ENFOCUS

PITSTOP WORKGROUP MANAGER 2023

用户指南

04 - 2023

内容

1. 关于 **Enfocus PitStop Workgroup Manager** **3**

2. 设置 **Workgroup Manager** **5**

2.1. 安装 Workgroup Manager 5

2.2. 在 Workgroup Manager 中激活 PitStop Pro 许可 5

2.2.1. 激活 Workgroup Manager（在线方式） 6

2.2.2. 激活 Workgroup Manager（离线方式） 7

2.3. 定义用户和组 9

2.3.1. 关于 PitStop Pro 中已分发的预设 11

2.3.2. 设置用户 13

2.3.3. 设置组 14

3. 针对 **Workgroup Manager** 设置 **PitStop Pro** **17**

3.1. 安装 PitStop Pro 17

3.2. 配置 PitStop Pro 以使用 Workgroup Manager 浮动许可 17

4. 监控 **PitStop Workgroup Manager** 用户 **19**

5. 断开 **WorkGroup Manager** 用户连接 **21**

6. 附录 **22**

6.1. 为 Workgroup Manager 启用全磁盘访问（在 Catalina 上） 22

6.2. 其他许可功能 22

6.2.1. 修复许可 22

6.2.2. 取消激活许可 24

6.2.3. 在计算机间移动许可 25

6.3. 防火墙设置 25

6.3.1. 预设分发的防火墙设置 25

6.3.2. 许可分发的防火墙设置 26

7. 第三方许可信息 **30**

8. Copyrights **40**

1. 关于 Enfocus PitStop Workgroup Manager

Enfocus PitStop Workgroup Manager 是一个应用程序，用于在工作组环境下集中管理 **PitStop Pro** 产品的设置。

Workgroup Manager 的主要任务是：

- 分发和管理 **PitStop Pro** 许可。使用 Workgroup Manager，不必为工作组中的每个用户准备一个 PitStop Pro 许可。相反，可使用"浮动许可"，在网络用户使用应用程序期间，向用户分配浮动许可。关闭应用程序时，许可被释放，并可供其他用户使用。例如，如果有 5 个浮动许可，则最多 5 名用户可同时使用该应用程序。

- 向工作组内的用户分发 **PitStop Pro** 预设（动作列表、预检规范、全局变更...）。通过这种方式可以确保工作组中所有用户使用合适的预设。此外，可以根据需要为特定用户或用户组定义限制。

- 监控连接到 **Enfocus PitStop Workgroup Manager** 的用户。例如，通过 Workgroup Manager 可以查看他们何时最后一次连接和从哪台机器连接。

它如何工作？

Enfocus PitStop Workgroup Manager 必须安装在服务器上并进行设置。请参阅设置 *Workgroup Manager* 页上的 5。

Enfocus PitStop Pro 必须安装在工作组中所有用户的计算机上并且必须配置为能够使用 Workgroup Manager 浮动许可。请参阅针对 *Workgroup Manager* 设置 *PitStop Pro* 页上的 17

工作组中的用户每次启动 Enfocus PitStopPro 时，其 PitStop Pro 副本连接到 PitStop Workgroup Manager 并检查是否有可用的浮动许可。如果有可用许可，用户可以开始使用 PitStop Pro；如果有分发的预设，用户可以访问预设管理器中的另一组预设。用户关闭 PitStop Pro 时，网络中的其他用户可以使用释放出的许可。

如果没有可用浮动许可，PitStop 用户将看到一个警告。

WorkgrouP Manager 界面

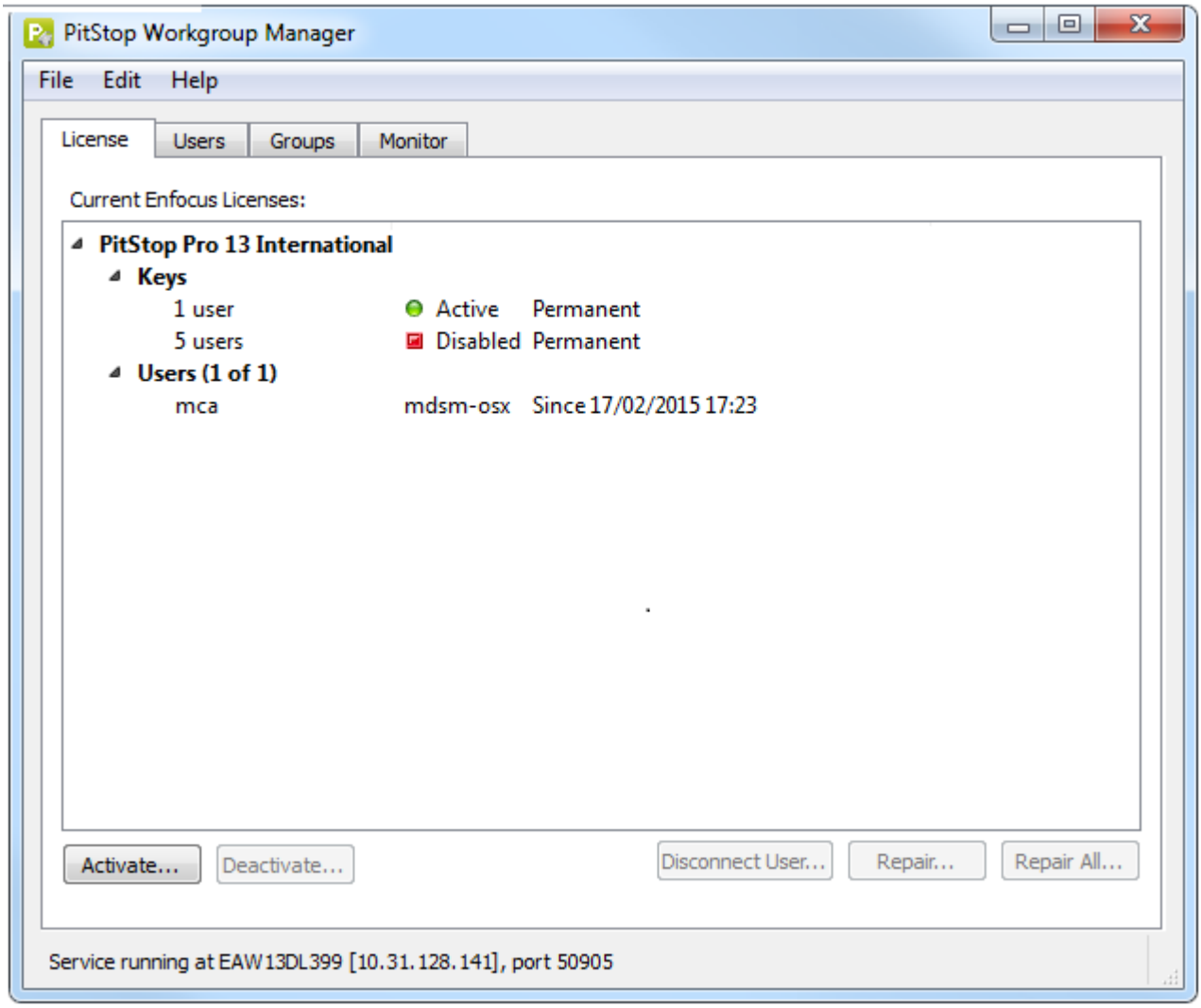
WorkgrouP Manager 界面由四个选项卡组成：

- 许可选项卡用于管理和激活 PitStop Pro 许可。

- 用户选项卡和组选项卡允许定义用户和用户组以及设置预设分发。

- 显示器选项卡反馈最近连接过的 PitStop Pro 用户。

下面您将看到作为示例的界面的四个选项卡。许可选项卡为第一个选项卡。



注意应用程序标题栏中的 IP 地址。它是运行 Workgroup Manager 的服务器的 IP 地址。端口为 Workgroup Manager 服务用以分发预设的端口。为工作组中的用户设置 PitStop Pro 时会需要此信息。更多信息，请参阅配置 *PitStop Pro* 以使用 *Workgroup Manager* 浮动许可 页上的 17。

2. 设置 Workgroup Manager

设置 Workgroup Manager 包括以下步骤：

1. 在服务器上安装 Workgroup Manager。
2. 在 Workgroup Manager 中激活 PitStop Pro 浮动许可。
3. 定义允许使用 PitStop Pro 的用户和/或用户组并设置预设分发。

2.1. 安装 Workgroup Manager

Workgroup Manager 必须安装在使用 PitStop Pro 的工作组中的所有用户均可访问的服务器上。系统要求请参阅 Enfocus 网站 *http://www.enfocus.com/en/support/system-requirements/pitstop-pro-system-requirements*）。

注：确保服务器无法进入休眠模式。否则，连接到服务器的 PitStop Pro 用户只有在他们重启 Adobe Acrobat 和 PitStop Pro 后才能获取许可。

安装 Workgroup Manager

1. 从 Enfocus 网站 (*http://www.enfocus.com/en/products/pitstop-pro/pitstop-workgroup-manager*) 上下载安装程序。
2. 双击安装程序。
3. 遵照屏幕指示操作。

2.2. 在 Workgroup Manager 中激活 PitStop Pro 许可

浮动许可

PitStop Workgroup Manager 使用 Enfocus PitStop Pro 浮动许可（从 PitStop Pro 10 开始）。

在网络用户使用应用程序期间，向用户分配浮动许可。关闭应用程序时，浮动许可被释放，并可供其他用户使用。例如，如果有 5 个浮动许可，则意味着有 5 名用户可同时使用该应用程序。

注：PitStop Workgroup Manager 不支持单用户许可和批量许可！

产品密钥和产品密钥文件

浮动许可（和任何其他 Enfocus 许可一样）是通过产品密钥或产品密钥文件提供的。该文件为 HTML 文件，双击可以查看文件中包含什么产品密钥。

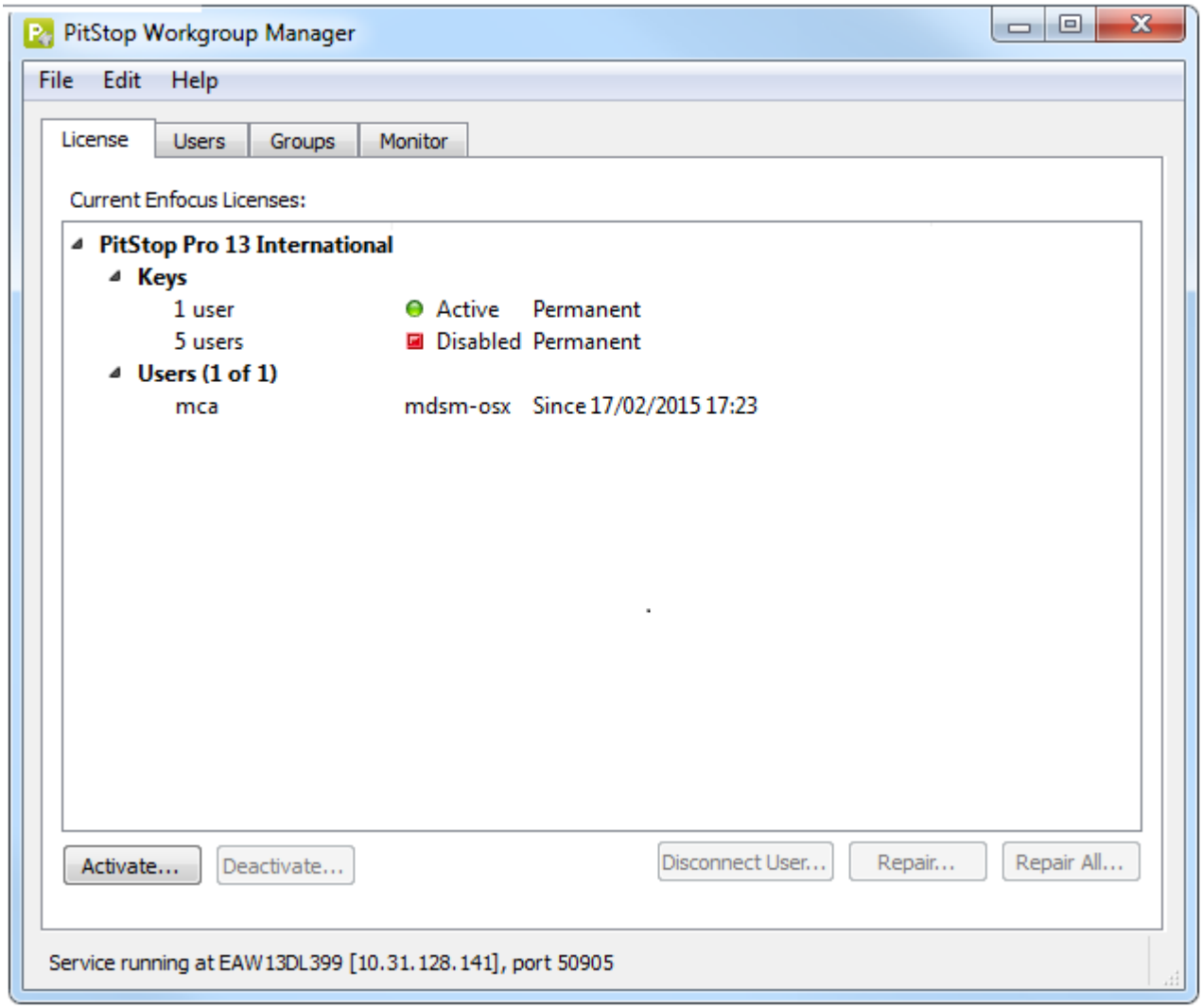
如何激活许可

具体步骤取决于您安装 PitStop Workgroup Manager 的计算机。

- 如果将运行 PitStop Workgroup Manager 的计算机联网，则可以获得产品密钥的许可，并通过该计算机将其激活。请参阅激活 *Workgroup Manager*（在线方式） 页上的 6。
- 否则，必须创建激活请求文件并使用联网计算机将其上载到激活服务器。请参阅激活 *Workgroup Manager*（离线方式） 页上的 7。

许可选项卡

可在许可选项卡上管理许可。选项卡显示已激活的许可密钥（和密钥状态）、每个密钥允许的用户数量（=许可数量）及当前连接的用户。示例如下。



2.2.1. 激活 Workgroup Manager（在线方式）

在开始前：

- 您的系统必须具有互联网访问权限才能与 Enfocus 网络服务器通信。
- 您必须有一个产品密钥。

- 如果您正在使用防火墙，务必使用端口 80 和 443 允许 Workgroup Manager 与 *https://licensingservices.esko.com* 通信。

激活 Workgroup Manager

1. 在 Workgroup Manager 的许可选项卡中，单击激活。
   Enfocus 软件激活对话框打开。
2. 输入您的 Enfocus ID 和密码。

   Enfocus ID 作为新账户，取代全部原有 Enfocus 账号（webshop、产品激活与支持网站账号）。如果您还没有 Enfocus ID，单击创建 **Enfocus ID** 链接，然后遵照屏幕指示操作。
3. 通过以下任一方式输入产品密钥：
   - 在产品密钥字段中输入或复制-粘贴产品密钥。
   - 浏览至产品密钥文件（例如：LicensesBackup.html）或将其拖到产品密钥字段。
   - 输入许可数量，即您已购买的浮动许可数量。
4. 确保禁用离线模式选项。
5. 单击激活。
   您的系统与 Enfocus 网络服务器通信并激活 Workgroup Manager。
6. 要关闭对话框，单击关闭。
   在"许可"选项卡中，可以查看许可的类型、其状态及许可周期。

2.2.2. 激活 Workgroup Manager（离线方式）

在开始前：

- 除了安装有 Workgroup Manager 的离线系统外，您还必须具有可以访问互联网的系统才能与 Enfocus 网络服务器通信。
- 您必须有一个产品密钥。
- 如果您从未安装过 Enfocus 产品，则必须首先初始化应用程序！请参阅初始化 *Workgroup Manager*（离线） 页上的 8。

激活 Workgroup Manager

1. 在具有 Workgroup Manager 的离线系统上：
   a. 在 Workgroup Manager 的许可选项卡中，单击激活。
      Enfocus 软件激活对话框打开。
   b. 输入您的 Enfocus ID 和密码。

      Enfocus ID 作为新账户，取代全部原有 Enfocus 账号（webshop、产品激活与支持网站账号）。如果您还没有 Enfocus ID，单击创建 **Enfocus ID** 链接，然后遵照屏幕指示操作。
   c. 通过以下任一方式输入产品密钥：
      - 在产品密钥字段中输入或复制-粘贴产品密钥。
      - 浏览至产品密钥文件（例如：LicensesBackup.html）或将其拖到产品密钥字段。
      - 输入许可数量，即您已购买的浮动许可数量。
   d. 启用离线模式选项。

e. 单击激活。
新对话框打开。

f. 在步骤 **1** 中，单击保存。
Workgroup Manager 创建一个文件：requestactivate.xml。

2. 使您的在线系统上具有 requestactivate.xml。

例如：您可以将 requestactivate.xml 复制到 U 盘，并将 U 盘连接到在线系统。

3. 在在线系统上：

a. 转至 *http://www.enfocus.com/products/activation?lang=en*

b. 上传 requestactivate.xml，并单击继续。

c. 输入 Enfocus ID 密码，并单击继续。

d. 单击继续确认。
Enfocus 网络浏览器创建一个文件：activation-response.xml。

e. 下载文件。

4. 在具有 Workgroup Manager 的离线系统上：

a. 在步骤 **2**，上传 activation-response.xml。

b. 单击激活。
系统激活 Workgroup Manager。

c. 要关闭确认对话框，单击关闭。
在"许可"选项卡中，可以查看许可的类型、其状态及许可周期。

2.2.2.1. 初始化 Workgroup Manager（离线）

此程序说明如何初始化 Workgroup Manager。请注意，只有在以下情况下才需要初始化：

- 首次在特定计算机上激活 Enfocus 产品。
- 如果想要离线激活 Workgroup Manager，例如在没有互联网访问权的计算机上。在线激活时，在后台自动执行初始化。

前提条件：

- 您需要另一台具有互联网访问权的计算机以便与 Enfocus 网络服务器通信。
- 您需要一个 Enfocus ID。要（在具有互联网访问权限的计算机上）创建一个 Enfocus ID，转到 Enfocus 网站的"账户"部分，并遵照屏幕指示操作。填完表格后，您将接收到一封包含您的 Enfocus ID 和密码的电子邮件。

操作方法：

初始化 Workgroup Manager 包含三个步骤：

1. 在安装有 Workgroup Manager 的计算机上创建初始化请求。
2. 将此文件保存至另一台联网的计算机，并上传至 Enfocus 激活网站。Enfocus 将提供响应文件。
3. 将响应文件上传到安装有 Workgroup Manager 的计算机。

以下说明各步骤。

初始化 Workgroup Manager

1. 在具有 Workgroup Manager 的离线系统上：

a. 在 Workgroup Manager 的许可选项卡中，单击激活。
   Enfocus 软件激活对话框打开。
b. 输入您的 Enfocus ID 和密码。
   Enfocus ID 作为新账户，取代全部原有 Enfocus 账号（webshop、产品激活与支持网站账号）。如果您还没有 Enfocus ID，单击创建 **Enfocus ID** 链接，然后遵照屏幕指示操作。
c. 通过以下任一方式输入产品密钥：
   - 在产品密钥字段中输入或复制-粘贴产品密钥。
   - 浏览至产品密钥文件（例如：LicensesBackup.html）或将其拖到产品密钥字段。
   - 输入许可数量，即您已购买的浮动许可数量。
d. 启用离线模式选项。
e. 单击激活。
   新对话框打开。
f. 在步骤 **1** 中，单击保存。
   Workgroup Manager 创建一个文件：requestinitialize.xml。

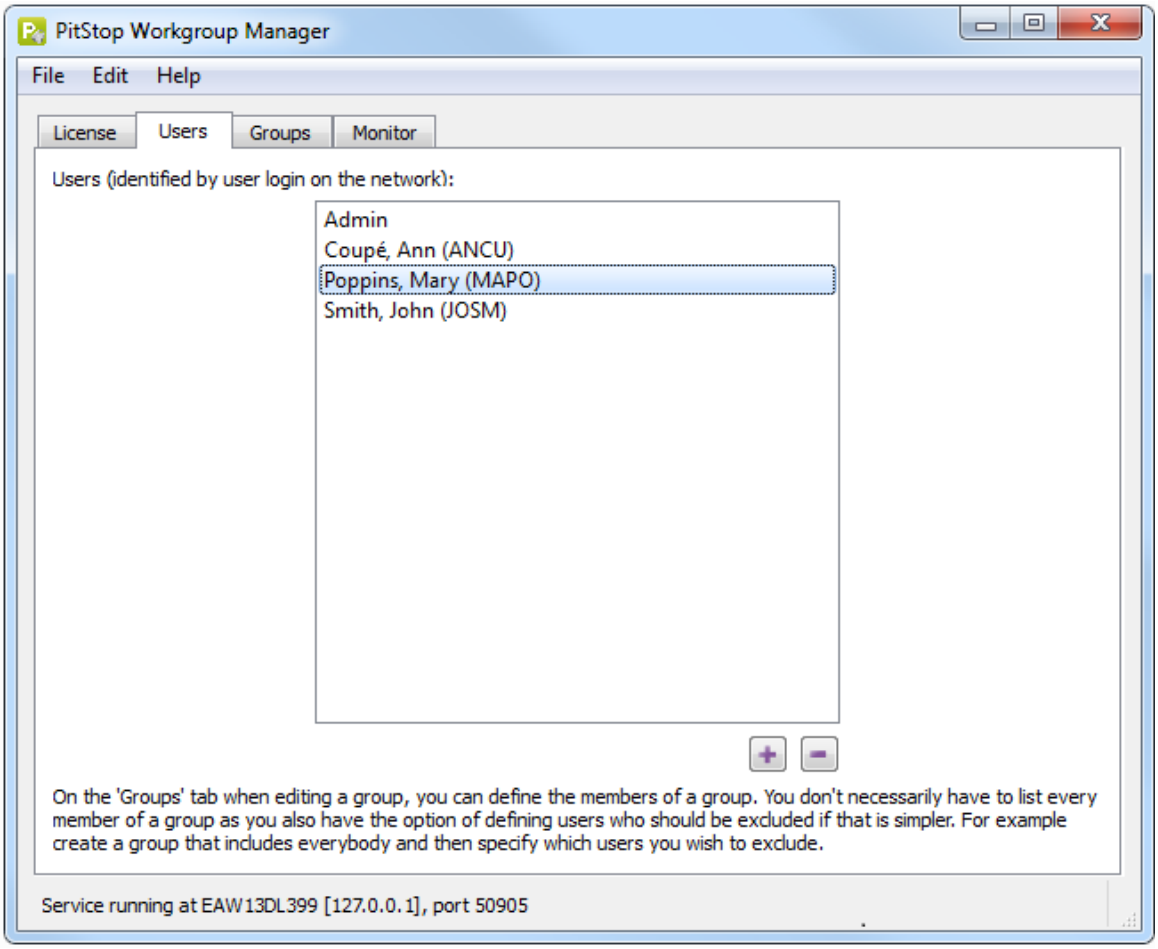
2. 使您的在线系统上具有 requestinitialize.xml。
   例如：您可以将 requestinitialize.xml 复制到 U 盘，并将 U 盘连接到在线系统。
3. 在在线系统上：
   a. 转至 *http://www.enfocus.com/products/activation?lang=en*
   b. 上传 requestinitialize.xml，并单击继续。
   c. 输入 Enfocus ID 密码，并单击继续。
   d. 单击继续确认。
      Enfocus 网络服务器创建一个文件：response.xml。
   e. 下载文件。
4. 在具有 Workgroup Manager 的离线系统上：
   a. 在步骤 **2**（对话框右侧部分）中，上传 response.xml。
   b. 单击初始化。
      系统初始化 Workgroup Manager。

一旦初始化 Workgroup Manager，将出现离线激活对话框。您可以立即继续执行离线激活程序的第一步的最后一小步（保存 requestactivate.xml）。

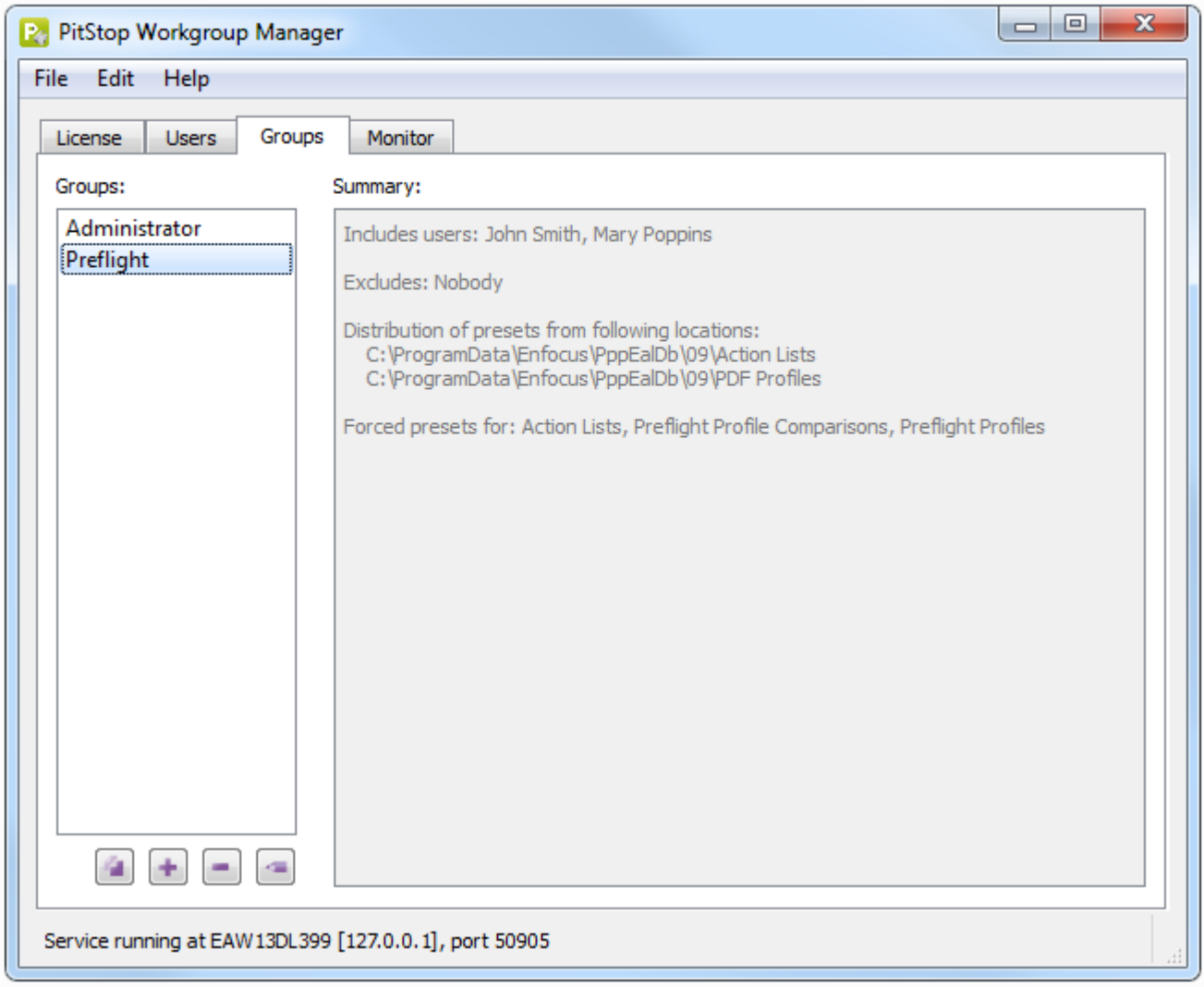
2.3. 定义用户和组

通过定义用户和组，可以为工作组中不同用户组分发不同的预设（动作列表、预检规范...）和/或限制对特定预设的访问。

在用户选项卡中，可根据网络上的用户登录添加用户。



在组选项卡中，可以创建组。对于每个组，您必须确定要分发给组成员的预设以及组中用户无法访问其标准和本地预设的预设。



示例用户和用户组

安装 Enfocus PitStop Workgroup Manager 后，会看到一个预定义用户及两个预定义用户组：

- 一个"管理员"用户
- 一个"管理员"组，仅包含此"管理员"用户
- 一个"预检"组，包含所有其他用户。

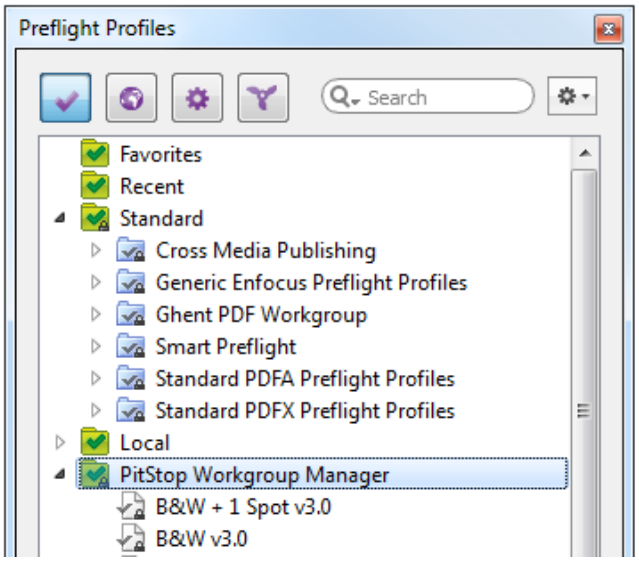
它们只是示例组，尚未定义任何预设。您可将示例组用作定义自己组的基础，也可将其移除并建立自己的组。

2.3.1. 关于 PitStop Pro 中已分发的预设

已分发预设

连接到 PitStop Workgroup Manager 的用户可以查看和使用分发到其所在组的预设。这些预设显示在预设管理器中的一个附加文件夹中，即 PitStop Workgroup Manager 数据库中。

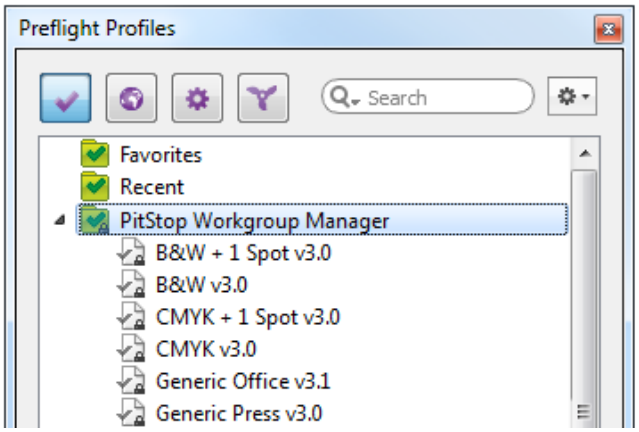
例如，如果预检规范已被分发，用户将会在预检规范面板中看到一个命名为"PitStop Workgroup Manager"的附加文件夹/数据库。



限制为已分发集合的预设

如果 PitStop Pro 用户仅有使用所分发预设的权限而没用使用其标准和本地预设的权限，则只显示 PitStop Workgroup Manager 数据库。本地和标准数据库将被隐藏。

例如，如果 PitStop 用户仅被允许使用 Workgroup Manager 的预检规范，用户将无法在预检规范面板中看到本地和标准数据库。



PitStop Workgroup Manager 数据库的文件夹结构

在 PitStop Workgroup Manager 数据库内部所显示的文件夹结构根据已分发文件夹的结构定义。设置预设分发时，请注意这一点。

其工作流程如下：

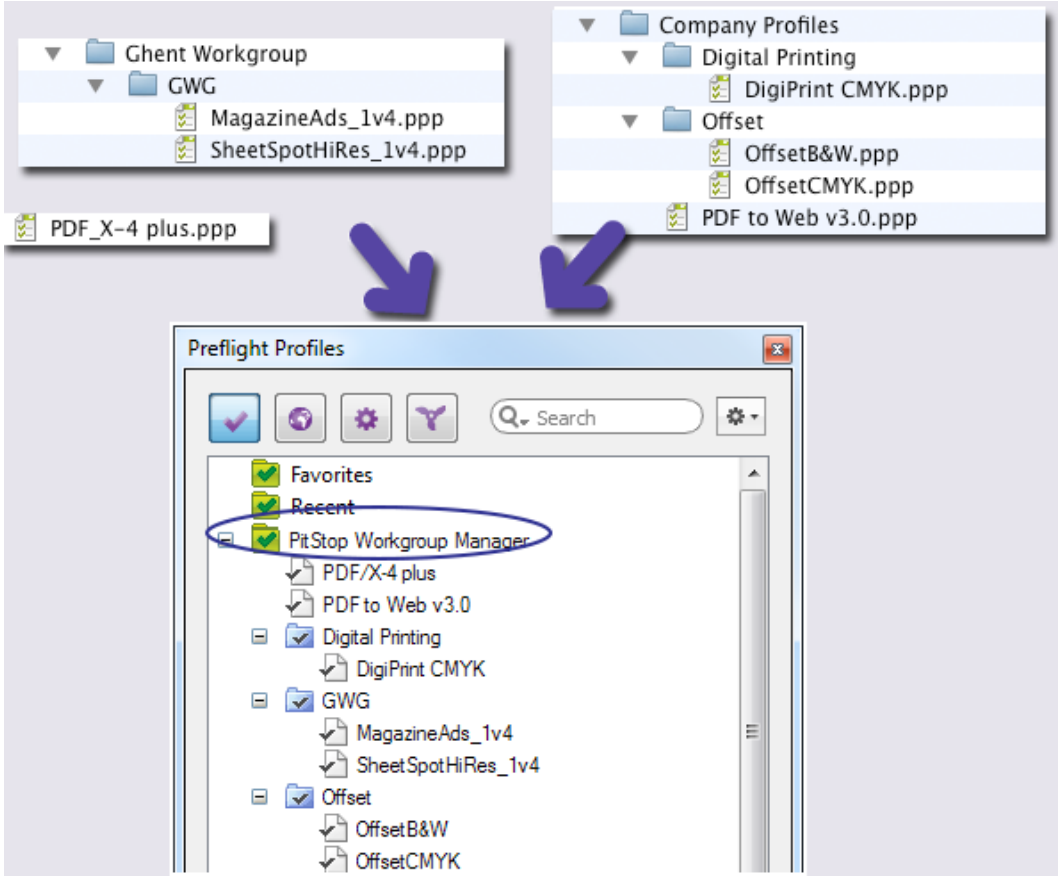
- 如果分发文件，则预设将位于 Workgroup Manager 数据库的顶层。

- 如果分发文件夹，则文件夹内容将位于 Workgroup Manager 数据库的顶层。文件夹自身的名称将不会显示。
- 如果分发的文件夹包含子文件夹，将显示这些子文件夹。

例如：

本例中，需要分发一个文件和两个文件夹。

下图的上部分显示相关文件与文件夹；图像的下部分显示 PitStop 用户看到的 PitStop Workgroup Manager 数据库。



- 单一文件 PDF_X-4 plus.ppp 被放置在 PitStop Workgroup Manager 数据库的顶层。
- Ghent ###文件夹和 Company Profiles 文件夹未显示，但其子文件夹（GWG、Digital Printing 和 Offset）变为 PitStop Workgroup Manager 的子层。
- 文件 PDF to Web v3.0.ppp（位于 Company Profiles 文件夹的根目录下）被放置在 PitStop Workgroup Manager 数据库的顶层。

2.3.2. 设置用户

注：仅在想要分发预设时才需要设置用户（和组）。如果仅使用 WorkGroup Manager 管理 PitStop 许可，则无需设置用户！

注意，没有必要指定 PitStop WorkGroup Manager 必须管理 PitStop Pro 预设的所有用户。只需列出 PitStop Pro 预设设置不应受 PitStop Workgroup Manager 影响的特定用户即可。在这种情况下，设置组时，只需包括所有用户（选择"每个人"）并排除特定用户。

在 WorkGroup Manager 中设置用户

1. 切换为用户选项卡。
2. 添加用户
   a. 单击 。
   b. 输入要添加的用户名，使用空格、逗号或分号隔开。
      - 该用户名应为用于登录网络的用户名。
      - 如果用户名包含空格、逗号或分号，则可通过在在空格、逗号或分号前添加一个反斜杠输入用户名，例如"John\ Smith"。
   c. 单击确定。
      用户（及登录名和显示名）按照字母顺序列在用户选项卡上。
3. （如需要）移除一个或多个用户，请在列表中选择这些用户并单击 。

注：添加已连接或近期连接到 PitStop Workgroup Manager 的用户有一种简单的方法。只需切换至显示器选项卡，右击相关用户并选择添加到用户列表。更多信息，请参阅*监控 PitStop Workgroup Manager 用户* 页上的 19。

2.3.3. 设置组

注：仅在想要分发预设时才需要设置组（和用户）。如果仅使用 WorkGroup Manager 管理 PitStop 许可，则无需设置组！

设置组的步骤：

- 选择组名。
- 定义属于该组的用户。包括"每个人"并排除某些特定用户，或者包括特定用户集或用户组。
- 为组设置预设分发。

预设分发是在组级别而非用户级别执行。即便某些预设仅为一个用户而分发，也必须为该特定用户创建一个组。

在 WorkGroup Manager 中设置组

1. 切换为组选项卡。
2. 创建组
   a. 单击 。

      另外可以通过选择现有组并单击 （复制）开始复制现有组。

      这样，组管理编辑器将打开。
   b. 输入一个有意义的组名。
   c. 定义需添加到组的用户。
   d. 设置预设分发。

e. 单击确定。

3. 要更改组，双击组或选择组并单击 （编辑）。
这样，组管理编辑器将打开。更多信息，请参阅定义需添加到组的用户和设置预设分发。

4. （如需要）从列表移除组，选择组并单击 （移除）。

2.3.3.1. 定义组中用户

可通过两种方法定义组中用户：

- 将包括用户设置为"每个用户"，并指定要从组中排除的用户（或组）
- 将包括用户设置为"指定用户和组"，并指定要包括在组中的用户（或组）。尽管如此，也仍可以指定要排除的用户或组。

要在群组管理编辑器中管理包括或排除列表：

1. 要添加用户，单击 （添加用户）。
如果查找的用户不在列表中，确保您已添加用户选项卡上的相关用户。

2. 要添加组，单击 （添加组）。

3. 要从包括或排除列表中移除用户或组，选择用户或组并单击 （移除）。

2.3.3.2. 设置预设分发

在"组管理编辑器"的底部，可以为正在设置的组定义预设分发和限制。

您可以分发包含预设的单个文件和文件夹；但请注意，这会影响 PitStop 用户在预设管理器中看到的文件夹结构。请参阅关于 *PitStop Pro* 中已分发的预设 页上的 11。请注意，需要分发的文件或文件夹必须位于运行 Workgroup Manager 的服务器上。

注：如果您正在 **Catalina** 上运行 Workgroup Manager，您需要为 *Workgroup Manager* 启用全磁盘访问。

设置预设分发

1. 定义想要 PitStop Workgroup Manager 分发给所有组成员的预设：
   a. 要将文件夹路径添加至列表，单击 （添加文件夹）并浏览至合适的文件夹。
   此时将分发在该文件夹（及其所有子文件夹）中找到的所有预设。
   b. 要将预设文件添加至列表，单击 （添加文件）并浏览至合适的文件。
   c. 要从列表中移除文件或文件夹的路径，选择该路径并单击 （移除）。
   d. 要重新定义文件或文件夹的路径，单击 （编辑）并浏览至正确的文件或文件夹。

2. 选择要对其应用限制的预设类型。

   例如，如果您选择动作列表，则该组用户只能访问 PitStop Workgroup Manager 分发的动作列表。所有标准和本地动作列表将被隐藏。

检查更新

Workgroup Manager 每 5 分钟检查一次服务器上的预设是否已更改。如果已更改，会将更新的版本分发给用户。

请注意，您可以更改两次检查之间的时间间隔或者（如果不打算更新预设）甚至可以按如下步骤禁用检查：

1. 单击编辑 > 首选项 > 时间间隔.
2. 根据需要修改该首选项：
   - 要更改时间间隔，确保勾选包含分发预设的文件夹变更的检查频率并输入首选的分钟数。
   - 要禁用检查，取消勾选包含分发预设的文件夹变更的检查频率复选框。

3. 针对 Workgroup Manager 设置 PitStop Pro

设置 PitStop Pro 以便其能够与 Workgroup Manager 一同使用；具体步骤包括：

- （在工作组中每个用户的计算机上）安装 Pitstop Pro。
- 配置工作组中的每个 PitStop Pro 副本以便能够使用 Workgroup Manager 许可。

3.1. 安装 PitStop Pro

必须将 PitStop Pro 安装在工作组中每一名想要通过 Workgroup Manager 使用 PitStop Pro 的用户的计算机上。

注：PitStop Pro 是一种 Adobe Acrobat 专业版插件。安装 PitStop Pro 前，确保 Adobe Acrobat 已关闭。

安装 PitStop Pro

1. 从 Enfocus 网站上下载 PitStop Pro。
   此 URL 在您购买时收到的电子邮件中提及。
2. 双击安装程序。
3. 遵照屏幕指示操作。

3.2. 配置 PitStop Pro 以使用 Workgroup Manager 浮动许可

开始前：确保 Workgroup Manager 中的浮动许可已激活（参阅在 *Workgroup Manager* 中激活 *PitStop Pro* 许可 页上的 5）。否则，PitStop 将无法发现许可，导致用户无法使用许可。

确保 PitStop Pro 使用 Enfocus PitStop Workgroup Manager 浮动许可

1. 在 PitStop Pro 中，打开 PitStop Pro 首选项。
   - 在 Windows 中，选择编辑 > 首选项 > **Enfocus PitStop Pro**
   - 在 Mac 中，选择 **Acrobat** > 首选项 > **Enfocus PitStop Pro**
2. 打开许可类别。
3. 输入运行 Enfocus PitStop Workgroup Manager 的计算机地址：
   - 单击选择服务器，选择检测到的 Workgroup Manager 服务器之一，或
   - 输入 IP 地址或服务器名称。

注：可在Workgroup Manager的状态栏中找到许可服务器的IP地址。您可以对其进行选择，以及将其复制粘贴到地址文本框中。

4. 如果可通过除默认端口以外的另一端口访问计算机，则禁用使用默认端口并针对许可证服务器（=验证您的 PitStop Pro 许可的服务）和 Workgroup Manager（=分配预设的服务）输入要使用的端口编号。也可在 Workgroup Manager 的状态栏找到 Workgroup Manager 的端口。当您使用"选择服务器"按钮（参阅上一步）输入服务器地址时，将自动填写 PitStop Workgroup Manager 的端口。

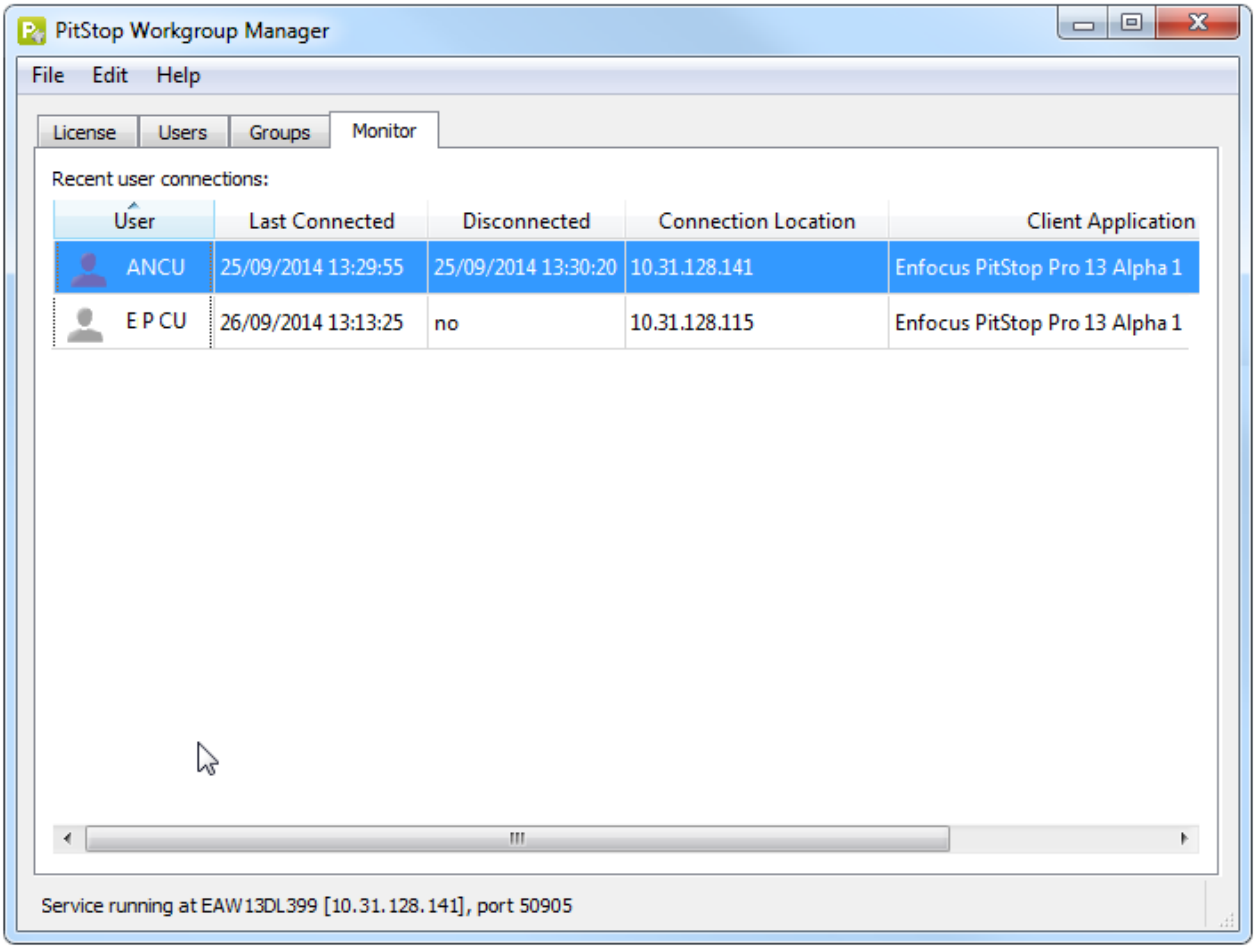
5. 单击确定。

如果 PitStop Workgroup Manager 有可用的浮动许可，则使用这些许可之一。每次启动 PitStop Pro 时，都将请求浮动许可。

浮动许可将在关闭 PitStop Pro 或更改许可服务器地址时被释放。

4. 监控 PitStop Workgroup Manager 用户

显示器选项卡给出近期连接到 Workgroup Manager 的用户的概述。



针对每个用户，可以查看：

- 用户名（用户网络登录）
- 用户最后一次连接的日期和时间
- 连接状态（连接或未连接）
- 用户连接到 Workgroup Manager 的 IP 地址
- 连接用户的 PitStop 版本

注：如果用户通过较早的 PitStop Pro 版本（12 或更早版本）连接到 Workgroup Manager，部分信息可能不可用，例如 PitStop 版本、连接位置和断线时间。

向用户选项卡添加用户

在此屏幕中，也可以通过从上下文菜单选择添加到用户列表向用户选项卡添加用户（请参阅设置用户 页上的 13）。

隐藏较早的连接

可以设置时间间隔首选项，确保不再显示较早的已关闭连接。要实现此功能：

1. 选择编辑 > 首选项 > 时间间隔
2. 选择清除早于以下时间的已关闭连接。
3. 输入适当的小时数。

5. 断开 WorkGroup Manager 用户连接

只要 PitStop Pro/Adobe Acrobat 没有关闭，PitStop Pro 浮动许可就会仍处于使用状态。如果有人因生病或休假而缺席并且忘记关闭 Adobe Acrobat，您可以通过手动断开相关用户连接，收回其 PitStop Pro 证书。

断开 Workgroup Manager 用户连接

1. 打开 Workgroup Manager。
2. 在许可选项卡上，选择相关用户。
3. 单击断开用户连接。
   如果用户在很短时间之前才连接，则系统会要求您稍后再试。在这种情况下，我们建议等几分钟再试。

之后，用户会立即处于断开状态（没有进一步通知），这样其许可便可供另一个用户使用。

注解：

- 从 Workgroup Manager 断开用户连接不会影响 Adobe Acrobat 的使用！相关用户仍可以继续使用 Adobe Acrobat，不会出现任何问题。
- 如果用户的连接已断开但却尝试使用 PitStop Pro 工具，则会出现两种可能性：
  - 如果仍有可用的浮动许可，则用户会获取该许可并继续工作，甚至不会注意到自己的连接曾断开。在许可选项卡上，您会看到该用户再次处于连接状态。
  - 如果没有任何可用的浮动许可，则会出现一个警告，用户无法再使用 PitStop Pro。
- 如果多人在同一台机器上使用不同的 PitStop Pro 版本，他们会一下子全部处于断开状态。无法单独断开其用户连接。但是，如果需要，无需断开连接的用户可立即重新连接（如果有足够的可用许可）。

6. 附录

6.1. 为 Workgroup Manager 启用全磁盘访问（在 Catalina 上）

在 Catalina 上运行 Workgroup Manager 时，必须为 Workgroup Manager 启用全磁盘访问，否则将无法分发预设。

请执行以下操作：

1. 打开系统偏好并选择安全与隐私。
2. 切换为隐私选项卡。
3. 在左列中，从服务列表中选择全磁盘访问。
4. 单击左下角的锁定图标，然后根据需要输入（管理员）密码。单击解锁。
5. 采用以下任一方式：
   - 单击加号按钮，选择 Workgroup Manager 应用程序，然后单击打开，或者
   - 将 Workgroup Manager 应用程序拖放到右侧的字段中。

   Workgroup Manager 应用程序可以在 Applications/Enfocus/Enfocus PitStop Workgroup Manager <###> 中找到。
6. 单击立即退出。

6.2. 其他许可功能

6.2.1. 修复许可

计算机内部硬件特征的识别需要依赖于许可。如果对硬件作出重大更改，则许可可能损坏（例如，如果添加内存、硬盘崩溃、网卡损坏等）。

如果同时更改三个以上的计算机硬件元素，则许可无效并显示为损坏。

与激活和取消激活许可一样，修复过程可在线或离线完成。

6.2.1.1. 修复 Workgroup Manager（在线方式）

修复 Workgroup Manager

1. 在Workgroup Manager的许可选项卡中，单击修复。
   Enfocus 软件修复对话框打开。
2. 确保禁用离线模式选项。
3. 单击修复。
   您的系统与 Enfocus 网络服务器通信并修复许可。如果失败，请通过 Enfocus 支持网站 *http://www.enfocus.com/en/supportportal* 联系 Enfocus
4. 单击关闭。

6.2.1.2. 修复 Workgroup Manager（离线方式）

除了安装有 Workgroup Manager 的离线系统外，您还必须具有可以访问互联网的系统才能与 Enfocus 网络服务器通信。

修复 Workgroup Manager

1. 在具有 Workgroup Manager 的离线系统上：
   a. 在Workgroup Manager的许可选项卡中，单击修复。
      Enfocus 软件修复对话框打开。
   b. 启用离线模式选项。
   c. 单击修复。
      新对话框打开。
   d. 在步骤 **1** 中，单击保存。
      Workgroup Manager 创建一个文件：requestrepair.xml。
2. 使您的在线系统上具有 requestrepair.xml。

   例如：您可以将 requestrepair.xml 复制到 U 盘，并将 U 盘连接到在线系统。
3. 在在线系统上：
   a. 转至 *http://www.enfocus.com/products/activation?lang=en*
   b. 上传 requestrepair.xml ，并单击继续。
   c. 输入 Enfocus ID 密码，并单击继续。
   d. 单击继续确认。
      Enfocus 网络服务器创建一个文件：response.xml。
   e. 下载文件。
4. 在具有 Workgroup Manager 的离线系统上：
   a. 在步骤 **2**，上传 response.xml。
   b. 单击修复。
      系统修复 Workgroup Manager。如果不起作用，请通过 Enfocus 支持网站（*http://www.enfocus.com/en/supportportal*）联系 Enfocus。

c. 单击关闭。

6.2.2. 取消激活许可

正如激活许可，取消激活许可也可在线和离线完成。您必须先取消激活许可，才能将其移至其他计算机。

6.2.2.1. 取消激活 Workgroup Manager（在线方式）

取消激活 Workgroup Manager

1. 在Workgroup Manager的许可选项卡中，单击取消激活。
   Enfocus 软件取消激活对话框打开。
2. 禁用离线模式选项。
3. 启用取消激活操作中导出许可信息选项。
   此操作允许您下载许可文件，因此可以在其他系统上重新激活许可。
4. 单击取消激活。
5. 浏览下载位置，并单击保存。
   Workgroup Manager 创建一个许可文件：LicensesBackup.html。系统取消激活 Workgroup Manager。
6. 单击关闭。

6.2.2.2. 取消激活 Workgroup Manager（离线方式）

除了安装有 Workgroup Manager 的离线系统外，您还必须具有可以访问互联网的系统才能与 Enfocus 网络服务器通信。

取消激活 Workgroup Manager

1. 在具有 Workgroup Manager 的离线系统上：
   a. 在Workgroup Manager的许可选项卡中，单击取消激活。
      Enfocus 软件取消激活对话框打开。
   b. 启用离线模式选项。
   c. 启用取消激活操作中导出许可信息选项。
      此操作允许您下载许可文件，因此可以在其他系统上重新激活许可。
   d. 单击取消激活。
   e. 浏览下载位置，并单击保存。
      Workgroup Manager 创建一个许可文件：LicensesBackup.html，并打开新对话框。
   f. 在步骤 **1** 中，单击保存。
      Workgroup Manager 创建一个文件：requestdeactivate.xml。
2. 使您的在线系统上具有 requestdeactivate.xml 。

   例如：您可以将 requestdeactivate.xml 复制到 U 盘，并将 U 盘连接到在线系统。

3. 在在线系统上：
   a. 转至 *http://www.enfocus.com/products/activation?lang=en*
   b. 上传 requestdeactivate.xml ，并单击继续。
   c. 单击继续确认。
      Enfocus 网络服务器创建一个文件：deactivation-response.xml。
   d. 下载文件。
4. 在具有 Workgroup Manager 的离线系统上：
   a. 在步骤 **2**，上传 deactivation-response.xml。
   b. 单击取消激活。
      系统取消激活 Workgroup Manager。
   c. 单击关闭。

6.2.3. 在计算机间移动许可

要在计算机间移动许可，请执行以下操作：

1. 在不再使用这些许可的计算机上取消激活许可。

   请参阅取消激活许可 页上的 24。

2. 将产品密钥文件复制到要使用这些许可的计算机上。
3. 在获得这些许可的计算机上，使用产品密钥文件激活许可。

   请参阅激活许可。

6.3. 防火墙设置

6.3.1. 预设分发的防火墙设置

Workgroup Manager Server 负责预设分发并使用下述端口与网络中的 PitStop Pro 副本通信。

Workgroup Manager 服务的位置：

- **Windows**：C:\Program Files (x86)\Enfocus\Enfocus PitStop Workgroup Manager 12\Resources\WorkgroupManagerServer.exe
- **Mac**：/Applications/Enfocus/Enfocus PitStop Workgroup Manager 12/PitStop Workgroup Manager.app/Contents/Resources/WorkgroupManagerServer

端口：通信使用的端口位于 50905 至 50910 之间。可以在 Workgroup Manager 用户界面（的底部状态栏）查看准确端口。

6.3.2. 许可分发的防火墙设置

许可证服务器负责管理 Workgroup Manager 使用和分发的许可。许可证服务器应能与 Workgroup Manager 和网络中所有 PitStop 副本通信。

许可证服务器由以下进程组成：

- **lmgrd.exe/app**，其使用并监听 27000 至 27009 之间的一个自由端口。
- **esko.exe/app**，其使用并监听动态端口上的连接。lmgrd.exe/app 了解 esko.exe/app 所使用的端口。
- （老版本）**barco.exe/app**，其与 esko.exe 相似但仅适用于 Esko/Enfocus 早期产品。

许可证服务器进程的位置：

- **Windows**：
  - C:\Enfocus\bg_prog_system_v010\bin_ix86\esko.exe
  - C:\Enfocus\bg_prog_system_v010\bin_ix86\lmgrd.exe
- **Mac**：
  - /Library/Application Support/FLEXnet Publisher/Manager/11.12.0/esko
  - /Library/Application Support/FLEXnet Publisher/Manager/11.12.0/lmgrd

    路径中的版本号（11.12.0）指所使用的 Flex 库的版本。此版本号取决于 Workgroup Manager 和许可证服务器的版本。

配置说明：

如果您有防火墙：

1. 配置防火墙，以允许上述许可证服务器进程的通信输出。
2. 对许可证服务器进行 Ping，查看系统是否允许 ICMP 通讯从 PitStop Pro 流向许可证服务器。
   - 如果可以到达服务器，就能允许 ICMP 通讯。您可以忽略这个程序的第 3 步。
   - 如果无法到达服务器，则表示运行许可证服务器的系统上的防火墙阻止了 ICMP。
3. 修改防火墙设置以允许 *ICMP*。

如果（运行 **Workgroup Manager** 的系统上）有外防火墙，并且（运行 **Workgroup Manager** 的系统和运行 **PitStop Pro** 的系统之间）有内防火墙，为避免端口冲突，我们建议为许可证服务器配置静态端口。请参阅配置静态端口 页上的 28。

6.3.2.1. 允许 ICMP（所有平台）

如果无法"ping"许可证服务器，则可能是防火墙设置阻止了 ICMP 通讯。您必须修改这些设置，否则将无法使用 Workgroup Manager 许可运行 PitStop Pro。

这是因为 PitStop Pro 使用 ICMP 检查其是否能连接至许可证服务器。PitStop Pro 向运行 Workgroup Manager 的服务器发送 ICMP 回显请求。服务器应该通过返回应答进行响应。但是，如果 ICMP 回显请求被防火墙设置阻止，服务器将无法进行响应，PitStop 用户将收到请求超时错误。为避免出现此情况，您应该在安装 Workgroup Manager 的服务器上启用 ICMP。

查看防火墙程序的文档，找出操作方法。

注:

- 默认 Windows 防火墙设置阻止 ICMP 请求。由于大多数 Windows 用户都将需要关于如何启用 ICMP 的信息，我们将此信息添加到了手册。
- 请注意，某些防火墙使用其他名称指代 ICMP，如"ping"、"incoming ping"、"ICMP回显应答"、"匿名网络请求"等。

允许 ICMP (Windows 7)

默认情况下，ICMP 被 Windows 默认防火墙设置阻止。要允许通信，需要为 ICMP 回显请求创建入站规则。

允许 ICMP

1. 打开控制面板并选择网络和共享中心。
2. 在屏幕的左下部分，单击 **Windows** 防火墙。
   如果已配置防火墙，Windows 防火墙的状态被设置为打开。
3. 在屏幕的左边部分，单击高级设置。
4. 在屏幕的左上部分，单击入站规则并从上下文菜单中选择新规则。
5. 选择自定义并单击下一步。
6. 确保勾选所有程序并单击下一步。
7. 在协议类型列表中选择 **ICMPv4** 并单击下一步。
   ICMPV4 为用于 ping 命令的协议。
8. 为网络内部（本地）和外部（远程）系统选择适当的选项：
   - 要允许与任何系统的通信，选择任何 **IP** 地址。这表示可以从任意计算机上接收 ICM 回显请求。
   - 要允许仅与一个或多个特定系统通信，选择下列 **IP** 地址并输入允许的 IP 地址。这表示仅可以从下列计算机接收 ICM 回显请求。
9. 单击下一步。
10. 选择允许连接并单击下一步。
11. 要将规则应用于特定类型网络，选择合适选项（域、专用和共用）并单击下一步。
12. 为创建的规则输入一个有意义的名称，例如：启用 ICMP 回显请求，并单击完成。
    新规则将显示在入站规则列表中。

允许 ICMP (Windows 8)

默认情况下，ICMP 被 Windows 默认防火墙设置阻止。要允许通信，需要为 ICMP 回显请求创建入站规则。

允许 ICMP

1. 打开控制面板。
2. 选择更多设置。
3. 单击系统和安全。
4. 选择 **Windows** 防火墙链接。
5. 在左侧的窗格中，选择高级设置。
6. 在屏幕的左上部分，单击入站规则。
7. 在入站规则列表中，搜索文件和打印机共享（回显请求 **- ICMPv4-In**）。
   有两条这样的规则；一条适用于专用和共用网络位置；另一条适用于域网络位置。
8. 右击合适的规则并选择启用规则。
   启用的规则将变为绿色。

6.3.2.2. 配置静态端口

配置静态端口

1. 为确保能够到达服务器，对运行许可证服务器的系统进行 Ping。
   如果无法进行，可能必须要更改防火墙设置。请参阅*允许 ICMP（所有平台）* 页上的 26。
2. 找到文件 licenses_e.dat。
   文件路径：
   - **Windows**：C:\Enfocus\bg_data_system_v010\licenses_e.dat
   - **Mac**：/Library/Application Support/FLEXnet Publisher/Manager/License File/licenses.dat
3. 在文本编辑器中打开文件并对其内容做如下更改：

```
SERVER LICENSESERVER ANY
DAEMON esko
```

   应变为：

```
SERVER LICENSESERVER ANY 27005
VENDOR esko port=26999
DAEMON esko
```

   其中，27005 是您选择的静态 lmgrd.exe 端口，26999 是您针对 esko.exe 后台程序所选的端口。
4. 保存文件。
   以下步骤仅与使用 Windows 的用户相关。Mac 用户可以直接跳过这些步骤。
5. 检查是否在系统上找到文件 licenses_b.dat。这表示您的设置支持旧的 barco.exe（与 esko.exe 相似但仅适用于较老产品）。如果是这样，继续此程序的下一步。否则，可以跳过以下两步。

文件路径（与第一步的文件夹相同）：C:\Enfocus\bg_data_system_v010\licenses_b.dat

6. 打开文件并对其内容作如下更改：

```
SERVER LICENSESERVER ANY
DAEMON barco
```

应变为：

```
SERVER LICENSESERVER ANY 27005
VENDOR esko port=26998
DAEMON barco
```

其中，27005 是第二步中使用的同一个静态 lmgrd.exe 端口，26998 是您为 barco 后台程序所选的端口，其不同于上一部分中 licenses_e.dat 文件中 esko 供应商后台程序所使用的端口。

7. 保存文件。

7. 第三方许可信息

```
This product includes lzw-ab.

    Copyright (c) David Bryant
    All rights reserved.

    Redistribution and use in source and binary forms, with or without
    modification, are permitted provided that the following conditions are met:

    * Redistributions of source code must retain the above copyright notice,
      this list of conditions and the following disclaimer.
    * Redistributions in binary form must reproduce the above copyright notice,
      this list of conditions and the following disclaimer in the
      documentation and/or other materials provided with the distribution.
    * Neither the name of Conifer Software nor the names of its contributors
      may be used to endorse or promote products derived from this software
      without specific prior written permission.

    THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
    AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
    IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
    ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR
    ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
    DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
    SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
    CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
    OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
    OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes Botan.

      Copyright (C) 1999-2020 The Botan Authors
      All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are met:

      1. Redistributions of source code must retain the above copyright notice,
        this list of conditions, and the following disclaimer.

      2. Redistributions in binary form must reproduce the above copyright
        notice, this list of conditions, and the following disclaimer in the
        documentation and/or other materials provided with the distribution.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
      AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
      IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
      ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
      LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
      CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
      SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
      INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
      CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
      ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
      POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes ICC Profiles.

    Some ICC Profiles were created by FFEI Ltd. (www.ffei.co.uk) using Fujifilm
    ColourKit Profiler Suite (www.colourprofiling.com)

-------------------------------------------------------------

This product includes ICC Profiles.

    Some ICC profiles are copyright (C) by European Color Initiative, www.eci.org
```

This product includes ICC Profiles.

Some ICC profiles are copyright (C) of WAN-IFRA, www.wan-ifra.org

---

This product includes ICC Profiles.

Some ICC profiles are copyright (C) IDEAlliance(R). G7(R), GRACol(R) and SWOP(R) are all registered trademarks of IDEAlliance(C).

This product includes PANTONE Color Libraries.

PANTONE© and other Pantone trademarks are the property of Pantone LLC. Pantone is a wholly owned subsidiary of X-Rite, Incorporated.

This product includes curl.

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2022, Daniel Stenberg, daniel@haxx.se, and many contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

This product includes LibTIFF.

Copyright (c) 1988-1997 Sam Leffler
Copyright (c) 1991-1997 Silicon Graphics, Inc.

Permission to use, copy, modify, distribute, and sell this software and its documentation for any purpose is hereby granted without fee, provided that (i) the above copyright notices and this permission notice appear in all copies of the software and related documentation, and (ii) the names of Sam Leffler and Silicon Graphics may not be used in any advertising or publicity relating to the software without the specific, prior written permission of Sam Leffler and Silicon Graphics.

THE SOFTWARE IS PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR OTHERWISE, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL SAM LEFFLER OR SILICON GRAPHICS BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER OR NOT ADVISED OF THE POSSIBILITY OF DAMAGE, AND ON ANY THEORY OF LIABILITY, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This product includes FreeType.

```
    Portions of this software are copyright (C) 2014 The FreeType
    Project (www.freetype.org) licensed under the Freetype License.
    All rights reserved.

-------------------------------------------------------------

This product includes Google Breakpad.

      Copyright (c) 2006, Google Inc. All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
      met:
      * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
      * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
      A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
      OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
      DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
      THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
      OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes curl.

      Copyright (c) 1996 - 2011, Daniel Stenberg, <daniel@haxx.se>.
      All rights reserved.

      Permission to use, copy, modify, and distribute this software for any purpose
      with or without fee is hereby granted, provided that the above copyright
      notice and this permission notice appear in all copies.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
      IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
      FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN
      NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
      DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
      OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
      OR OTHER DEALINGS IN THE SOFTWARE.

-------------------------------------------------------------

This product includes Google Logging Library (glog).

      Copyright (c) 2008, Google Inc.
      All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
      met:
      * Redistributions of source code must retain the above copyright
      notice, this list of conditions and the following disclaimer.
      * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
      * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
      A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
      OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

```
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
      DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
      THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
      OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes Protocol Buffers.

      Copyright (c) 2008, Google Inc.
      All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions are
      met:

      * Redistributions in binary form must reproduce the above
      copyright notice, this list of conditions and the following disclaimer
      in the documentation and/or other materials provided with the
      distribution.
      * Neither the name of Google Inc. nor the names of its
      contributors may be used to endorse or promote products derived from
      this software without specific prior written permission.

      THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
      "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
      LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
      A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
      OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
      LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
      DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
      THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
      (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
      OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes gSOAP.

      EXHIBIT B.

      Part of the software embedded in this product is gSOAP software.
      Portions created by gSOAP are Copyright (C) 2001-2007 Robert A. van Engelen,
 Genivia inc. All Rights Reserved.

      THE SOFTWARE IN THIS PRODUCT WAS IN PART PROVIDED BY GENIVIA INC AND ANY EXPRESS
 OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
 MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
 SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
 OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
 SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes ICU.

      Copyright (c) 1995-2014 International Business Machines Corporation and others
      All rights reserved.

      Permission is hereby granted, free of charge, to any person obtaining a copy of
      this software and associated documentation files (the "Software"), to deal in
 the
      Software without restriction, including without limitation the rights to use,
      copy, modify, merge, publish, distribute, and/or sell copies of the Software,
 and
      to permit persons to whom the Software is furnished to do so, provided that the
      above copyright notice(s) and this permission notice appear in all copies of the
      Software and that both the above copyright notice(s) and this permission notice
      appear in supporting documentation.

      THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
```

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This product includes JBIG2Lib.

Portions of this product copyrights (C) 2002 Glyph & Cog, LLC.

This product includes JPEGLib.
This software is copyright (C) 1991-2016, Thomas G. Lane, Guido Vollbeding.
All Rights Reserved.

This software is based in part on the work of the Independent JPEG Group.

This product includes Little CMS.

Little CMS
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This product includes libxml2.

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This product includes IP*Works!.

Copyright (c) 2017 /n software inc. - All rights reserved.

DISCLAIMER OF WARRANTY. THE LICENSED SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. FURTHER, /N SOFTWARE SPECIFICALLY DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE, OR THE RESULTS OF THE USE, OF THE LICENSED SOFTWARE OR DOCUMENTATION IN TERMS OF CORRECTNESS, ACCURACY, RELIABILITY, CURRENTNESS, OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE LICENSED SOFTWARE IS ASSUMED BY YOU. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY /N SOFTWARE OR ITS EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY, AND YOU MAY NOT RELY ON ANY SUCH INFORMATION OR ADVICE. FURTHER, THE LICENSED SOFTWARE IS NOT FAULT-TOLERANT AND IS NOT DESIGNED, MANUFACTURED OR INTENDED FOR USE OR RESALE AS ON-LINE CONTROL EQUIPMENT IN HAZARDOUS ENVIRONMENTS REQUIRING FAIL-SAFE PERFORMANCE, SUCH AS IN THE OPERATION OF NUCLEAR FACILITIES, AIRCRAFT NAVIGATION OR COMMUNICATION SYSTEMS, AIR TRAFFIC CONTROL, DIRECT LIFE SUPPORT MACHINES, OR WEAPONS SYSTEMS, IN WHICH THE FAILURE OF THE LICENSED SOFTWARE COULD LEAD DIRECTLY TO DEATH, PERSONAL INJURY, OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE ("HIGH RISK ACTIVITIES"). /N SOFTWARE AND ITS SUPPLIERS SPECIFICALLY DISCLAIM ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR HIGH RISK ACTIVITIES.

LIMITATION ON LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL /N SOFTWARE'S TOTAL AGGREGATE AND CUMULATIVE LIABILITY TO YOU FOR ANY AND ALL CLAIMS OF ANY KIND ARISING HEREUNDER EXCEED THE AMOUNT OF LICENSE FEES ACTUALLY PAID BY YOU FOR THE LICENSED SOFTWARE GIVING RISE TO THE CLAIM IN THE TWELVE MONTHS PRECEDING THE CLAIM. /N SOFTWARE'S LICENSORS AND THEIR SUPPLIERS SHALL HAVE NO LIABILITY TO YOU FOR ANY DAMAGES SUFFERED BY YOU OR ANY THIRD PARTY AS A RESULT OF USING THE LICENSED SOFTWARE, OR ANY PORTION THEREOF. NOTWITHSTANDING THE FOREGOING, IN NO EVENT SHALL /N SOFTWARE, ITS LICENSORS, OR ANY OF THEIR RESPECTIVE SUPPLIERS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER, INCLUDING, WITHOUT LIMITATION, ANY COMMERCIAL DAMAGES OR LOSSES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OR INABILITY TO USE THE LICENSED SOFTWARE, OR ANY PORTION THEREOF, EVEN IF /N SOFTWARE, ITS LICENSORS AND/OR ANY OF THEIR RESPECTIVE SUPPLIERS HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY. EACH EXCLUSION OF LIMITATION IS INTENDED TO BE SEPARATE AND THEREFORE SEVERABLE.

This product includes IP*Works! SSH.

Copyright (c) 2017 /n software inc. - All rights reserved.

DISCLAIMER OF WARRANTY. THE LICENSED SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. FURTHER, /N SOFTWARE SPECIFICALLY DOES NOT WARRANT, GUARANTEE, OR MAKE ANY REPRESENTATIONS REGARDING THE USE, OR THE RESULTS OF THE USE, OF THE LICENSED SOFTWARE OR DOCUMENTATION IN TERMS OF CORRECTNESS, ACCURACY, RELIABILITY, CURRENTNESS, OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS AND PERFORMANCE OF THE LICENSED SOFTWARE IS ASSUMED BY YOU. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY /N SOFTWARE OR ITS EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY, AND YOU MAY NOT RELY ON ANY SUCH INFORMATION OR ADVICE. FURTHER, THE LICENSED SOFTWARE IS NOT FAULT-TOLERANT AND IS NOT DESIGNED, MANUFACTURED OR INTENDED FOR USE OR RESALE AS ON-LINE CONTROL EQUIPMENT IN HAZARDOUS ENVIRONMENTS REQUIRING FAIL-SAFE PERFORMANCE, SUCH AS IN THE OPERATION OF NUCLEAR FACILITIES, AIRCRAFT NAVIGATION OR COMMUNICATION SYSTEMS, AIR TRAFFIC CONTROL, DIRECT LIFE SUPPORT MACHINES, OR WEAPONS SYSTEMS, IN WHICH THE FAILURE OF THE LICENSED SOFTWARE COULD LEAD DIRECTLY TO DEATH, PERSONAL INJURY, OR SEVERE PHYSICAL OR ENVIRONMENTAL DAMAGE ("HIGH RISK ACTIVITIES"). /N SOFTWARE AND ITS SUPPLIERS SPECIFICALLY DISCLAIM ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR HIGH RISK ACTIVITIES.

LIMITATION ON LIABILITY. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT WILL /N SOFTWARE'S TOTAL AGGREGATE AND CUMULATIVE LIABILITY TO YOU FOR ANY AND ALL CLAIMS OF ANY KIND ARISING HEREUNDER EXCEED THE AMOUNT OF LICENSE FEES ACTUALLY PAID BY YOU FOR THE LICENSED SOFTWARE GIVING RISE TO THE CLAIM IN THE TWELVE MONTHS PRECEDING THE CLAIM. /N SOFTWARE'S LICENSORS AND THEIR SUPPLIERS SHALL HAVE NO LIABILITY TO YOU FOR ANY DAMAGES SUFFERED BY YOU OR ANY THIRD PARTY AS A RESULT OF USING THE LICENSED SOFTWARE, OR ANY PORTION THEREOF. NOTWITHSTANDING THE FOREGOING, IN NO EVENT SHALL /N SOFTWARE, ITS LICENSORS, OR ANY OF THEIR RESPECTIVE SUPPLIERS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR INDIRECT, PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER, INCLUDING, WITHOUT LIMITATION, ANY COMMERCIAL DAMAGES OR LOSSES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OR INABILITY TO USE THE LICENSED SOFTWARE, OR ANY PORTION THEREOF, EVEN IF /N SOFTWARE, ITS LICENSORS AND/OR ANY OF THEIR RESPECTIVE SUPPLIERS HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY. EACH EXCLUSION OF LIMITATION IS INTENDED TO BE SEPARATE AND THEREFORE SEVERABLE.

```
-------------------------------------------------------------

This product includes OpenJPEG.

        The copyright in this software is being made available under the 2-clauses
        BSD License, included below. This software may be subject to other third
        party and contributor rights, including patent rights, and no such rights
        are granted under this license.

        Copyright (c) 2002-2014, Universite catholique de Louvain (UCL), Belgium
        Copyright (c) 2002-2014, Professor Benoit Macq
        Copyright (c) 2003-2014, Antonin Descampe
        Copyright (c) 2003-2009, Francois-Olivier Devaux
        Copyright (c) 2005, Herve Drolon, FreeImage Team
        Copyright (c) 2002-2003, Yannick Verschueren
        Copyright (c) 2001-2003, David Janssens
        Copyright (c) 2011-2012, Centre National d'Etudes Spatiales (CNES), France
        Copyright (c) 2012, CS Systemes d'Information, France

        All rights reserved.

        Redistribution and use in source and binary forms, with or without
        modification, are permitted provided that the following conditions
        are met:
        1. Redistributions of source code must retain the above copyright
           notice, this list of conditions and the following disclaimer.
        2. Redistributions in binary form must reproduce the above copyright
           notice, this list of conditions and the following disclaimer in the
           documentation and/or other materials provided with the distribution.

        THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS `AS IS'
        AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
        IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
        ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
        LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
        CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
        SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
        INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
        CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
        ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
        POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes OpenSSL.

      Copyright (c) 1998-2017 The OpenSSL Project.  All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions
      are met:

      1. Redistributions of source code must retain the above copyright
         notice, this list of conditions and the following disclaimer.

      2. Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in
         the documentation and/or other materials provided with the
         distribution.

      3. All advertising materials mentioning features or use of this
         software must display the following acknowledgment:
         "This product includes software developed by the OpenSSL Project
         for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

      4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
         endorse or promote products derived from this software without
         prior written permission. For written permission, please contact
         openssl-core@openssl.org.

      5. Products derived from this software may not be called "OpenSSL"
         nor may "OpenSSL" appear in their names without prior written
         permission of the OpenSSL Project.

      6. Redistributions of any form whatsoever must retain the following
         acknowledgment:
```

```
         "This product includes software developed by the OpenSSL Project
         for use in the OpenSSL Toolkit (http://www.openssl.org/)"

      THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
      EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
      IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
      PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
      ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
      SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
      NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
      LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
      HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
      STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
      ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
      OF THE POSSIBILITY OF SUCH DAMAGE.

-------------------------------------------------------------

This product includes OpenSSL.

      Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
      All rights reserved.

      Redistribution and use in source and binary forms, with or without
      modification, are permitted provided that the following conditions
      are met:
      1. Redistributions of source code must retain the copyright
         notice, this list of conditions and the following disclaimer.
      2. Redistributions in binary form must reproduce the above copyright
         notice, this list of conditions and the following disclaimer in the
         documentation and/or other materials provided with the distribution.
      3. All advertising materials mentioning features or use of this software
         must display the following acknowledgement:
         "This product includes cryptographic software written by
         Eric Young (eay@cryptsoft.com)"
         The word 'cryptographic' can be left out if the rouines from the library
         being used are not cryptographic related :-).
      4. If you include any Windows specific code (or a derivative thereof) from
         the apps directory (application code) you must include an acknowledgement:
         "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

      THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
      ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
      IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
      ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
      FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
      DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
      OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
      HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
      LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
      OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
      SUCH DAMAGE.

-------------------------------------------------------------

This product includes patented technology.

      This product and use of this product is under license from Markzware
      under U.S. Patent No. 5,963,641.

-------------------------------------------------------------

This product includes Qt.

      The software uses Qt, licensed under LGPL v3. The Qt Toolkit is Copyright (C)
 2019 The Qt Company Ltd.

      Portions of this software are copyright (C) 2006-2015 The FreeType Project
 (www.freetype.org). All rights reserved.

      Copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding.
      This software is based in part on the work of the Independent JPEG Group.

      Secure Hash Algorithm SHA-3 - brg_endian
      Copyright (c) 1998-2013, Brian Gladman, Worcester, UK. All rights reserved.

      LICENSE TERMS
```

```
      The redistribution and use of this software (with or without changes)
      is allowed without the payment of fees or royalties provided that:

       1. source code distributions include the above copyright notice, this
          list of conditions and the following disclaimer;

       2. binary distributions include the above copyright notice, this list
          of conditions and the following disclaimer in their documentation;

       3. the name of the copyright holder is not used to endorse products
          built using this software without specific written permission.

      DISCLAIMER

      This software is provided 'as is' with no explicit or implied warranties
      in respect of its properties, including, but not limited to, correctness
      and/or fitness for purpose.

-------------------------------------------------------------

This product includes QtSingleApplication.

        Copyright (C) 2013 Digia Plc and/or its subsidiary(-ies).
        Contact: http://www.qt-project.org/legal

        This file is part of the Qt Solutions component.

        You may use this file under the terms of the BSD license as follows:

        Redistribution and use in source and binary forms, with or without
        modification, are permitted provided that the following conditions are
        met:
          * Redistributions of source code must retain the above copyright
            notice, this list of conditions and the following disclaimer.
          * Redistributions in binary form must reproduce the above copyright
            notice, this list of conditions and the following disclaimer in
            the documentation and/or other materials provided with the
            distribution.
          * Neither the name of Digia Plc and its Subsidiary(-ies) nor the names
            of its contributors may be used to endorse or promote products derived
            from this software without specific prior written permission.


        THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
        "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
        LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
        A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
        OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
        SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
        LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
        DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
        THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
        (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
        OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.


-------------------------------------------------------------

This product includes XMP Toolkit.
Copyright (c) 2020, Adobe
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.
```

```
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-------------------------------------------------------------

This product includes zlib.

 (C) 1995-2022 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu

-------------------------------------------------------------

This product includes ZXing C++ Library.

    Copyright 2016 ZXing authors.
    https://github.com/zxing

-------------------------------------------------------------
```

8. Copyrights

© 2023 Enfocus BV 保留所有权利。Enfocus 是 Esko 旗下的一家公司。

Certified PDF 是 Enfocus BV 的注册商标。

Enfocus PitStop Pro、Enfocus PitStop Workgroup Manager、Enfocus PitStop Server、Enfocus BoardingPass、Enfocus Connect YOU、Enfocus Connect ALL、Enfocus Connect SEND、Enfocus StatusCheck、Enfocus CertifiedPDF.net、Enfocus PDF Workflow Suite、Enfocus Switch、Enfocus SwitchClient、Enfocus SwitchScripter、Enfocus TestDrive、Enfocus SwitchScriptTool、Enfocus Browser 和 Enfocus Appstore 是 Enfocus BV 的产品名称。

Adobe、Acrobat、Distiller、InDesign、Illustrator、Photoshop、FrameMaker、PDFWriter、PageMaker、Adob PDF Library™、Adobe 徽标、Acrobat 徽标和 PostScript 是 Adobe Systems Incorporated 的商标。

Datalogics、Datalogics 徽标、PDF2IMG™ 和 DLE™ 是 Datalogics, Inc. 的商标。

Apple、Mac、macOS、Macintosh、iPad 和 ColorSync 是 Apple Computer, Inc. 在美国及其他国家的注册商标。Windows 和 Windows Server 是 Microsoft Corporation 的注册商标。

PANTONE® 颜色显示或许与 PANTONE 指定标准不匹配。请查阅最新的 PANTONE 色彩出版物，以获取精确的色彩。PANTONE® 和其它 Pantone, Inc. 商标均属 Pantone, Inc. 所有。© Pantone, Inc., 2006。

OPI 是 Aldus Corporation 的商标。

Quark、QuarkXPress、QuarkXTensions、XTensions 以及 XTensions 徽标是 Quark, Inc. 及其所有适用的附属公司在美国专利商标局和许多其他国家/地区的注册商标。

本产品及产品的使用经 Markzware 许可（美国专利号 5963641）。

其他品牌和产品名称可能是其各自所有者的商标或注册商标。产品和服务的所有规格、条款和说明如有更改，恕不另行通知，也不接受追索。