
coach-installer Documentation

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Qualtrak Solutions Ltd.

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| | | |
|----------|----------------------------------|-----------|
| 1 | Getting started | 3 |
| 1.1 | Main Usage Requirement | 3 |
| 2 | Full Installer | 5 |
| 2.1 | Description | 5 |
| 2.2 | Usage | 5 |
| 2.3 | Examples | 5 |
| 2.4 | Parameters | 6 |
| 3 | App Installer | 9 |
| 3.1 | Description | 9 |
| 3.2 | Usage | 9 |
| 3.3 | Examples | 9 |
| 4 | Scheduler Installer | 11 |
| 4.1 | Description | 11 |
| 4.2 | Usage | 11 |
| 5 | Database Installer | 13 |
| 5.1 | Description | 13 |
| 5.2 | Usage | 13 |
| 5.3 | Examples | 13 |
| 5.4 | Parameters | 14 |
| 6 | Uninstaller | 17 |
| 6.1 | Description | 17 |
| 6.2 | Usage | 17 |
| 6.3 | Examples | 17 |
| 6.4 | Parameters | 18 |
| 7 | Config file properties | 21 |
| 7.1 | General | 21 |
| 7.2 | IIS | 23 |
| 7.3 | Database | 24 |
| 7.4 | web.config | 25 |
| 7.5 | Windows Authentication | 27 |
| 7.6 | Recorder | 27 |
| 7.7 | HA (High Availability) | 29 |

Note: *Qualtrak Coach Installer* is written in *Powershell* and uses *Powershell* to manage instalation. Apart from *Powershell*, for manipulating *SQL Server* database is used *SQL Server* command line utility `sqlcmd`.

Contents:

Getting started

Note: Powershell 3 or above is required for running *Qualtrak Coach Installer*.

1.1 Main Usage Requirement

- Open *Powershell* console as *Administrator*!
- Unblock *Qualtrak Coach Installer* zip file and extract it.
- cd to extracted *Qualtrak Coach Installer* folder.
- Run *Qualtrak Coach Installer* setup by:

```
.\InstallerSetup.ps1
```

Full Installer

The Qualtrak Coach Full Installer.

2.1 Description

The Qualtrak Coach Installer installs:

- Coach Web Application.
- Recorder integration Web Service.
- Coach Scheduler Windows Service.
- Coach REST API (*Docs and Wrapper*)[Optional].

Warning: Please make sure to backup all your data before running *Qualtrak Coach Installer* to make sure of no data loss!

2.2 Usage

Note: Use `config.ps1` to set up *Coach Full Installer* to meet desired needs.

- Get Help for *Qualtrak Coach Installer* Cmdlet `Install-CoachFull`

```
Get-Help Install-CoachFull -Full
Install-CoachFull -?
```

- Run `Install-CoachFull` to install *Coach*. See “*Examples*” for more info or usage.

2.3 Examples

Note:

- See more info about `Coach-Install-Full` parameters in “*Parameters*” section.
- Please use single quotes (‘’) around parameter values, double quotes (“”) values evaluate as *Powershell* statement, so it can have undesired effect!

- Minimal command with usage of required parameter DbPasswd. If omitted, user will be prompted to enter manually:

```
Coach-Install-Full -DbPasswd '$ecReT'
```

Full example with all parameters. Note that -SysPasswd is only needed for first-install of Coach.:

```
Coach-Install-Full -DbSrv 'srv\ins' -DbUsr 'admin' -DbPasswd '$ecReT' -RecorderIP '10.0.0.1' -SysPas
```

2.4 Parameters

Note: Please use single quotes (‘’) around parameter values, double quotes (“”) values evaluate as *Powershell* statement, so it can have undesired effect!

2.4.1 DbSrv

- Specifies the *SQL Server* database serverinstance.
- General default value can be changed in `config.ps1` for property `$dbInstanceName` it is by default set to `.\SQLEXPRESS`.

Note:

- DbSrv parameter **will always override** `config.ps1` property `$dbInstanceName`!
 - If you want to use general default value use `config.ps1` property `$dbInstanceName`, if it is changeable use this DbSrv Parameter.
-

2.4.2 DbUsr

- Specifies the *SQL Server* database serverinstance user login name.
- This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
- General default value can be changed in `config.ps1` for property `$dbLoginName` it is by default set to `$null`.

Note:

- DbUsr parameter **will always override** `config.ps1` property `$dbLoginName`!
 - If you want to use general default value use `config.ps1` property `$dbLoginName`, if it is changeable use this DbUsr Parameter.
-

2.4.3 DbPasswd

- Specifies the *SQL Server* database serverinstance password.
- This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
- **Required.**

Note:

- If not specified will stop script and wait for DbPasswd enter manually in prompt!
 - If DbPasswd value is whitespace it will terminate the script!
-

2.4.4 RecorderIP

- Specifies the Recorder IP address with any valid IP Address or DNS name.
- General default value can be changed in `config.ps1` for property `$recorderIpAddress` it is by default set to `localhost`.

Note:

- If RecorderIP parameter **will always override** `config.ps1` property `$recorderIpAddress`!
 - If you want to use general default value use `config.ps1` property `$recorderIpAddress`, if it is changeable use this RecorderIP Parameter.
-

2.4.5 SysPasswd

- Specifies the Coach System Administrator password.
- It is **required** on *Coach* first-install.

Note:

- If not specified on *Coach* first-install it will stop script and wait for SysPasswd enter manually in prompt!
 - If SysPasswd value is empty or whitespace it will terminate the script!
 - If used on *Coach* release update will display warning, because in that case SysPasswd will be completely ignored by install.
-

App Installer

The Qualtrak Coach App Installer.

3.1 Description

The Qualtrak Coach App Installer installs:

- Coach Web Application.
- Recorder integration Web Service.
- Coach REST API (*Docs and Wrapper*)[Optional].

3.2 Usage

Note: Use `config.app.ps1` to set up *Coach App Installer* to meet desired needs.

- Get Help for *Qualtrak Coach App Installer* Cmdlet `Install-CoachApp`
`Get-Help Install-CoachApp -Full` `Install-CoachApp -?`
- Run `Install-CoachApp` to install *Coach*. See “*Examples*” for more info or usage.

3.3 Examples

```
Install-CoachApp
```

Scheduler Installer

The Qualtrak Coach Scheduler Installer.

4.1 Description

The Qualtrak Coach Scheduler Installer installs:

- Coach Scheduler Windows Service
- Coach Scheduler Console app.

4.2 Usage

Note: Use `config.scheduler.ps1` to set up *Coach Scheduler Installer* to meet desired needs.

- Get Help for *Qualtrak Coach Scheduler Installer* Cmdlet `Install-CoachScheduler`
`Get-Help Install-CoachScheduler -Full` `Install-CoachScheduler -?`
- Run `Install-CoachScheduler` to install *Coach*. See “*Examples*” for more info or usage.

Examples

| |
|-----------------------------------|
| <code>Install-CoachService</code> |
|-----------------------------------|

Database Installer

The Qualtrak Coach Database Installer.

5.1 Description

The Qualtrak Coach Database Installer installs:

- Coach Database.

5.2 Usage

Note: Use `config.db.ps1` to set up *Coach Database Installer* to meet desired needs.

- Get Help for *Qualtrak Coach Database Installer* Cmdlet `Install-CoachDb`

```
Get-Help Install-CoachDb -Full
Install-CoachDb -?
```

- Run `Install-CoachDb` to install *Coach*. See “*Examples*” for more info or usage.

5.3 Examples

Note:

- See more info about `Install-CoachDb` parameters in “*Parameters*” section.
- Please use single quotes (‘’) around parameter values, double quotes (“”) values evaluate as *Powershell* statement, so it can have undesired effect!

- Minimal command with usage of required parameter `DbPasswd`. If omitted, user will be prompted to enter manually:

```
Install-CoachDb -DbPasswd '$ecReT'
```

- Full example with all parameters. Note that `-SysPasswd` is only needed for first-install of *Coach*:

```
Install-CoachDb -DbSrv 'srv\ins' -DbUsr 'admin' -DbPasswd '$ecReT' -RecorderIP '10.0.0.1' -SysPasswd
```

5.4 Parameters

Note: Please use single quotes (') around parameter values, double quotes (") values evaluate as *Powershell* statement, so it can have undesired effect!

5.4.1 DbSrv

- Specifies the *SQL Server* database serverinstance.
 - General default value can be changed in `config.db.ps1` for property `$dbInstanceName` it is by default set to `.\SQLEXPRESS`.
-

Note:

- `DbSrv` parameter **will always override** `config.db.ps1` property `$dbInstanceName`!
 - If you want to use general default value use `config.db.ps1` property `$dbInstanceName`, if it is changeable use this `DbSrv` Parameter.
-

5.4.2 DbUsr

- Specifies the *SQL Server* database serverinstance user login name.
 - This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
 - General default value can be changed in `config.ps1` for property `$dbLoginName` it is by default set to `$null`.
-

Note:

- `DbUsr` parameter **will always override** `config.db.ps1` property `$dbLoginName`!
 - If you want to use general default value use `config.db.ps1` property `$dbLoginName`, if it is changeable use this `DbUsr` Parameter.
-

5.4.3 DbPasswd

- Specifies the *SQL Server* database serverinstance password.
 - This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
 - **Required.**
-

Note:

- If not specified will stop script and wait for DbPasswd enter manually in prompt!
 - If DbPasswd value is whitespace it will terminate the script!
-
-

5.4.4 RecorderIP

- Specifies the Recorder IP address with any valid IP Address or DNS name.
 - General default value can be changed in `config.ps1` for property `$recorderIpAddress` it is by default set to `localhost`.
-

Note:

- If RecorderIP parameter **will always override** `config.ps1` property `$recorderIpAddress`!
 - If you want to use general default value use `config.ps1` property `$recorderIpAddress`, if it is changeable use this RecorderIP Parameter.
-

Uninstaller

The Qualtrak Coach Uninstaller.

6.1 Description

The update to new release and full *Coach Uninstaller*:

- *Update to new release* uninstaller removes only *Coach* files and binaries, needed to be cleaned up for newer release.
- *Full* uninstaller removes *Coach* completely from the system.

6.2 Usage

- Get Help for *Qualtrak Coach Installer Cmdlet* `Coach-Uninstall`

```
Get-Help Coach-Uninstall -Full  
Coach-Uninstall -?
```

- Run `Uninstall-Coach` to uninstall *Coach*. See “*Examples*” for more info or usage.

6.3 Examples

- Minimal usage, used for update to new release version, removes files and Coach binaries, safe to use:

```
Coach-Uninstall
```

- Minimal usage for full uninstall, used for complete remove of Coach from system, **beware of losing data**, unsafe to use.

```
Coach-Uninstall -Full -DbPasswd '$ecReT'
```

- Full usage of uninstaller parameters, used for complete remove of Coach from system, **beware of losing data**, unsafe to use:

```
Coach-Uninstall -Full -DbSrv 'srv\ins' -DbUsr 'admin' -DbPasswd '$ecReT'
```

6.4 Parameters

Note:

- Please use single quotes (‘’) around parameter values, double quotes (“”) values evaluate as *Powershell* statement, so it can have undesired effect!
-

6.4.1 Full

- The full uninstall of Coach.

Warning:

- Beware, using this parameter will erase all your Coach data
-

Note:

- Removes *Coach Scheduler* Win Service.
 - Removes *IIS Web* applications.
 - Drops the *Coach* Database.
 - Remove all *Coach* files from disk.
-

6.4.2 DbSrv

- Specifies the *SQL Server* database serverinstance.
 - General default value can be changed in `config.ps1` for property `$dbInstanceName` it is by default set to `.\SQLEXPRESS`.
-

Note:

- Applicable only when `Full` parameter is used.
 - `DbSrv` parameter **will always override** `config.ps1` property `$dbInstanceName`!
 - If you want to use general default value use `config.ps1` property `$dbInstanceName`, if it is changeable use this `DbSrv` Parameter.
-

6.4.3 DbUsr

- Specifies the *SQL Server* database serverinstance user login name.
 - This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
 - General default value can be changed in `config.ps1` for property `$dbLoginName` it is by default set to `$null`.
-

Note:

- Applicable only when `Full` parameter is used.
 - `DbUsr` parameter **will always override** `config.ps1` property `$dbLoginName`!
 - If you want to use general default value use `config.ps1` property `$dbLoginName`, if it is changeable use this `DbUsr` Parameter.
-

6.4.4 DbPasswd

- Specifies the *SQL Server* database serverinstance password.
 - This value is not **persisted or saved** in any way, it is **only** for lifetime of installation session.
 - **Required** when parameter `Full` is used.
-

Note:

- Applicable only when `Full` parameter is used.
 - If not specified when `Full` parameter is used, it will stop script and wait for `DbPasswd` enter manually in prompt!
 - If `DbPasswd` value is whitespace it will terminate the script!
-

Config file properties

The *Coach Installer* now has a `config.ps1` file that can be customized to meet the needs of *Qualtrak* partners for easier and efficient *Coach* install process.

The properties in the `config.ps1` file should only be used where needed. Where they are not used, they will be ignored during the install.

Microsoft Powershell coding notation is used for editing the `config.ps1` script file.

7.1 General

General *Coach Installer* properties.

7.1.1 Install Path

The install path for *Coach Installer*. Some development work outstanding so please do not change *Default Value*!

Property Name

| |
|----------------------------|
| <code>\$installPath</code> |
|----------------------------|

Value

Single quoted string with standard *Windows* path notation e.g. `c:\.`

Default Value

Depending on system type:

- `'C:\Program Files' [x86]`
 - `'C:\Program Files (x86)' [x64]`
-

7.1.2 SSL

Whether *SSL* should be enabled or not.

Property Name

| |
|----------------------|
| <code>\$isSSL</code> |
|----------------------|

Value

Boolean value: `$true` or `$false`.

Default Value

`$true`

7.1.3 Coach System Administrator Username

Sets the *Coach* System Administrator username. This is only required for a first-time installation. Where *Coach* is being upgraded the *System Administrator Username* value will be ignored.

Property Name

| |
|---------------------------------|
| <code>\$sysAdminUsername</code> |
|---------------------------------|

Value

Single quoted string.

Default Value

`'sys.admin'`

7.1.4 Scheduler Trigger Time

The time of day that the *Coach Scheduler Service* will run. Accepts 24 hour clock time.

Property Name

| |
|-------------------------------------|
| <code>\$schedulerTriggerTime</code> |
|-------------------------------------|

Value

Single quoted string that represents time form `'00:00'` to `'23:59'`. Please make sure to use leading zero time format e.g. `01:30!`

Default Value

`'02:00'`

7.1.5 Install Instrumentation

Whether *Coach Instrumentation* will be installed. Don't use *Coach Instrumentation* property in `config.ps1`, if it is not needed!

Property Name

| |
|---------------------------------------|
| <code>\$installInstrumentation</code> |
|---------------------------------------|

Value

Boolean value: `$true` or `$false`.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.2 IIS

Internet Information Services (IIS) specific properties.

7.2.1 Application Pool Name

The name of IIS Application Pool that *Coach* will be added to.

Property Name

| |
|----------------------------|
| <code>\$appPoolName</code> |
|----------------------------|

Value

Single quoted string.

Default Value

`'ASP.NET 4.0'`

7.2.2 IIS Web Site Name

The IIS Web Site Name that *Coach* Web Application will be part of.

Property Name

| |
|-------------------------------|
| <code>\$iisWebSiteName</code> |
|-------------------------------|

Value

Single quoted string.

Default Value

`'Default Web Site'`

7.2.3 Web Application Name

The *Coach* Web Application Name, that will be then used for main *Coach* URL, e.g. if name is set to “test”, URL will be: `https://example.com/test`. This can be left as *Default Value* *Coach* but can be modified to fit with branding requirements.

Property Name

`$appName`

Value

Single quoted string.

Default Value

Coach

7.3 Database

The *Coach* SQL Server Database properties.

7.3.1 Database Instance Name

The SQL Server Database Instance or Server name for where *Coach* database will be installed. Use this property if the Instance name is not changing, but if the Instance name does need to be changed then use *Qualtrak Coach Installer* parameter `-DbSrv` with instance/server name.

Property Name:

`$dbInstanceName`

Value

Single quoted string. Any valid SQL Server named instance or server name.

Default Value

. \SQLEXPRESS

7.3.2 Database Login Name (User)

The SQL Server Database Login name (Db User) needed for *Coach* database and scripts to run and install properly. The Login name must have `sysadmin` role in SQL Server *Server Roles*. Use this property if the same login name is used for all deployments, otherwise use *Qualtrak Coach Installer* parameter `-DbUser` with login name. This value is only persisted here in `config.ps1` as it is only needed for installation session. If persisting to `config.ps1` is a problem then use *Qualtrak Coach Installer* parameter `-DbUser` instead.

Property Name

| |
|----------------------------|
| <code>\$dbLoginName</code> |
|----------------------------|

Value

Single quoted string.

Default Value

sa

7.4 web.config

The ASP.NET `web.config` properties currently for `<appSettings>`, `<machineKey>` and `<authentication>`.

7.4.1 Authentication Route

Used to mark that *Coach* integration Authentication Route will be through a URL query string. It will add to the *Coach* `web.config` in `<appSettings>` element new setting with key `AuthenticationRoute` with value `url`. Don't use *Authentication Route* property in `config.ps1`, if it is not needed!

Property Name

| |
|------------------------------------|
| <code>\$authenticationRoute</code> |
|------------------------------------|

Value

Single quoted string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.4.2 Machine Validation Key

Sets the custom Machine Validation SHA1 Key to *Coach* `web.config` `<machineKey>` element. Don't use *Machine Validation Key* property in `config.ps1`, if it is not needed!

Property Name

| |
|-------------------------------------|
| <code>\$machineValidationKey</code> |
|-------------------------------------|

Value

Single quoted SHA1 string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.4.3 Machine Decryption Key

Sets the custom Machine Decryption AES Key to *Coach* `web.config` `<machineKey>` element. Don't use *Machine Validation Key* property in `config.ps1`, if it is not needed!

Property Name

| |
|-------------------------------------|
| <code>\$machineDecryptionKey</code> |
|-------------------------------------|

Value

Single quoted AES string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.4.4 Authentication Forms Name

Sets the custom Forms Name attribute to *Coach* `web.config` `<forms>` element. Don't use *Authentication Forms Name* property in `config.ps1`, if it is not needed!

Property Name

| |
|--------------------------|
| <code>\$formsName</code> |
|--------------------------|

Value

Single quoted string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.4.5 Authentication Forms Domain

Sets the custom Forms Domain attribute to *Coach* `web.config` `<forms>` element. Don't use *Authentication Forms Domain* property in `config.ps1`, if it is not needed!

Property Name

| |
|----------------------------|
| <code>\$formsDomain</code> |
|----------------------------|

Value

Single quoted string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.5 Windows Authentication

Enables Windows Authentication in *Coach*. If Windows Authentication is not needed don't include any of its properties in `config.ps1`.

7.5.1 Windows Authentication

Enables Windows Authentication in *Coach*. This also requires the *Active Directory Group Name* property to be set. Don't use *Windows Authentication* property in `config.ps1`, if it is not needed!

Property Name

| |
|------------------------------|
| <code>\$isWindowsAuth</code> |
|------------------------------|

Value

Boolean value: `$true` or `$false`.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.5.2 Active Directory Group Name

Sets the custom *Active Directory* group name. Don't use *Active Directory Group Name* property in `config.ps1`, if it is not needed!

Property Name

| |
|---|
| <code>\$activeDirectoryGroupName</code> |
|---|

Value

Single quoted string.

Default Value

Instead of default value don't use this property in `config.ps1`!

7.6 Recorder

Recorder specific properties for IP address and database connection details.

7.6.1 Recorder IP Address

The IP address of the Recorder that *Coach* will integrate with. Use this property if the same Recorder IP address is used for all deployments. If not, then use *Qualtrak Coach Installer* parameter `-RecorderIP` with valid IP address.

Property Name

| |
|----------------------------------|
| <code>\$recorderIpAddress</code> |
|----------------------------------|

Value

Single quoted string as valid IP address.

Default Value

`localhost`

7.6.2 Recorder Database Instance Name

The Database instance name that the Recorder uses for persisting recordings.

Property Name

| |
|-----------------------------------|
| <code>\$dbRecorderInstance</code> |
|-----------------------------------|

Value

Single quoted string.

Default Value

`'.\SQLEXPRESS'`

7.6.3 Recorder Database Login Name

The Database login (user) name that the Recorder uses for persisting recordings.

Property Name

| |
|------------------------------------|
| <code>\$dbRecorderLoginName</code> |
|------------------------------------|

Value

Single quoted string.

7.6.4 Recorder Database Login Password

The Database login (user) password that the Recorder uses for persisting recordings.

Property Name

| |
|---------------------------------|
| <code>\$dbRecorderPasswd</code> |
|---------------------------------|

Value

Single quoted string.

7.7 HA (High Availability)

HA specific properties currently for File sharing and Caching. Applicable only for Coach App Installer and its config file: `config.app.ps1`.

Those properties are included in `config.app.ps1`, but commented out by default.

To setup HA:

- **Fileshare:** it is required to set values for File share Username, Password and Path. If not, it will not be applied!
 - **Caching:** it is required to set values for Caching Mode, IP and Port. If not, it will not be applied!
-

7.7.1 File share Username

The File share username used for Coach attachments folder on server.

Property Name

| |
|----------------------------------|
| <code>\$fileShareUsername</code> |
|----------------------------------|

Value

Single quoted string.

7.7.2 File share Password

The File share password used for Coach attachments folder on server.

Property Name

| |
|----------------------------------|
| <code>\$fileSharePassword</code> |
|----------------------------------|

Value

Single quoted string.

7.7.3 File share Path

The File share path used for Coach attachments folder on server.

Property Name

| |
|------------------------------|
| <code>\$fileSharePath</code> |
|------------------------------|

Value

Single quoted string.

7.7.4 Caching Mode

The ASP.NET caching mode, currently only supported is *StateServer* in future there will be support for *SqlServer* caching mode.

Property Name

| |
|----------------------------|
| <code>\$cachingMode</code> |
|----------------------------|

Value

Single quoted string. Currently only supported is *StateServer*.

Default Value

`'StateServer'`

7.7.5 Caching IP

The ASP.NET caching IP address.

Property Name

| |
|--------------------------|
| <code>\$cachingIp</code> |
|--------------------------|

Value

Single quoted string. Valid IP address or DNS name.

7.7.6 Caching Port

The ASP.NET caching IP address Port.

Property Name

| |
|----------------------------|
| <code>\$cachingPort</code> |
|----------------------------|

Value

Integer value. Greater than zero (0).

Default Value

42424

Indices and tables

- `genindex`
- `modindex`
- `search`