

PROIV Version 9.900 Installation Guide

Autumn 2022



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1 Introduction

This guide explains the process to install PROIV V9 on Windows and UNIX platforms. The V9 installer does not offer a choice over which components may be installed; rather it installs all product components. There are two installation executables, one for the Server and another for the MFC Client.

You can install PROIV on Windows without any third-party software; however, for UNIX platforms you must install and configure a Java Runtime Environment. Refer to the individual platform sections for the pre-requisites of that platform.

Note: As of version 9.800 PROIV version numbers will consist of three numbers of the form:

Major.Minor.Build

The *Major* number indicates the current Product release e.g. version 9 for this release.

The *Minor* number may be three digits, in steps of 100 e.g., 9.800, 9.900 etc., indicating a maintenance release, or 3 digits in steps of 1, indicating a service release. E.g., 9.801, 9.802, 9.803 etc. As an example, 9.801 is a service release to maintenance release 9.800.

The *Build* number is incremented automatically by the PROIV build infrastructure each time a build of the software takes place and so the higher the number the more recent the build. This number is reset each time the minor version changes.

2 Installing Server Software on Windows

Version 9 has a similar product installer from previous versions of V8 with only one panel with which to submit configuration details. The installation process is the same on all platforms.

The installation process must be performed as a system administrator.

The installation proceeds through a set of panels, which you move forward or backward using **Previous** and **Next** buttons. If you wish to abort the installation, then click **Cancel** at any stage during installation. To start the installation process, double-click the **PROIV 9 Windows installation executable**.

2.1 Upgrading an existing installation

2.1.1 Upgrading from Version 8 to Version 9.900

PROIV version 9.900 is not gen compatible with any pre-version 9 releases of PROIV. A mandatory Regen of all code is required when moving to PROIV version 9.900. If you are upgrading from v8 to v9, you must take a backup of your boots folder; export your application source code and import into v9.900 and then perform a regen of the application. Additionally, all existing set up options will need to be reconfigured using the new PROIV Dashboard.

2.1.2 Upgrading from an Older Version 9 to Minor Version 9.900

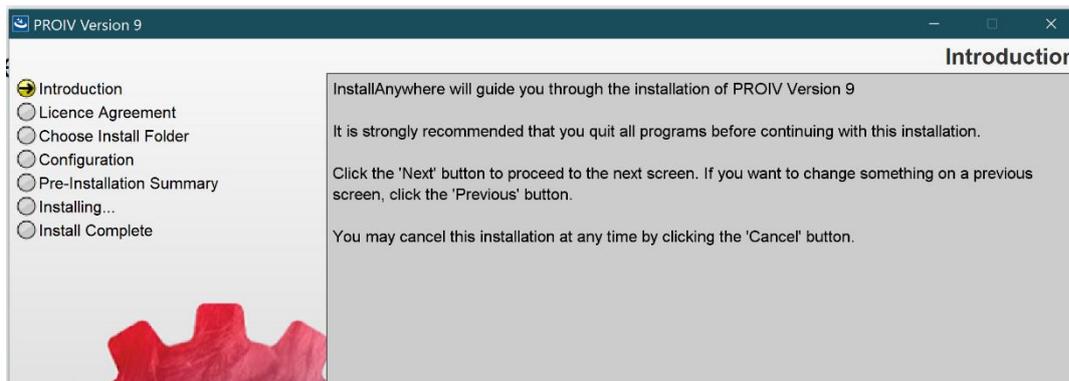
PROIV version 9.900 is gen compatible with earlier releases of version 9; there is no mandatory regen requirement. When performing an upgrade using the binary installer it will update the executables and the contents of the bootstrap by isin'ing the version 9.900 developer.out (or administrator.out). An alternative approach is to export your code from the earlier version 9 and import into version 9.900 performing a subsequent Developer bulk build of the imported functions.

The upgrade will also upgrade the dashboard. Any deployed Client Connector, Application Connector or Analytics web applications will have their contents upgraded and redeployed to the state they were in when the upgrade was run. If any new configuration options are added to the templated web applications, then they will be added to the upgraded web applications with default values.

Notes:

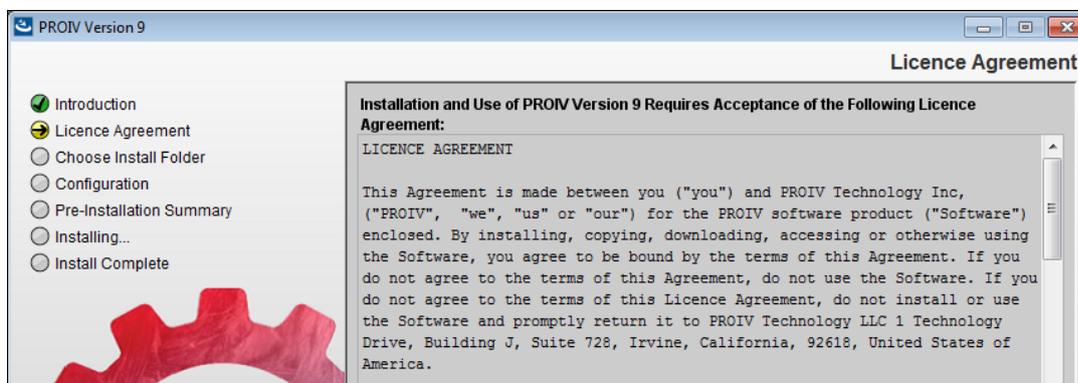
1. An issue is present if upgrading from 9.1, in order to prevent it you will need to remove the file "lgroup.pro" from the PROPATH folder prior to upgrading.
2. Due to the change in company name to Zellis, the default installation paths for PROIV have been changed. If you wish to upgrade an existing installation you should ensure the install path matches your current installation path, see the Installation Location section. It is not possible to install two versions of PROIV version 9 on the same machine.

2.2 Introduction Panel



Click **Next**.

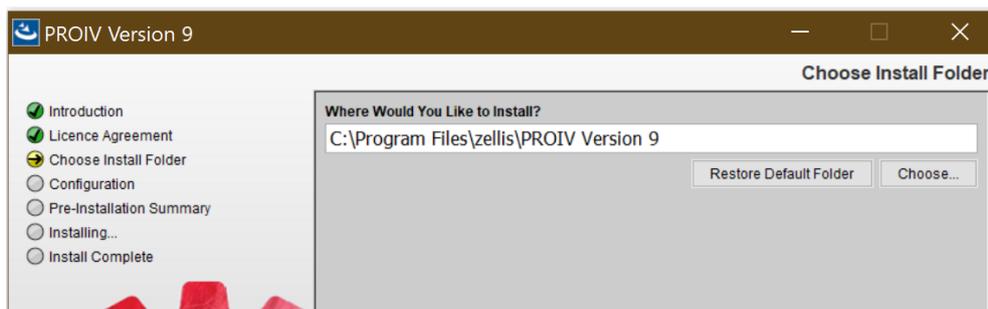
2.3 Licence Agreement



Scroll the agreement to the bottom and click I accept the terms of the Licence Agreement and click Next.

Note: You cannot select this without scrolling to the bottom of the agreement; this ensures you have read the terms of the Licence Agreement.

2.4 Installation Location



Click Choose to select the destination folder for the installation and click Next.

Notes:

1. PROIV Version 9 does not support the upgrade of an existing PROIV Version 8 installation. However, you can install PROIV Version 9 alongside an existing PROIV Version 8 installation.
2. The default installation folder has changed, to reflect the change in name of the PROIV holding company to Zellis. If you are upgrading a previous version 9 installation you should specify the location of that installation in the box shown above.

2.5 Network Port Configuration

Web Application Server Ports	
System Services Http	9801
Application Services Http	9802
Client Services Http	9804
Analytic Services Http	9805
Licence Service Http	9806
System Services Https	9811
Application Services Https	9812
Client Services Https	9814
Analytic Services Https	9815
Licence Service Https	9816
Virtual Machine Ports	
Client Virtual Machine	9023
Gateway Virtual Machine	9833

Configure PROIV as follows:

Under Web Application Server Ports group and Virtual Machine Port group, enter the TCP/IP listening port numbers for all port types. All these ports must be unique. By default, the installation process offers ports which are not in use at the time, the panel appears.

Note: The default PROIV Version 9 ports do not overlap with PROIV Version 8 ports. After submitting the panel, the installer will notify you if the port number entered is in use. You must re-enter the configuration information in this instance.

To enable support for external databases such as Oracle, PostgreSQL or SQL Server, select the **External Database Support** checkbox.

2.6 Initial Database Configuration

On the Database Type list, select the required database. For example, Postgres or Oracle.

PROIV Virtual Machine Features

External Database Support

Database Type

Postgres

Host	pgdbserver
Port	5432
Database Name	pgdb
User Name	admin
Password	*****

In the Host box, enter the host name or the IP address of the machine.

In the Port box, enter the port number.

In the Database Name box, enter the name of the database.

Enter the Username and Password in the respective boxes.

Notes:

1. If you do not configure external database during installation but want to connect to the external database after installation, login to PROIV Dashboard and update the database configuration as required. Refer to PROIV Help for more information.
2. The installer does not validate any of the parameters entered on this screen.

2.7 Windows Service Installation

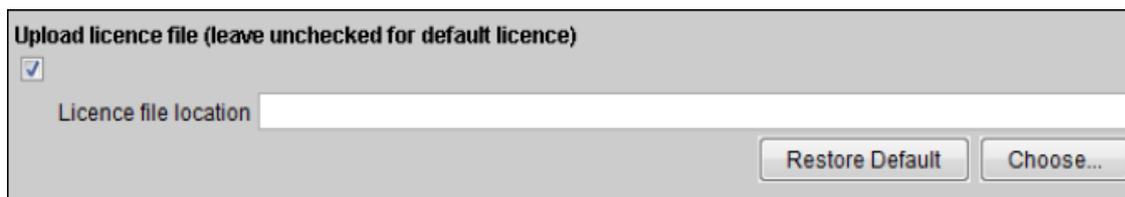
System Installation

Local System Local Service

From version 9.60 onwards, it is possible to install the PROIV services on Windows as the Local Service account there by reducing the access rights given to the service. If you wish to do this then select “Local Service” and the services will be installed with the local account known as NT Authority/LocalService.

The files in the PROIV installation will have their permissions updated to allow this account to be able to read and write to them. It is important to note that if your application uses other interfaces and directories then it is your responsibility to ensure that those external interfaces give the LocalService account sufficient permission to continue to operate with them.

2.8 Provide License During Installation



Upload licence file (leave unchecked for default licence)

Licence file location

Restore Default Choose...

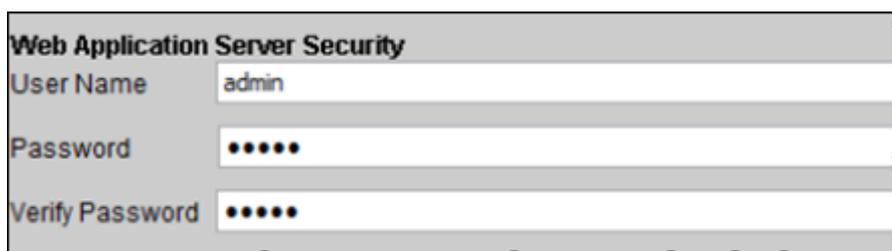
Note: The installer will advise if any incorrect configuration parameters have been entered.

You will be invited to correct the relevant parameters. The installation will not proceed unless the correct parameters are entered.

PROIV Version 9 installs a default licence. However, if you want to choose from a location, click **Choose** and locate the licence file.

Note: PROIV Version 8 licence files cannot be used with PROIV Version 9.

In the Web Application Server security group, you can setup the security for the web applications served as part of the PROIV installation. The username and password entered are then configured for each of the applications in your web application. However, you can change them after installation.



Web Application Server Security

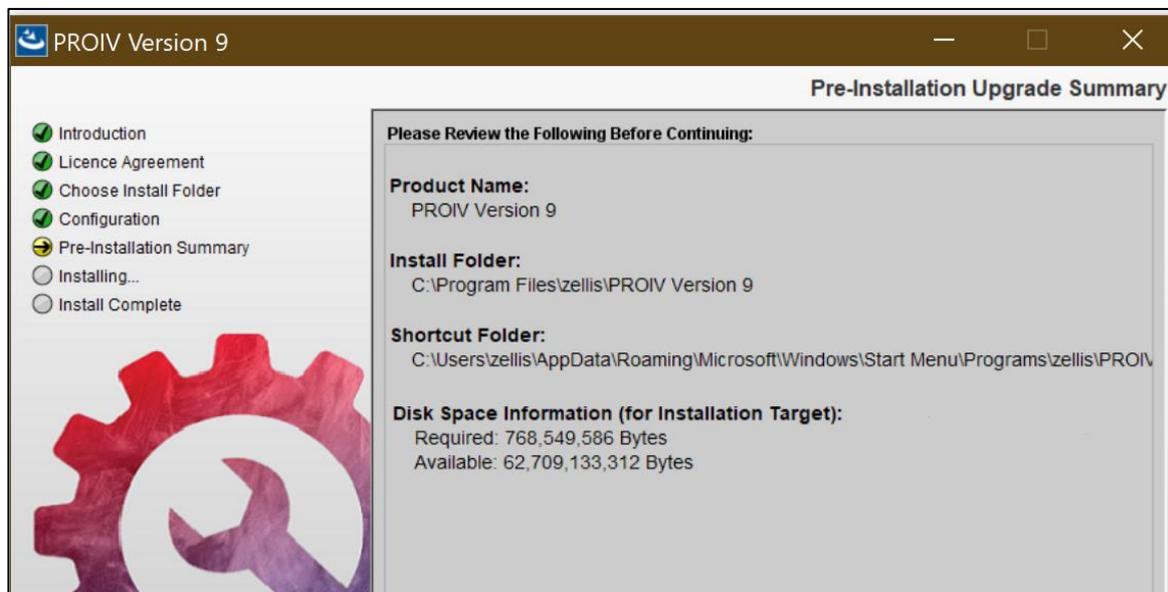
User Name

Password

Verify Password

2.9 Pre-Installation Summary

The summary of where the software is installed appears. Click **Next**.



On successful installation, the PROIV Version 9 – Install Complete panel appears and may prompt to restart the system. If such a prompt appears you can either restart the system immediately or later; however, it is recommended to restart the system before using PROIV in this instance.

3 Installing Server Software On UNIX

PROIV Version 9 server installation on UNIX platforms uses a command line interface rather than graphical one; the installer is provided as a binary executable and requires a minimum of Java 11 Runtime Environment installed on your system before starting to install PROIV Version 9.

Refer the PROIV Release Notes associated with each release to get more information on the supported Java Runtime Environments (JRE) and locations where the installer searches for a JRE.

Prior to version 9.70 there was a requirement to run the installer as the root user in the console mode using the `-i console` command line

For example on a Linux 64-bit platform:

```
./proiv9.x.x.xx_linux_x86-64.bin -i console
```

It is now possible to install as a regular non-privileged user. However, there are certain aspects of the installation which differ. These are outlined in [Installation differences when not installing as root](#).

If PROIV is already installed on the server and you are performing a side by side install or an upgrade then ensure the PROIV and its services are not running before doing another install or upgrade.

The installation takes the form of an interactive console installation where you are prompted for installation location and various configuration parameters; once all information has been entered the product is installed and configured with the specified parameters.

The following sections detail an installation example on Linux; other UNIX platforms follow the same process.

3.1 Upgrading an existing installation

3.1.1 Upgrading from Version 8 to Version 9.900

PROIV version 9 is not gen compatible with any previous versions of PROIV. A mandatory Regen of all code is required when moving to PROIV version 9.900. If you are upgrading from v8 to v9, you must take a backup of your boots folder; export your application source code and import into v9.900 and then perform a regen of the application. Additionally, all existing set up options will need to be reconfigured using the new PROIV Dashboard.

3.1.2 Upgrading from Previous Version 9 to Minor Version 9.900

PROIV version 9.900 is gen compatible with earlier releases of version 9; there is no mandatory regen requirement. When performing an upgrade using the binary installer it will update the executables and the contents of the bootstrap by isin'ing the version 9.900 developer.out (or administrator.out). An alternative approach is to export your code from the earlier version 9 and import into version 9.900 performing a subsequent Developer bulk build of the imported functions.

The upgrade will also upgrade the dashboard. Any deployed Client Connector, Application Connector or Analytics web applications will have their contents upgraded and redeployed to the state they were in when the upgrade was run. If any new configuration options are added to the templated web applications then they will be added to the upgraded web applications with default values.

Notes:

1. An issue is present if upgrading to 9.900 from 9.1, in order to prevent it you will need to remove the file "lgroup.pro" from the PROPATH folder prior to upgrading.
2. Due to the change in company name, the default installation paths for PROIV have been changed; northgatearinso has been replaced zellis in the path name. If you wish to upgrade an existing installation you will need to ensure the path names match when specifying the installation folder. If you continue and use the default folders, and they don't match, then another instance of PROIV will be installed using alternative port numbers.

3.2 Starting the Installation Process

Open the command prompt.

The installation on UNIX is started by running the distribution as the root user and specifying the `-i console` command line option as shown above. Once started the installer will locate a suitable JRE and display the following screen.

```

PROIV Version 9                                     (created with InstallAnywhere)
-----
Preparing CONSOLE Mode Installation...

Introduction
-----
InstallAnywhere will guide you through the installation of proiv_version_9
Release

It is strongly recommended that you quit all programs before continuing with
this installation

Respond to each prompt to proceed to the next step in the installation. If
you want to change something on a previous step, type 'back'.

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

```

3.3 Accepting the Licence Agreement

The introduction section explains how to control the installation process.

Press **Enter**.

```

You may cancel this installation at any time by typing 'quit'.

PRESS <ENTER> TO CONTINUE:

-----
Licence Agreement
-----

Installation and use of proiv_version_9 requires acceptance of the following
Licence Agreement:

LICENCE AGREEMENT

This Agreement is made between you ("you") and PROIV Technology Inc,
("PROIV", "we", "us" or "our") for the PROIV software product ("Software")
enclosed. By installing, copying, downloading, accessing or otherwise using
the Software, you agree to be bound by the terms of this Agreement. If you do
not agree to the terms of this Agreement, do not use the Software. If you do
not agree to the terms of this Licence Agreement, do not install or use the
Software and promptly return it to PROIV Technology LLC 1 Technology Drive,
Building J, Suite 728, Irvine, California, 92618, United States of America.

1. GRANT OF RIGHT LICENCE TO USE
PROIV grants you the non-exclusive, non-transferable, right to use the
Software. Notwithstanding any other provisions herein, the right to use this
Software is subject to and limited by the separate Software Licence Agreement
that states the number and purpose of users of this Software. Without such an
agreement in place this licence grants you a right to use for evaluation
purposes only.

2. RESTRICTIONS
If you are an entity, you shall supervise and control the use of the Software
and ensure that the Software is used by your employees and representatives in
accordance with the terms of this Agreement and the separate Software Licence

PRESS <ENTER> TO CONTINUE: █

```

The set of prompts allows you to scroll through the sections of the Licence agreement; you must read, and press enter to scroll through each section.

Once the licence agreement has been displayed you can choose to accept it to continue with the installation process. If you do not accept the agreement, then enter **N** and the installation process will terminate.

3.4 Specifying Installation Directory

Specify the folder into which PROIV is installed or alternatively press **Enter** to accept the default folder.

Note: The default installation folder has changed, to reflect the change in name of the PROIV holding company to Zellis. If you are upgrading a previous version 9 installation you

should specify the location of that installation location in the “Choose Install Folder” prompt provided.

```
=====
Choose Install Folder
-----

Where would you like to install?

    Default Install Folder: /opt/zellis/proiv_version_9

ENTER AN ABSOLUTE PATH, or PRESS <ENTER> TO ACCEPT THE DEFAULT
:
```

3.5 Specifying a Licence File During Installation

```
=====
Licence File Location
-----

Please type the full path name of a valid PROIV Version 9 Licence file or just
press enter to install the default Licence

Licence file location (Default: ): █
```

Enter the location for your Licence File. If you do not have a License File, press **Enter** to install the default licence.

3.6 Network Port Configuration

The installer then moves on to setting up the network listening ports, these are presented sequentially, either accept the default or specify the port you wish to use; for example.

```
=====
Web Application Server Http Ports
=====

Application Services Http (Default: 9802):

=====

Web Application Server Https Ports
=====

Application Services Https (Default: 9812):

=====

Web Application Server Ports
=====

Client Services Http (Default: 9804):

=====

Web Application Server Ports
=====

Client Services Https (Default: 9814):
```

Enter the TCP/IP listening port numbers for all port types. All these ports must be unique. By default, the installation process offers ports which are not in use at the time.

Note: The installer will notify you if the port number entered is in use. You must re-enter the configuration information in this instance.

3.7 External Database Configuration

To configure an external database, enter Y and specify the configuration details; the following screenshot shows how to configure the Oracle external database.

```
=====
PROIV External Database Configuration
-----

Please indicate the database type

->1- Oracle
   2- PostgreSQL
   3- SQLServer

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT: 1

=====
PROIV External Database Configuration
-----

Please enter the name of database

Database name : OraDB

=====
PROIV External Database Configuration
-----

Please enter the name of the database host

Host name : OraHost

=====
PROIV External Database Configuration
-----

Please enter the database listener port

Port number (Default: 1521): 1521
```

3.8 Select Developer or Administrator

Select the PROIV Environment as either Developer or Administrator, the default is Developer.

```
=====
PROIV Environment
-----

Please choose between Developer or Administrator Environment

->1- Developer
   2- Administrator

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:: █
```

Optionally choose to install the demo functions

```
=====
Install PROIV Demonstration sample applications
-----

Please select the option below to have PROIV demonstration applications
installed

->1- Install Demonstration Files
   2- Not Required

ENTER THE NUMBER FOR YOUR CHOICE, OR PRESS <ENTER> TO ACCEPT THE DEFAULT:: █
```

To install the demonstration files and functions, enter **1**.

The PROIV Demonstration Files includes several applications which provide examples of PROIV Version 9 functionality.

3.9 Configure Web Application Security

Configure PROIV web application security, enter the user name and password (twice); the credentials will be required to access PROIV Version 9 Dashboard.

```
=====
Web Application Server Security
-----

Please enter a user name

User name (Default: admin): admin

=====

Web Application Server Security
-----

Please enter a password:

=====

Web Application Server Security Password Verification
-----

Please repeat the password for verification:
```

3.10 Installation Summary and Install

```

=====
Pre-Installation Summary
-----

Please Review the Following Before Continuing:

Product Name:
    proiv_version_9

Install Folder:
    /opt/zellis/proiv_version_9

Link Folder:
    /opt/zellis/_proiv_version_9_

Disk Space Information (for Installation Target):
    Required: 763,543,284 Bytes
    Available: 44,471,352,528 Bytes

PRESS <ENTER> TO CONTINUE:

```

The installation summary appears with the installation location and the space required, press **Enter** to continue.

Press **Enter** twice to begin the installation and configuration.

The software is installed and configured. Press **Enter** to exit the installation process.

```

=====
Installing...
-----

[=====|=====|=====|=====]
[-----|-----|-----|-----]

=====
Installation Complete
-----

Congratulations. proiv_version_9 has been successfully installed to:

    /opt/zellis/proiv_version_9

PRESS <ENTER> TO EXIT THE INSTALLER:

```

3.11 Installation differences when not installing as root

If you choose to install as the non-root user then the first screen you will be presented with is a credentials acceptance dialog; this is to remind you that you are not running as root and that additional steps are required to be run as root to complete the installation process.

Note: When installing on IBM AIX as a non-root user the installation command requires additional parameters to specify the Java Virtual Machine (JVM) to use during the installation process. Add the following to your usual command line, including a single space character:

LAX_VM <path to java virtual machine>

```
=====
PROIV Version 9 Installer Credentials
-----

The installation is progressing without root privileges. After this process is
completed, there will be additional steps to be performed manually with root
privilege for the installation to work as expected.

->1- Continue to Next
   2- Cancel

ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT: 1
```

Enter 1 to accept there are additional steps and to continue with the installation.

Entering 2 will cancel the installation and allow you to re-run it as root if that is your wish.

The rest of the installation is as per earlier sections. Once the files are loaded and the configuration settings applied you will be presented with an additional information panel.

```
=====
Installation Complete
-----

This installation of proiv_version_9 was not performed as root, you need to
run /home2/proiv9/bin/service.sh as root to install the PROIV services on
your operating system.

PRESS <ENTER> TO EXIT THE INSTALLER: █
```

To complete the installation, you need to run the script service.sh, this can be found in the bin directory underneath the root of the installation. To install the services run the script as root and the services will be installed for your chosen operating system; for Linux this is systemd for AIX and Solaris it will be via init.d. The example below is from RedHat Linux.

```
# cd /home2/proiv9/
[proiv9]# bin/service.sh
Usage: bin/service.sh [install | remove]
       install - Installs PROIV services from current installation directory
       remove  - Removes *any* currently installed PROIV services on the system
[proiv9]# bin/service.sh install
Stopping services.....
Copying isamlog and isamdef into /etc
Installing services from /home2/proiv9
```

On RedHat with systemd you can list the services as follows:

```
[root@p4 proiv9]# systemctl list-units p4*
UNIT                                LOAD    ACTIVE SUB    DESCRIPTION
p4analytics.service                loaded active running PROIV V9 Analytic Services
p4appcon.service                    loaded active running PROIV V9 Application Connector
p4clicon.service                    loaded active running PROIV V9 Client Connector
p4licensing.service                loaded active running PROIV V9 Licence Services
p4system.service                    loaded active running PROIV V9 System Services
```

Note that if you install on Linux which does not support systemd then the services will not be installed.

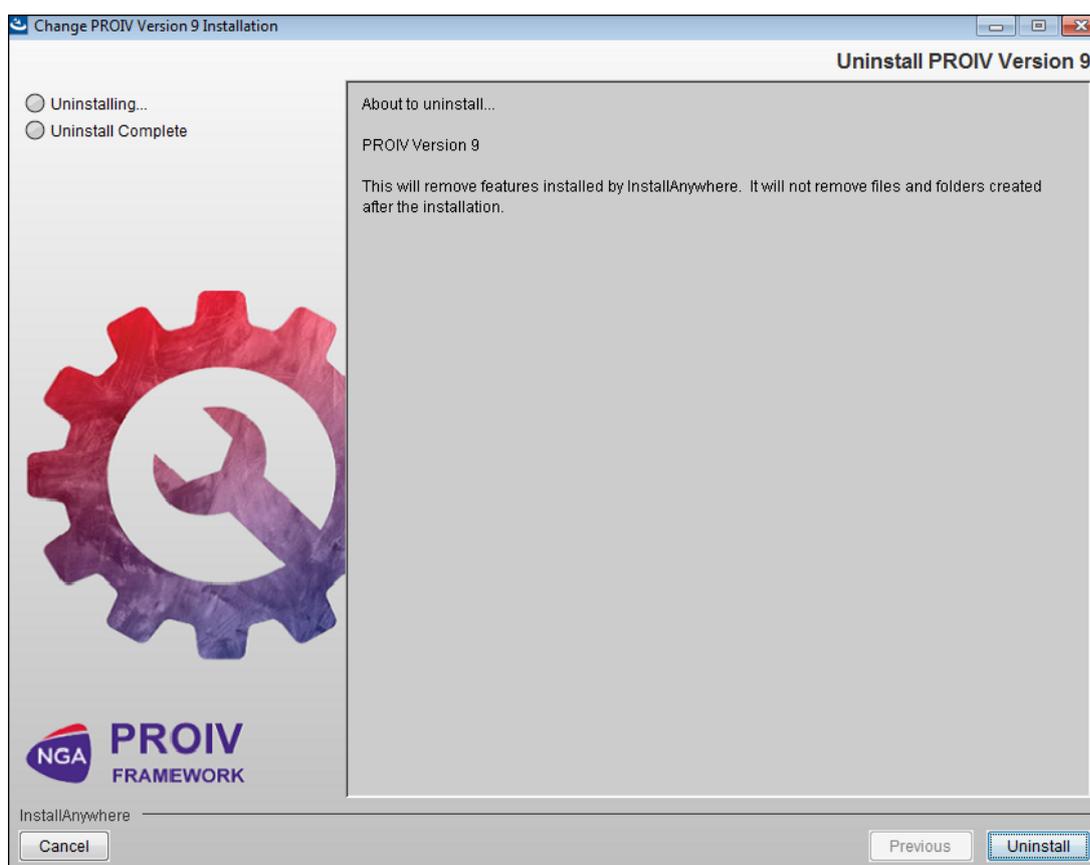
3.11.1 File Permissions

When not installed as root, the proiv installation files are owned by the user running the installation process. If you change permissions on files and directories then you need to ensure that the PROIV components which access them are able to do so otherwise the installation may generate errors or warnings.

4 Uninstalling Server Software on Windows

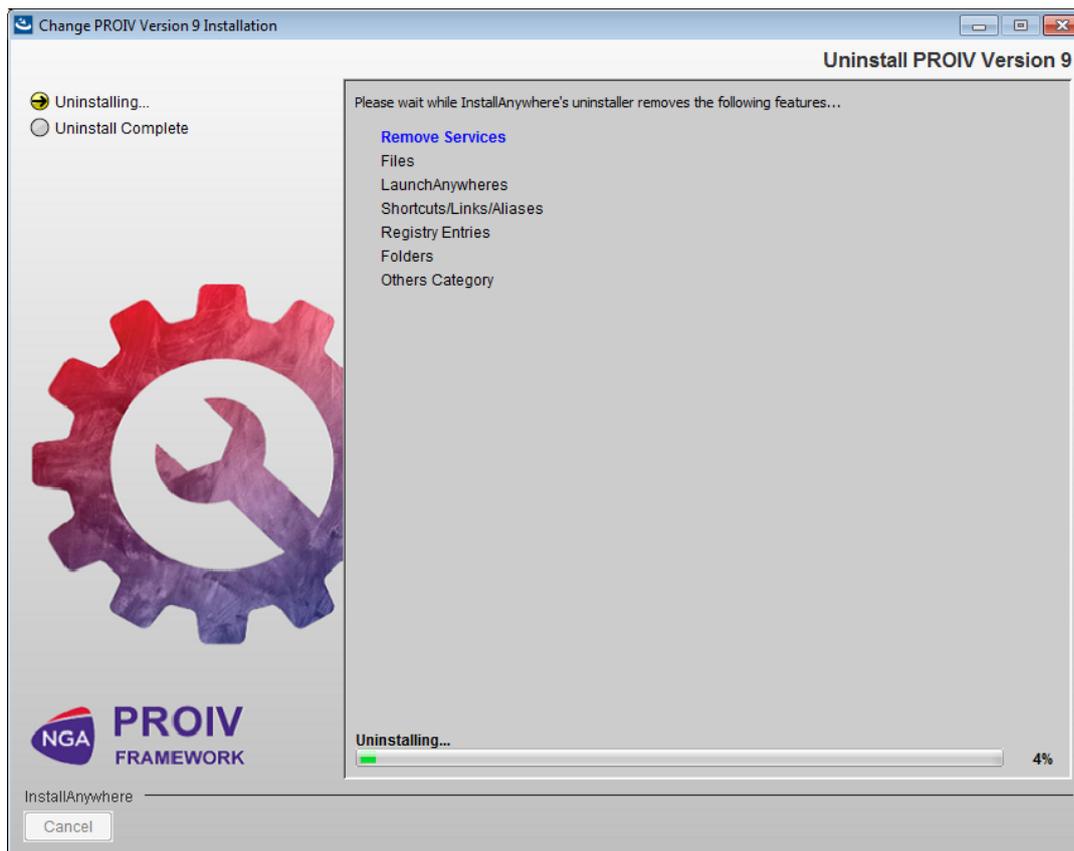
Follow the steps to uninstall the server software on Windows.

Click **Start > All Programs > Zellis > PROIV Version 9** and click **Uninstall_PROIV Version 9**.



Click Uninstall.

The progress on the uninstall process appears in the panel.



A pop-up window appears to confirm your wish to retain the bootstraps folder. If you wish to retain the bootstraps, click **Yes**.

When the uninstall process completes, it reports a list of all folders where it was unable to remove all the content. These folders contain files which are added outside of the installation process. For example, they may contain log files which are created by PROIV during execution, this is perfectly normal.

5 Uninstalling Server Software On UNIX

To uninstall PROIV on a UNIX system, login as root (or whatever user id has permissions to perform the necessary file delete operations), navigate to the top-level folder of your PROIV installation; if you did a default install, then `/opt/zellis/proiv_version_9`.

Execute the uninstall command as appears in the following snapshot.

Once the uninstall process starts, press **Enter** to continue with the product removal process.

```
[root@dev-server _proiv_version_9_]#./Uninstall
=====
proiv_version_9                               (created with InstallAnywhere)
=====
Preparing CONSOLE Mode Uninstallation...

=====
Uninstall proiv_version_9
-----

About to uninstall...

proiv_version_9

This will remove features installed by InstallAnywhere.  It will not remove
files amd folders created after the installation.

PRESS <ENTER> TO CONTINUE:
```

If you wish to keep the bootstraps, enter 1.

```
=====
Uninstalling...
-----

..*
*
*****
*****
*****
*****
..*
*
*****

=====
Uninstalling PROIV Version 9
-----

Do you want to retain the bootstraps folder
/opt/zellis/proiv_version_9/virtual_machine/boots ?

->1- Yes
   2- No

ENTER THE NUMBER OF THE DESIRED CHOICE, OR PRESS <ENTER> TO ACCEPT THE
DEFAULT:
```

```
*
*****
*****
*****
*****

-----
Uninstall Complete
-----

All items were successfully uninstalled.
```

The uninstallation of the software is now completed.

6 Client Software

6.1 Client Installation

The PROIV MFC Client and Forms Designer are distributed as a single installation executable as per previous releases of the product. To install the software, double-click the installation executable.

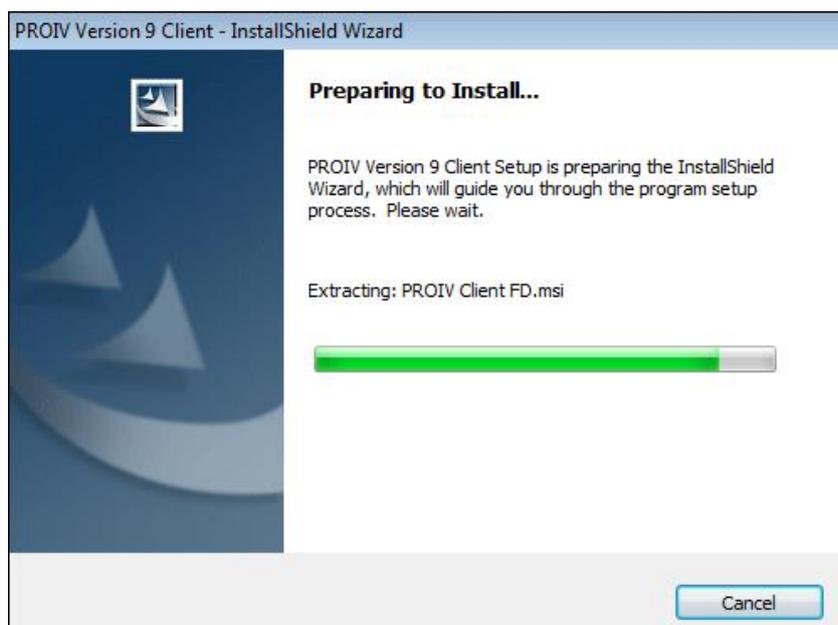
The installation takes the form of a set of wizards, which you move forward or backward by using **Previous** and **Next** options. However, if you wish to abort the installation then click **Cancel**.

6.1.1 Upgrading

The 9.900 MFC Client installation uses a new Windows registry hive which will be created to hold and maintain system settings: HKEY_CURRENT_USER/Software/Zellis. We would recommend uninstalling any previous versions of the MFC client prior to installing the new 9.900. but if you wish to keep previous settings you can export the HKEY_CURRENT_USER/Software/NorthgateArinso branch to a registry file, replace all occurrences of NorthgateArinso with Zellis and re-import. This requires administrator access and should only be carried out by competent individuals.

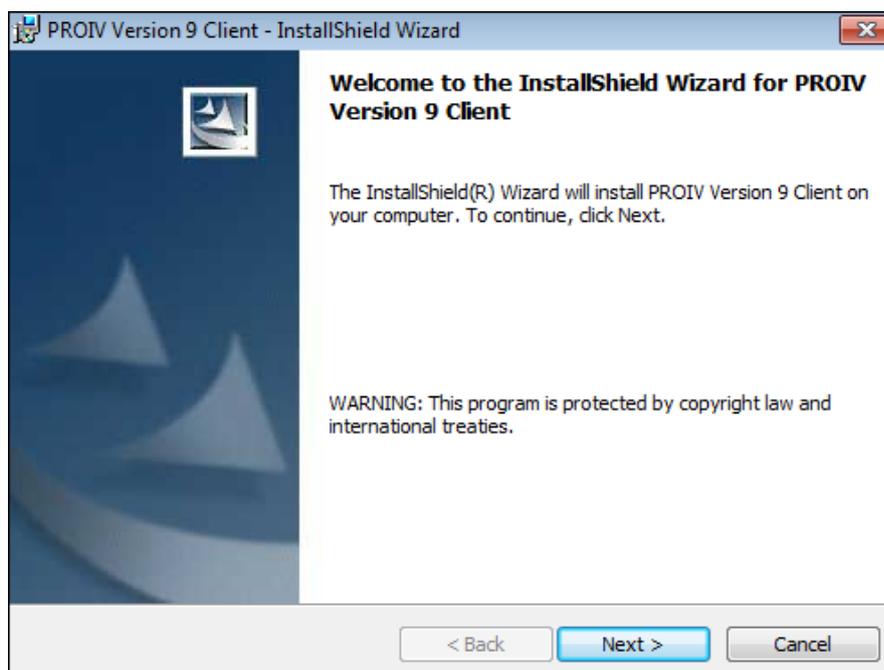
6.1.2 Installer Preparation

A window appears that indicates the installer is preparing to install and indicates the progress through this preparation. The only option available to the user at this time is Cancel, which if pressed will cancel the installation process.



6.1.3 Installer Commencement Panel

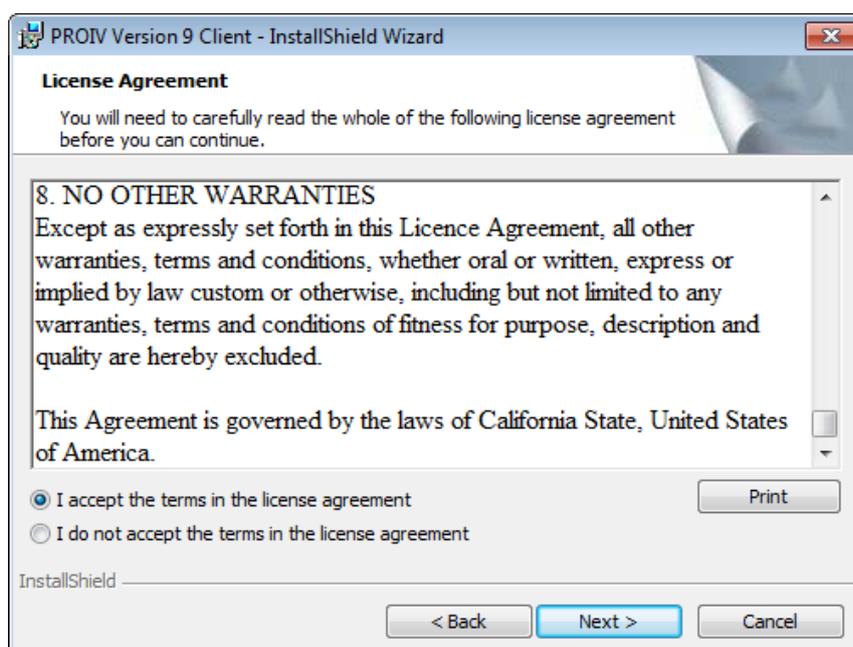
When the installer preparation is complete the welcome panel appears:



Click **Next** to continue with the installation or cancel to abandon the installation.

6.1.4 Client Licence Agreement

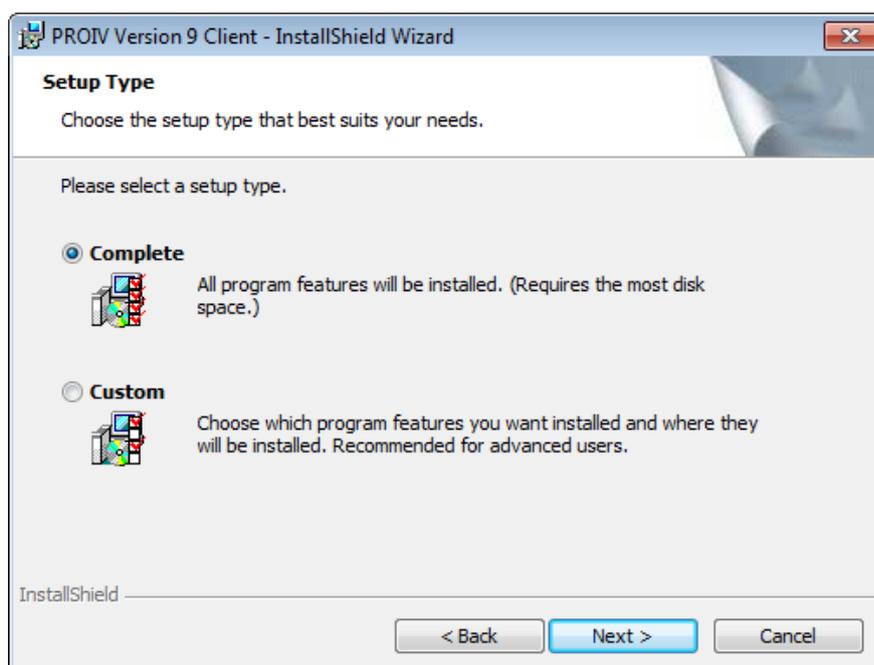
To install the software you must accept the licence agreement, scroll the licence agreement to the bottom and click “**I accept the terms of the Licence Agreement**”.



Note: You cannot select this without scrolling to the bottom of the agreement; this ensures you have read the terms of the licence.

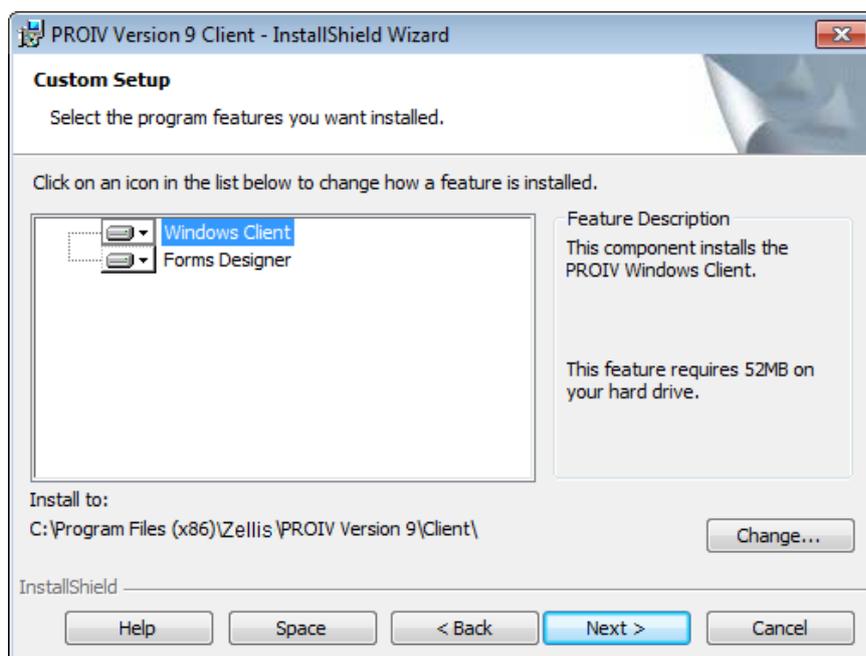
6.1.5 Installation Type

The PROIV MFC Client can be installed as one of the two types 'Complete' and 'Custom'. **Complete** installs the PROIV MFC Client with all available features whereas **Custom** installs the selected features.



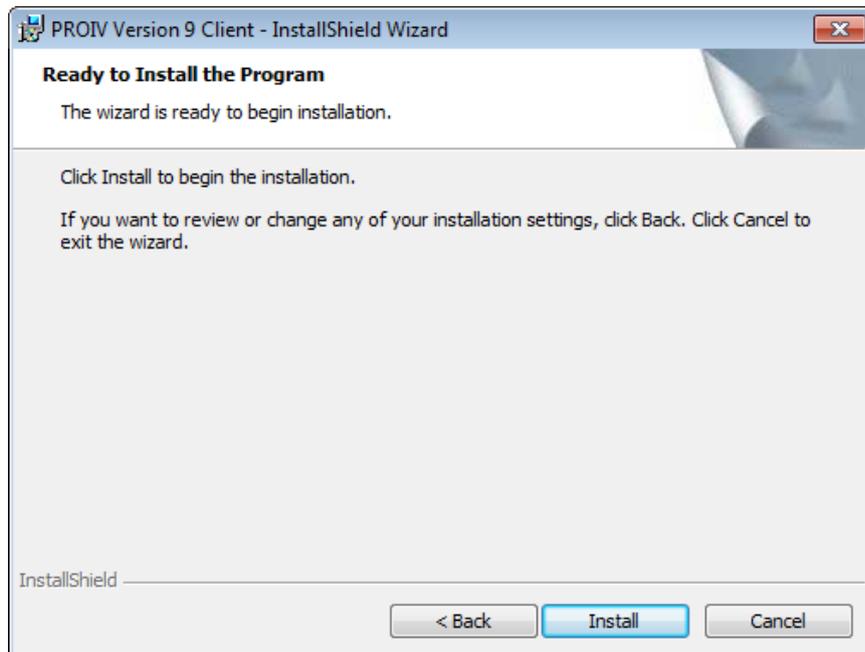
6.1.6 Custom Setup Panel

This wizard appears only if you select 'Custom' in the previous panel. Select the required components for installation.



Note: The default installation folder has been changed to reflect the new name of the PROIV holding company (Zellis). It is recommended that you perform an uninstall of all previous versions of the Client (installed as NorthgateArinso) prior to installing version 9.900 unless you are upgrading a version of 9.4 onwards

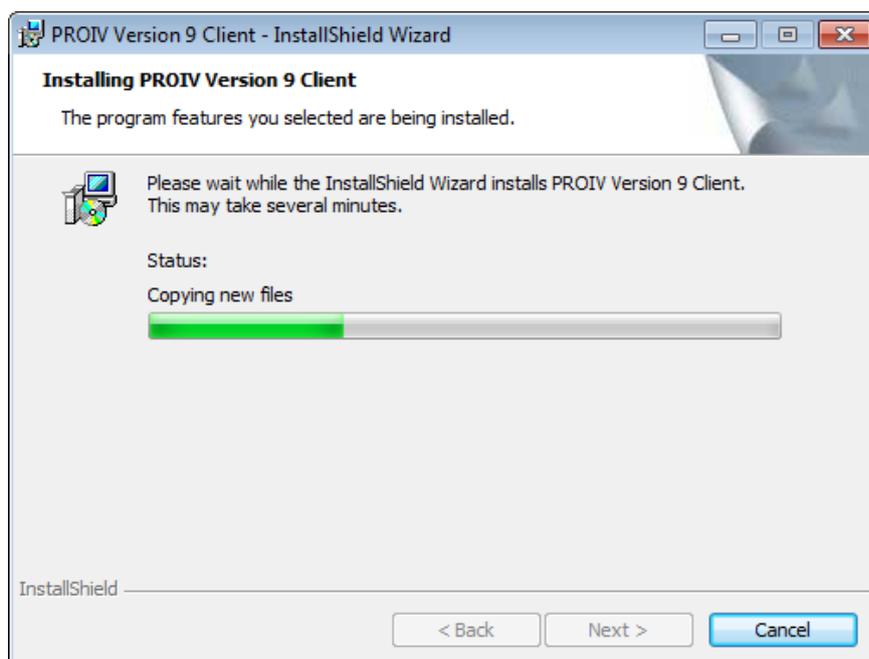
6.1.7 Ready to Install Panel



Click **Install** to begin the installation, **Back** to navigate to the previous wizard panels or **Cancel** to abandon the installation.

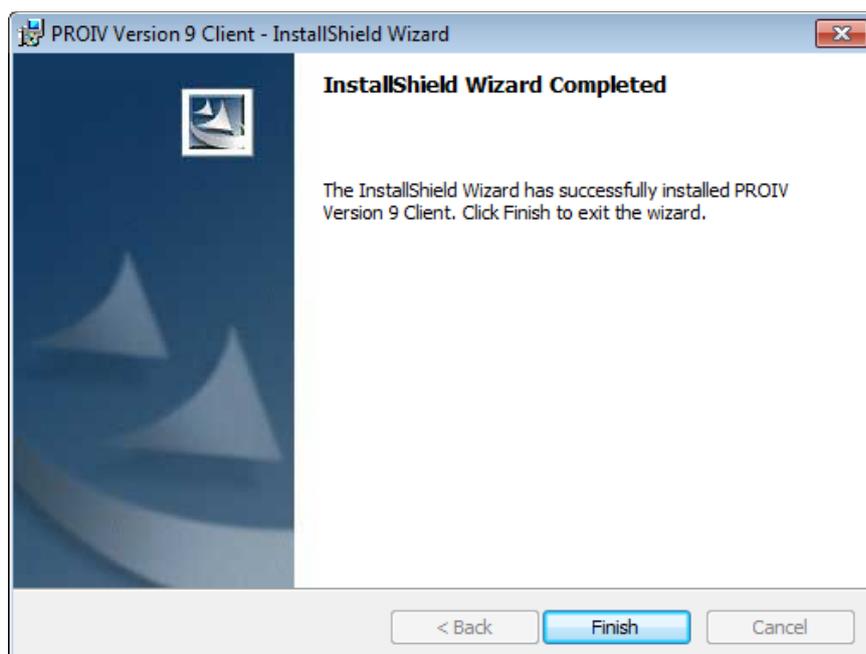
6.1.8 Installation Progress

The status bar indicates the progress of the installation.



6.1.9 Installation Complete

When the installation is complete, the following screen appears. Click **Finish**.



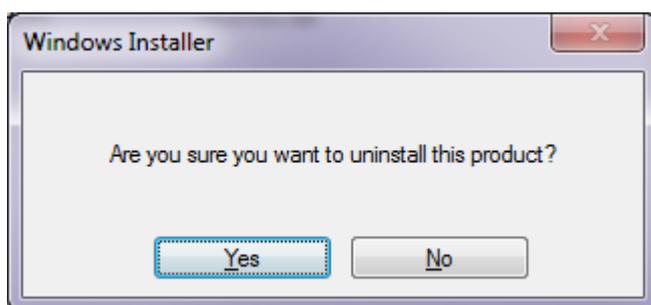
6.2 Client Uninstallation

Uninstalling the PROIV client is a simple process, ensure you are logged in as a user with the correct access rights and then navigate to the Northgate Arinso/PROIV Version 9 Client folder from the Windows Start Menu, select Uninstall PROIV Client.

The uninstall will start and display a small window showing the uninstall progress, once complete the client will have been removed from the system.

6.2.1 Confirmation panel

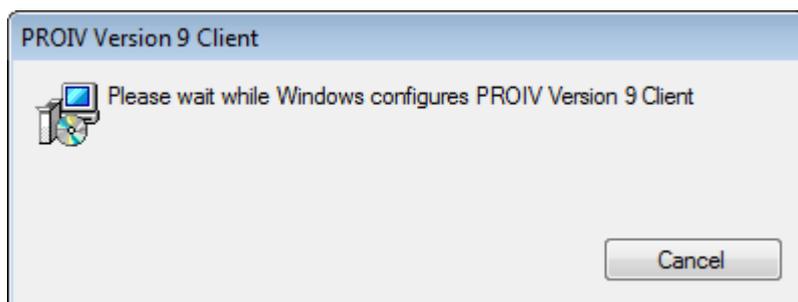
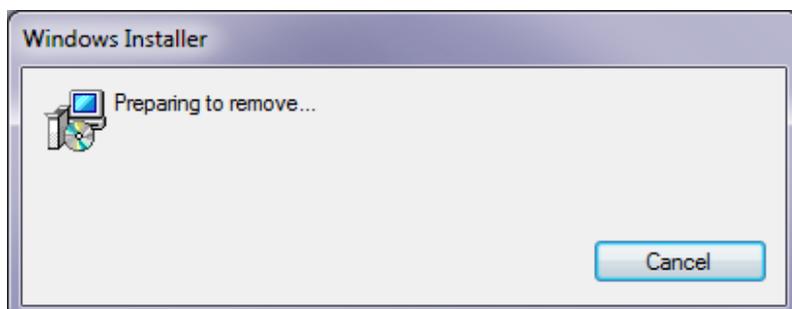
The uninstall process commences by displaying a window, which enquires confirmation that the intention is to uninstall the PROIV MFC Client

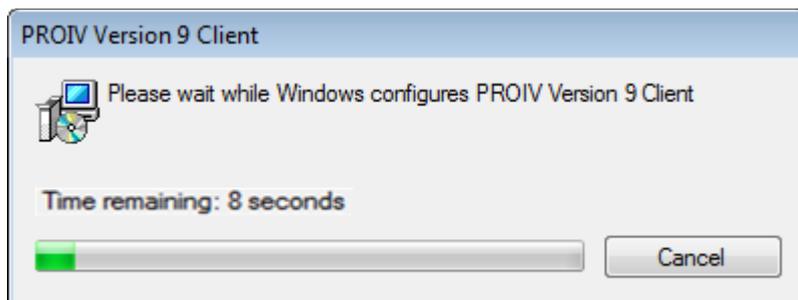
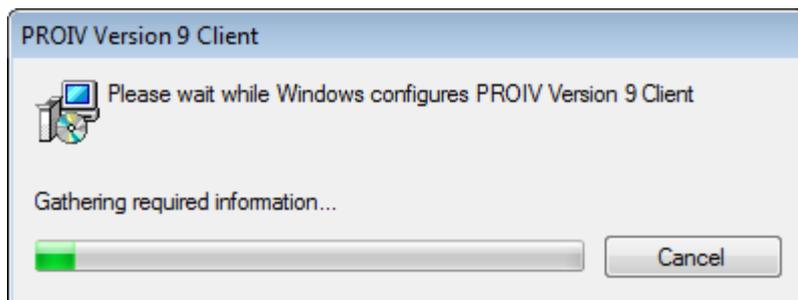


Click **Yes** to continue with the uninstall or No to cancel the uninstall.

6.2.2 Uninstall Progress

The uninstall process then goes through a number of stages none of which require any user interaction.





When the uninstall process is complete the uninstaller closes without user interaction.

7 Document Control

Document Information

	Information
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Version	Issue Date	Changes
1.0	1 st May 2019	Original
2.0	Spring 2020	Updated for version 9.3
3.0	May 2020	Updated for release of 9.4
4.0	Aug 2020	Updated for release 9.50
5.0	November 2020	Updated for release 9.60
6.0	August 2021	Updated for release 9.70
7.0	February 2022	Updated for release 9.800
8.0	April 2022	Updated for 9.900 with Java 11 support

The logo for Zellis, featuring the word "zellis" in a bold, dark blue, lowercase sans-serif font. A red triangle is positioned above the letter 'i', pointing downwards towards it. The logo is set against a light gray background that forms a large triangle pointing upwards from the bottom left corner of the page.

zellis

**For further information please
visit [zellis.com](https://www.zellis.com)**

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