



ABB

The Company

We are an established world force in the design and manufacture of instrumentation for industrial process control, flow measurement, gas and liquid analysis and environmental applications.

As a part of ABB, a world leader in process automation technology, we offer customers application expertise, service and support worldwide.

We are committed to teamwork, high quality manufacturing, advanced technology and unrivalled service and support.

The quality, accuracy and performance of the Company's products result from over 100 years experience, combined with a continuous program of innovative design and development to incorporate the latest technology.

The UKAS Calibration Laboratory No. 0255 is just one of the ten flow calibration plants operated by the Company and is indicative of our dedication to quality and accuracy.

EN ISO 9001:2000



Cert. No. Q 05907

EN 29001 (ISO 9001)



Lenno, Italy – Cert. No. 9/90A

Stonehouse, U.K.



Electrical Safety

This equipment complies with the requirements of CEI/IEC 61010-1:2001-2 'Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use'. If the equipment is used in a manner NOT specified by the Company, the protection provided by the equipment may be impaired.

Symbols

One or more of the following symbols may appear on the equipment labelling:

	Warning – Refer to the manual for instructions		Direct current supply only
	Caution – Risk of electric shock		Alternating current supply only
	Protective earth (ground) terminal		Both direct and alternating current supply
	Earth (ground) terminal		The equipment is protected through double insulation

Information in this manual is intended only to assist our customers in the efficient operation of our equipment. Use of this manual for any other purpose is specifically prohibited and its contents are not to be reproduced in full or part without prior approval of the Technical Publications Department.

Health and Safety

To ensure that our products are safe and without risk to health, the following points must be noted:

1. The relevant sections of these instructions must be read carefully before proceeding.
2. Warning labels on containers and packages must be observed.
3. Installation, operation, maintenance and servicing must only be carried out by suitably trained personnel and in accordance with the information given.
4. Normal safety precautions must be taken to avoid the possibility of an accident occurring when operating in conditions of high pressure and/or temperature.
5. Chemicals must be stored away from heat, protected from temperature extremes and powders kept dry. Normal safe handling procedures must be used.
6. When disposing of chemicals ensure that no two chemicals are mixed.

Safety advice concerning the use of the equipment described in this manual or any relevant hazard data sheets (where applicable) may be obtained from the Company address on the back cover, together with servicing and spares information.

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1 Introduction

The File Transfer Scheduler (FTS) program extends the archiving capabilities of SM Series Videographic Recorders connected to a network. FTS can be programmed to:

- retrieve data from recorders at regular intervals without manual intervention
- synchronize the internal clock of recorders with the internal clock of the PC on which FTS is running.

A data retrieval schedule and a clock synchronization schedule can be defined for each recorder on the network. The data retrieval schedule lists the times when file retrieval is to occur, the files to be retrieved and the location where the files are to be saved. The clock synchronization schedule lists the times when the recorder's internal clock is to be synchronized with that of the PC.

The File Transfer Scheduler runs automatically, retrieving and storing files and synchronizing clocks according to schedules defined for each recorder.

2 Operation

2.1 Starting the Program – Figs. 2.1 and 2.2

Once started, the program runs in the background and does not need to be restarted to collect files. If the computer is turned off and restarted regularly, use standard Microsoft™ Windows procedures to place a shortcut for the program in the startup menu. FTS then starts automatically at user login.

When the program is running, a FTS icon is displayed in the system tray (adjacent to the clock at the right-hand end of the status bar) – see Fig. 2.1.

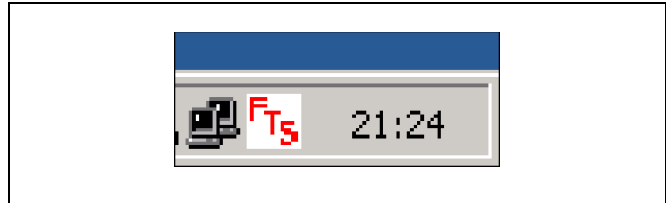


Fig. 2.1 'File Transfer Schedule' Icon

Double-clicking the icon opens the 'File Transfer Schedule' window – see Fig. 2.2. This is used to configure and control all file transfer and scheduling operations.

Note. Closing the 'File Transfer Schedule' window does not close the FTS program. To close the program, refer to Section 2.9, page 8.

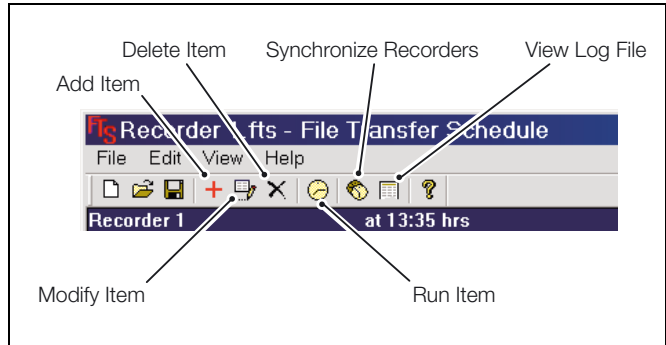


Fig. 2.2 'File Transfer Schedule' Window

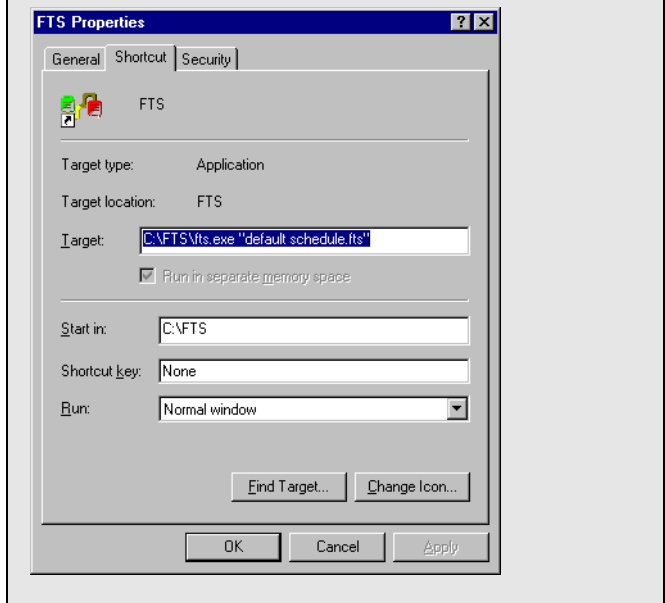
2.2 Creating a New Schedule – Figs. 2.3 to 2.5

A schedule can be configured to run on specified days, either at four specified times or at hourly intervals between specified times. It can also be run whenever the FTS program is started.

To create a new schedule, click the **+** button on the toolbar to display the 'Schedule' dialog box. Here, the details of the instrument, the files to be retrieved and scheduled times are entered – see Fig. 2.4 on page 7.

Note. If the program is to start automatically without operator intervention to load the schedule file, the name of the schedule file in which the schedule is saved must be included in the command line.

Example – 'c:\fts\fts.exe' 'default shedule.fts'



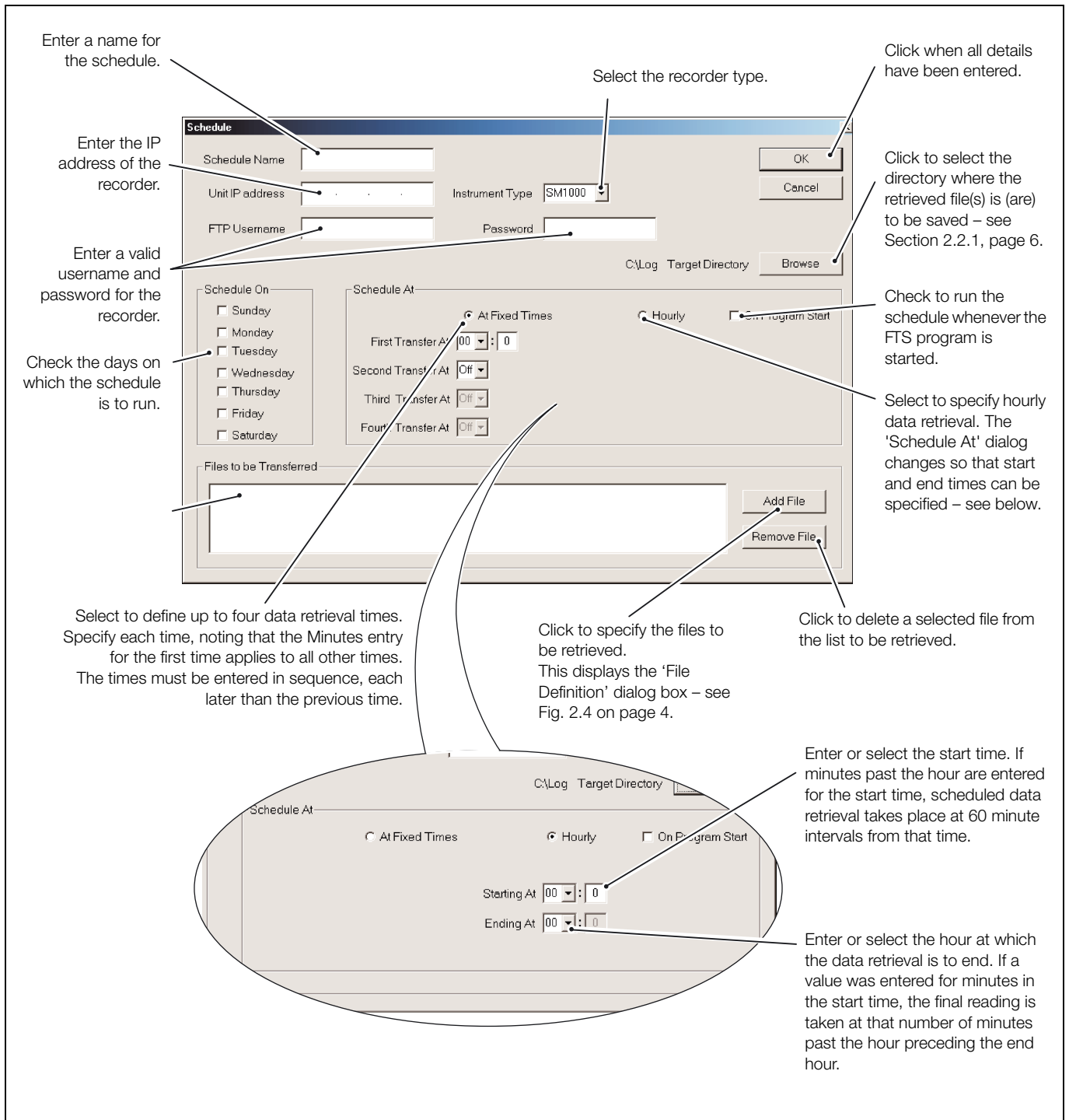


Fig. 2.3 'Schedule' Dialog Box

Enter the Filename Tag of the file to be retrieved – see Fig. 2.5 on page 5.

Click to enter the selected file(s) in the list of files to be retrieved.

Select the type of file to be retrieved – see Note below:

Binary – } Recording channel data files in Binary or CSV format
Comma Separated – } retrieved from the recorder's memory card
Configuration – Configuration data from the recorder's internal memory

Note. Separate file definitions must be made for each type of file to be retrieved. Any number of files and file types may be added to the list of files to be retrieved.

Enter the type of data to be retrieved.

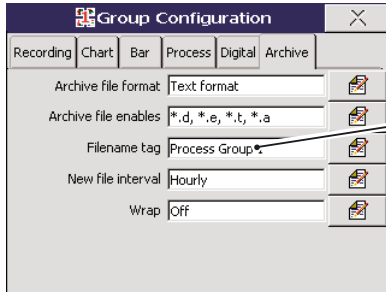
Alarm/Event Log and Totalizer Log files are generated for each group and have the same filename tag, enabling them to be retrieved as a single scheduled item by selecting 'Group Logs'.

Note. This list is greyed-out if the **Configuration** file type is selected.

Fig. 2.4 'File Definition' Dialog Box

Ensure that the name entered in the 'Filename Tag' field of the 'File Definition' dialog box (see Fig. 2.4 on page 4) matches **exactly** that entered in the relevant parameter of the recorder from which the file(s) is (are) to be retrieved – see below

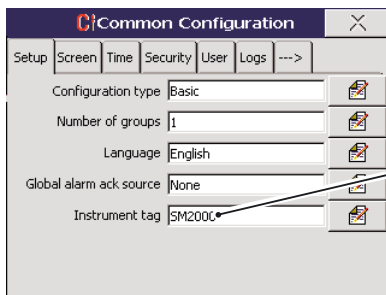
SM500F, SM1000 and SM2000



Note. The screenshots at left are taken from the SM2000 – the SM500F and SM1000 are similar.

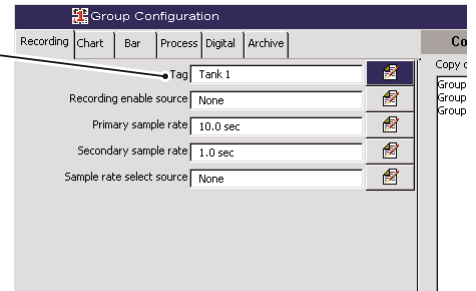
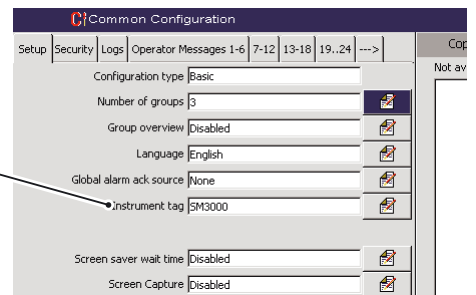
Text (CSV) format Channel Data (*.d) archive files – as per 'Filename tag' parameter on 'Archive' Tab in 'Group Configuration'

Note. Text (CSV) format Channel Data files are applicable only to SM500F, SM1000 and SM2000 recorders and only when the 'Archive file format' parameter is set to 'Text format'.



Binary format Channel Data (*.d) archive files and Audit Log (*.a) archive files – as per 'Instrument tag' parameter on 'Setup' Tab in 'Common Configuration'


SM3000



Alarm/Event Log (*.e) and Totalizer Log (*.t) archive files – as per 'Tag' parameter on 'Recording' Tab in 'Group'

Fig. 2.5 Filename Tags

2.2.1 Selecting a Directory in which to Save Retrieved File(s)

When creating a new schedule, select the directory into which the retrieved file(s) is (are) to be saved by clicking the  button – see Fig. 2.3 on page 3. The 'Select Target Directory' dialog box is displayed – see Fig. 2.6.

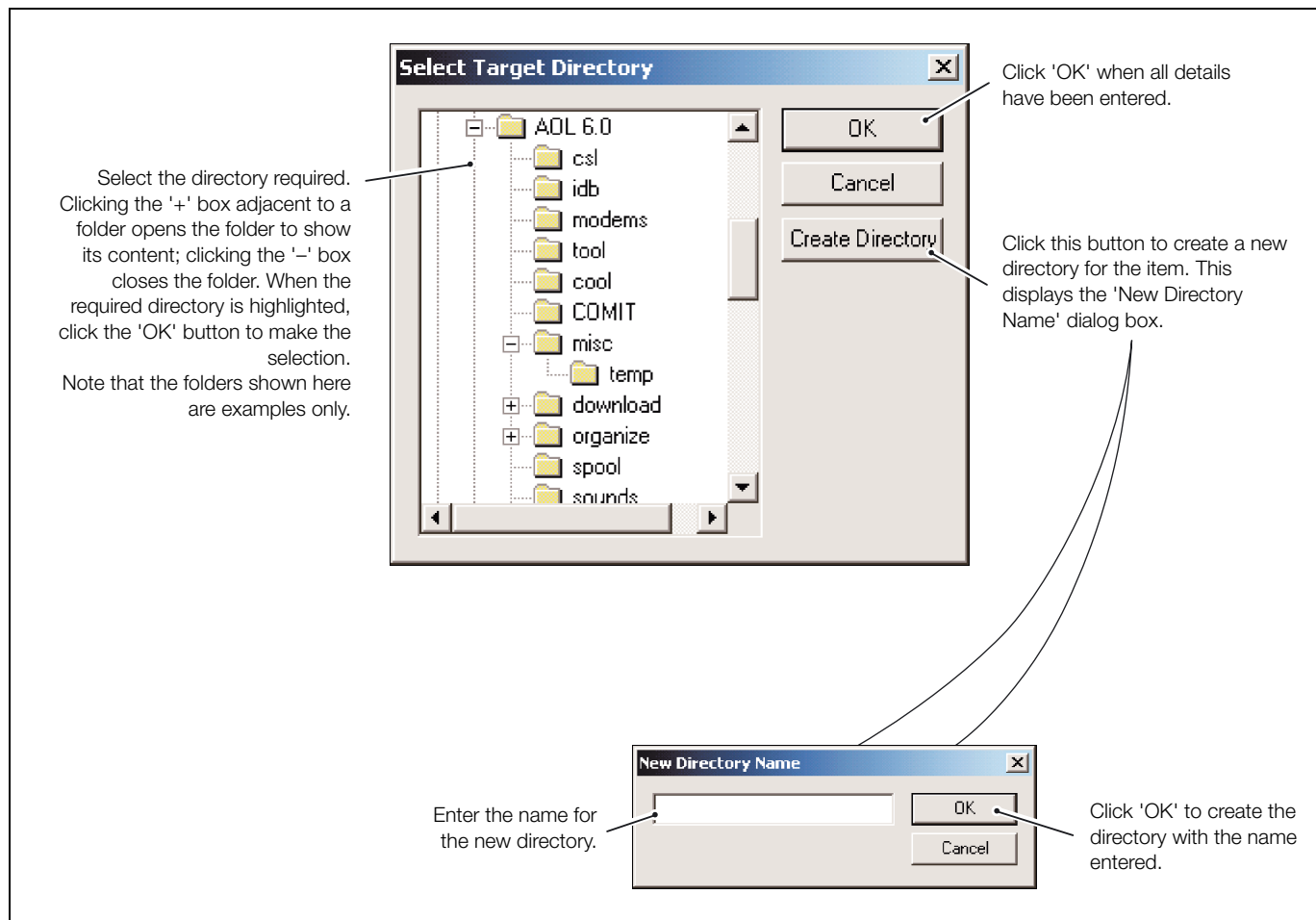



Fig. 2.6 'Target Directory' Dialog Box

2.3 Modifying a Schedule

Schedules can be changed at any time:


1. In the 'File Transfer Schedule' window (see Fig. 2.2 on page 2), highlight the schedule to be modified.
2. Click the  button on the toolbar or double-click the selected schedule.

The 'Schedule' dialog box (see Fig. 2.3 on page 3) is displayed containing the selected schedule's details.

3. Make the required changes to the schedule and click the 'OK' button.

2.4 Deleting a Schedule

To delete a schedule:


1. In the 'File Transfer Schedule' window (see Fig. 2.2 on page 2), highlight the required schedule.
2. Click the  button on the toolbar or right-click on the required schedule and select 'Delete' from the popup menu.

The item is deleted immediately, with no warning message.

2.5 Saving a Schedule


When a schedule has been created, it must be saved under a unique name:

1. Open the 'File' menu and select 'Save As'.
2. Select the required directory and enter a file name (ensuring that the extension is .fts) and click the 'Save' button.

Click the  button on the toolbar to save further changes to a named schedule.

2.6 Running a Schedule


A schedule can be run manually at any time:

1. In the 'File Transfer Schedule' window (see Fig. 2.2 on page 2), highlight the schedule to be run.
2. Click the  button on the toolbar, or right-click on the selected schedule and select 'Run Schedule Now' from the popup menu.

The schedule is marked with a red asterisk to show that it is currently active.

2.7 Recorder Synchronization

Recorder synchronization can be scheduled at a specified time on specified days or monthly at a specified time and date.

To create a new synchronization schedule, click the  button on the toolbar to display the 'Synchronization' dialog box. Here, the details of the instrument and the times at which synchronization is to take place are entered – see Fig. 2.7.

Note. To enable recorder synchronization, the User must have FTP access to the instrument to be synchronized and the parameter 'Remote Configuration' must be set to 'Configuration' for that User – refer to:

- SM500F – On-line help files for the Ethernet Module
- SM1000 and SM2000– IM/SMENET Section 3
- SM3000 – IM/SM3000 Section 4.4.5

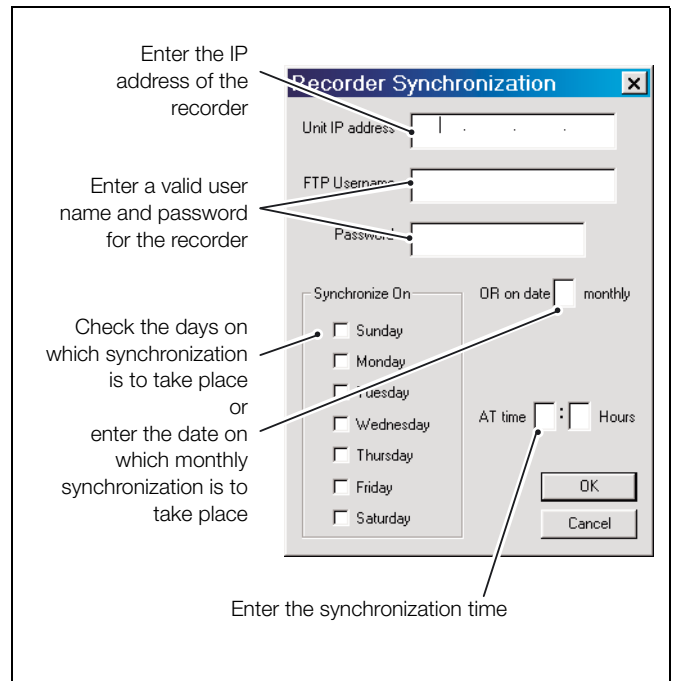


Fig. 2.7 Recorder Synchronization Dialog Box

2.8 Viewing the Log File

Whenever a schedule is run, either automatically or manually, all of its actions are recorded in a log file with the name 'Scheduled File Transfer Log.txt'.

To view the log file, click the  button on the toolbar.

Notepad opens showing all the entries in the log file – see Fig. 2.8.

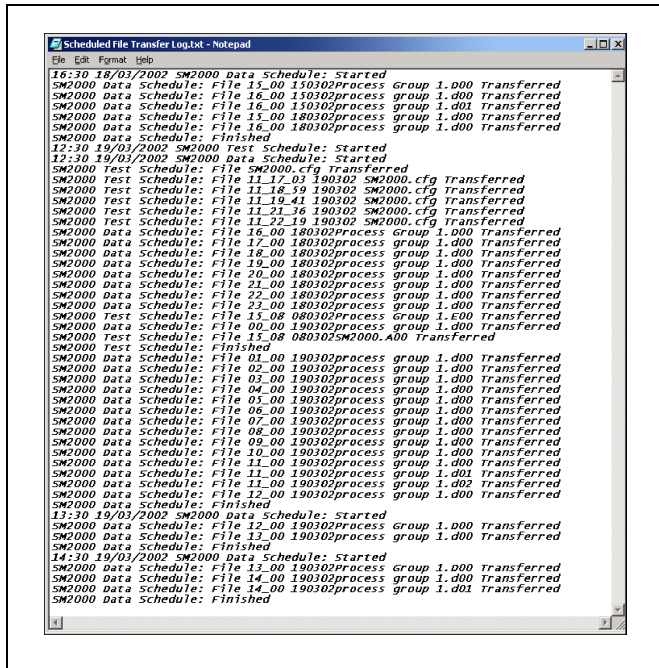


Fig. 2.8 Typical Log File

2.9 Closing the Program

To close the 'File Transfer Scheduler' program:

1. Right-click the FTS icon in the system tray (adjacent to the clock at the right-hand end of the status bar):



An option menu is displayed:



2. Choose 'Exit FTS' to close the program.

2.10 Data Retrieval Selection Criteria

Each time a schedule is run, details of the retrieved files are recorded in a schedule file. This file is checked at the next schedule run time and any files with the same size and modified date and time are not retrieved.

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Customer Support

We provide a comprehensive after sales service via a Worldwide Service Organization. Contact one of the following offices for details on your nearest Service and Repair Centre.

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Tel: +44 (0)1480 475321
Fax: +44 (0)1480 217948

United States of America

ABB Inc.
Tel: +1 215 674 6000
Fax: +1 215 674 7183

Client Warranty

Prior to installation, the equipment referred to in this manual must be stored in a clean, dry environment, in accordance with the Company's published specification.

Periodic checks must be made on the equipment's condition. In the event of a failure under warranty, the following documentation must be provided as substantiation:

1. A listing evidencing process operation and alarm logs at time of failure.
2. Copies of all storage, installation, operating and maintenance records relating to the alleged faulty unit.

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Printed in UK (02.07)

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