

# International Financial System

# Cloud Client Installation and Configuration Guide

version 4.50 and later

Last updated: 16 November 2023

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# About this document

## Intended audience

This manual is intended for use by IFS administrators who are responsible for configuring IFS Cloud clients. IFS Cloud clients refer to any workstation or mobile device accessing IFS that runs in the Cloud.

## How to use this manual

This manual applies to any IFS applications that run in a Cloud environment, e.g. IFS Cloud.

Before you install and configure your IFS Cloud clients, you must have a basic understanding of how a Cloud environment works.

#### For information on:

- the basic IFS Cloud concepts, see "Introduction" on the next page
- the hardware and software requirements for your workstation or mobile device, see"Hardware and software requirements" on page 8
- the relevant IFS components and enrollment application to install on a workstation or mobile device, see "Prerequisites" on page 10
- how to access IFS Cloud from a workstation or mobile device, see"Accessing IFS Cloud" on page 13

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# Introduction

#### Overview

IFS Cloud is IFS hosted in a Cloud environment, which can be accessed from a trusted workstation or IFS Mobile.

# **Terminology**

The following terms are used throughout this guide.

IFS Cloud client: Any workstation or mobile device that accesses the IFS Cloud components.

**PTC Enrollment solution**: A suite of enrollment applications developed by the PTC which reuses the existing PTC Certificate Authority (CA) infrastructure to manage the process of client enrollment for any PTC website or web API. For workstations or mobile devices to use IFS Cloud, they must first be enrolled using the relevant PTC Enrollment application: PTC Enroll Client for workstations and PTC Enroll Mobile for mobile devices. The PTC Enrollment web application manages all enrollment requests.

# **IFS Components**

IFS consists of several distinct software components and supported peripherals.

The following table contains a complete list of IFS components.

	Software components	Description
Database repositories	IFS Production Database	Repository of the IFS production data
	IFS Archive Database	Repository of the IFS archive data
Windows Services	IFS Communication Server	Interfaces with local systems
	IFS Gateway Server	Connection to the UPU EDI network (POST*Net-Finance)
Web Services	IFS API Server	Web Services used to provide operational functions to the local system
	IFS Management Console	The IFS application used for administration and configuration
Applications	IFS Mobile App	App used to provide operational functions on the mobile device
	IFS Web Server	Web application used to provide operational functions via the intranet,

Software components	Description
	accessed through the IFS Web Client, a browser front-end

# Security in IFS

IFS Cloud includes a number of security measures that limit access to IFS application components. It is only available to authorized client workstations and mobile devices.

Only client workstations with valid certificates, credentials and execution rights delivered by the PTC are authorized to connect to IFS Cloud. Similarly, only mobile devices installed with a valid certificate delivered by the PTC are authorized to connect. The table below lists the security measures for client workstations and mobile devices accessing IFS Cloud components.

Client type	IFS component accessed	Security measure
Workstation	IFS Web	Two-way SSL authentication to validate server and client identities
	IFS Management	Active Directory (AD) implementation and account management by the PTC
	Console	VMware Horizon Client
		Web server certificate installed on the IFS API Server to secure access to it
Mobile device	IFS API Server	Mobile device certificates are issued and revoked by PTC Enrollment via the PTC-hosted Certificate Authority (CA)

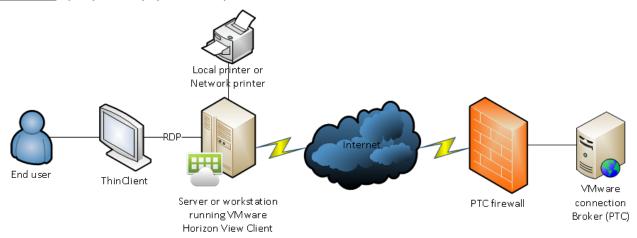
# IFS Cloud unsupported in virtualized environments

IFS Cloud is unsupported in a virtualized environment. Locally mapped peripherals do not work when connecting remotely, such as through Remote Desktop.

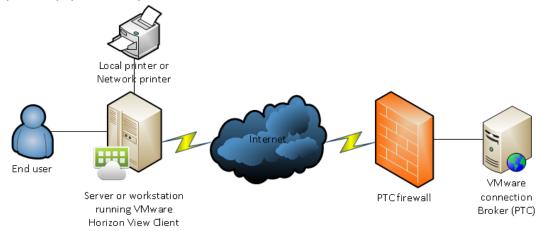
The following diagram illustrates the supported and unsupported scenarios:

- Scenario 1 is the unsupported scenario whereby the user connects to the workstation through a remote connection
- Scenario 2 is the supported scenario whereby the user connects to the workstation directly

Scenario 1 - peripherals (= printers, ...) are not available in IFS Cloud



# Scenario 2 – peripherals (= printers, ...) are available in IFS Cloud



# Hardware and software requirements

This chapter describes the PTC's recommended minimum hardware and software requirements for IFS Cloud clients.

# IFS Cloud client requirements

Except for a compliant browser and the relevant application for enrollment, there is no specific hardware or software requirement for workstations connecting to IFS Cloud. However, business managers accessing the IFS Management Console component must have the VMware Horizon Client installed on their workstation, see "Install VMware Horizon Client" on page 11.

For mobile devices, the only requirement is the installation of PTC Enroll Mobile and IFS Mobile.

Refer to "Prerequisites" on page 10 for details on these components.

# Firewall requirements

This section describes the firewall requirements to ensure that a successful connection to IFS Cloud is established.

## Communication ports

You must open all the ports listed below to connect to cloud.ptc.post.

Port	Transport Protocol
443	TCP
4172	TCP
4172	UDP

For improved security, port opening can be restricted to a single IP address of the PTC server.

# Supported peripherals

IFS supports the following peripheral devices.

#### Laser printers

Hardware	
Document printer	Requires a Windows driver

#### Receipt printers

Hardware	
Small form factor	Requires a Windows driver
printer	Print width between 50 and 200 mm

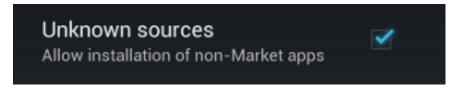
# PTC Enroll Mobile and IFS Mobile

Hardware	
Screen size	Minimum 4.3 inch; 7 inch or larger recommended
Network access	Wi-Fi/GPRS (mobile data)
Options	For printing (requires custom development):
	• Bluetooth
	Native printing configuration
Software	
Operating systems	Android 13.0 (API level 33)
	Android 5.0 or later (minimum API level 21)
PDF reader	Any PDF reader software (for IFS Mobile App only)

# Mobile device requirements

The mobile device requirements are as follows:

- 1. Security requirement: the mobile device must not be rooted and the screen lock function must be configured with at least a pattern, a PIN or a password.
- 2. Mobile device settings must be changed to authorize installation of apps from unknown sources. Android protects users from inadvertent download and install of apps from locations other than Google Play (which is trusted). It blocks such installs until the user opts-in unknown sources in the security settings, as in the example shown below.



Once you have downloaded and installed the app, it is recommended to turn this option off again.

# Prerequisites

Before you can access IFS Cloud, your workstation or mobile device must already have the required components and must be enrolled.

To enroll your workstation or mobile device, refer to the relevant enrollment documentation from this site: <a href="https://enrollment.postnet.post/PTCEnrollmentDoc/">https://enrollment.postnet.post/PTCEnrollmentDoc/</a>.

# Workstation requirements

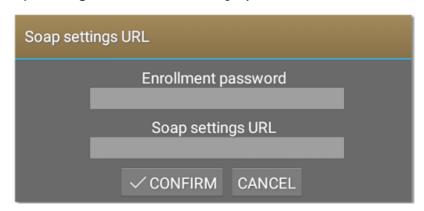
- 1. Install the **PTC Enroll Client** application and enroll your workstation by submitting a certificate request and downloading a valid certificate.
- 2. Ensure that your workstation has a compliant browser to access IFS Web.
- 3. If you are accessing the IFS Management Console, install the VMWare Horizon Client. See "Install VMware Horizon Client" on the next page.

# Mobile device requirements

- 1. Install **PTC Enroll Mobile** and enroll your mobile device by submitting a certificate request and downloading a valid certificate.
- 2. Install IFS Mobile to access IFS from your device.

#### Install IFS Mobile

- 1. Start your browser and navigate to the URL where the IFS Mobile app is published.
- 2. Download the IFS Mobile app file, IFSMob.apk, and tap Install.
- 2. When the installation process ends, you will be prompted to open the application. Tap **Open**. The **Soap settings URL** window is displayed.



3. Specify values for the following:

**Enrollment password** - Set a unique password for your device; this password is used to authorize installed PTC applications to access the certificate of the mobile device.

**Soap settings URL** - Go back to the browser window containing the published IFS Mobile files. Open **soap\_settings.xml**, and copy the link to the file by selecting the address in

the browser address bar and holding until the copy option appears. Paste the link in the **Soap settings URL** field.

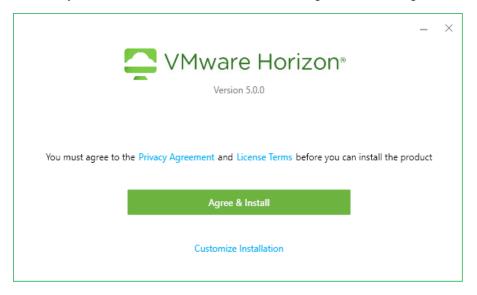
4. Tap CONFIRM.

#### Install VMware Horizon Client

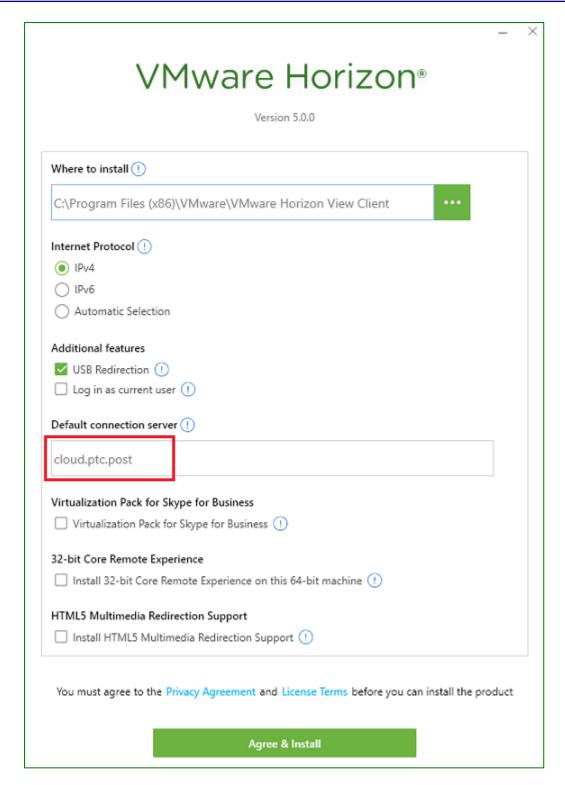
Install VMware Horizon Client only if you are accessing the IFS Management Console component from your workstation.

The PTC recommends installing the latest version of VMware Horizon Client. The procedure below applies to VMware Horizon Client version 5.0.0.

- 1. Download and install the latest version of VMware Horizon Client from the following website: <a href="https://my.vmware.com/web/vmware/info/slug/desktop\_end\_user\_computing/vmware\_horizon\_clients/5">https://my.vmware.com/web/vmware/info/slug/desktop\_end\_user\_computing/vmware\_horizon\_clients/5</a> 0.
- 2. Click **Agree & Install** to install the application with default settings or click **Customize Installation**.
  - a. If you choose Agree & Install, skip steps 3 to 5.
  - b. If you choose **Customize Installation**, proceed to step 3.



- 3. If you choose **Customize Installation**, set the following values:
  - a. Internet Protocol leave the default selection IPv4 as is
  - b. Additional features choose only USB Redirection
  - c. **Default connection server** type cloud.ptc.post for the Production server, cloud-test.ptc.post for the Pre-Production server



- 4. Click Agree & Install to start the installation process.
- 5. Click **Launch** to launch the application.
- 6. Click **Finish** to complete the installation. You are prompted to restart your computer for the changes to take effect.

# Accessing IFS Cloud

## Access IFS Cloud from a workstation

You must have already enrolled your workstation before accessing IFS Management Console or IFS Web. See the PCT Enroll Client User Guide, accessible at <a href="https://enrollment.postnet.post/PTCEnrollmentDoc/">https://enrollment.postnet.post/PTCEnrollmentDoc/</a> for details.

## Access IFS Management Console

1. Start the VMware Horizon Client and double-click the server icon.



- 2. The application prompts you to log in. Enter the credentials below:
  - User name: XXX-UserName (where XXX is your operator code)
  - Password: your existing IFS Cloud password
  - Domain: PPROD for the test environment, CLOUD for the production environment



3. To perform administrative functions in IFS Cloud Management Console, double-click the icon below and enter your login credentials. IFS may request you to change your password if it is your first time to log in, or if your password does not comply with the password settings defined for your organization. You can change your password by logging in to IFS Web and selecting the **Change password** function from the **Administration and con-**

## figuration menu.



#### Access IFS Web

- 1. Open your browser and enter the IFS Cloud URL provided to you by the PTC.
- 2. Log into IFS. IFS redirects you to the **Change password** screen if it is your first time to log in, or if your password does not comply with the password settings defined for your organization. You must change your password to access IFS.

# Access IFS Mobile

You must have already enrolled your mobile device to use IFS. See the PTC Enroll Mobile User Guide, accessible at https://enrollment.postnet.post/PTCEnrollmentDoc/ for details.

- 1. Open the IFS Mobile app on your mobile device.
- 2. Log into IFS. IFS prompts you to change your password if it is your first time to log in, or if your password does not comply with the password settings defined for your organization.