On-Premises v6 Installation Guide

Computers: 14 Ite	n's									
Name	Status	Uptime	Stress Level	XenApp Server Load	XenApp Worker Group	XenApp Server Logon Mode	XenApp Load Evaluator	XenApp Zone Data Collector	User Sessiom	CPU
OUXEN65TS13	Ready	6 days, 21:09 h	Medium	1000)	Servers 11-18	AllowLogons	Custom LE	CUREN467501		
CUOLENI6STS14	Ready	19 days, 22:20	None	1943	Servers 11-18	AllowLogons	Custom LE	CUXEN65T514		M 56%
OUXEN65TS11	Ready	19 days, 22:20	liose	1273	Servers 11-18	AllowLogons	Custom LE	CUXEN657501		2%
DUXEN65TS10	Ready	19 days, 22:15	Medium	1100	Servers 2-10	AllowLogons	Default	CUXEN65T501	10	7%
OUXEN65TS03	Ready	19 days, 22:21	lipre	1000	Servers 2-10	AllowLogons	Default	CUREN657501	10	
OUXEN65T512	Ready	19 days, 22:20	lione	952	Servers 11-18	AllowLogons	Custom LE	CUXEN657501	R-al	6%
OUNEN65TSOB	Ready	22:14 hours	Meson	111111111	Servers 2-10	AllowLogons	Default	CUXIN657501	-	
CUNDRESTS02	Ready.	19 (6) 22 15			Servers 2-30	AllewLogona	Default	000034657501		-



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ControlUp's On Premises Server Installation Wizard

Before launching the ControlUp's On-Premises installation program, ensure all prerequisites described in ControlUp's On-Premises Prerequisites document are met. Once ready, please run the ControlUp On-Premises installation program with administrative privileges (Run as Administrator).

ControlUp On-Premises Server's prerequisites

<image><image><section-header><section-header><text><text><text><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

Figure 1: make sure the prerequirements are met before the installation.





Figure 2: Please accept and click Next



Configure a License

control		_ ×
Configure a	License	
If you have not yet requ Continue to generate a license file. Request a license with 	vested a license for this installation, please fill i license request. Otherwise, select the second th the following details	n the details below and click option to browse for an existing
First Name:	1	
Last Name:		
Email:		
Organization:		
 Browse for an existi 	ng license file	
Back		Continue

Figure 3: Request or import the ControlUp On-Premises License xml file. To request a license please type your name, email address, and the ControlUp Organization name you are going to use and click Next.

License Request



Figure 4: The wizard notifies the user a license file will be saved



save.	As			x
(a) → ↑ 1 → This PC → Local Disk (C:) → Users → avnerf → Disk	esktop v C	Search Desktop		9
Organize 🔻 New folder				0
Source Name	Date modified Type	Size		
jii System Volur	o items match your search.			
Users				
Administration All Users				
iii avnerf ≡				
AppData				
F Contacts				
Cookies Desktop				
Documer 🗸				
File name: ControlUp Server License Request.xml				~
Save as type: XML Files (*.xml)				~
Hide Folders		Save	Cancel	

Figure 5: The license request should be saved and sent via email to support@controlup.com



Select a License File



Figure 6: Import the license xml file received from ControlUp



Features to Install



Figure 7: Description of ControlUp On-Premise Server components. ControlUp On-Premises Installation adds the IIS and LDS roles to the server and adds two services, ControlUp LDS Service and ControlUp Incidents Service



Selecting the Path



Figure 8: Select the destination path for the program



ControlUp On-Premises Service Account

control		_ ×
ControlUp S Please select an existin account will be grante	Service Account ng Active Directory account for the ControlUp On-Premises Server servic ed the "Log On as a Service" privilege on this computer.	e. This
User:	Browse	
Password:		
Please ensure that youassignment.	ur domain's Group Policy does not override the "Log On as a Service" security right	
Back	Cor	ntinue

Figure 9: Select the AD account which will be used to run the ControlUp Service and as the identity for the IIS Application Pools.



ControlUp Database

control		_ ×
ControlUp D	atabase	
Please provide the deta you click Continue, the database objects and c	ails below to enable ControlUp to store inciden installation wizard will generate a SQL script v onfigurations.	ts data in a SQL database. After which will create all the necessary
SQL Server:		Port: 1433 💌
Database:	ControlUpDB]
 Use Windows Integr 	rated Authentication O Use SQL Authentica	tion
User:	V6ONPREM\onpremII5	Browse
Password:	•••••]
Please ensure that youassignment.	r domain's Group Policy does not override the "Log C	on as a Service" security right
Back		Continue

Figure 10: Select the SQL server (and instance if exists), define the port, and select the user authentication.

ControlUp On-Premises Database Script



Figure 11: The wizard notifies the user that a SQL script will be created which contains the details entered in the previous step.



## Save	As			x
🍥 🐵 🦿 🗎 ► This PC ➤ Local Disk (C:) ➤ Users ➤ avnerf ➤	Desktop 🗸 🖒	Search Desktop		٩
Organize 🔻 New folder			•=== •	0
source A Name	Date modified Type	Size		
System Volur	No items match your search.			
Users				
🕌 Administra 🔊 All Users				
avnerf =				
🥌 AppData				
E Contacts				
Cookies Desktop				
Documer v				
File name: ControlUpSetup.sql				~
Save as type: SQL Script Files (*.sql)				~
) Hide Folders		Save	Cancel	

Figure 12: Select the location to save the SQL script. The script should be executed on the SQL server in order to create the Incidents database. If the database is not created the ControlUp console will work but no incidents will be presented in the incidents pane.



ControlUp DataBase Creation

This script which was created in the previous step, creates a SQL database named "ControlUpDB". To run this script, paste it in a SQL Query window and execute it. Prior to running the script please verify that the "master" database is selected.

Note: If you do not have a connection to the database, the ControlUp Incidents Pane will be offline and the Monitor will not work with error "Master service is disconnected"







Figure 14: After the script finishes, make sure the above message is presented and ControlUp database was successfully created. In case you receive a different message, please update us at support@controlup.com, before continuing with the installation.



Insights On-Premises Configuration



Figure 15: Set the Insights On-Premises Server name and UNC path for the Activity Files Folder. Be aware of the IOPS and disc space in the prerequisites guide. These files are not removed by default, you can move 1 day old files aside and zip them as a backup for your Insights data. Please give modify permissions to the primary AD account, which is defined in the Identity of the Monitor Settings, on the shared folder of the activity files. (For more details click here)



Mail Server Settings

control		_ ×
Mail Server S	Settings MTP server details for alerts and notifications so	ent using ControlUp
SMTP Server:		Port: 25 💌
Sender:		
Connect Anonymou	isly	
User:		Browse
Password:		
	Test	
Back		Skip

Figure 16: Select the local SMTP server which will be used for sending Incidents Triggers Alerts



ControlUp Authorized Users



Figure 17: please select the global group you created for the Console users



Configuration File

control	_	×
Configuration If you are already using import your existing co \ControUp\Configuration You may skip this step	ControlUp and have configured folders and managed computers, you may onfiguration. The configuration file, if applicable, is in your "%appdata% on" folder. The file's extension is *.v3.xml. and start with a blank configuration.	
File path:	Browse	
Back	Skip	

Figure 18: Select the configuration file, if exists, in order to import your current ControlUp configuration (does not support import of other organization's configuration)



Review Installation Details

control

Review Installation Details

Click Install to begin the installation process. You may go back and change any configuration item before proceeding.

License File	C:\Users\avnerf\Desktop\V6onpremLic.xml		
Features	ControlUp On-Premises Server		
	Incident Services and Script-Based Actions	≡	
Installation Folder	C:\Program Files\Smart-X\ControlUp Server		
ControlUp Service Account	V6ONPREM\onpremIIS		
SQL Server	10.1.82.101\v6onprem		
SQL Credentials	V6ONPREM\onpremII5		
SMTP Server	Not Configured	~	

Back

Figure 19: Review installation details



 $- \times$

Install

ControlUp On-Premises Installation Progress



Figure 20: ControlUp On-Premise Installation Progress bar



Installation Complete







2. Adding Script Based Actions

Until now script based actions were available only for the online customers, now you can import it to your data base and enjoy all community scripts. If you do not import the SBAs, you will receive an error in the console once you launch it. This is a temporary solution, we will implement the SBAs in the server installation wizard in future release.

In order to import the script -

- 1. Save the importData.sql script on your SQL server (the script is stored in the "Import SBA DB" folder)
- 2. Run it in SQL studio and make sure to define the correct path of the data base backup file (sbadata.bak) and path log.



Figure 22: Import Script Based Actions

3. Once the script finished you will find the scripts in the ControlUp Console under Organizational Scripts in the Script Based Actions



3. Upgrading from v4.1

If you are a v4.1 user, please follow these guidelines before you start.

Please verify that your current v4.1 on-premises server was installed originally by MSI package and not by PowerShell scripts.

To verify MSI package was used, please open the Programs and Updates on the on-premises server, and see if ControlUp Server version 1.0.0 appears in the programs list.

Organize 🔻						
lame 🔺 🔤	Publisher	+ Install +	Size 🗸	Version	-	
AD LDS Instance ControlUp-LDS	Microsoft Corporation	09.03.2016	8.1		10 - 21	
Citrix XenDesktop 7.6	Citrix Systems, Inc.	27.02.2016		7.6.0.5026		
ControlUp	Smart-X	09.03.2016		4.1.4.508		
ControlUp	Smart-X	09.03,2016		4.1.4.508		
ControlUp Agent	Smart-X LTD.	10.03.2016		10309/33255-0040		
ControlUp Server	Smart-X	09.03.2016	184 MB	1.0.0		
Microsoft .NET Framework 4, 5, 1	Microsoft Corporation	09.03.2016	38,8 MB	4.5.50938		
😺 Microsoft Silverlight	Microsoft Corporation	27.02.2016	50,7 MB	5.1.41212.0		
Microsoft Visual C++ 2008 Redistributable - x64 9	Microsoft Corporation	27.02.2016	240 KB	9.0.30729.4148		
Microsoft Visual C++ 2008 Redistributable - x64 9	Microsoft Corporation	24.05.2015	788 KB	9.0.30729.6161		
Microsoft Visual C++ 2008 Redistributable - x86 9	Microsoft Corporation	24.05.2015	596 KB	9.0.30729.4148		
Microsoft Visual C++ 2008 Redistributable - x86 9	Microsoft Corporation	27.02.2016	600 KB	9.0.30729.6161		
visionapp Installation Control Service	ASG GmbH & Co. KG	27.02.2016		8.1.4652.1		
sisionapp Service Update Service	ASG GmbH & Co. KG	27.02.2016		8,1.4651.0		
VMware Tools	VMware, Inc.	09.03.2016	85,1 MB	10.0.5.3228253		

If it does, continue with the upgrade process as described below, if not:

- 1. The upgrade of the On-Premises server application is not supported and you need to create a new On-Premises Server according to the prerequisites (new VM) and then install the On-Premises application according to the procedure above.
- 2. If you like to keep the previous configuration (e.g folder structure), follow the instructions in page 14.
- 3. From the older environment please remove the monitor and all agents
- 4. After you finish installing the new On-Premises application, you should update the SQL data base, in the installation package, use the Upgrade DB Script.
- 5. Import the SBA database according to the upgrade process described below.



4. The Upgrade Process

To upgrade existing version of on-premises server, please follow these steps:

1. Run the latest v6 installer as administrator. The latest installer can be found <u>here</u>.

control	_ ×
ControlUp On-Premises Server	
This wizard will upgrade ControlUp Server to the latest version.	
"Quick Upgrade" will require you to enter the minimal inputs needed to proceed with the upg "Upgrade and Change Settings" will walk you through the entire installation process and allov adjust the current settings.	rade. v you to
오 Quick Upgrade	
Upgrade and Change Settings	ntinue

Figure 23: Once you launch the installer as administrator choose to upgrade



Validate ControlUp Service Account

control		_ ×
ControlUp S Please select an existin account will be granted	ervice Account og Active Directory account for the ControlUp C d the "Log On as a Service" privilege on this cor)n-Premises Server service. This nputer.
User:	DCV50\IISUser	Browse
Password:	•••••)
Please ensure that youassignment.	r domain's Group Policy does not override the "Log C	n as a Service" security right
Back		Continue

Figure 24: Make sure the user account is correct and click Continue



control		_ ×
ControlUp D	Database	
Please provide the det you click Continue, the database objects and c	ails below to enable ControlUp to store inciden installation wizard will generate a SQL script v configurations.	ts data in a SQL database. After vhich will create all the necessary
SQL Server:	SQLSRV	Port: 1433
Database:	ControlUpDB	
C Use Windows Integr	ated Authentication 🛛 🗘 Use SQL Authenticatio	on
User:	DCV50\avnerf	Browse
Password:	•••••]
Please ensure that youassignment.	ur domain's Group Policy does not override the "Log O	n as a Service" security right
Back		Continue

Figure 25: Make sure the details are correct and click Continue

Generate SQL Script



Figure 26: Click OK to export SQL script



Save the SQL Script

Please make sure to execute the script on the ControlUp database in order to update it.



You have to update the ControlUp data base before launching the console.

Figure 27: Save the Script to the SQL server and run it on ControlUp DB to update it



Insights On-Premises Configuration

control				_ × _
Insights On- Set the Insights On-Pr	Premises Configuration emises Server name and a UNC path for the Ac	tivity Files	folder.	
Insights Server:	T2008R2.DCV5.local	Port:	8000 🗘	
Activity Files share:	\\T2008R2\Activity Files			
The path must be a va	lid UNC path. A path to a local directory is not valid.			
Back				Next

Figure 28: Set the Insights On-Premises Server name and UNC path for the Activity Files Folder. **Please give modify permissions to the Network Service account (which runs the ControlUp Monitor service) on the shared folder of the activity files.**



Upgrade the Server



Figure 29: Choose to upgrade



Upgrade Process



Figure 30: Upgrade Process



Upgrade Finished



Figure 31: Upgrade finished successfully



Adding Script Based Actions for customers upgrading from v4 (v5 upgrade skip this step)

Until now script based actions were available only for the online customers, now you can import it to your data base and enjoy all community scripts. If you do not import the SBAs, you will receive an error in the console once you launch it. This is a temporary solution, we will implement the SBAs in the server installation wizard in future release.

In order to import the script -

- 4. Save the importData.sql script on your SQL server (the script is stored in the "Import SBA DB" folder)
- 5. Run it in SQL studio and make sure to define the correct path of the data base backup file (sbadata.bak) and path log.



Figure 32: Import Script Based Actions

6. Once the script finished you will find the scripts in the ControlUp Console under Community Scripts in the Script Based Actions



Installing the ControlUp On-Premises Insights

ControlUp Insights is an analytics and reporting solution that enables system administrators to analyze and research historical activity on their virtualization hosts, guest VMs, physical servers and desktops. ControlUp Insights collects, stores, and presents reports on data from the following major domains :

- Resource utilization metrics (e.g. CPU, RAM, I/O, disk space, network bandwidth)
- Performance and User Experience metrics (e.g. storage latency, network protocol latency, logon duration)
- Process Activity

 (e.g. process start and end events, process performance and resource consumption)
- User activity metadata (e.g. username, logon/logoff time, user session state transitions, application launches and terminations)

In order to improve visibility and control over IT assets, ControlUp Insights also correlates data from the above domains. For example, virtualization host performance bottleneck that occurred in the past may be analyzed in depth by drilling into irregular guest VM activity and perhaps even deeper into the activity of individual applications or background processes inside that VM that might have contributed to the resource shortage.



ControlUp On-Premises Insights Prerequisites



Figure 33: Insights prerequisites explained







Selecting the Path



Figure 35: Select the destination path for the program



Insights Activity Files Configuration

		_ ×
Insights On- Enter the UNC path of Premises Server:	Premises Configuration the ControlUp Monitor Activity Files share con	figured with ControlUp On-
Activity Files share:	\\V6ONPREMSRV1\ActivityFiles]
The path must be a va	alid UNC path. A path to a local directory is not valid.	
Back		Install
F '		

Figure 36: Select the destination path of the activity files share. Please verify that Network Service account has modify permissions on this folder, otherwise files will not be created.



ControlUp On-Premises Insights Installation Progress



Figure 37: ControlUp On-Premise Insights Installation Progress bar



Installation Complete



The installation is now complete

Please open your web browser to http://localhost:8000 to sign into ControlUp Insights On-Premises

Close

 $- \times$

Figure 38: Summary of the installation which finished successfully.



Installing the ControlUp On-Premises Console

After completing the ControlUp On-Premises Server installation, you should install the console. The ControlUp On-Premises console supports the following platforms:

- Windows Server 2012 and 2012 R2
- Windows Server 2008 and 2008 R2
- Windows 10
- Windows 8 and Windows 8.1
- Windows 7



Figure 39: First screen of ControlUp On-Premises console wizard, click Next.



End-User License Agreement for the Console

閿	ControlUp Setup	x
E	ind-User License Agreement Please read the following license agreement carefully	6
	End User License Agreement	^
	IMPORTANT - READ CAREFULLY BEFORE DOWNLOADING, INSTALLING OR USING THE SOFTWARE (THE "SOFTWARE").	
	This End-User License Agreement "Agreement") is a binding legal agreement between you ("Licensee") and Smart-X Software Solutions Ltd. (the "Company" or "Smart-X") which sets forth the	~
	I accept the terms in the License Agreement;	
	\bigcirc I <u>d</u> o not accept the terms in the License Agreement	
Adv	anced Installer	
	< <u>B</u> ack <u>N</u> ext > C	ancel

Figure 40: Accept the License Agreement



Installation Folder

i	ControlUp Setup	- 🗆 X
Select Insta This is the l	allation Folder folder where ControlUp will be installed.	6
To install in "Browse".	this folder, click "Next". To install to a different folder, enter it b	elow or click
<u>F</u> older:		
C:\Program	Files\Smart-X\ControlUp\	Browse
Advanced Install	er	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Figure 41: Select the path to the console's installation folder



Ready to Install the Console

虔	ControlUp Setup
	Ready to Install The Setup Wizard is ready to begin the ControlUp installation
	Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.
Ad	vanced Installer

Figure 42: Click install when ready



Progress of the ControlUp Console installation

1	ControlUp Setup	x
In	stalling ControlUp	6
	Please wait while the Setup Wizard installs ControlUp,This may take several minutes.	
	Status:	_
		_
Advan	ced Installer	
	< <u>B</u> ack <u>N</u> ext >	Cancel

Figure 43: Shows the progress of the installation



ControlUp On-Premises Console Wizard Complete



Figure 44: When ready, click Finish to complete the installation. Launching the Console after clicking the Finish button is optional.



Launching the ControlUp On-Premises Console



Figure 45: When you launch the Console for the first time, you will need to provide the ControlUp's On-Premises Server name or IP address. Do not use "Localhost", it will cause an issue when you try to add a Monitor.



ControlUp On-Premises Certificate

	Server Certificate Error	×
?	ControlUp encountered a certificate error while communicating with the server. The following SSL certificate was presented: Issued to: E=support@controlup.com, CN=ControlUp, OU=ControlUp, O=Smart-X Software Solutions LTD, L=Lod, S=Israel, C=IL Issued by: E=support@controlup.com, CN=ControlUp, OU=ControlUp, O=Smart-X Software Solutions LTD, L=Lod, S=Israel, C=IL Serial #: 00BB11AF509EF23529 You may be seeing this error because your network is configured to replace the default SSL certificate. Would you like to authorize secured communications with this server?	
	Remember my choice for this certificate	
	Yes <u>N</u> o	

Figure 46: During the first initialization of the Console you should accept the certificate. The certificate will be stored in the local certificate store on the ControlUp server





ControlUp's On-Premises Console Launched Successfully

Figure 47: First time you login to ControlUp's Console

Installation Completed Successfully, you are ready to start working.

For More information about configuring ControlUp Real Time Console and installing ControlUp Monitor, please refer to <u>Getting Started</u> section in our Support Center.



Adding a Monitor

ControlUp Monitor is a component principally equivalent to ControlUp Console, but without an interactive user interface. Once installed and started, ControlUp Monitor signs into your ControlUp organization and connects to your managed computers. The Monitor starts receiving system information and performance updates from your organization, and responsible to export that data to your Insights on-premises server

Main benefits of adding a Monitor:

ControlUp Monitor offers a number of benefits to admins who require continuous monitoring of their resources:

- 1. After a Monitor is installed in the organization, monitoring of resources is a continuous process, running 24/7 regardless of the presence of active ControlUp Consoles in the network. Multiple Monitor instances automatically provide mutual backup and high availability for monitoring.
- Monitors can be configured to alert ControlUp users about incidents that cannot be detected by ControlUp Console. For example, only the Monitor records "Computer Down" incidents, since detection of this incident requires continuous monitoring.
- 3. The Monitor is mandatory for exporting activity files for the Insights On-Premises

Adding a monitor can be done from the ControlUp Console -> Settings -> Monitor Settings -> Add Monitor.

For more information, how to add a monitor, please refer to these articles: <u>Add Monitor</u> and <u>The</u> <u>ControlUp Monitor</u>



Known Issues:

Allgemein Details

1. If .net framework 3.5 is not installed and the on-premises server has no internet connection the installation might fail. Please make sure to add the .net 3.5 feature.

2. In case of a non-English Locale OS, you may encounter the following error -

	rror during Report Incident for Org 29adaa36-78da-45ce-9195-eb735c0dd0aa, Incident state Created key 5f87c647-e92d-4527-83db-4dd7b474a989;66000366-5ce4
	rror during create incident in one transaction with following parameters:
l)rganizationId 29adaa36-78da-45ce-9195-eb735c0dd0aa IncidentId 10913 ListOfProperties <incidentproperties <="" computerid="" folderid="" th="" triggerid=""></incidentproperties>
1	ncidentId="" CategoryId="3" Manufacturer="VMware, Inc." Model="VMware Virtual Platform" OS="Windows Server 2008 R2 Datacenter " ServicePack="Service"
	ack 1" SystemType="x64" CPUCount="8" TotalMemoryInstalled="15031870000,0000" UptimeGroup="43579" SessionCountGroup="9" DomainRole="3"
	:ManagedComputer="True" NotManagedComputerName="04gB/TfneaIZxUEcKAdwug==" HostName="" HypervisorType="N/A" /> ListOfCounters
ŀ	:ArrayOfStressedCounterInfo xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
l	<stressedcounterinfo <="" crossedvalue="1" crosstimestamp="2015-09-28T14:07:16.4462187+02:00" formatedcrossedvalue="1" loadvalue="2" severity="3" td=""></stressedcounterinfo>
ŀ	counterName="QueueReadyCount" TableName="Computers" CounterDescription="WorkItem Queue Ready count" SettingsFolderGuid=""
ŀ	ecordFilter="Terminal Server" TotalWeight="2" CurrentValue="1" Value="1.00000000" />
ŀ	:/ArrayOfStressedCounterInfo>IncidentType ComputerStress
ŀ	ollbac transaction comleted successfully.
ŀ	ehler beim Konvertieren des nvarchar-Datentyps in numeric.

To resolve this issue, please update the following registry keys on each computer running the ControlUp Console and has a non-English Locale OS (under the service account supplied during the installation) –

Go to HKEY_Current_USER\Control Panel\International

Please change the following keys -

sDecimal from "," to "."

sList from "." to ","

sMonDecimalSep from "," to "."

sMonThousandSep from "." to ","

sThousand from "." to ","

