

ACE Studio VM Quick Start Guide

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ACE Studio VM Quick Start Guide
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Revision history

Date	Revision	Version	Comments
12/1/2021	M	0	Converted the ACE Studio VM Quick Start Guide to XML and updated the content for Telestra 7.X and 6.X software.
9/27/2022	M	1	Updated the terminology in the Red Hat Enterprise Linux export statement in the front matter.
3/8/2023	M	2	Updated the Red Hat Enterprise Linux subscription and export statement in the front matter.

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1.0 Introduction

ASTi's ACE Studio is a powerful suite of software tools providing centralized access to remote, networked Telestra Target equipment and associated software models, a software development toolkit for building sound and communication models, and network-wide communication plans and equipment configuration management.

ACE Studio incorporates the following software tools:

- Load Viewer: facilitates model development and accelerates the test and debug cycle.
- **Project Manager**: generates and distributes communication plans and equipment layouts to remote sites from a single management node using advanced, peer-to-peer file sharing.
- *Radio Monitor*: analyzes simulated radio traffic on the network. **Radio Monitor** presents a variety of views that provide the ability to list and examine radios on the network.

ASTi offers two ACE Studio configurations that both include the same powerful feature set:

- Hosted on a dedicated Telestra industrial computer platform or customer-furnished equipment
- Hosted on a customer-furnished computer, running as a virtual machine (VM)

ACE Studio VM runs on multiple operating systems, including Windows and Linux. This configuration can also run multiple versions of ACE Studio on the same computer, which reduces the cold-start procedure time.

This quick-start guide describes VMware Workstation Player and ACE Studio software installation, setup, and operation. While Studio VM works with many VM products, these instructions focus on Workstation Player with Windows, one of the more common use cases. For more information about Workstation Player, go to VMware Workstation Player Documentation. For more information about ACE Studio, go to the ACE Studio User Guide.

1.1 System requirements

ACE Studio VM requires the following software and equipment:

- 1.8 GHz (or better) x86, 64-bit CPU
- A host computer network sharing the Target's subnet
- A DVD drive
- Telestra Studio Software Installation DVD for Virtual Machine
- Telestra 7.1.0 and later:
 - ° 4 GB RAM (minimum)
 - Workstation Player 14.X and later or VMware ESXi 6.5 and later
- Telestra 6.X:
 - ° 2 GB RAM (minimum)
 - VMware Player 4.X and later or VMware Workstation 8.X and later



Note: To ensure your Workstation Player version is compatible with your host operating system, go to VMware Compatibility Guide.

Appendix 2: Install and set up Workstation Player

To install Workstation Player on the host operating system, follow these steps:

1. To download the latest version of Workstation Player, go to Download Product.



Important: Commercial use of Workstation Player requires a license. For more information about VMware licensing, go to <u>Vmware.com</u>.

- 2. To install Workstation Player, go to Install Workstation Player on a Windows Host.
- 3. After installation is complete, restart the computer.
- 4. Open Workstation Player, and set the close behavior to power off the virtual machine. To learn more about close behavior settings, go to <u>Configuring Close Behavior Preference Settings</u>.

2.0 Install and set up ACE Studio on Workstation Player

To install and set up ACE Studio on Workstation Player, follow these steps:

- 1. Create a folder to store your VMs.
- 2. Insert the Telestra Studio Software Installation DVD for Virtual Machine into your computer's DVD drive.
- 3. Copy and paste the contents of the software installation DVD into the folder you created in Step 1.



Note: Some operating systems and security settings may copy the files as read-only. To fix this issue, go to A-2, "Fix an insufficient permissions error" on page 5.

- 4. From Workstation Player, open a VM.
- 5. Find the VM directory you created in Step 1, and open **Studio**-X.X.X-**RHEL**-X.X.**ovf**, where X.X.X is the ACE Studio version and X.X is the Red Hat version (e.g., **Studio**-7.15.0-RHEL-7.9.ovf). Wait while the system loads.
- 6. Follow the prompts to enter a name for the ACE Studio VM and set its location.
- 7. (Optional) By default, the ACE Studio VM's network is bridged, which means the host operating system shares the same subnet mask as the guest operating system. Network Address Translation (NAT) is not supported. To verify your VM's network adapter is bridged, go to Configure Bridged Networking for an Existing Virtual Machine.
- 8. Play the VM.
- 9. Log into ACE Studio using the following default credentials:

Username	Password
aceuser	aceuser

- 10. To properly set up your network for ACE Studio, go to "Setting up the ACE Studio development workstation" in the <u>Telestra Quick Start Guide</u>. After setting up ACE Studio's network, use ACE Studio's full feature set as described in the <u>ACE Studio User Guide</u>.
- 11. To end your session, shut down the VM.



Important: Do not suspend the VM, which may cause network connectivity issues and other errors.

Appendix A: Troubleshooting

This appendix explains how to resolve common problems you may experience with the ACE Studio VM:

- Assign a static MAC address to a VM
- Fix an insufficient permissions error
- Set the default network port
- Fix a Binary translation error on the ACE Studio VM

A-1 Assign a static MAC address to a VM

ASTi VMs automatically generate a random MAC address by default. In some cases, you may wish to assign a static MAC address to a VM (e.g., VMware assigns the same MAC address to two VMs). To edit the MAC address, go to Configuring Virtual Network Adapter Advanced Settings.



Important: The MAC address must be in the following range: 00:50:56:00:00:00–00:50:56:3X:XX:XX, where X:XX:XX is the remainder of the MAC address.

A-2 Fix an insufficient permissions error

You may run into a permissions error when copying files from the Telestra Studio Software Installation DVD for Virtual Machine. To resolve a Windows permissions error, right-click Workstation Player, and run it as an administrator.

To resolve a Linux permissions error, follow these steps:

- 1. Open a terminal.
- 2. Go to the VM directory you created in Section 2.0, "Install and set up ACE Studio on Workstation Player" on page 4.
- 3. To assign read, write, and execute privileges to the .ovf file, run **chmod 775 Studio**-*X.X.X*-**RHEL**-*X.X*, where *X.X.X* is the Studio version and *X.X* is the Red Hat version on the .ovf file (e.g., **Studio-7.15.0-RHEL-7.9**).
- 4. Run cd Studio-X.X.X-RHEL-X.X.
- 5. Run **chmod 664** *.*.

A-3 Set the default network port

By default, Workstation Player automatically guesses which network port to use when the host computer has multiple network interfaces. Sometimes this guess is incorrect, and you must manually set the Workstation Player's network interface. To change automatic bridge settings, go to Changing Automatic Bridge Settings. To learn more about bridged networking, go to Configuring Bridged Networking.

A-4 Fix a "Binary translation" error on the ACE Studio VM

When you open an ACE Studio VM, you may encounter the following error: "Binary translation is incompatible with long mode on this platform." To resolve, select **Do not show this hint again**, and select **OK**.