

FUJITSU Desktop ESPRIMO Q957/MRE Quick Setup Guide

This document explains how to setup the software for FUJITSU ESPRIMO Q957/MRE and the environment for proper operations.

Intel® Unite™ Server Installation¹

■ Prerequisites for Intel® Unite™ Server device:

- OS needed for S/W package: Microsoft Server 2008 or later
- Microsoft .Net 4.5 or later framework
- Installed role of Microsoft Internet Information Services with SSL and ASP.NET 4.5 role services enabled
 - ✧ Create a self-signed SHA2 based certificate or use an already existing SHA2 certificate for secure http communication
 - ✧ Bind https connection service (port 443) to the related certificate
- Access to Microsoft SQL Server (Mixed Mode Authentication configured) for database creation
 - ✧ If no SQL Server is available in the enterprise environment, a Microsoft SQL Server can be installed locally on the Intel® Unite™ Server device (Microsoft .Net 3.5 framework is required for this operation)
 - ✧ "Database Engine Services" and "Management Services Complete" need to be installed
- Optional defined DNS SRV record "_uniteservice" in DNS server to deliver the Intel® Unite™ Server FQDN to ESPRIMO Q957/MRE (Intel® Unite™ Hub) and to Intel® Unite™ Client for automatic detection of the server device

■ Installation of Intel® Unite™ Server package:

- Copy the software installer package from the delivered product DVD to the server device
 - ✧ {DVD drive}:\Intel(R) Unite(TM) Solution V3.1\Intel Unite Server.mui.msi
 - Run the installer package
 - Set the name of related SQL server and "Test Connection"
 - Set password for "UniteServiceUser" – (min 8 characters: upper case, lower case, symbols and digits are required)
 - Add the option to create "Intel® Unite™ Server" database and select that "Entire feature will be installed on local hard drive"
 - Complete the installation
 - Check Intel® Unite™ Server operation and access
 - ✧ Open <http://{Unite server FQDN}/Download>
 - ✧ Open <https://{Unite server FQDN}/Unite>
 - ✧ Open <https://{Unite server FQDN}/Admin>
- in case of access problems check once again ASP.NET 4.5 availability and optionally repair .Net 4.5 framework installation!

For detailed information please check the Intel® Unite™ Enterprise Deployment Guide available on the Fujitsu Support page for the FUJITSU ESPRIMO Q957/MRE.

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Intel® Unite™ Client Installation¹

■ Prerequisites for Intel® Unite™ Client device:

- OS needed for S/W package: Microsoft Windows 7 SP1, Windows 8.1 or Windows 10.

■ Installation of Intel® Unite™ Client package:

- Copy/Install the software installer package either from the delivered product DVD to the client device
 - ✧ {DVD drive}:\Intel(R) Unite(TM) Solution V3.1\Intel Unite Client.mui.msi
- or install it from the Intel® Unite™ Server Download web page
 - ✧ <http://{Unite server FQDN}/Download>
- Run the installer package
- Read and accept the License Agreement
- Select the operation mode you want to install – this must be consistent for Intel® Unite™ Hub and Client
 - ✧ Enterprise mode for operation in a large enterprise network with the need of an Intel® Unite™ Server (recommended mode of operation)
 - ✧ Small Business mode for operation without an Intel® Unite™ Server (not compatible with Standalone mode V3.0 or earlier)
- In case of Enterprise mode, choose the connection method to the Intel® Unite™ Server
 - ✧ Use “Automatic Find Server” if a DNS SRV record has been configured
 - ✧ Specify the Intel® Unite™ Server hostname (FQDN or IP address)
- Complete the installation process
- Optional (in case of using a self-signed web server certificate without a root of trust):
 - ✧ Add/Create registry key HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Unite
 - ✧ Add DWORD **DisableCheckCertificateChain** = 1
This will omit the message that there is an unknown certificate
- Optional:
 - ✧ Add/Create registry key HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Unite
 - ✧ Add DWORD **DisableUsageCollection** = 1
This will block all telemetry data collection
- Start Intel® Unite™ Client application and answer the “Privacy Statement”
- In case of Enterprise mode operation it might be necessary to accept the server certificate provided.
- Allow the Intel® Unite™ Client to pass the firewall for your network connection

For detailed information please check the Intel® Unite™ Enterprise Deployment Guide available on the Fujitsu Support page for the FUJITSU ESPRIMO Q957/MRE.

For detailed information about the operation of Intel® Unite™ Client please check the Intel® Unite™ User Guide available on the Fujitsu Support page for the FUJITSU ESPRIMO Q957/MRE.

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Intel® Unite™ Hub Installation - FUJITSU Desktop ESPRIMO Q957/MRE¹

■ Prerequisites for ESPRIMO Q957/MRE (Intel® Unite™ Hub device):

- For installation a mouse and keyboard connected to the ESPRIMO Q957/MRE is required
- Standard operation of ESPRIMO Q957/MRE does not require the use of mouse or keyboard

■ Installation of Intel® Unite™ Hub package:

- Power on your ESPRIMO Q957/MRE
- Finalize the OS installation procedure
 - ✧ Select the OS language to install
 - ✧ Set user account name and password – this will be the **administration** account for your ESPRIMO Q957/MRE
 - ✧ Skip connection to wireless networks (that might be changed later, if needed); it is recommended to operate the ESPRIMO Q957/MRE on a wired network
 - ✧ Finalize OS installation
 - ✧ **Restart your ESPRIMO Q957/MRE !**
- ✧ Login to your ESPRIMO Q957/MRE again
- ✧ For management purposes you might change remote settings of the ESPRIMO Q957/MRE, to allow remote access for system administration
- ✧ Create a new user – for security reasons without any administration rights – who will run the presentation application (Intel® Unite™ Hub) by default
- ✧ Configure the ESPRIMO Q957/MRE to automatically start with that new user account created:
run "control userpasswords2" in a command shell and configure that new user account, not to request a password

■ Manual Installation of Intel® Unite™ Hub package:

- Start the software "Intel Unite Hub.mui", which you can find in the directory "C:\Fujitsu\Programs\Intel Unite Hub Installer"
- Read and accept the License Agreement
- Select the operation mode you want to install – this must be consistent for Intel® Unite™ Hub and Client
 - ✧ Enterprise mode for operation in a large enterprise network with the need of an Intel® Unite™ Server (recommended mode of operation)
 - ✧ Small Business mode for operation without an Intel® Unite™ Server (not compatible with Standalone mode V3.0 or earlier)
- In case of Enterprise mode, choose the method to connect to the Intel® Unite™ Server
 - ✧ Use "Automatic Find Server", if a DNS SRV record has been configured
or
 - ✧ Specify the Intel® Unite™ Server hostname (FQDN or IP address)
- Continue until the installation process finishes
- Answer the "Privacy Statement"
- Allow the Intel® Unite™ Hub to pass the firewall for your network connection
- Optional - **needed in case of a self-signed certificate for the Intel® Unite™ Server without root of trust**
 - ✧ Add/Create registry key HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Unite
 - ✧ Add DWORD: DisableCheckCertificateChain = 1
- Optional
 - ✧ Add/Create registry key HKEY_LOCAL_MACHINE\SOFTWARE\Intel\Unite
 - ✧ Add DWORD: DisableUsageCollection = 1
This will block all telemetry data collection
- Make sure the ESPRIMO Q957/MRE is connected to your network
- Restart the ESPRIMO Q957/MRE

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- Now it should automatically login with the new user account created for operation of the Intel® Unite™ Hub¹ application. If this fails, login again with the administrator account and run the command "control userpasswords2" again. Then restart the ESPRIMO Q957/MRE once again
- Start Intel® Unite™ Hub application and answer the "Privacy Statement"
- Now the ESPRIMO Q957/MRE should already begin generating/requesting a PIN (from the Intel® Unite™ Server) and will show it in the upper right corner of the display

Configuring the ESPRIMO Q957/MRE for best practice operation:

- Auto-login to ESPRIMO Q957/MRE, with the created user account for Intel® Unite™ Hub operation
- Modify the power settings to
 - ✧ Turn off the monitor: Never
 - ✧ Put the computer to sleep: Never
- Change the "Notification Icons" settings
 - ✧ Turn off all System Icons
 - ✧ Hide all "Icons and Notification on the Taskbar"
- Change Desktop Personalization
 - ✧ Check that Screen Saver is disabled
 - ✧ Change Desktop Icon Settings
 - Remove check for Recycle Bin to be displayed
 - Remove check for the themes to be able to change settings
 - ✧ Remove all remaining icons from desktop and taskbar
- Add a new string value to registry key

HKEY_CURRENT_USER\Software\Microsoft\Windows NT\CurrentVersion\Winlogon

The STRING value to add: Shell = "{Path to Intel Unite Hub}\Intel Unite.exe"

This will automatically start the Intel® Unite™ Hub application for the current user after auto-login, with very limited further functionality

■ **Configuring the Intel® Unite™ Server for best practice operation of ESPRIMO Q957/MRE:**

- Browse to <https://{Unite Server FQDN}/Admin>
(your computer used for browsing the server administration web pages needs an active internet access!)
- Login as: Admin@Server.com, Password: Admin@1
- Go to "Groups" → "Profiles"
- Select "Details" of the "default" profile
- Activate and save
 - ✧ Full Screen Room Mode
 - ✧ Full Screen Room Mode Show Pin
 - ✧ Hub Lock Keyboard

■ **Configuring the ESPRIMO Q957/MRE BIOS settings for improved secure operation:**

- Set "Legacy USB Support" in "USB Configuration" to DISABLED and configure USB Port Security according to your need
- Set "Administrator Password" for secure access to BIOS setup
- Set "Boot Removable Media" to DISABLED
- Disable all Boot Options but the internal hard disk
- If usage of presence sensor device is planned, set
 - ✧ USB Power to "Always On"

For detailed information please check the Intel® Unite™ Enterprise Deployment Guide available on the Fujitsu Support page for the FUJITSU ESPRIMO Q957/MRE.

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FUJITSU Desktop ESPRIMO Q957/MRE – Quick Setup Command Script

In order to provide an easy and fast procedure to setup the ESPRIMO Q957/MRE meeting room device, there is a command script provided, which will execute all necessary steps for installation and configuration of the Intel® Unite™ Hub Installation, after completion of the general OS setup. A link to this “ESPRIMO Q957-MRE Quick Setup.cmd” is provided on the desktop displayed.

These steps are executed:

- Installation and configuration of additionally supplied drivers and utility::
 - Installation of the required files for using “Desktop Instant BIOS Management Software”
 - Provisioning of the DisplayLink driver software, in case a “Port Replicator PR08” will be connected to the ESPRIMO Q957/MRE
- Enabling “Remote Access for system administrator”
- Installation of the Intel® Unite™ Hub software
 - Potentially uninstall first, if it has been already installed once before
 - Install the Intel® Unite™ Hub software
 - ✧ User has to read and accept the License Agreement
 - ✧ User will be asked whether to install “Enterprise Mode” or “Small Business Mode”
 - ✧ Finish installation without starting the software
 - ✧ Add a fix registry key not to check for certificate chain – this needs to be set in case of using self-signed server certificate
 - ✧ Add a fix registry key not to collect usage information and not to forward to Intel – due to saving privacy of data
- Creating a user “Unite” without administrative rights, for automatic login in appliance mode
 - Potentially remove user first, if user has been already created before, and remove that existing user directory
 - Create a local user “Unite”, with “random password” – it will never expire – and prepare for auto logon
 - Configure user to run the Intel® Unite™ Hub software as a login shell
 - Remove rights for the user when pressing >CTRL>+<ALT>+
 - ✧ No task manager
 - ✧ No password change
 - ✧ No system lock
- Change BIOS settings for best practice operation
 - USB Power is always ON
 - Disable boot from removable media
 - Disable boot error handling
- Set power and energy options
 - Don't turn off the monitor
 - Without Presence Sensor
 - ✧ Never activate System Standby
 - In case Presence Sensor detected
 - ✧ Set time for System Standby: 15 minutes
 - ✧ Set time for System Hibernation: 30 minutes
- Configure “Enterprise” respective “Small Business” environment
 - Try to localize and start Enterprise Administration Web Page or
 - Copy a default configuration file for Small Business Mode operation
- Configuring firewall settings
 - Configuring the OS internal firewall for accepting Intel® Unite™ application to pass through
 - Starting an optionally preinstalled “Security APP” for proper configuration by the customer
- Restart ESPRIMO Q957/MRE for automatic operation

In case there is any problem in operation, or if it is required to switch operation from “Enterprise” to “Small Business” mode or vice versa, you might re-run this “ESPRIMO Q957-MRE Quick Setup” command script once again. It will re-install the Intel® Unite™ Hub software from the beginning.

- Press <CTRL>+<ALT>+
 - Choose to sign out
 - Sign in again with your admin account
 - Start “ESPRIMO Q957-MRE Quick Setup.cmd” from the link on the desktop

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