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How to Install ADISRA SmartView Runtime on Linux

ADISRA

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1. Scope

ADISRA SmartView Runtime is the server process responsible for PLC communications, Database connections, Service and Trigger execution, and other functions such as broadcasting data to the client interfaces (Viewer or the Web Clients) in a multithreaded environment.

2. Summary

This document provides an overview of the ADISRA SmartView Runtime on Linux. This feature is available from version 4.1.0.0 to the latest versions.

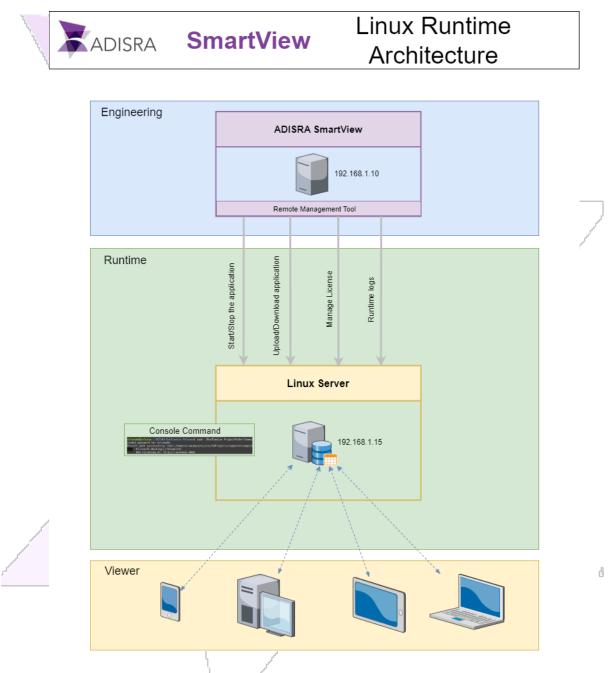
You will learn how to deploy, configure, and execute the ADISRA SmartView Runtime on multiple Linux distributions. In the following chapters you will learn the hardware requirements along with the procedures to install ADISRA SmartView Runtime on Linux distributions, license it, and execute applications using the remote management tool or via command line.

Note: Applications for the ADISRA SmartView Runtime are created in the ADISRA SmartView engineering environment. The ADISRA SmartView engineering environment is only available on Windows and not covered by this document.

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3. Architecture

Let's look at the architecture below before proceeding with the document.



The image above shows the 3 processes levels for ADISRA SmartView. The first block represents the Engineering environment which only runs on Windows operating systems. It has the Remote Management Tool that can be used to manage the ADISRA SmartView Runtime environment on Linux. The installation of ADISRA SmartView Runtime on Linux is

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an offline process and will be detailed in the following chapters. As soon as ADISRA SmartView Runtime is installed, and the Remote Management Tool Service is running, you can connect to it from the ADISRA SmartView Engineering environment to license the ADISRA SmartView Runtime, transfer applications, and start/stop the runtime process. The ADISRA SmartView Runtime can also be executed through the command line on the Linux environment, you will also learn how to do this later in this document. (see section 13.2)



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4. Hardware Requirements

The hardware requirements will vary depending on the complexity of the application. The ADISRA SmartView Runtime process has many responsibilities such as PLC communication, Database connections, Service and Trigger execution, and other functions such as broadcasting data to the client interfaces (Viewer or the Web Clients) in a multithreaded environment. The following requirements are recommendations from small to midapplications.

Processor (CPU):

Minimum:

- CPU: 1.44 GHz
- RAM: 4 GB
- Hard Disk (min): 8 GB

Recommended:

- CPU: 1.7 GHz
- RAM: 6 GB
- Hard Disk (min): 20 GB

Network:

• Ethernet or other network connectivity for communication with Remote Viewer, PLC or other servers and devices.

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5. Software Requirements

5.1. Operating System Compatibility

The ADISRA SmartView Runtime is designed to run on various Linux distributions, including but not limited to:

- Arch Linux (CLI)
- Elementary OS (GUI)
- Zorin OS (GUI)
- Lubuntu (GUI) Ubuntu-based
- Pop!_OS (GUI) Ubuntu-based
- Alpine Linux (CLI)
- Alpine Standard (CLI)
- Alpine Virt (CLI)
- CentOS (Both CLI and GUI)
- Debian (GUI)
- Linux Mint (GUI)
- Ubuntu Desktop (GUI)
- Ubuntu Server (CLI)

5.2. NET Runtime

The ADISRA SmartView Runtime for Linux has different builds for different architectures, and each build contains its relevant .net6 runtime dependencies. The highlighted runtime identifiers below illustrate the current available builds for ADISRA SmartView.

Linux RIDs

- linux-x64 (Most desktop distributions like CentOS, Debian, Fedora, Ubuntu, and derivatives)
- linux-musl-x64 (Lightweight distributions using <u>musl</u> like Alpine Linux)
- Iinux-musl-arm64 (Used to build Docker images for 64-bit Arm v8 and minimalistic base images)
- linux-arm (Linux distributions running on Arm like Raspbian on Raspberry Pi Model 2+)
- linux-arm64 (Linux distributions running on 64-bit Arm like Ubuntu Server 64-bit on Raspberry Pi Model 3+)
- linux-bionic-arm64 (Distributions using Android's bionic libc, for example, Termux)

ADISRA SmartView Runtime for Linux is a self-contained .net6 application, which means there is no need to install the .net6 on the Linux distribution, it will be already packed in the tarball provided by ADISRA, keeping the installation simple and platform specific.

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5.3. Web Server

For the ADISRA SmartView application to serve web pages (so users will have access to the interface through the web client), it is necessary to configure a web server that best suits your deployment. In this document you will learn how to configure Apache as the Web Server.

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6. Modules Available on Linux Runtime

This section provides an overview of the runtime's modules and functionalities that have been migrated to Linux, as well as those that remain unimplemented or not supported.

Modules Windows Linux V \checkmark Alarms Audit \checkmark \checkmark \checkmark Database \checkmark Drivers \checkmark \checkmark Language \checkmark Х \checkmark Recipe \checkmark Recipe [Smart Recipe] $\boldsymbol{\Lambda}$ X Redundancy X √ Remote Tools \checkmark X Reports \checkmark Security \checkmark \checkmark Services \checkmark \checkmark Simulation \checkmark \checkmark \checkmark d System Function Library \checkmark \checkmark Tag History Triggers Tunneling User Function Library X Viewer [Native] - Running on Linux \checkmark

6.1. Modules Migration Report

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Viewer [Remote] - Running on Windows	\checkmark	\checkmark
Viewer [Web] - Running on Browser	\checkmark	\checkmark

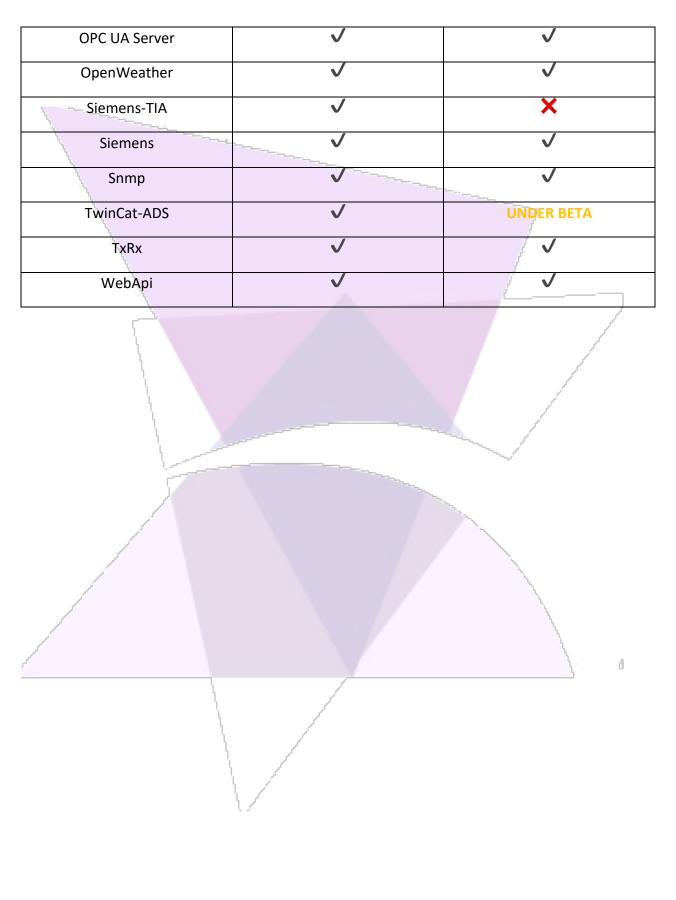
6.2. Database Migration Report

2		
Database	Windows	Linux
Microsoft Access Database File	\checkmark	/ ×
Microsoft ODBC Data Source	V	
Microsoft SQL Server	V	
Oracle Database	V	
PostgreSQL	\checkmark	

6.3. Drivers Migration Report

1			
Driver		Windows	Linux
Allen Bradley			
Bacnet		\checkmark	
Mitsubishi		\checkmark	UNDER BETA
Modbus-FC23			
Modbus		V	
Mqtt	l	~	\checkmark
Omron-CIP	Ì		UNDER BETA
Omron-FINS			UNDER BETA
OPC DA Client			×
OPC UA Client		\checkmark	✓ ✓

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7. Linux Distributions

This section provides an overview of the Linux Distribution and their respective ADISRA Distributions that have been adapted on Linux.

Linux Distribution	ADISRA Distribution
ArchLinux	RHEL
ElementaryOS	Debian
Lubuntu	Debian
РОР	Debian
Zorin	Debian
Alpine Extended	Alpine
Alpine Standard	Alpine
Alpine Virt	Alpine
CentOs	RHĘĽ
Debian	Debian
Linux Mint	Debian
Ubuntu Desktop	Debian
Ubuntu Live Server	Debian

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8. Installation Prerequisites

This topic provides information to ensure your system meets the necessary prerequisites before installation. If your project does not require web pages, you can skip the Apache installation.

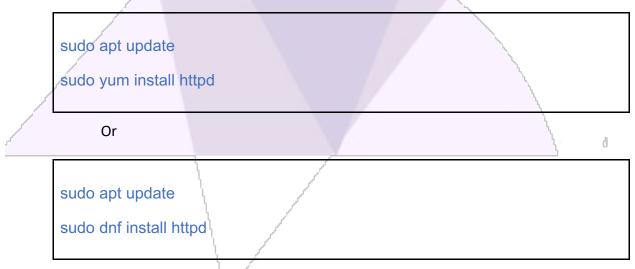
8.1. Apache installation and configuration

To use the Web Viewer to connect to the ADISRA SmartView Runtime on a Linux workstation, it's necessary to install and configure a web server. As an example, we will use the Apache2 Web Server.

To install Apache2 on Ubuntu/Debian Linux, open a terminal and type the following command:



To install Apache2 on CentOS/Fedora Linux, open a terminal and type the following command:



To install Apache2 on Alpine Linux, open a terminal and type the following command:

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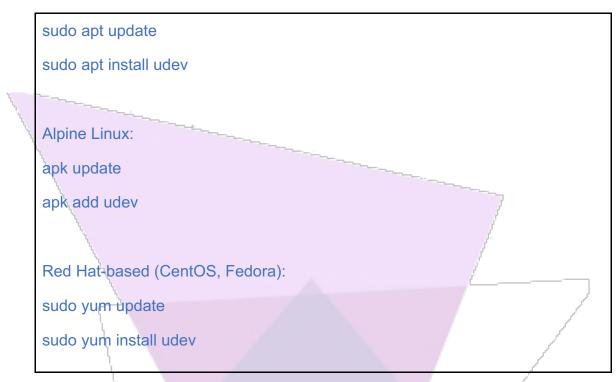
8.2. Dongle Library installation and configuration

If udev or systemd-udev is not already installed, the following commands will install the library necessary for enabling a hard key on Linux environments:

currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Debian-based (Debian, Ubuntu):

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If you will be using a softkey instead, you don't need to install udev.

8.3. Linux Alpine distribution - Missing package you need to install manually

While executing the ADISRA SmartView Runtime Linux on an Alpine distribution, you may notice issues related to the Alarms module. The problem is solved by installing a package, which, in other Linux distributions, seems to be already installed. Since Alpine is a lighter distribution, it was necessary to include it manually.

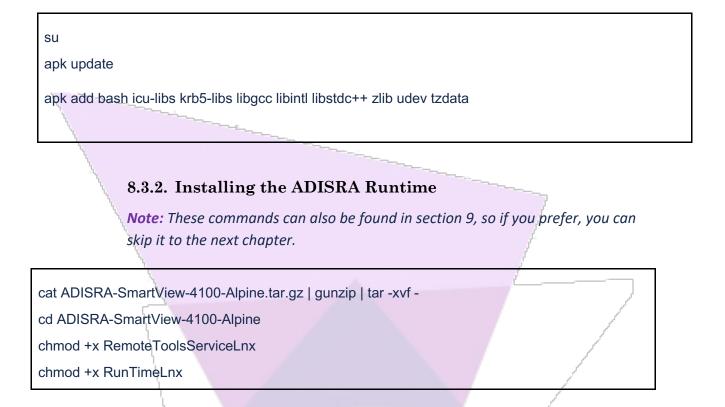
Package: tzdata

Therefore, please pay attention to the commands below (9.3.1):

8.3.1. Installing the prerequisites

Run the commands below to install the tzdata package.

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8.3.3. Running the ADISRA Remote Tools Service

Note: These commands can also be found in section 10, so if you prefer, you can skip it to the next chapter.

sudo ./RemoteToolsServiceLnx

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9. ADISRA SmartView Installation

Considering that not all production Linux hosts have access to the internet, the ADISRA SmartView Linux Runtime will be offered as a tarball (tar.gz) and a set of instructions, but it will be explained in the next chapter.

9.1. ADISRA SmartView Linux Runtime Deployment

Follow the steps below to install ADISRA SmartView Linux RunTime in a Linux target machine.

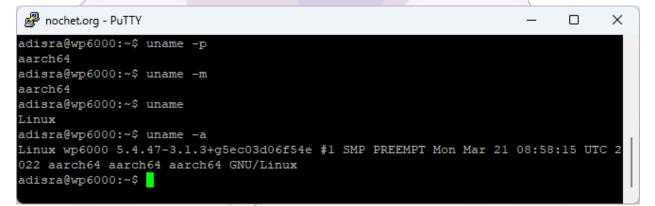
 Download the tarball (ADISRA-RunTimeLnx-Release.tar.gz) from the ADISRA Web site:

It is important to identify the correct architecture:

Before proceeding with the installation of the ADISRA Runtime, it's important to determine the architecture of the Linux operating system.

Note: The "arch" command is a good way to determine the host architecture.

The example below shows an ARM64 architecture Linux distribution. You can get the architecture by running the command "uname - a". It returns aarch64 (ARM64).



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Identifying the architecture (ARM64, X64), you are ready to download the correct ADISRA SmartView Linux Runtime and proceed with the installation. The download page also provides a different installer for the Alpine distribution.

2. Copy the tarball to the Linux environment

First let's define the installation folder "/home/svlnxadm/". You will need to review the commands below to make sure they match your paths and file name.

Make sure that the tarball is available in the Linux workstation. You need to download it from ADISRA SmartView download page as mentioned in the previous topic:

/home/svlnxadm/ADISRA-RunTimeLnx-Release.tar.gz

3. Unpack the tarball:

cd /home/svlnxadm

cat ADISRA-RunTimeLnx-Release.tar.gz | gunzip | tar -xvf -

4. Make sure that the following directory has been created:

Is -Id /home/svlnxadm/ADISRA-RunTimeLnx-Release

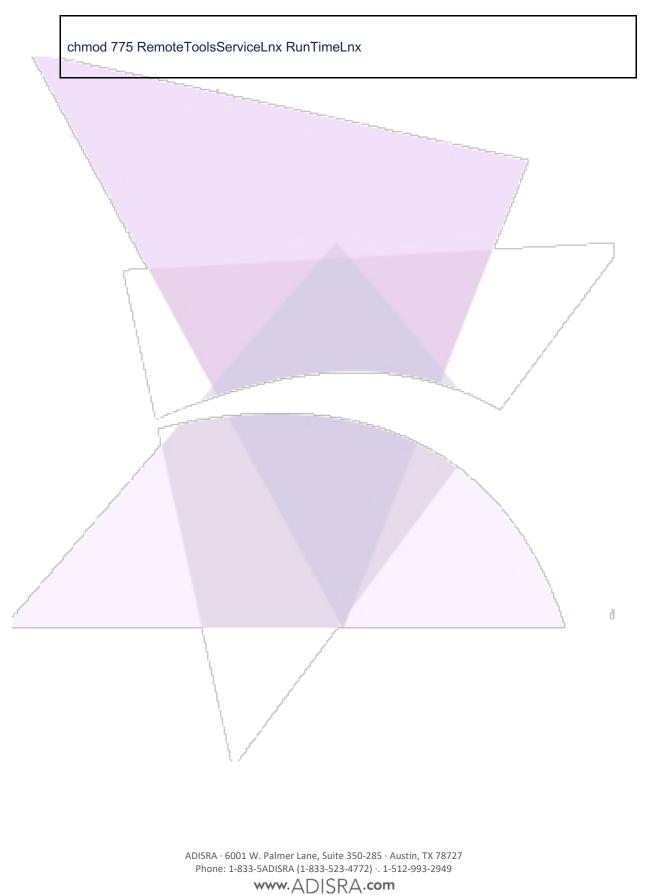
svlnxadm@svlnxvm:~\$ ls -ld /home/svlnxadm/ADISRA-RunTimeLnx-Release
drwxrwxr-x 19 svlnxadm svlnxadm 40960 Mar 25 09:48 /home/svlnxadm/ADISRA-RunTimeLnx-Release

5. Make sure that the following files have permission to be executed:

cd /home/svlnxadm/ADISRA-RunTimeLnx-Release Is -I RemoteToolsServiceLnx RunTimeLnx svlnxadm@svlnxvm:~/ADISRA-RunTimeLnx-Release\$ ls -l RemoteToolsServiceLnx RunTimeLnx -rwxrwxr-x 1 svlnxadm svlnxadm 142840 Mar 25 09:39 RemoteToolsServiceLnx -rwxrwxr-x 1 svlnxadm svlnxadm 142840 Mar 25 09:39 RunTimeLnx

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6. If they don't have permission to be executed, issue the following command:

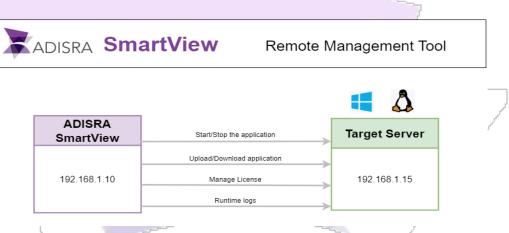


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10. Remote Management Tool

Now that ADISRA SmartView Linux Runtime and its prerequisites have been installed, it's time to execute it. But before that, let's review the Remote Management Tool (RMT). This tool is part of the ADISRA SmartView Engineering environment and allows the users to create a connection between two computers running ADISRA SmartView. The source computer must be a Windows machine, and the target machine can be Windows or Linux machine.



To create a connection, it is mandatory to execute a service in the Linux target machine called RemoteToolsServiceLnx. It opens a safe communication channel with the ADISRA SmartView Engineering environment. After the connection is created, you can transfer applications, start/stop them remotely, license the ADISRA SmartView on the Linux machine and some other functionalities.

10.1. Overview

1. Run the RemoteToolsServiceLnx on the Linux target machine

svlnxadm@svlnxvm:~/ADISRA-RunTimeLnx-Release\$ sudo ./RemoteToolsServiceLnx

2. Open ADISRA SmartView Engineering environment and locate the Remote Management Tool (Top Menu-> Settings-> Remote Management Tool)

● 🛛 🖳 🖳 🔍 🤊 🕐 🕑 😔 의 🔍 🕑 🗧								
Runtime Verify View Settings Security Search License T	gs							
Startup Graphic:	Resolution Use Scaling Modifier • Default: 1024 x 768 • Default: 640 x 480 Custom: 1024 w 768 • Custom: 0 w 0 H	Configure	Seneral OPC Servers	Number of Decimals *	Web * DataBase Connections	Notifications Tags Co	Remote Management Tool *	Redundan
Graphics	Resolutions	Date and Time						
							_	

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3. Add the target system IP address and the port number exposed in the RemoteToolsServiceLnx and click connect.

Target Pro	oject License Logs	
Target Stat		Connect Disconnect
Host		
Host:	192.168.20.23	Status:
Port:	9004	Connected
User:		Platform: ADISRA SmartView Version:4.1.0.0
Password	d:	Machine Name: fabio-VirtualBox
		Operating System Platform: Unix Operating System Version: Unix 6.8.0.35
la stall I a		User Name: root User Domain Name: fabio-VirtualBox
Install Log	gs	Version: 6.0.29
Path:		Get
	fter a connection is establ	lished, you will have access to different functionalitie
r		lished, you will have access to different functionalitie
รเ	uch as transfer applicatior	n, license management, remote logs, start/stop
sı ex	uch as transfer applicatior xecution of the remote ap	
sı ex	uch as transfer applicatior	n, license management, remote logs, start/stop
sı ex	uch as transfer applicatior xecution of the remote ap	n, license management, remote logs, start/stop oplication. Please refer to the next sections for more
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10.2. Target Tab

This is the initial tab, which allows the user to connect to a remote ADISRA SmartView system. As soon as it connects, the other tabs are enabled. At any point, if the Remote Management Tool window is closed, it closes the connection with the remote management tool service.

	anagement]	Taal						_	
🕏 Remote N	lanagement	1001							
Target Proj	ect License	Logs							
Target Static					Connect	Disconnect			
Host	102.160.201	22			Status:				
Host:	192.168.20.3	23			Connected				
Port:	9004								
User:					Platform:	artView Version:4	100		
Password:					Machine Na	me: fabio-Virtual	Box		
					Operating S Operating S	ystem Platform: U ystem Version: Ur	Jnix nix 6.8.0.35		
					User Name:	, root n Name: fabio-Vi			
Install Logs					Version: 6.0.		rtualbox		
Path:				Get					
			 					[Clos
									Clos
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10.3. Project Tab

To send the application to the target Linux machine, you will just need to select the target path and it will create a new folder containing the application. This tab also allows sending files and html pages to the target system. In the example below the target folder is used by Apache to serve the web pages.

rget Project License Logs		
pload (This PC -> Remote PC) Project Path Local: C:\Users\fabio\Documents\ADISRA SmartView\Den Target: /home/fabio Run Stop Shortcut Upload	Download (Remote PC -> This PC) Project Path Target: Local:	 Download
Files Target: Send /eb arget Folder:	Files Local:	Get
var/www/html/Demo_OpenWeather_4040 elect the Graphics application folder or a specific graphic: C:\Users\fabio\Documents\ADISRA SmartVi Save Html		

system.

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10.4. License Tab

You will use this tab to manage the ADISRA Linux Runtime licenses. It remotely connects to the security system allowing you to license your application or change the license type for example. (see section 12)

1		
Remote Management Toc		- D >
Target Project License L	gs	
License Type		
Softkey Hard key		
License Information		
Trial - Expires: 7/6/	2024 4:51:43 PM Type: RT Serial Number: TRIAL Version: TRIAL	
lags: 04000 Clients: 52		
Hardware ID		
Output path:		Generate license.code
After generating the licens	e.code send it to ADISRA	
License		
License path:		Validate
		Advanced
		Close
1		
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	()	

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10.5. Log Tab

You can debug the runtime application using the Log tab, but it's important to mention that the log filters, whenever changed, require the application to be re-uploaded to the Linux machine.

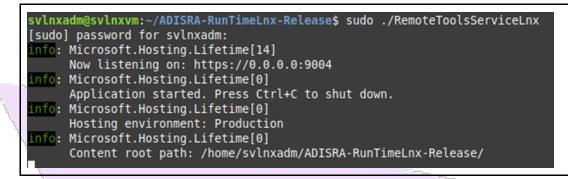
Remote	Management	Tool	-		×
arget Pro	oject License	Logs			
Active					
Severity	Source	Description	Time	Stamp	
0	Tunneling	Starting Engine Tunneling	06/14	/2024 0	04:3 /
0	Tunneling	Engine Tunneling started	06/14	/2024 0	04:3
0	History	Starting Engine History	06/14	/2024 0	04:3
0	History	Engine History started	06/14	/2024 0	04:3
0	Service	Starting Engine Service	06/14	/2024 0	04:3
0	Service	Engine Service started	06/14	/2024 0	04:3
0	System	Starting Engine Simulation	06/14	/2024 0	04:3
0	System	Engine Simulation started	06/14	/2024 0	04:3
0	OPC UA Client	t Starting Engine OPC UA Client	06/14	/2024 0	04:3
0	OPC UA Client	t Engine OPC UA Client started	06/14	/2024 0	04:3
0	Driver	Starting Engine Drivers	06/14	/2024 0	04:3
0	Driver	Engine Drivers started	06/14	/2024 0	04:3
0	Database	Starting Engine Database	06/14	/2024 0	04:3
	Database	Engine Database started	06/14	/2024 0)4:3
	DriverRead	Started to read item from tag 'WeatherParams.Longitude' from document 'WeatherLondon'	06/14	/2024 0)4:3
	DriverRead	Started to read item from tag 'WeatherParams.Latitude' from document 'WeatherLondon'	06/14	/2024 0)4:3
述	DriverRead	Started to read item from tag 'WeatherParams.Weather[0].id' from document 'WeatherLondon'	06/14	/2024 0)4:3
1	DriverRead	Started to read item from tag 'WeatherParams.Weather[0].main' from document 'WeatherLondor	n' 06/14	/2024 0)4:3
<u>1</u>	DriverRead	Started to read item from tag 'WeatherParams.Weather[0].desc' from document 'WeatherLondon	' 06/14	/2024 0)4:3 🗸
<					>

10.6. RemoteToolsServiceLnx execution

To execute the ADISRA SmartView Linux Runtime using the Remote Management Tool (remote windows machine) we need to connect to the Remote Tools Service. To do so, let's go to the folder containing all the ADISRA SmartView Runtime Linux binaries and execute the RemoteToolsServiceLnx as in the example below. Please change the path to match your installation path.

cd /home/svlnxadm/ADISRA-RunTimeLnx-Release sudo ./RemoteToolsServiceLnx

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If the above information is displayed, you should be able to connect to it using the Remote Management Tool on ADISRA SmartView engineering environment.

10.7. Remote Management Tool execution and connection.

1. Before launching the Remote Management Tool, use the following command in the Linux Workstation to get its IP address:



2. In the Engineering Workstation (Windows), where ADISRA SmartView is installed and running, execute the RemoteManagementTool:

3. Open ADISRA SmartView engineering environment and locate the Remote Management Tool (Top Menu-> Settings-> Remote Management Tool)



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4. Click on the Config button to open the RMT.

	Select the Target tab and fill the "Target	Backup *
🔭 Remo	ote Management Tool	– – ×
Target Target S Host Host: Port:	Project License Logs Station 192.168.20.23 9004	Connect Disconnect Status: Connected
	The image below shows the expected r Connect Disconnect Status: Connected Platform: ADISRA SmartView Version:4.1.0.0 Machine Name: fabio-VirtualBox Operating System Platform: Unix Operating System Version: Unix 6.8.0.35 User Name: root User Domain Name: fabio-VirtualBox Version: 6.0.29	result:

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11. Licensing the RunTimeLnx using the Remote Management Tool

The ADISRA SmartView license authorizes a single machine to execute the ADISRA SmartView software. The single license cannot be used on multiple machines since it is associated with the unique components of the specific machine that issued the licensing code.

The license code is generated using a machine's hardware identification, which is based on 3 hardware components: CPU, HDD, and Mother Board. The component-based license ensures that a single license will only enable the software to work on a specific machine. If the user plans to change any of the three hardware components, we recommend the user contact ADISRA to deactivate the license and then have it reactivated after the hardware component has been replaced.

The ADISRA team securely generates each license based on a license code generated by the customer. The license generation steps are explained in detail later in this document. A license can be deactivated at any time, but if it is deactivated, the customer must contact ADISRA to reactivate the license.

Information about your license is available in the Remote Management Tool on the License Tab. The information available is the license status, license type, the maximum number of clients and tags, and the license serial number. The license status is represented by a circle color: green means activated, yellow means trial version, and orange means there are five days remaining until trial expiration.

	Remote Management Tool	– 🗆 X	
	Target Project License Logs		
/	⊂ License Type ● Softkey ○ Hard key		
	License Information		
	Trial - Expires: 4/21/2024 6:12:58 PM Tags: 64000 Clients: 32 Type: RT Serial Number: TRIAL		
1	Hardware ID		d
	Output path: After generating the license.code send it to ADISRA	Generate license.code	
	License		
	License path:	Validate	
		Advanced	
		Close	
		I	

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11.1. Types of Licenses on Linux

The License System has two license types on Linux:

Trial License (TRIAL)

This license is provided upon installation of ADISRA SmartView. After 30 days, the license will expire, requiring a permanent Runtime License. It is possible to run the application in Runtime mode with a Trial License. However, there is a time limit of 2 hours, that is, the Runtime mode will be closed if it exceeds the time of 2 hours.

Runtime License (RT)

This license does not allow access to the ADISRA SmartView Engineering environment to develop the application, just run the application in Runtime mode with unlimited time.

11.2. Registering a License

ADISRA SmartView gives the user a 30-day development trial when it is first installed. When the 30 days expire, a permanent license will need to be purchased to run the software. The instructions below will show the steps to register a new license:

1. Select the License tab in the Remote Management Tool:

	<u>`</u>
🗱 Remote Management Tool	- 🗆 X
Target Project License Logs	
License Type	
● Softkey ○ Hard key	
License Information	
C	
Tags: 64000 Clients: 32 Type: RT Serial Number: TRIAL	
Hardware ID	
Output path:	Generate license.code
After generating the license.code send it to ADISRA	
License	
License path:	Validate
	Advanced
	Close

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There are two license types: a Softkey or a Hard Key.

11.2.1. Softkey

The softkey involves receiving a digital license, a ".lic" file, from ADISRA. Follow the steps below to generate and validate the softkey license.

 Click the button labeled "Generate license.code" to generate file containing this machine's unique Hardware ID information. The file location will be displayed in the text box called Output Path.

	5
🕱 License Register	×
ADISRA SmartView Version: 4.1.2.0 License Type Softkey O Hard key	
License Information Trial - Expires: 12/20/2024 3:34:14 PM Tags: 64000 Clients: 32 Type: ENG/RT Serial Number: TRIAL	
Hardware ID Output path: C:\Users\B\Desktop\license.code After generating the license.code send it to ADISRA	Generate license.code
License License path:	Validate Advanced
	ОК

Note: The user can change the Output Path by clicking on the button next to the Output Path text box. Please do not change the file name.

 Attach the text file named "license.code" to an email and send it to info@adisra.com.

The ADISRA will verify your purchase and send back a License Key File that matches the Hardware ID. Download and save the license file to your storage drive. It is important to remember the license file location.

3. Enter the license key file location in License Path text box or browse to locate it by clicking on the in button next to the License path and then click the Validate button.

ADISRA · 6001 W. Palmer Lane, Suite 350-285 · Austin, TX 78727 Phone: 1-833-5ADISRA (1-833-523-4772) · 1-512-993-2949 4. You will be prompted to confirm the operation once the program accepts or validates your License Key.

Your machine is now licensed and ready to use ADISRA SmartView

Close the Register License window and run ADISRA SmartView again.

11.2.2. Hard key

The hard key license is used for a license located on an external removable device called a dongle. Follow the steps below to generate and validate the hard key license.

- 1. Connect the dongle to the machine's USB port;
- 2. Select the License tab in the Remote Management Tool.
- 3. In the "License Type" field, select the "Hard key" option and then click on the "Generate license.code" button.

DISRA View Version: 4.0.3.3	
Softkey Hard key	
icense Information	
🔾 🛑 hard key connected	2
Hardware ID	
Output path: C:\Users\Filippo\Desktop\license.code	Generate license.code
fter generating the license.code send it to ADISRA	
icense	
icense path:	Validate
	Advanced

Note: If you do not have a dongle attached to the machine the License Information will show "No hard key connected".

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4. A file will be generated called "license.code"



- 5. Send an email to "info@adisra.com" attaching the Hard key activation file (license.code). In the body of the email, identify the current version of ADISRA SmartView and the Serial Number of the license, which can be found in the certificate of authenticity. (see section 12.4)
- 6. Once this is done, the ADISRA team will activate the Hard key license. A file called "license.lic" will be sent to your email, in which you have the Hard key activation code.
- 7. Now with the "license.lic" file in your possession, open the License tab in the Remote Management Tool again.
- 8. In the "License Type" field, select the Hard key option. Then click on the "..." button and point to the "license.lic" file. After clicking the "Validate" button, your license is ready to use. You have successfully validated your Hard key.

License R er	
	sion: 4.0.3.3
License Type	
Softkey Hard key	
License Information	
Ġ 😑 hard key connected	
Hardware ID	
Output path: C:\Users\Filippo	\Desktop\license.code Generate licen de
After generating the license	.code send it to ADISRA
License	V V
icense path:	2 Validate
	Advanced
	OK

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11.3. Deactivating a License

Each ADISRA SmartView license is registered to a specific machine. To use the Runtime license on another Windows or Linux machine, it will be necessary to deactivate the current license. To execute the deactivation procedure, please follow the steps below:

1. In the License tab in the Remote Management Tool, press the "Advanced..." button:

License Re	egister				×
DISRA S	martView V	ersion: 4.0.3.4			
icense Type	2				
Softkey	○ Hard key				
icense Info	rmation				
🔾 🔵 Activ	vate				
ags: 64000	Clients: 32	Type: ENG/RT	Serial Number: AD	S_Gustavo Mo	oraes
lardware ID	,				
			ktop\license.code		Generate license.code
	_				Generate license.code
rter genera	ating the licer	nse.code send it	to ADISKA		
icense —					
cense path	:				Validate
					Advanced
					Advancediii
					OK
					U.S.

2. It will open a new window so you may decide where the deactivated license file will be generated:

X Advanced	×
Deactivate License Be careful, ADISRA SmartView cannot run with deactivated license	
C:\Users\gustavo.moraes\Desktop\AdisraSmartViewDeactivateLicenseCode.c	Deactivate License
	Close

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Note: The user can change the deactivated license file location by clicking on the button next to the "Deactivate License" button.

- 3. Click the button "Deactivate License" to generate the file.
- 4. Once deactivated, ADISRA SmartView will ask for the license again and will not work until a regenerated license is validated again.

To validate a regenerated license, send the deactivated license file to <u>info@adisra.com</u> and ADISRA will send a regenerated license back which you can save to the file location in License Path text box or browse to locate it by clicking on the <u>button next to the</u> License path and then click the Validate button.

License Type —					
● Softkey ○ I	Hard key				
License Informat	ion				
🖸 🔵 Activate	lanter 22 Tru	Det ENG/PT	Secial Numbers Al	S Guetava Mara	
Tags: 04000 CI	ients: 32 Ty	De: ENG/KI	Serial Number: Al	US_GUSTAVO MORA	es
Hardware ID					
Output path: C:\	Users\gustavo.	moraes\Desk	top\license.code	(Generate license.code
After generating	g the license.c	ode send it t	o ADISRA		
License					
License License path:					Validate
					Validate

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11.4. Certificate of authenticity

When the user purchases a license for ADISRA SmartView, the software vendor/ADISRA will generate a certificate of authenticity for that license, this certificate contains the owner's name, or the company name, the email, along with the license's unique serial number and the hardware ID.

See below an example of a certificate of authenticity:



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12. Application Deployment and Execution

In this topic we will explain how to execute and interact with Linux Runtime.

12.1. Transfer Application

12.1.1. Uploading ADISRA SmartView projects Manually

Applications can be manually transferred by directly moving the application folder from one location to another, eliminating the need for additional configuration.

12.1.2. Uploading ADISRA SmartView projects to Linux using the Remote Management Tool

This is the best tool to transfer and manage the applications on a Linux environment.

To upload a project to Linux, you should connect using Remote Management Tool to the Linux server (the RemoteToolsServiceLnx must be running).

- In the Remote Management Tool window, the 'Local' field should be filled in with the opened project. By default, it will have the current application folder loaded in the Engineering environment, so you probably won't need to change it.
- 2. In the 'Target' field go to the [...] button and choose the path to where the project should be uploaded in the Linux server, then click the 'Upload' button for the action to be completed:

Remote Management Tool Target Project License Logs	- 🗆 ×
 Iarget Project License Logs Upload (This PC -> Remote PC) Project Path Target: ////////////////////////////////////	C -> This PC)

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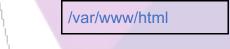
d

3. The project is uploaded to the Linux server and can be executed by clicking on the "Run" button.

12.1.3. Uploading web pages to Linux (for Web Viewer access) using the Remote Management Tool

In the project tab the user also has the option to upload files manually or upload the html pages.

 The image below highlights the target folder, the source, and the Save Html button. The source can be selected as the entire Graphics folder or a single graphic.



2. Next, click the [...] button next to the 'Select the Graphics application folder or a specific graphic field to choose the desired graphic to be uploaded.

	Target Project License Logs	
	Upload (This PC -> Remote PC)	Download (Remote PC -> This PC)
	Project Path	Project Path
	Local: C:\Users\enrico.tucunduva\Desktop\Screen_Graphic	Target:
	Target: /home/enrico/Documents	Local:
/	Run Stop Shortcut Upload	Download
	Files	Files
	Target: Send	Local: Get
	Web	
	Target Folder:	
	/var/www/html	
	Select the Graphics application folder or a specific graphic:	
	C:\Users\enrico.tucunduva\Desktop\Screen_Gra Save Html	

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3. If everything is configured correctly, click the 'Save Html' button to upload the graphics.

12.2. Execute the Runtime Process

There are different ways to execute the Linux Runtime, in this section some of them will be explained.

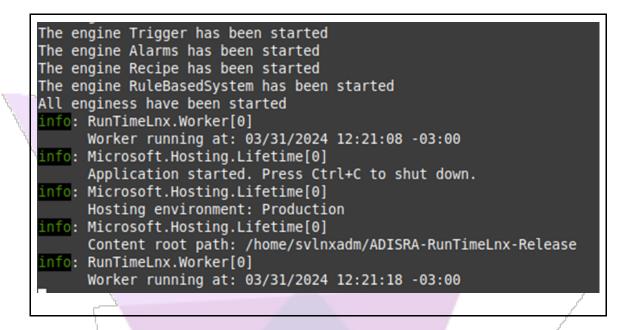
12.2.1. Linux Runtime execution (command line)

To manually execute the Linux Runtime, copy the ADISRA Smart View project to the Linux workstation and type the following command (It will be necessary to type the root password):

Note: The *ProjectPath* argument must provide the path to the ADISRA SmartView project file;

cd /home/svlnxadm/ADISRA-RunTimeLnx-Release sudo ./RunTimeLnx ProjectPath="/home/svlnxadm/projects/SVProjects/complete/complete.prj" svlnxadm@svlnxvm:~/ADISRA-RunTimeLnx-Release\$ sudo ./RunTimeLnx ProjectPath="/home/svlnxadm/projects/SVProjects/complete.prj" [sudo] password for svlnxadm: Project path successfully read: [/home/svlnxadm/projects/SVProjects/complete.prj] ING: Microsoft.hosting.tifetime[14] Now listening on: http://localhost:9003

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12.2.2. Linux Runtime execution (Remote Management Tool)

In the project tab the user also has the option to upload files to the Linux server. After the RMT connection is made, and the project uploaded, simply click the 'Run' button:

		and a second sec	
<u></u>	🕱 Remote Management Tool	×	– 🗆 X
	Target Project License Logs		
	Upload (This PC -> Remote PC)	Download (Remote PC -> This PC)	
1	Project Path	Project Path	
1	Local: C:\Users\enrico.tucunduva\Desktop\Screen_Graphic	Target:	
	Target: /home/enrico/Documents	Local:	
	Run Stop Shortcut Upload		Download
1	Files Target: Send	FilesLocal:	Get
	Web		
	Target Folder:		
	C:\inetpub\wwwroot\Screen_Graphics_Test		
	Select the Graphics application folder or a specific graphic:		
			Close

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d

12.2.3. Linux Runtime execution (As a service)

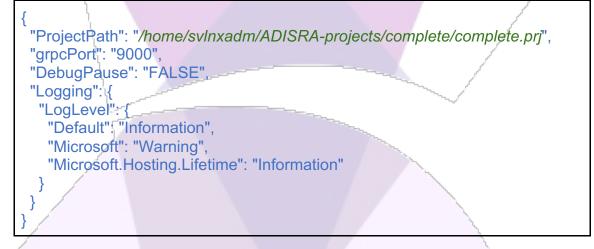
To execute the ADISRA SmartView Runtime as a service so that it becomes available immediately after the boot (before login), the Linux Systemd service manager can be used. The steps below briefly describe how it can be configured.

IMPORTANT: Not all Linux distributions natively support Systemd.

12.2.3.1. Configure the appsettings.json

Edit the appsettings.json file, located in the ADISRA SmartView Linux Runtime installation, and set the ADISRA SmartView project that will be loaded into the Runtime:

/home/svInxadm/ADISRA-RunTimeLnx-Release/appsettings.json



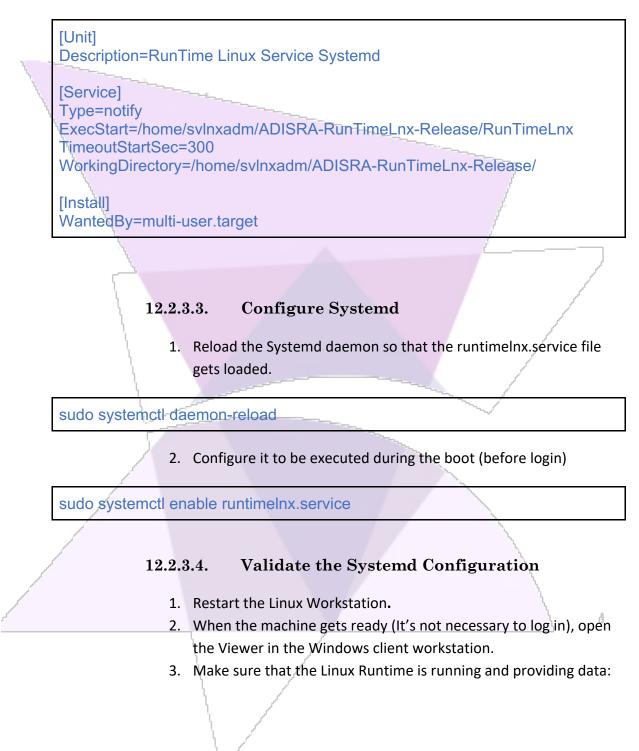
Note: The paths illustrated will vary depending on the installation folder and project path.

12.2.3.2. Create the Systemd service file

The Systemd service file must be created as follows in the path "/etc/systemd/system". The following command will create the file and open the editor:

sudo vi /etc/systemd/system/runtimelnx.service

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Press "i" to enter insert mode, paste the following content and save with ":x":

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svlnxvm		☆ ⊞ br 21:4	9 (¹)
svlnxadm Password			
	Dashboard Simulation Simulated Value: -1288919685 Service Tag Service 1: 39 Tag Service 2: 78 Trigger Trigger: Click To Increment Tag Increment: 0	Coil Status 1:	- C ×

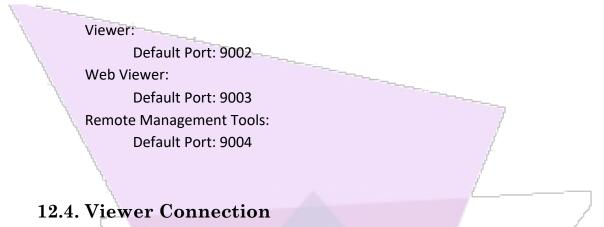
12.2.3.5.

Systemd useful commands

Command	Description
sudo systemctl status runtimelnx.service	Displays the service status (enabled, started, stopped, etc)
sudo systemctl start runtimelnx.service	Manually starts the service
sudo systemctl stop runtimelnx.service	Manually stops the service
sudo systemctl enable runtimelnx.service	Enables the service to be executed during the system startup (boot)
sudo systemctl daemon-reload	Must be executed whenever a change to the "runtimelnx.service" file is made.
sudo journalctl -u runtimelnx.service	Visualize the outputs generated from the ADISRA SmartView Linux Runtime while the service is running.

12.3. Ports

The application uses specific ports for some functionalities. Users can change these ports in project, the default configurations are as follows:



This section shows the ADISRA SmartView Viewer being used for remote access.

To access the Runtime remotely, open the Viewer application of the ADISRA SmartView using the Launcher or, go directly to the installation folder (by default, C:\Program Files (x86)\ADISRA\Adisra SmartView\Bin\Viewer.exe). The following window will appear:

	🔭 Vi	ewer	_			
5	•				_	
	IP:	192.168.1.111				
	Port:	9002				
		orce project downl	oad			
	✓ Sa	ave configuration				
		ustom Resolution:		24 x 768		
			• • •	280 H 720	J	0
		Test Connection	Cor	nnect		d

Go to the Linux server and in the Command Prompt use the following command to get its IP address:

hostname -I # 192.168.2.215 2804:3404:101:8f00:3a84:af16:998e:45c7 2804:3404:101:8f00:ecc3:52bc:502c:d949

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Insert the IP address in the 'IP' field and click the test connection button, if the Runtime is active and the connection is successful the following message should appear

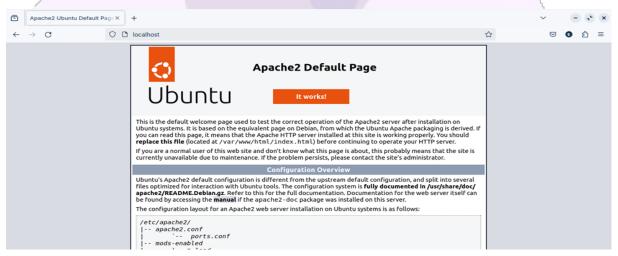
Connection is OK OK

You should now be able to click the connect button and the project graphics will be loaded. Please make sure that the startup graphic is selected or else the screens won't be displayed:

1				
	B B 🤊 (× 🕑 📀	6 🔍 📀	• •
Runtime	Verify	View	Settings	Security
Startup Graphic:	Main			Ŧ
Show Graphics			HTML with the e events fall th	document rough objects
			Graphics	

12.5. Web Connection

After saving the graphics as Html and transferring the web pages to the target Linux machine, it is important that you have configured a Web Server. In this example we use Apache as the serves for the web pages and it uses the path "/var/www/html". By default, Apache's installation already places an index.html on that folder, so we can test it "localhost/index.html" using a local web browser for desktop distributions.

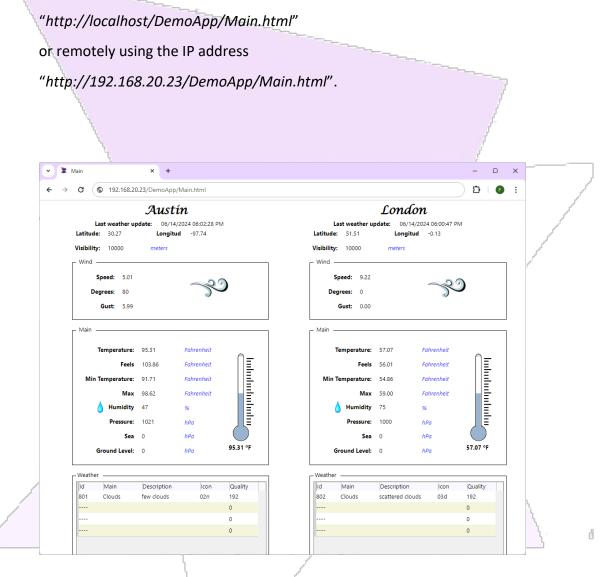


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To open the web pages from your application, first make sure you transferred them to "/var/www/html". Let's say "/var/www/html/DemoApp".

We can access the web application using the following url:



12.6. Data Watcher Connection

To remotely connect the Data Watcher to the ADISRA SmartView Runtime Linux please follow the steps below:

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1. To get the Linux IP Address: Go to the Linux server and open a Command Prompt. Use the following command to get its IP address.

hostname -I # 192.168.2.215 2804:3404:101:8f00:3a84:af16:998e:45c7 2804:3404:101:8f00:ecc3:52bc:502c:d949 2. In the Windows computer with the data watcher installed, please open the Data Watcher using the Launcher or directly from the installation folder. 3. As soon as the Data Watcher opens, you can set the IP address and the port number (9002 by default) and connect to the Linux Runtime. 통 Data Watcher \times Connected IP: 192.168.20.23 Port: 9002 Connect Ontions Load all tags Clean DataWatcher System Tags Save Load Always On Top Tag Value Time Stamp Quality { [40], String } Х 0 6/14/2024 4:36:01 PM 192 Х Х True 6/14/2024 4:36:04 PM 192

	WeatherParams	{ WEATHER }			X
	 Longitude 	-0,13	6/14/2024 6:30:05 PM	192	
	 .Latitude 	51,51	6/14/2024 6:30:05 PM	192	
	.Weather	{ [4], WEATHER_PAR }			
	.BaseVal	stations	6/14/2024 6:30:05 PM	192	
	.Main	{ MAIN }			
	 .Visibility 	10000	6/14/2024 6:30:05 PM	192	
	• .Wind	{ WIND }			
	.Dt	6/14/2024 6:19:46 PM	6/14/2024 6:29:32 PM	192	
	.DtUTC	1718399986	6/14/2024 6:30:05 PM	192	
÷	WeatherParams2	{ WEATHER }			X
[X

Note: The IP Address retrieved by the Linux command should be inserted in the windows command.

4. Now you can start monitoring the application tags remotely.

13. Linux Runtime troubleshooting

This topic provides concise guidance for diagnosing and resolving issues encountered while running Runtime applications on Linux systems.

13.1. How to check if the Runtime executables have permission to be executed

To check if the Runtime executables have permission to be executed, open a Command Prompt and use the following command:

Is -I ./AdisraRunTime/RemoteToolsService ./AdisraRunTime/RunTimeLnx # -rwxrwxr-x 1 svInxadm svInxadm 142840 Dec 27 10:28 ./AdisraRunTime/RemoteToolsService # -rwxrwxr-x 1 svInxadm svInxadm 142840 Dec 27 10:23 ./AdisraRunTime/RunTimeLnx

13.2. Permission denied in Web Viewer

When accessing a project via web viewer it is possible that the folder permissions are blocked. To resolve the problem, open a Command Prompt and use the following command:

sudo chown - R svlnxadm:svlnxadm /var/www/html/<project_name> sudo chmod -R 755 /var/www/html/<project_name>

Note: The user 'svlnxadm' should be adjusted according to the use case scenario, and the same should be done with '<project_name>' using the actual project name.

13.3. Runtime Logs on Linux

If analyzing logs is required, there are different ways to access them (via Remote Management Tool or by configuring logs to be saved locally on Linux for future reference).

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13.3.1. Analyzing Logs using the Remote Management Tool

In the Remote Management Tool, go to the 'Logs' tab and select the 'Active' checkbox:

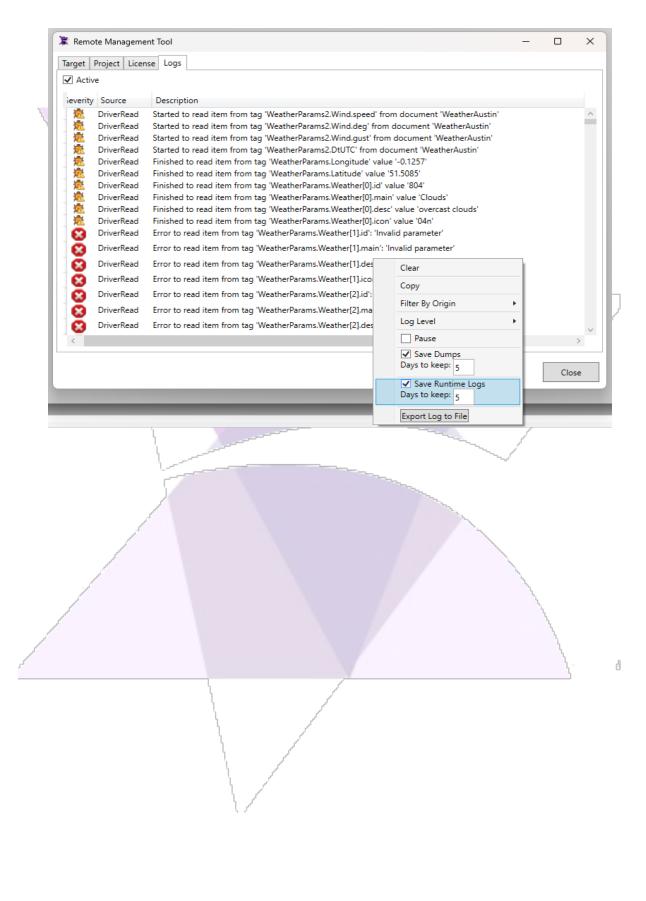
	roject License	Logs		
Active				
Severity	Source	Description	TimeStamp	
0	Tunneling	Starting Engine Tunneling	04/12/2024 03:06:29.922 PM	
0	Tunneling	Engine Tunneling started	04/12/2024 03:06:30.642 PM	
0	History	Starting Engine History	04/12/2024 03:06:30.723 PM	
0	History	Engine History started	04/12/2024 03:06:33.036 PM	
0	Service	Starting Engine Service	04/12/2024 03:06:33.113 PM	
0	Service	Engine Service started	04/12/2024 03:06:33.418 PM	
0	System	Starting Engine Simulation	04/12/2024 03:06:33.550 PM	
0	System	Engine Simulation started	04/12/2024 03:06:33.589 PM	
0	OPC UA Client	Starting Engine OPC UA Client	04/12/2024 03:06:33.686 PM	
0	Driver	Starting Engine Drivers	04/12/2024 03:06:33.791 PM	
0	Driver	Engine Drivers started	04/12/2024 03:06:33.914 PM	
0	Database	Starting Engine Database	04/12/2024 03:06:33.996 PM	
0	Database	Engine Database started	04/12/2024 03:06:34.007 PM	
0	Trigger	Starting Engine Triggers	04/12/2024 03:06:34.096 PM	
0	Trigger	Engine Triggers started	04/12/2024 03:06:34.199 PM	
0	Alarms	Starting Engine Alarm History	04/12/2024 03:06:34.304 PM	
0	OPC UA Client	Engine OPC UA Client started	04/12/2024 03:06:34.450 PM	
0	Alarms	Engine Alarm History started	04/12/2024 03:06:34.743 PM	
0	Recipe	Starting Engine Recipes	04/12/2024 03:06:34.819 PM	
0	Recipe	Engine Recipes started	04/12/2024 03:06:34.889 PM	

Every time you change the filters; you will need to stop and re-upload the application to the target system and restart it.

13.3.2. Analyzing Logs saved locally on the Linux machine.

You can set the runtime log to be saved locally on the Linux application folder by editing the application to save runtime logs (disabled by default). As soon as you enable it, please stop the application, re-upload it to the Linux machine and start the application. It will save the runtime log to the logs folder inside the application folder.

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