sarà visualizzato un messaggio di errore contenente la lista dei file mancanti:

Se viene visualizzato il messaggio di errore **The current update was not completed**, l’update è stato interrotto, oppure eseguito non correttamente.

**Info**

Se si vuole sostituire zenVNCServer.exe eseguendo un update, il file verrà chiuso, e riavviato dopo l’update. Il file **zenVNCsrvCE.exe**, che si trova nel UpdateCE.ini nella sezione [SOURCES_FILES_GENERAL], deve contenere i seguenti inserimenti (esistenti di default):

- zenVNCsrvCE.exe
- zenVNCfgCE.exe

### 14.4 Installazione manuale e update del Runtime.

Installazione e update sono possibili anche senta Trasporto Remoto e ActiveSync. Procedura: bisogna anzitutto copiare manualmente i file necessari su una scheda di memoria per il dispositivo CE. Chiaramente si deve conoscere la versione di CE e il tipo di processore del dispositivo in questione.
È necessario copiare sulla scheda di memoria destinata al dispositivo CE in questione i seguenti file dalla relativa cartella; i file devono essere naturalmente per la piattaforma corretta.

- **zenonRCE.exe** (Runtime)
- **LogCliLibCE.dll** (Diagnosi DLL)
- **zenon6.ini** (file di configurazione)
- **Cd_tooCE.dll** (Help DLL)
- **ZenNetSrvCE.dll** (rete)
- **CDHelper.dll** (Hilfs-DLL)
- **syssrvce.exe** (servizio di trasporto e Diagnosis Server)
- **atl90.dll** (file di sistema, eventualmente parte del sistema operativo)
- **mfc90u.dll** (File di sistema, possibilmente parte del sistema operativo)
- **msvcr90.dll** (File di sistema, possibilmente parte del sistema operativo)

Altri file, come ad esempio i driver oppure il software del desktop remoto (**zenVNCCfgCE.exe** e **zenVNCSrvCE.exe**), sono facoltativi.

### 14.5 Pocket PCs (PDA - Handheld PC)

Pocket PC non vengono più supportati a partire dalla versione 7.

### 14.6 Gestione degli errori

#### Possibili errori:

<table>
<thead>
<tr>
<th>Errore</th>
<th>Possibile soluzione</th>
</tr>
</thead>
<tbody>
<tr>
<td>Il servizio di trasporto non funziona.</td>
<td>Controllare la versione del servizio di trasporto. Perlomeno: versione 5.21 SP3 o con numero di serie più alto; oppure versione 5.50 SP1 o di numero superiore.</td>
</tr>
<tr>
<td>Il programma Runtime di update non riesce ad instaurare una connessione.</td>
<td>Chiudere le connessioni aperte dell’Editor con il servizio di trasporto CE.</td>
</tr>
</tbody>
</table>
15. Runtime dello zenon Logic per Windows CE

L'installazione del Runtime di zenon Logic (runtime PLC) in un sistema Windows CE si svolge in modo simile a quella del Runtime per Windows CE (A pagina: 47).

Requisito Servizio di trasporto eseguibile con CE.

Il Runtime di zenon Logic per Windows CE è costituito dalle seguenti componenti:

- zenon Logic Runtime
- DLL di lingua
- zenon Logic IO driver
- zenon6.ini

**INSTALLAZIONE**

- Nel menù **Opzioni** di zenon, selezionare "Aggiorna Runtime Windows CE".
  
  Si apre la finestra di dialogo che consente di trasferire i file Runtime.

- Attivate nella finestra "File" il checkbox "PLC Runtime", per copiare i file necessari zenon Logic nel percorso di esecuzione CE.

- Passate alla scheda "Connection".
Definite la connessione con il dispositivo CE. Digitate l’indirizzo IP, oppure il numero di porta seriale.

Se volete che sia trasferito anche il file zenon6.ini, selezionate Update zenon6.ini. In tal modo, vengono modificate le informazioni concernenti la licenza sul dispositivo destinatario.

Selezionate nella finestra "CE Runtime versions" la versione giusta, nel caso in cui il sistema non dovesse riconoscerla automaticamente.

**UPDATE**

Funziona come descritto nel capitolo Update Windows CE Runtime (A pagina: 51).

Attenzione: dovete attivare l’opzione PLC Runtime nella scheda "Files"!

**Info**

Con Windows CE 6.0 vengono trasmessi sempre i file MFC.

---

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
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

Info

ULTERIORI INFORMAZIONI

Trovate informazioni dettagliate concernenti il Webserver di zenon nella guida in linea, alla voce zenon Web Server e Web Server Pro: per le licenze, invece, nel capitolo Registrazione licenza.

17. zenon Web Client

Il zenon Web Client consiste soprattutto di un ActiveX Control, che visualizza delle informazioni in un browser. La visualizzazione è 1:1, come in un zenon Runtime Client. La connessione al Runtime Server avviene tramite il zenon Web Server tramite la comunicazione TCP/IP.

I file di setup per il zenon Web Client li trovate dopo l`installazione nella sottodirectory del percorso di installazione del zenon Web Server (xxx si riferisce alla versione relativa di von zenon), per esempio: %Programfiles%/COPA-DATA/zenon Web Server/zenon/controlversions/Versionxxx/zenon_Webclient_Setup_GERMAN.EXE
oder
C:/Inetpub/wwwroot/zenon/controlversions/Versionxxx/zenon_Webclient_Setup_ITALIAN.EXE

Tutti i setup zenon Logic Web Client sono con firma digitale e possono essere resi disponibili su Internet per il download.

Info
Il zenon Web Client invia Error e file di log. Il Diagnosis Server viene installato automaticamente con il zenon Web Client.
18. Update (Build Setups)

UPDATE (BUILD SETUP)

Un update viene installato mediante l’installazione esistente e sostituisce solamente i file modificati con la nuova versione. Tutti i progetti e le impostazioni individuali rimangono inalterati. Vi preghiamo di tener presente che la qualità dei Build Setup non è mai sicura al 100%. Vengono testate solamente le correzioni delle bug contenute. Nel caso in cui dovessero verificarsi effetti indesiderati a causa di una correzione delle bug, non è detto che questi ultimi siano riconoscibili già al momento dell’effettuazione dei test. COPA-DATA, quindi, consiglia di usare sempre Service Packs. Questi ultimi, infatti, sono sempre soggetti ad un approfondito test di qualità.

Nota:
- Build Setup possono essere installati solo localmente. Non è possibile installarli su percorsi di rete (UNC).

PASSAGGIO AD UNA NUOVA VERSIONE

Se volete installare una nuova versione di zenon, avviate la routine di installazione. La nuova versione viene installata parallelamente alla versione già esistente. Tutti i progetti e le impostazioni individuali rimangono inalterati. I progetti non vengono convertiti nella nuova versione durante l’installazione. Solo al momento della prima apertura dell’Editor, si verifica la conversione del singolo progetto nella nuova versione. Un box di dialogo vi avverte del verificarsi di tale processo. Viene effettuato un backup automatico della vecchia versione. Nel caso in cui vogliate usare solo la versione più attuale, disinstallate la versione precedente facendo uso della routine corrispondente del pannello di controllo Windows.

⚠️ Attenzione

Se un’installazione comporta un cambio del server SQL (per es. update da zenon 7.00 a zenon 7.10 o versione ancora più recente), prima della installazione si deve effettuare un backup di tutti i progetti o del workspace. Questo backup viene caricato dopo l’installazione. I dettagli concernenti questo procedimento li trovate anche nella sezione Progetti-Multiuser/Update con cambio del server SQL

Se, invece, avete intenzione di usare più versioni di zenon parallelamente, potete farlo usando lo Startup Tool. Vi facciamo presente che è possibile avviare solamente una versione alla volta. Quale sia la versione da avviare, lo stabilite in Startup Tool, che realizza tutte le impostazioni necessarie automaticamente. I dettagli relativi li potete trovare nel capitolo Startup Tool.
**Info**

Le nuove versioni comportano sempre dei cambiamenti strutturali. Durante l’installazione, i progetti e le impostazioni rimangono inalterate. Al momento della prima apertura nell’Editor, i progetti vengono convertiti nella nuova versione, e contemporaneamente, viene realizzata una copia di sicurezza della vecchia versione.

I progetti convertiti non possono più essere modificati nelle versioni precedenti. A partire dalla versione 6.2, l’Editor può creare dei progetti per diverse versioni del Runtime.

Delle importanti indicazioni concernenti la conversione dei progetti, le trovate nel testo di revisione. Esso viene fornito con il supporto di installazione ed è disponibile anche online.

**PROGETTI MULTI-USER**

Per garantire il passaggio ad una nuova versione di zenon in progetti multi-user, senza avere una perdita di dati:

1. Applicare su tutti i client tutti gli elementi per cui si è effettuato il check out -> Applica modifiche.
   
   Non ci deve essere niente "checked out". Ciò vale per tutti i progetti.

2. Installate sul computer che funge da server la nuova versione di zenon.

3. Convertite tutti i progetti server nella nuova versione: a tal scopo, caricate tutti i progetti nell’Editor del computer che funge da server.

4. Installate la nuova versione di zenon sui computer che fungono da client.

5. Caricate i progetti sui client e di nuovo fare check out.

**UPDATE CON CAMBIO DEL SERVER SQL**

Se un’installazione comporta il cambio del server SQL Servers (per es. da zenon 6.51 a zenon 9.1), sono necessari ulteriori passi. Questi passi vengono eseguiti:

- dopo che si è effettuato il check in di tutti i progetti
- prima di installare la nuova versione

Procedura nel caso di cambio del server SQL:

1. check in su tutti i client di tutti gli elementi che sono "checked out" -> Applica modifiche.

2. sul server multi-user apriete l’Editor nella versione iniziale

3. create dei backup di tutti i progetti che volete modificare, o aprire con la nuova versione.
   
   - o nella forma di backup di progetto singoli
   - oppure come backup di un intero workspace

4. installate la nuova versione sul server
5. convertite tutti i progetti server nella nuova versione, caricando i backup di progetto prima creati nell’Editor.

6. installate l’update su ogni client

7. trasferite i progetti del server multi-user ai client
   (tenete presente il nuovo nome dell’istanza SQL)

8. i progetti sono convertiti, sincronizzati e pronti ad essere utilizzati

**Attenzione:** assicuratevi che le impostazioni del firewall consentano lo scambio dati dal server multi-user ai clienti e viceversa.

### 19. FAQ

Durante l’installazione si verificano degli errori soprattutto se la sostituzione o la creazione di file vengono impedite a causa di un programma antivirus, oppure processi di installazione già in corso. Di seguito trovate un elenco delle cause più frequenti di errore durante il processo di installazione e la risoluzione dei problemi.

#### ZENON

<table>
<thead>
<tr>
<th>Problema</th>
<th>Soluzione</th>
</tr>
</thead>
<tbody>
<tr>
<td>L’installazione viene interrotta. Tipico messaggio di errore: <strong>Error 1304. Error writing to file...</strong></td>
<td>Disattivate il programma antivirus e chiudete programmi non necessari al momento.</td>
</tr>
<tr>
<td>Dei progetti demo sono stati installati, ma non vengono visualizzati. Non possono essere creati nuovi progetti.</td>
<td>Controllate il nome computer. Questo: Può avere la lunghezza massima di 15 caratteri deve corrispondere alle convenzioni del nome computer NetBIOS</td>
</tr>
<tr>
<td><strong>Messaggio di errore: non è stato possibile avviare un servizio.</strong></td>
<td>prima di tutto riavviare il computer. riavviate poi il setup di zenon</td>
</tr>
</tbody>
</table>
SERVER SQL

GENERALE

<table>
<thead>
<tr>
<th>Problema</th>
<th>Soluzione</th>
</tr>
</thead>
<tbody>
<tr>
<td>Il processo di installazione non può essere completato perché la password non soddisfa i requisiti.</td>
<td>Se, con l’opzione Local Security Policy di Windows, si imposta la lunghezza minima della password, che di default è 8, su un valore superiore a 10, l’installazione del server SQL non potrà essere portata a termine con successo, perché la password di zenon SQL consta di 10 caratteri.</td>
</tr>
</tbody>
</table>

20. Supporto tecnico

BASIC SUPPORT

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Version 1.1
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22.5 Bootstrap, jQuery UI, jQuery, Newtonsoft.Json

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22.7  Nlog, NLog.Windows.Forms

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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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22.26 Mono.Cecil 0.9.6.4

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22.27 WPF Application Framework (WAF) 3.2.0

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