

# SKF @ptitude Analyst Remote Route Add-On

Supports the Microlog CMVA 10 v3.30 or higher,  
CMVA65, and the GX Series Microlog

User Manual Part No. 32093400  
Revision A

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## User Manual

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# SKF @ptitude Analyst Remote Route Application

## About This Manual

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This manual introduces you to the SKF @ptitude Analyst Remote Route add-on and its Client application. It offers complete and detailed reference to Remote Route, an application that allows remote transfer of @ptitude Analyst for Microlog measurements and collected measurement data.

### User Manual Conventions

As you use this manual, you'll discover certain conventions used:

**Bold** type is used to indicate text that appears in a Microlog menu or data screen.

*Italics* are used to emphasize important information.

➤ - are used to indicate notes to the reader.

Step-by-step procedures are sequenced using bullets, •.

## Product Overview

---

SKF @ptitude Analyst Remote Route is useful in situations where there is a need for remote site data collection, but no need for remote site analysis of collected data. In these scenarios, it is more economical to purchase one @ptitude Analyst installation for a central "analysis / database" location and SKF Remote Route installations for each of the remote sites, as SKF @ptitude Analyst Remote Route is significantly less expensive than additional @ptitude Analyst installations and licenses.

There are two parts to the SKF @ptitude Analyst Remote Route application.

The **SKF @ptitude Analyst Remote Route Add-on** allows you to download @ptitude Analyst ROUTE, workspace, or hierarchy measurements from @ptitude Analyst to a download file (a file with a *.dskf* filename extension). The *.dskf* file can be sent to a remote computer via email or network transfer.

The **SKF @ptitude Analyst Remote Route Client** is used at the remote site. It is a small, user-friendly, stand-alone program that allows you to transfer measurements in a *.dskf* file to a Microlog; and after Microlog data collection, allows you to upload the collected data to an upload file (a file with a *.uskf* filename extension) which can be emailed back to the @ptitude Analyst site for incorporation into the @ptitude Analyst database.

This manual is divided into two main sections, one for the add-on, and the other for the client program.

## Working with the Remote Route Add-on

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### Add-on Installation

To install the Add-on application on @ptitude Analyst:

- Insert your **SKF @ptitude Analyst Remote Route** installation CD into your CD drive. The install program automatically launches.

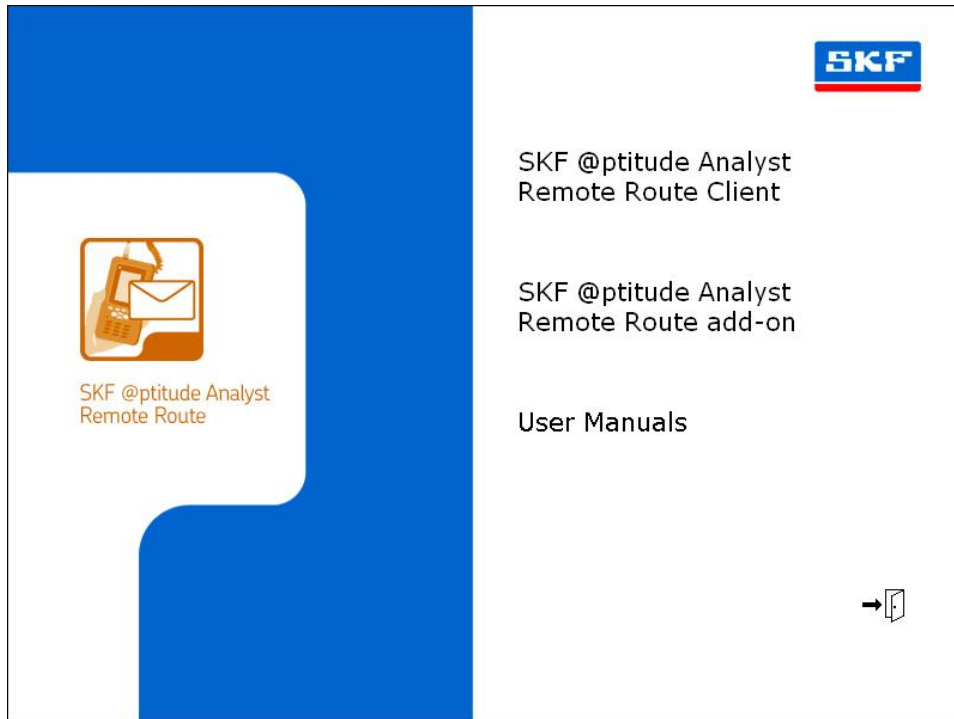


Figure 1.  
The Installation Program's Opening Screen.

- Select **SKF @ptitude Analyst Remote Route add-on**.

A splash screen appears as the installation program launches. When the install program is properly launched, the **Welcome** screen displays.

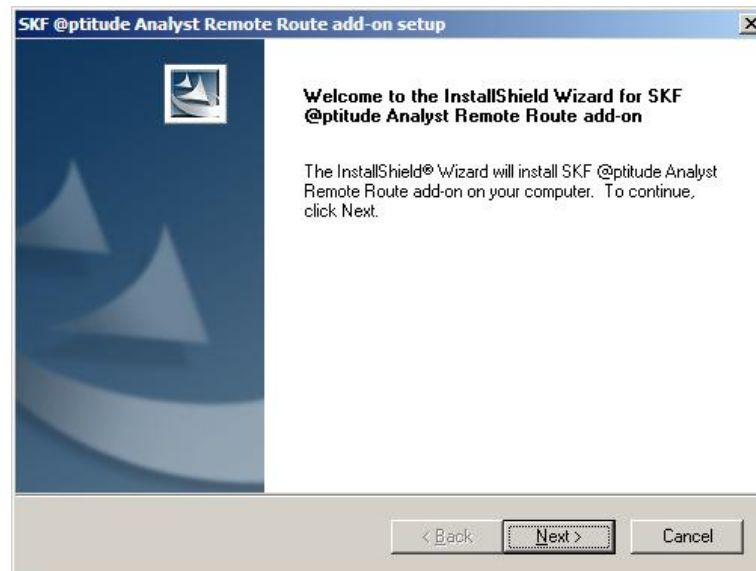


Figure 2.  
The **Welcome** Screen.

- Read the **Welcome** screen information, and then click the **Next** command button to proceed with the installation.

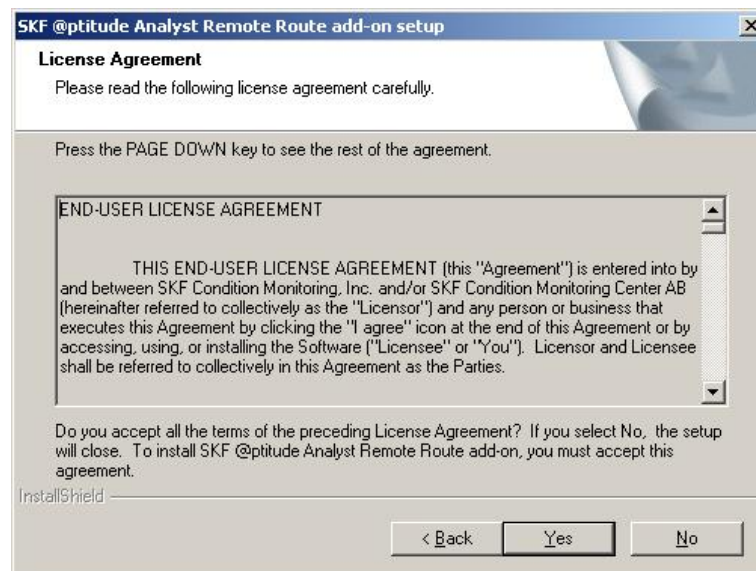


Figure 3.  
The **License Agreement** Screen.

- Read the license agreement carefully and click **Yes** to accept the license terms. The **Enter the Serial Number** screen displays. The serial number is located on the outside of the box and on the installation CD. It is a product identification number that you must provide when contacting Technical Support.

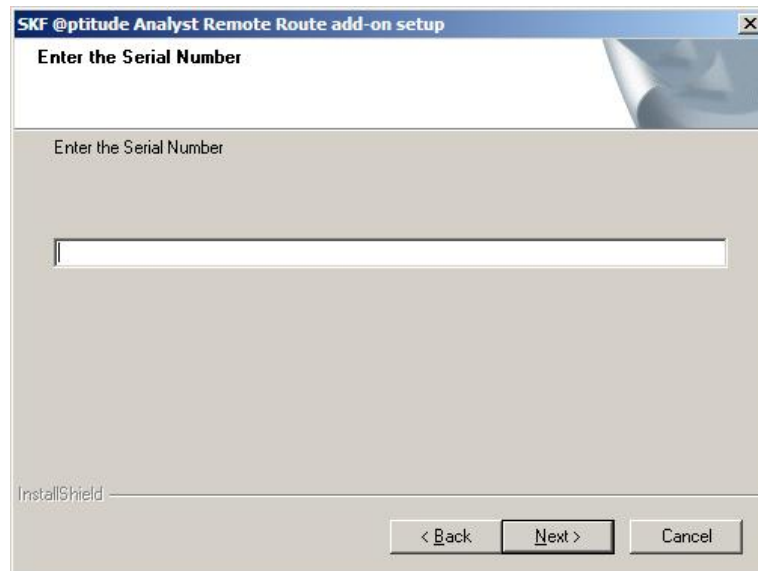


Figure 4.  
The **Enter the Serial Number** Screen.

- Enter the serial number and click **Next**.

The installation program displays the **Enter the License Key** screen. The license key is located on a sticker on the CD case.



Figure 5.  
The **Enter the License Key** Screen.

- Enter the license key and click **Next**. The **Start Copying Files** screen displays.



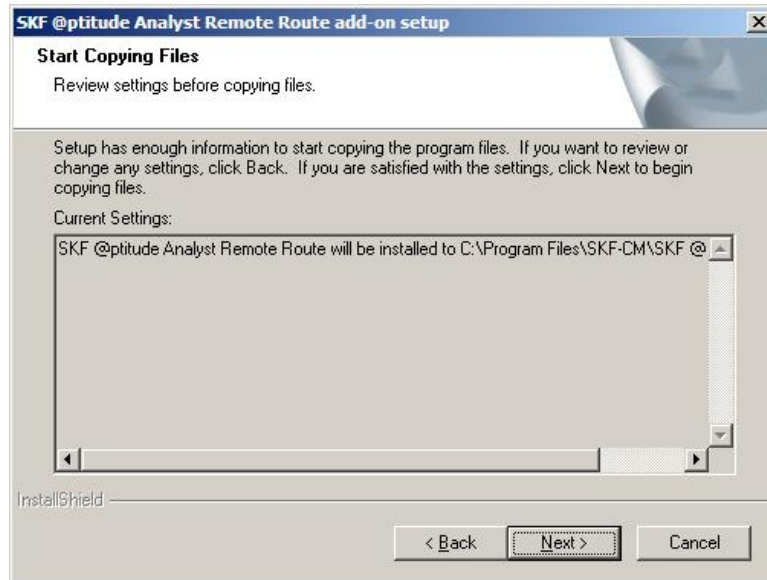


Figure 6.  
The **Start Copying Files** Screen.

- Click **Next** to start copying files. A status screen appears, displaying progress as files are copied.

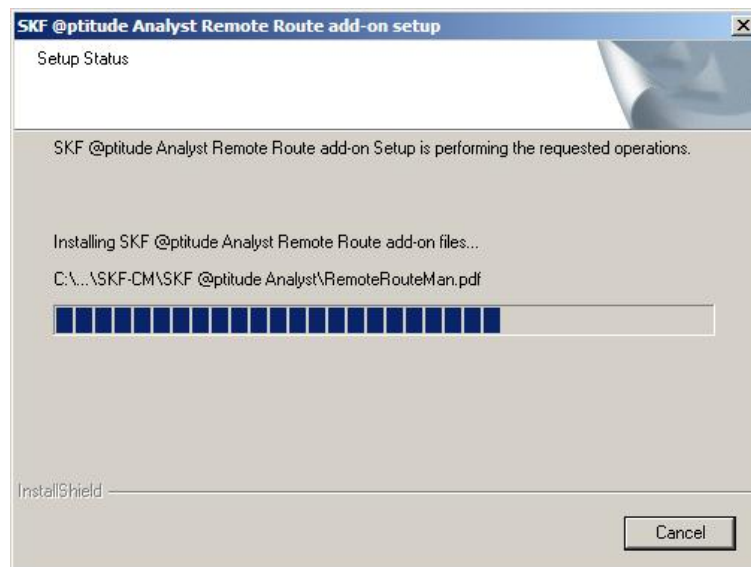
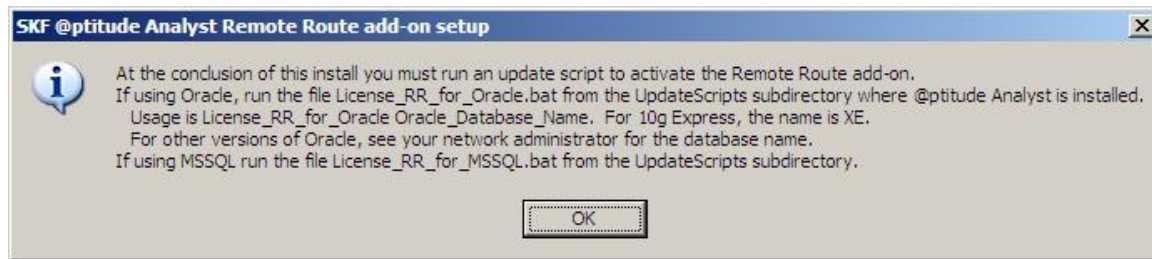


Figure 7.  
The **Setup Status** Screen.

When the installation is complete, a dialog displays informing you that you must run a setup script to activate the Remote Route add-on and complete installation. (Refer to the heading **Activating the Remote Route Add-on** below for details.)



- Click **OK** to continue.

When installation is complete, the **InstallShield Wizard Complete** screen displays.



Figure 8.

The **InstallShield Wizard Complete** Screen.

- Select the **View the Read Me File** checkbox and click the **Finish** command button.
- After reading the **Read Me** file, close the file. You return to the installation program's opening screen.
- Click the door to exit the installation.



After completing the install of the Remote Route Add-on and reading the **Read Me** file, you must activate the installation.

## Activating the Remote Route Add-on

After completing the add-on installation, you must activate the product to complete the licensing process. Activation is accomplished through a SQL command. There are batch commands installed to assist you. These batch commands are located in the UpdateScripts subdirectory where SKF @ptitude Analyst is installed - typically C:\Program Files\SKF-CM\SKF @ptitude Analyst\UpdateScripts.

There are two batch files located in this directory. The batch file you must use depends on whether you are running @ptitude Analyst with Microsoft SQL or Oracle.

**If using Oracle** – run the file **License\_RR\_for\_Oracle.bat**.

This batch file must be run with a command line parameter specifying the database name (i.e., License\_RR\_for\_Oracle Oracle\_Database\_Name). This can be accomplished using a command window, or by modifying a Window's shortcut to contain the parameter.

For 10g Express, the Oracle\_Database\_Name is XE.

For other versions of Oracle, see your network administrator for the database name - it is typically CMLocal or CMServer.

Examples: License\_RR\_for\_Oracle XE  
License\_RR\_for\_Oracle CMLocal  
License\_RR\_for\_Oracle CMServer

**If using MSSQL** – run the file **License\_RR\_for\_MSSQL.bat**.

No parameters are required.

## How to Use the Remote Route Add-on

When the SKF @ptitude Analyst Remote Route add-on is installed on an @ptitude Analyst computer, it creates a new **SKF @ptitude Analyst Remote Route** option in @ptitude Analyst's **Transfer** menu. This new menu item allows you to download / upload measurements and data in the form of download (.dskf) and upload (.uskf) files.



Figure 9.

The **SKF @ptitude Analyst Remote Route** Menu Option.

- Select the **Transfer** menu's **SKF @ptitude Analyst Remote Route** option. The **SKF @ptitude Analyst Remote Route** dialog displays.

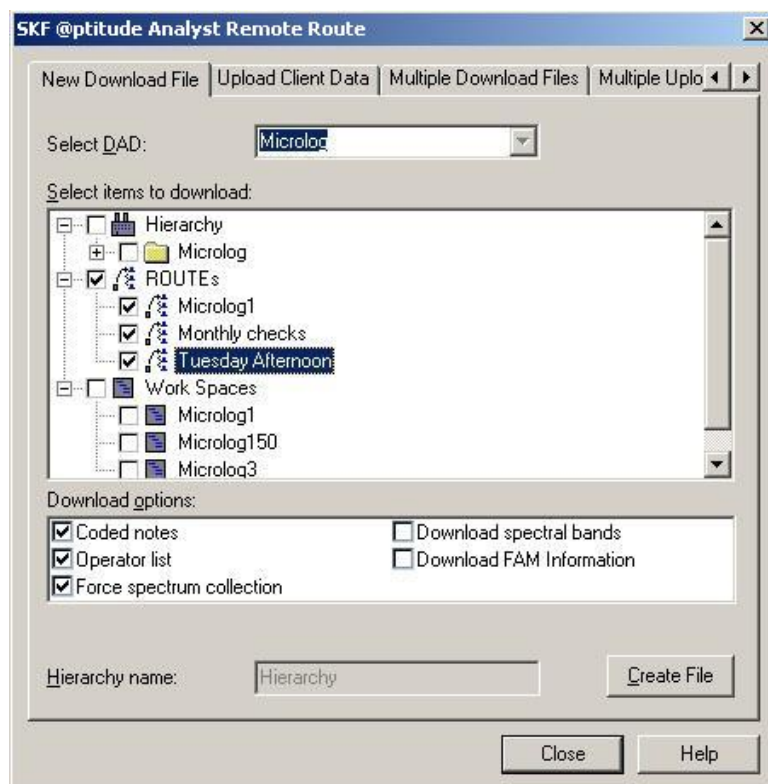


Figure 10.  
The **Remote Route** Add-on Dialog.

**Remote Route** dialog tabs are:

**New Download File** – creates a *.dskf* file containing hierarchy or ROUTE measurements selected from the @ptitude Analyst database.

**Upload Client Data** – uploads measurement data from a *.uskf* file received from the remote site.

**Multiple Download Files** – simultaneously creates multiple *.dskf* files.

**Multiple Upload Files** – simultaneously uploads multiple *.uskf* files.

### How to Create a Download File

Use the **New Download File** tab to create a download file (*.dskf*) that will be emailed to a remote site. This download file may contain multiple ROUTES, Hierarchies, or Workspaces.

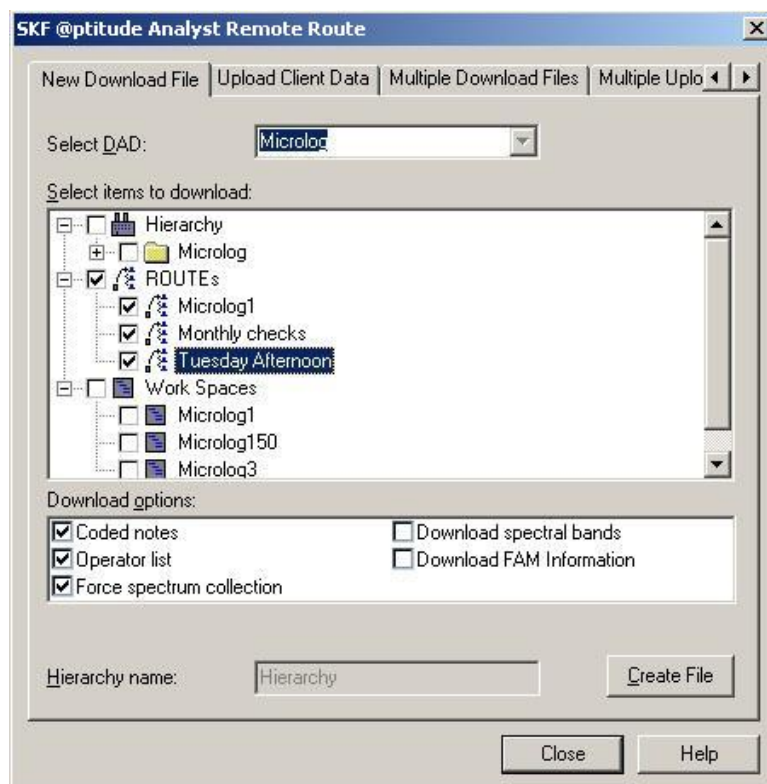


Figure 11.  
The **New Download File** Tab.

**New Download File** fields include:

**Select DAD** – Defaults to **Microlog** and cannot be changed.

**Select items to download** - Select the Hierarchy items, Work Spaces, and ROUTES to download to the .dskf file. A checkmark in the top-level checkbox indicates *all* branching items in the Hierarchy, ROUTE, or Workspace are selected. A grey checkmark indicates *some* items are selected. No checkmark indicates *no* items are selected.

**Download options** – Select checkboxes to include options in the download file. Available download options may vary.

**Download options** are:

#### **Coded notes**

Select to include a list of common machinery notes, enabling quick and easy notation during data collection.

#### **Operator list**

Select to include the list of Operators created in @ptitude Analyst.

#### **Force spectrum collection**

Select to force spectrum collection on every overall measurement. Use for baseline data collection and/or data collection before or after a machine overhaul (when collected spectra are necessary for every POINT).

### Download spectral bands

Select to download spectral band alarms for the downloaded POINTs. Available when downloading to a Microlog with CMVA 10 v3.30 or higher, CMVA65, or the Microlog GX.

### Download FAM information

Select to download bearing fault frequency information associated with the downloaded POINTs. Available when downloading to CMVA65 Microlog firmware version 3.80 or newer.

**Hierarchy name** – If you select to download items directly from the Hierarchy list, enter a name under which they will branch when viewed on the Microlog.

- Assign a unique name in the **Hierarchy name** text field for identification purposes.

**Create File** Button - Click to create the download file. The **Save As** dialog displays.

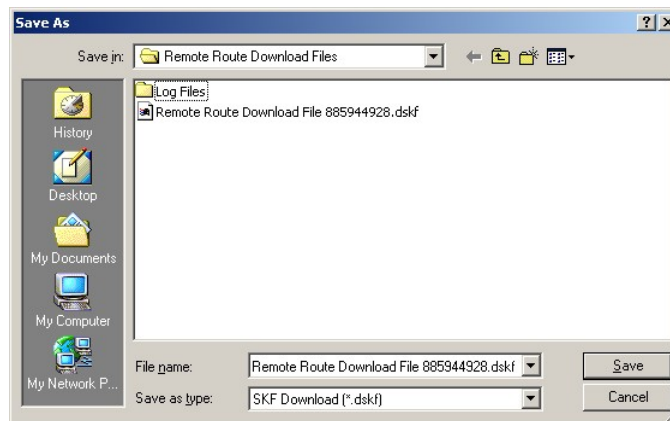


Figure 12.  
The **Save As** Dialog.

**Save As** fields include:

**Save in** – Specify the location to save the files.

**File name** – Enter a name for the download file, or use the default Remote Route name.

**Save as type** – Select **SKF Download (\*.dskf)** to save as a download file.

**Save** Button – Click to save the download file to the specified location.

Once created and saved, you can attach the .dskf file to an email, or transmit the file over a network to a remote site that has the **Remote Route** Client software.

### How to Upload Files (.uskf)

Use the **Upload Client Data** tab to upload measurements in an upload file (a file with the .uskf filename extension) created at the remote site.

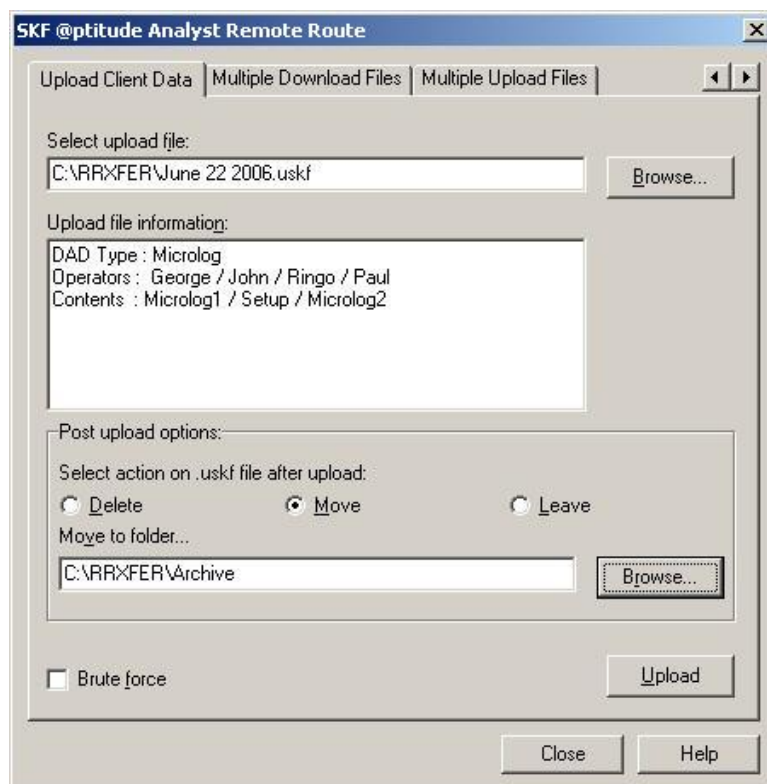


Figure - 13.  
The **Upload Client Data** Tab.

**Upload Client Data** fields include:

**Select upload file** – Enter the upload file's filename and location path, or use the **Browse** button to locate.

**Upload file information** – Displays information corresponding to the selected upload file.

**Post upload options** – Select which action to take after the .uskf file has been uploaded. Available selections are:

**Delete** – The selected upload file will be deleted once its data has been uploaded to @ptitude Analyst and processed.

It is recommended that you save the file for archive purposes rather than deleting it.

**Move** – For archive purposes, the selected upload file will be stored in the location you specify. When this option is selected, the **Move to folder...** field is enabled. Type in the location path, or use the **Browse** button to identify the location of your choice.

**Leave** – For archive purposes, the selected upload file will remain in its present location.

**Brute Force** – Click to enable. A Brute Force upload creates new POINTs (beneath a Non-ROUTE set in the hierarchy) for all uploaded collector POINTs (even if the uploaded POINTs already exist in the hierarchy) and uploads all data into these new POINTs.



**Upload** Button - Click to upload measurements in the selected upload file (.uskf) to the @ptitude Analyst database.

## Creating Multiple Download Files

Options on this tab allow you to simultaneously create a download file for each specified ROUTE. A separate download file is created for each selected download item. These files are collectively saved in a specified directory. Each download file is automatically named with the name of the ROUTE it contains. For example, a ROUTE named "ROUTE 1" creates the download file named "ROUTE 1.dskf."

- You can only create multiple download files using ROUTEs, hierarchy and workspace items are not available.



Figure 14.  
The **Multiple Download Files** Tab.

**Multiple Download File** fields include:

**Select DAD** – Defaults to **Microlog** and cannot be changed.

**Select ROUTEs to download** – Click items in the list to select them for download. Use CTRL-click to select multiple items.

**Select All** Button – Selects all items in the list.

**Clear All** Button – Clears all current selections.

**Download options** – Select checkboxes to include options in the download file. Available download options may vary.

Download options are:



### Coded notes

Select to include a list of common machinery notes, enabling quick and easy notation during data collection.

### Operator list

Select to include the list of Operators.

### Force spectrum collection

Select to force spectrum collection on every overall measurement. Use for baseline data collection and/or data collection before or after a machine overhaul (when collected spectra are necessary for every POINT.)

### Download spectral bands

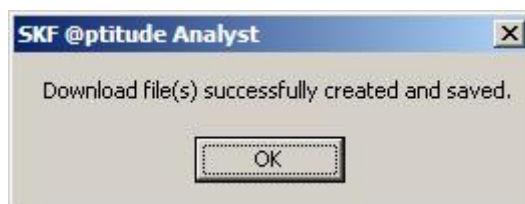
Select to download spectral band alarms for the downloaded POINTs. Available when downloading to a Microlog with CMVA 10 v3.30 or higher, CMVA65, or the Microlog GX.

### Download FAM information

Select to download bearing fault frequency information associated with the downloaded POINTs. Available when downloading to a CMVA65 Microlog, firmware version 3.80 or newer.

**Download output folder** – Enter the location path for the folder to contain the download files, or use the **Browse** button to locate.

**Create files** Button - Click to create the download files. A download progress dialog displays.



## Uploading Multiple Upload Files

Use the **Multiple Upload Files** tab to simultaneously upload multiple .uskf files created at the remote site(s). This procedure uploads all .uskf files stored in a specified directory. *Therefore, before continuing this procedure, ensure all desired .uskf files are stored in a unique directory.*

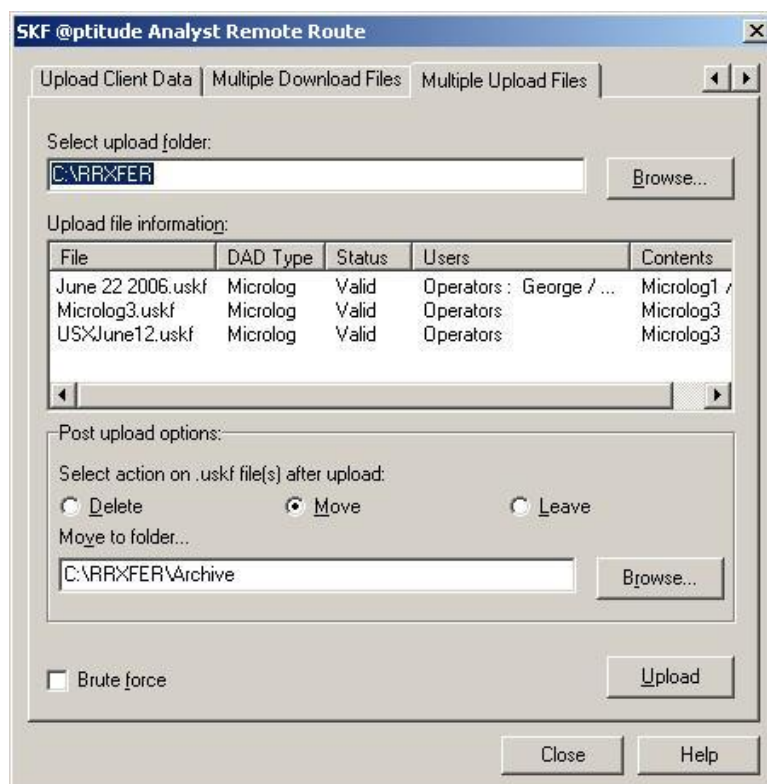


Figure 15.  
The **Multiple Upload Files** Tab.

**Multiple Upload Files** fields include:

**Select upload folder** – Enter the location path for the folder containing the upload files, or use the **Browse** button to locate.

**Upload file information** – Displays information corresponding to all upload files in the specified directory. Displayed information includes:

**File** – Displays the name of all .uskf files in the specified directory.

**DAD Type** – Displays the data acquisition unit as Microlog.

**Status** – Displays the status of the file as either Valid or Invalid.

**Users** – Displays the list of operators created in @ptitude Analyst.

**Contents** – Displays the list of ROUTE names contained in the file.

**Post upload options** – Select the appropriate post processing option. Options are:

**Delete** – All upload files will be deleted once data has been uploaded to the @ptitude Analyst and processed.

It is recommended that you save .uskf files for archive purposes, rather than deleting them.

**Move** – For archive purposes, all the upload files will be stored in the specified location. When this option is selected, the **Move to folder...** field is enabled. Type in the location path, or use the **Browse** button to identify the location of your choice.

**Leave** – For archive purposes, all the upload files will remain in their present location.

**Brute Force** – Click to enable. A Brute Force upload creates new POINTs (beneath a Non-ROUTE set in the hierarchy) for all uploaded collector POINTs (even if the uploaded POINTs already exist in the hierarchy) and uploads all data into these new POINTs.

**Upload Button** - Click to upload all (.uskf) files to the @ptitude Analyst database.

## Working with the Remote Route Client

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### Client Installation

To install the Client application on a remote site's computer:

- Insert your **SKF @ptitude Analyst Remote Route** installation CD into your CD drive. The install program automatically launches.

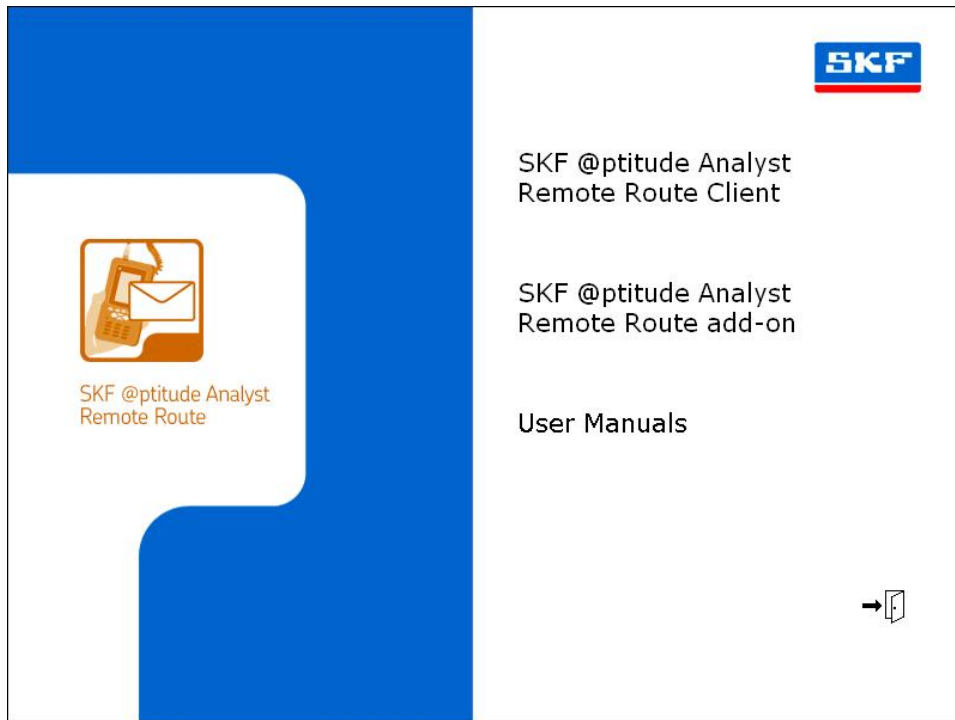


Figure 16.  
The Installation Program's Opening Screen.

- Select **SKF @ptitude Analyst Remote Route Client**. A splash screen appears as the installation program launches. When the install program is properly launched, the installation wizard displays.

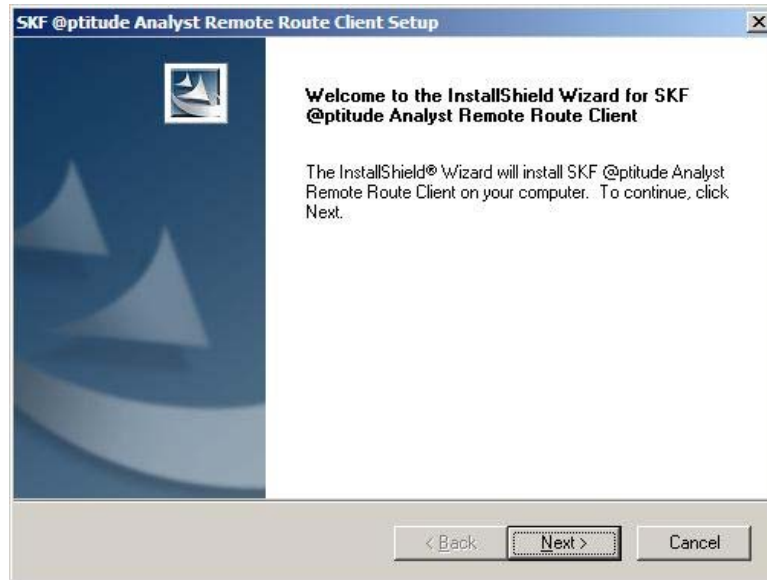


Figure 17.  
The **Welcome** Screen.

- Read the **Welcome** screen information. Then, click the **Next** button to proceed with the installation.

The installation program displays the **License Agreement** screen.

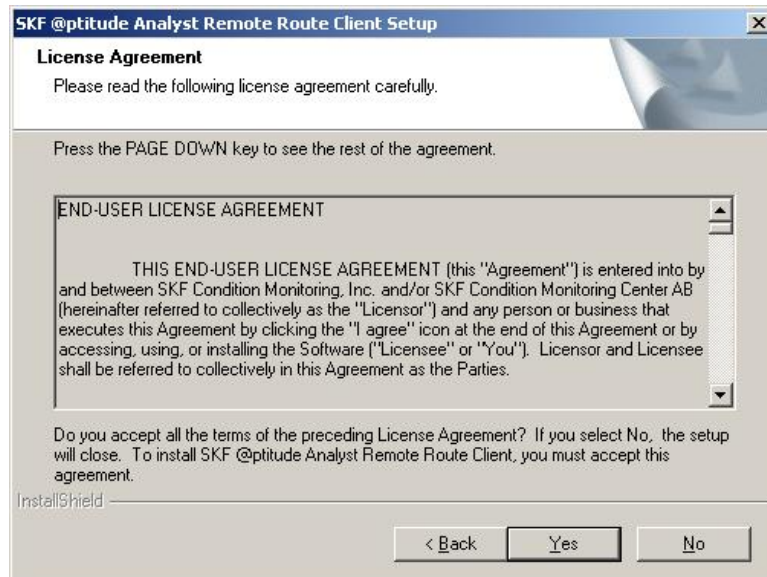


Figure 18.  
The **License Agreement** Screen.

- Read the license agreement and click **Yes**. The **Choose Destination Location** screen displays.

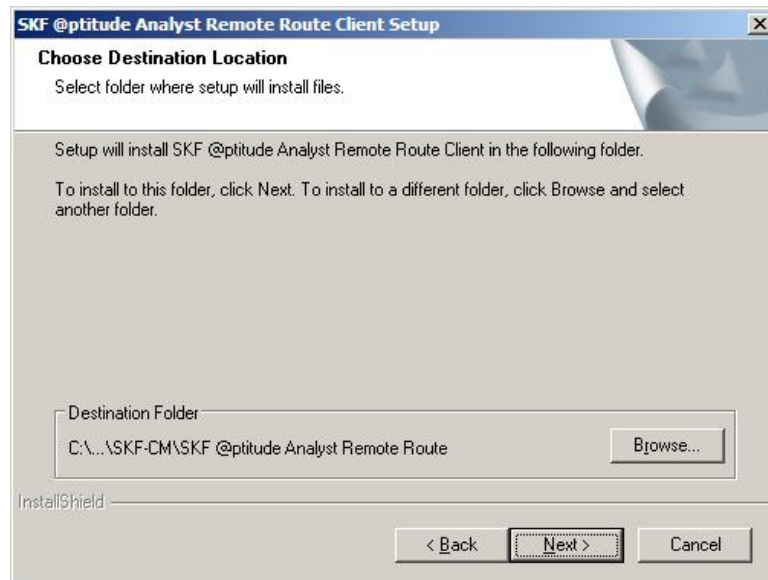


Figure 19.  
The **Choose Destination Location** Screen.

The default destination location displays in the **Destination Folder** area.

- Accept the default location, or use the **Browse** button to select a new location in which to install the Client application, and click the **Next** command button. The **Start Copying Files** screen displays.

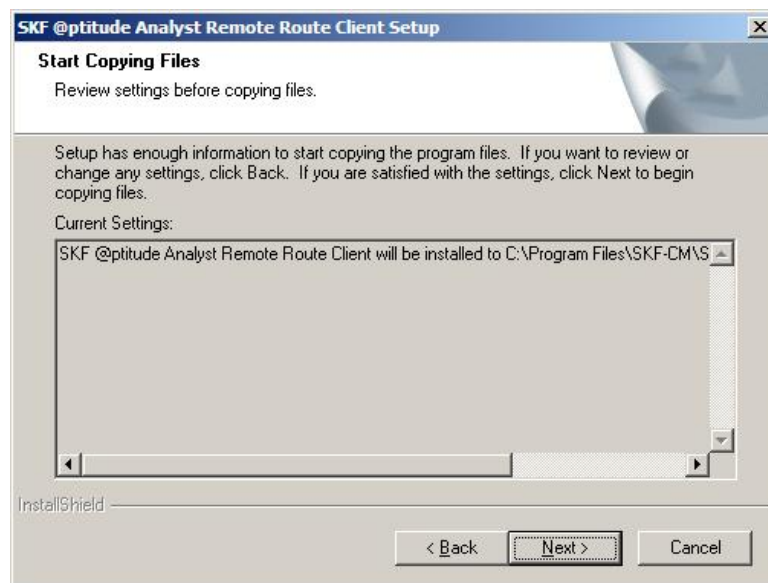


Figure 20.  
The **Start Copying Files** Screen.

- Click **Next** to start copying files.
- When installation is complete, the **InstallShield Wizard Complete** screen displays.



Figure 21.

The **InstallShield Wizard Complete** Screen.

- Click the **View the Read Me File** checkbox and click the **Finish** command button.
- After reading the **Read Me** file, close the file. You return to the installation program's opening screen.
- Click the door to exit the installation.



## How to Use the Client Application

Before working with download and upload files at the remote site, you must first:

- Connect the Microlog to the host computer and ensure communication baud rates are the same on the host computer and the connected Microlog.

Once proper communication is established, you are able to use the Client application to:

- **Open** and **View** a download file's contents (.dskf) sent from the @ptitude Analyst site via email or network transfer.
- Transfer ROUTE, Hierarchy, or Workspace measurements from the download file (.dskf) to a Microlog.
  - These measurements appear as ROUTE(s) on the Microlog.
- Upload collected measurement data from the Microlog to the computer creating upload files (.uskf).
- **Open** and **View** an upload file (.uskf) contents before sending measurements back to @ptitude Analyst via email or network transfer.

**To open the Remote Route Client application:**

- Select **Start / Program / SKF @ptitude Monitoring Suite / SKF @ptitude Analyst – Remote Route**. The **SKF @ptitude Analyst Remote Route Client** window displays.

**The Client Workspace**

The Client application's workspace displays the last download file opened (if any). The displayed download file becomes the default file for all subsequent viewing and transfer operations.

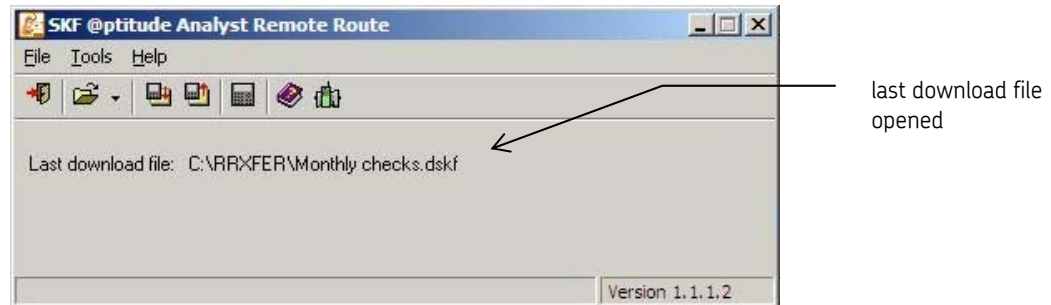


Figure 22.  
The **Remote Route Client** Window.

The **Remote Route Client** program provides three menu options: **File**, **Tools**, and **Help**.



## Client Menu Options

### File menu:

**Open** – Select to open a download (.dskf) or upload (.uskf) file.

- The last .dskf file opened displays in the Client window and is the default file for all subsequent viewing and transfer operations.

**Re-open** – Select to display a list of recently opened download files. This feature allows you to quickly access frequently used files.

**View download file** – Select to view a download file's (.dskf) contents.

**View upload file** – Select to view an upload file's (.uskf) contents.

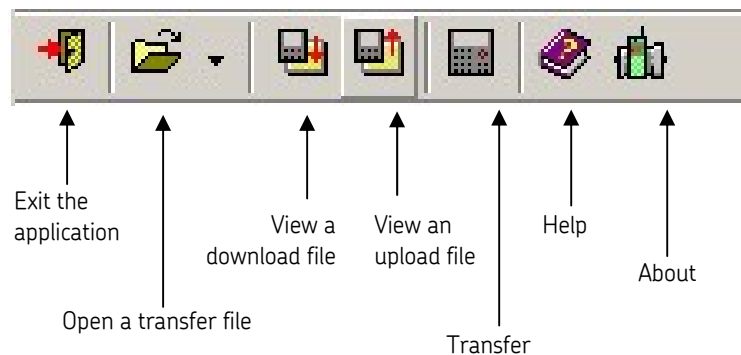
**Exit** – Select to exit the Remote Route Client application.

### Tools menu:

**Transfer** – Select to transfer data to and from the Microlog and establish Microlog settings.

## Client Toolbar

### Toolbar buttons:



## Setting Communication Options

Before transferring data to the Microlog, connect the Microlog and ensure the communication settings are identical between the Client application and the connected Microlog. Communication settings are set from the **Communication** tab.

### To set Microlog communication:

- Connect the Microlog to the computer.
- Open the Remote Route Client application.
- Select **Tools / Transfer**.
  - An error displays if the cable connection is not correct or the Client application's baud rate does not match the Microlog. If this is the case, the **Transfer** dialog title bar displays **DAD not responding**. Once a connection is established, the **Transfer** dialog displays **Microlog ready**.

- Select the **Communication** tab.

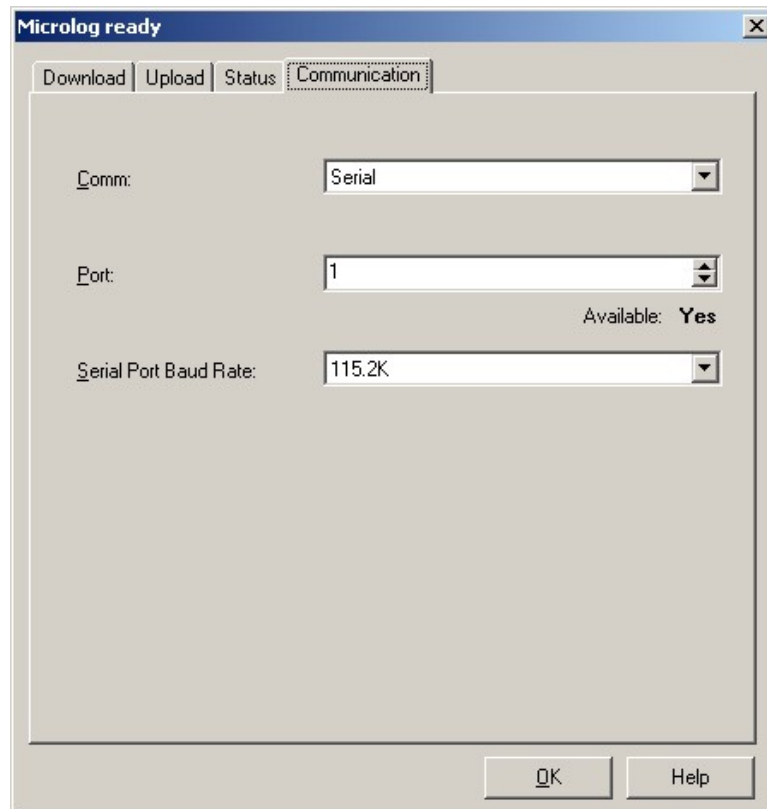


Figure 30.  
The Client **Communication** Tab.

**Communication** fields include:

**Comm - Serial** is the only available selection.

**Port** – Specify which host computer COM port you are using (such as, COM1, COM2, COM3, COM4). If the port selected is available, the **Available** field displays **Yes**.

**Serial Port Baud Rate** - Set the serial baud rate. This setting must match the Microlog's Baud Rate setting.

- Click **OK** when done.

## Viewing a Download File's Contents

Before downloading measurements to a Microlog, you may want to preview the file to confirm the file's contents.

### To view a download file:

- Select **File / View download file**. The **Open a download file** dialog displays.

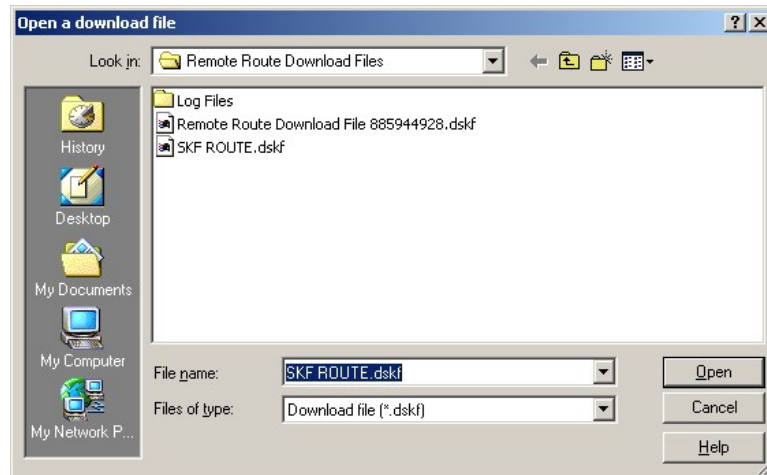


Figure 23.  
**Open a Download File** Dialog.

The most recently opened download file displays in the **File name** field. Click **Open** to select this file or select another file in this folder.

### To select a file located in a different folder:

- Ensure the **Files of type** field specifies **Download file (\*.dskf)**.
- Browse for the location of the file in the **Look in** field.
- Select a file and click **Open**. The viewer displays the file's contents.

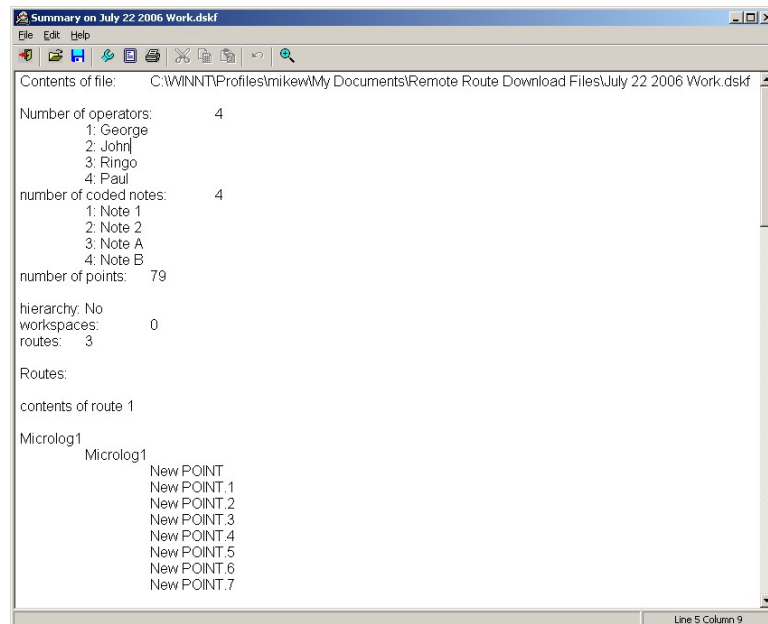


Figure 24.  
Displaying .dskf Data.

Once the file is confirmed, close the window and use the **Tools / Transfer** menu option to download measurements to the Microlog.

### Using the Transfer Menu

Use the **Tools / Transfer** option to transfer data to and from the Microlog, and to set Microlog communication settings. When **Transfer** is selected, the software automatically checks the Microlog connection. If there is a connection error, a warning dialog displays. If a connection is established, the **Transfer** dialog's title bar states **Microlog ready**.

#### To access the Transfer menu:

- Select **Tools / Transfer**, the transfer dialog displays.

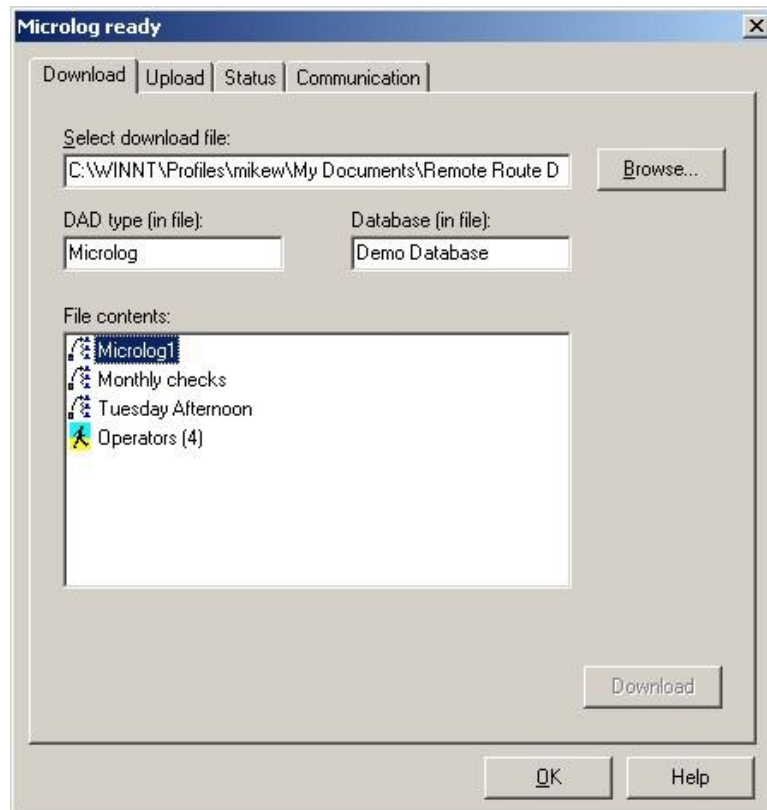


Figure 25.  
The Client **Transfer** Dialog.

**Transfer** dialog tabs include:

**Download** – Select to transfer measurements stored in download files (.dskf files) to the connected Microlog.

**Upload** – Select to transfer collected measurement data from the Microlog to the remote computer in the form of a .uskf file.

**Status** – Select to view the current status and device information for the connected Microlog.

**Communication** – Select to view or change communication settings for the connected Microlog.

## Downloading Measurements to the Microlog

Use the **Download** tab to select and transfer download files (.dskf files) to a Microlog.

### To download a .dskf file's measurements to a Microlog:

- Connect the Microlog to the computer.
- Open the Remote Route Client application.
- Select **Tools / Transfer** to display the transfer dialog.

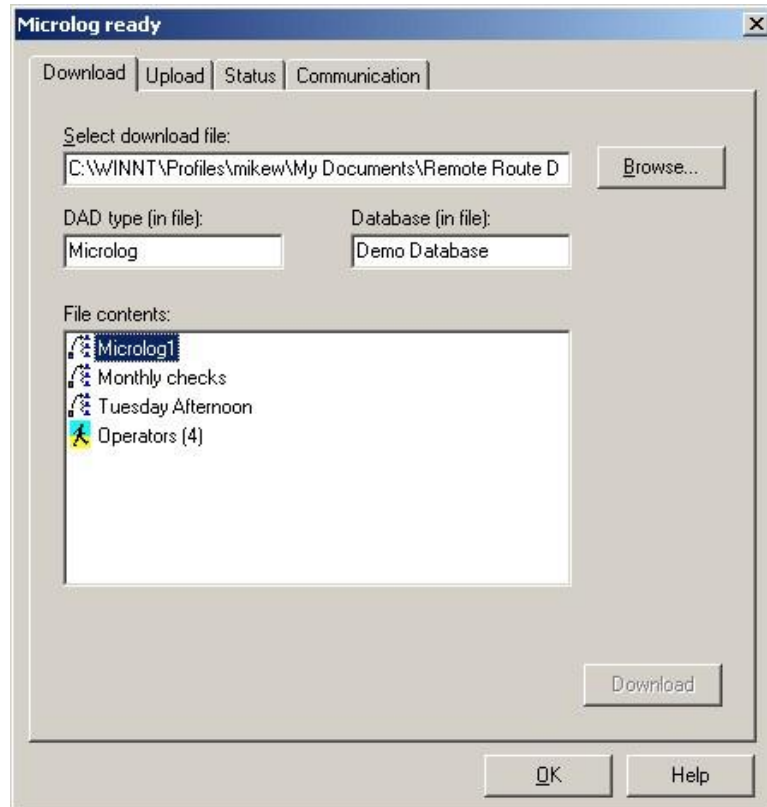


Figure 31.  
The **Download** tab.

- Select the **Download** tab.

### Download fields include:

**Select download file** – The most recently opened download file automatically displays. Click the **Browse** button to locate the desired .dskf file.

**DAD type (in file)** – Displays the unit type as **Microlog** and cannot be changed.

**Database (in file)** – Displays the @ptitude Analyst database name used to create the specified .dskf file.

**File contents** – Displays download items contained in the specified download file.

**Download** Button – Click to download the selected .dskf file's contents to the Microlog.

The Microlog is now ready for data collection.

## Uploading Data from the Microlog

After collecting measurement data, use the **Upload** tab to transfer collected data from the Microlog to the remote computer. This creates an upload file (.uskf) that can be emailed or network transferred to the @ptitude Analyst site.

### To create an upload file (.uskf file):

- Open the Remote Route Client application.
- Select **Tools / Transfer** to display the transfer dialog.

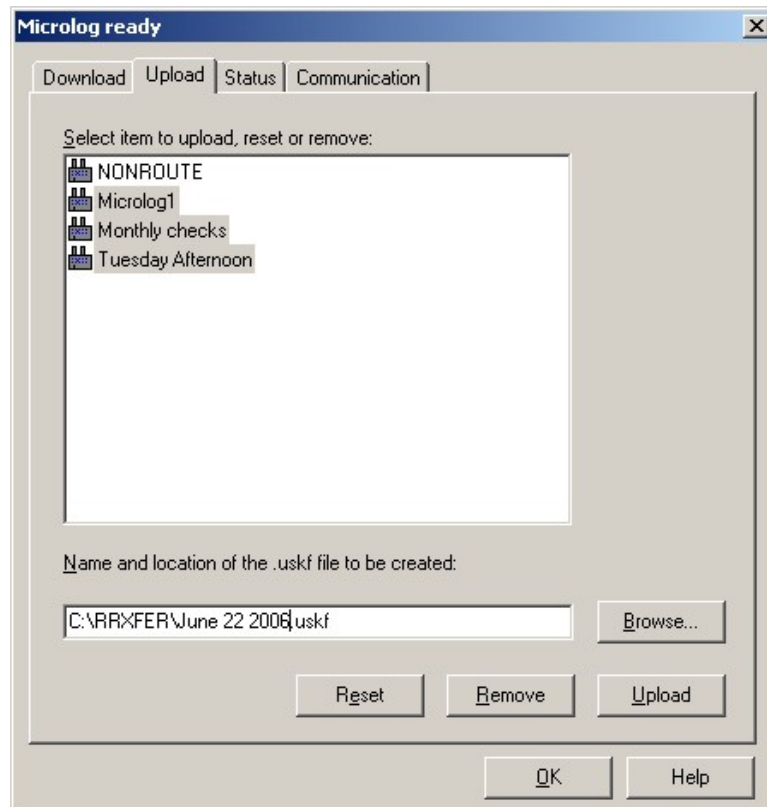


Figure 32.  
The Client **Upload** tab.

- Select the **Upload** tab.

### Upload fields include:

**Select item to upload, reset, or remove** – Displays all ROUTEs currently stored in the connected Microlog.

- Select the ROUTE(s) you wish to upload or remove. Use Ctrl+click to select multiple items.

**Name and location of the .uskf file to be created** – Enter the path and filename for the new upload file, or use the **Browse** button to identify a location and filename.

**Upload** Button – Click to upload selected items to an upload file (.uskf).

**Remove** Button – Click to remove selected ROUTEs from the Microlog.

**Reset** Button – After uploading, click to reset selected ROUTEs. Use this option to clear collected selected ROUTE data from the Microlog but leave the selected ROUTE's downloaded SETs, Machines, and POINTs. It deletes all spectral data, deletes all non-ROUTE POINTs and POINT data, and resets the current measurement data to zero for all POINTs (current values are retained as LAST values). ROUTEs, SETs, Machines, and POINT sequence and measurement instructions are not affected. This allows you to take data for a ROUTE, upload it, reset the data out of the Microlog without losing the ROUTEs, SETs, Machines, or POINTs, and then take data on the same ROUTEs, SETs, Machines, or POINTs again. The reset option also downloads all operator names and coded notes from the last opened .uskf file to the Microlog.

## Viewing an Upload File's Contents

Use the **View uploaded file** option to view a .uskf file before emailing it to the @ptitude Analyst site. It is recommended to view an upload file prior sending it to @ptitude Analyst to ensure the correct data has been included.

**To view an upload file:**

- Select **File / View upload file**. The **Open an upload file** dialog displays.

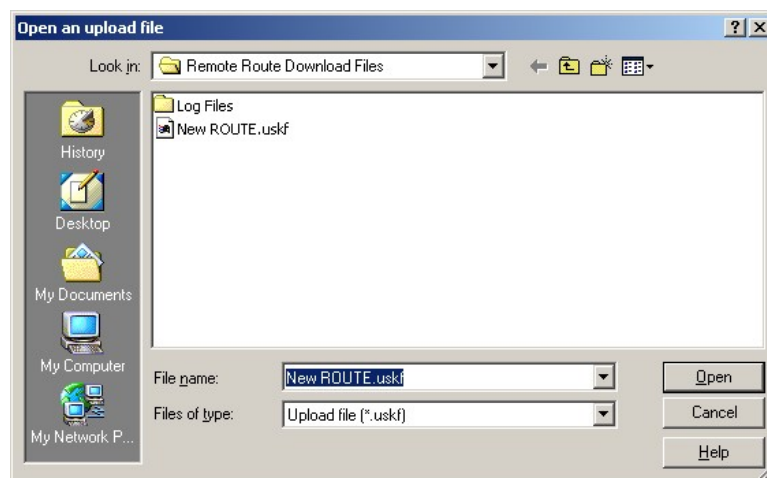


Figure 33.  
**Open an Upload File** Dialog.

The most recent upload file accessed (if any) displays in the **File name** field. Click **Open** to select this file or select another file in this folder.

**To select a file located in a different folder:**

- Ensure the **Files of type** field specifies **Upload file (\*.uskf)**.
- Specify the file's folder in the **Look in** field.
- Select a file and click **Open**. The viewer displays the file's contents.



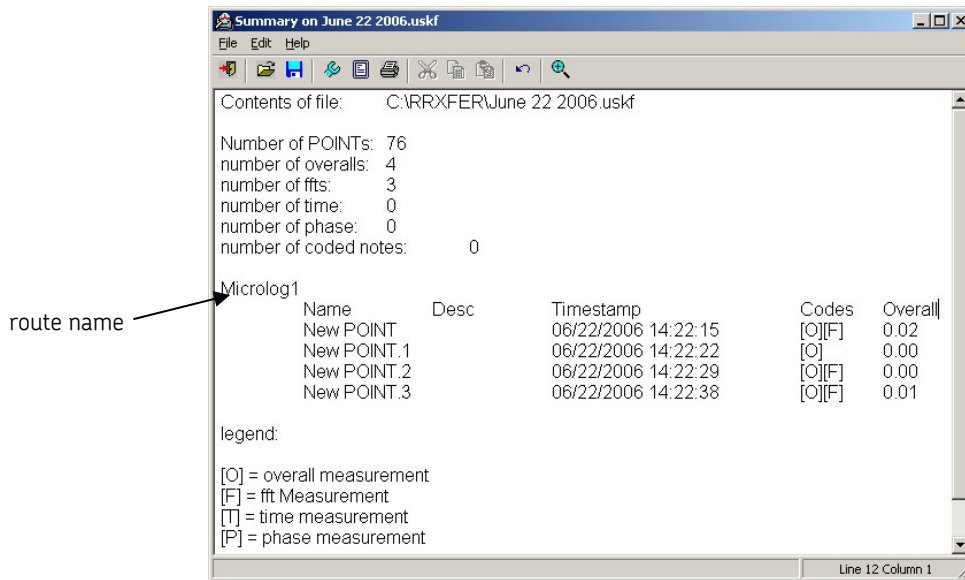


Figure 26.  
Displaying .uskf Data.

Once the file is confirmed, you can attach the .uskf file to an email, or transmit the file over a network to the @ptitude Analyst site.

## Viewing the Microlog's Status

Use the **Status** tab to view or change the connected Microlog's settings.

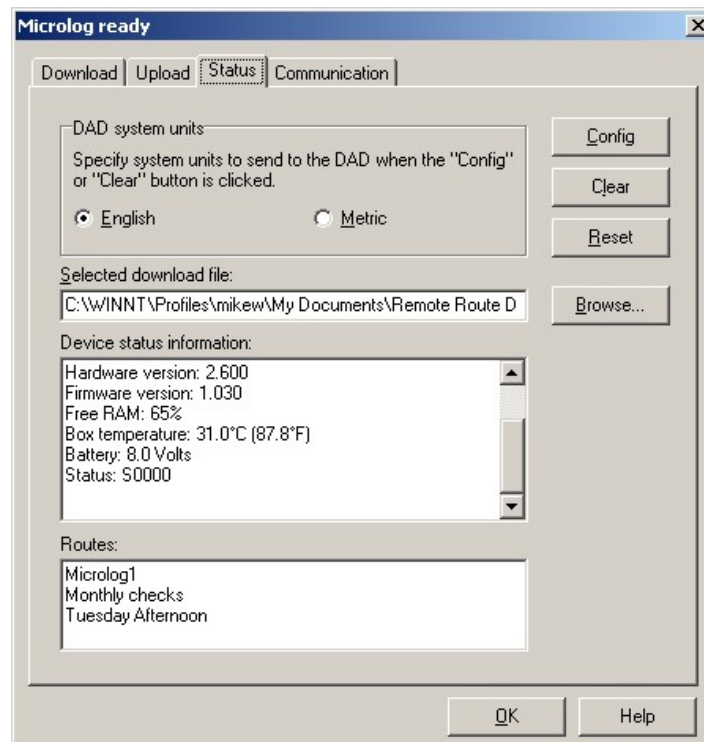


Figure 33.  
The Client **Status** Tab.

**Status** fields include:

**DAD system units** – Select **English** or **Metric**. Determines the Microlog's default measurement units for *non-ROUTE* measurements on the Microlog. This setting does not affect Microlog ROUTE measurements.

**Selected download file** – Displays the path and filename of the last download file opened. Click **Browse** to locate a different download file.

- The field does not display .dskf files.

When a .dskf file is selected and a Microlog connection is established, the following command buttons activate:

**Config** – Use this to update the Microlog's status information to match those of the host computer. The **Config** option also downloads the operator list and coded notes from the selected .dskf file to the Microlog.

**Clear** – Use this option to clear the entire Microlog. It erases all data, SETs, Machines, POINTs, ROUTEs, ROUTE Instructions, non-ROUTE POINTs, coded notes, and operator names stored in the Microlog. It does not change the Microlog's menu settings. After clearing the Microlog, the **Clear** option downloads a new operator list and coded notes from the selected .dskf file to the Microlog.

**Reset** – Use this option to clear collected data but leave the downloaded SETs, Machines, and POINTs. It deletes all spectral data, deletes all non-ROUTE POINTs and POINT data, and resets the current measurement data to zero for all POINTs (current values are retained as LAST values). ROUTEs, SETs, Machines, and POINT sequence and measurement instructions are not affected. This allows you to take data for a ROUTE, upload it, reset the data out of the Microlog without losing the ROUTEs, SETs, Machines, or POINTs, and then take data on the same ROUTEs, SETs, Machines, or POINTs again. The **Reset** option also downloads all operator names and coded notes within from the specified .dskf file to the Microlog.

**Device status information** – Displays the following information:

**Hardware Version** – Displays the Microlog's hardware version.

**Internal Clock** – Date and time from the Microlog's clock.

**Data Source** – The name of the source hierarchy for POINTs currently stored in the Microlog.

**POINTs Downloaded** – Number of POINTs currently stored in the Microlog.

**Firmware Version** – The Microlog's firmware version number.

**Free RAM** – The percent of the Microlog's memory that is free for storage.

**Box Temperature** – The Microlog's internal temperature.

**Battery** – The Microlog's battery voltage level.

**Status** – The Microlog's status code.

**Serial Number** – Available only with Microlog firmware version 3.80 or newer.

**Routes** – Displays the list of all ROUTEs stored in the connected Microlog.



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