
Advanced SSR Scheduling Tool (ASSET) Users Guide

Release 4.0



April 2003

**Goddard Space Flight Center
Greenbelt, Maryland**

Preface

Overview This document provides detailed instructions for using the features of the Advanced SSR Scheduling Tool (ASSET). The NASA Goddard Space Flight Center's (GSFC) Mission Applications Branch (Code 583) developed ASSET for the Terra Flight Operations Team. ASSET is a software tool for partially automating the scheduling of playbacks for the SSR buffers on Terra.

Audience This guide is intended for users of the ASSET tool needing direction scheduling SSR buffer playbacks for Terra with ASSET.

Applicability The information in this document corresponds to ASSET Release 4.0.

For more information: Copies of this document, along with questions or proposed changes, should be addressed to:

Patricia Johnson
Mission Applications Branch
Code 583
Goddard Space Flight Center
Greenbelt, Maryland 20771

Table of Contents

Preface	2	
Table of Contents	3	
1	Introduction	5
1.1	What is ASSET?.....	6
1.2	System Requirements.....	7
1.3	Using this Manual	8
2	Getting Started	9
2.1	Installing ASSET	10
2.2	Starting and Quitting ASSET.....	12
2.3	ASSET Windows	14
2.4	ASSET Toolbar.....	16
2.5	ASSET Menu.....	17
3	Working with Schedules	18
3.1	Creating a New Schedule	19
3.2	Scheduling Options	20
3.4	Layout of the Timeline.....	24
3.5	Creating Contacts	26
3.6	Generating a Schedule.....	27
3.7	Saving Schedules	29
3.8	Opening Saved Schedules.....	31
3.9	Printing Schedules.....	32
4	Filtering Data	34
4.1	Filters.....	35
4.2	Display Filters.....	36
4.3	Print Filters.....	39
5	Miscellaneous Information	42
5.1	Preferences	43
5.2	Dump Windows	46
5.3	Dump Windows Offsets	48

5.4	Synchronization Points.....	50
5.5	Modeling Parameters.....	52
5.6	ASTER RTCS Identifiers.....	54
5.7	Red and Yellow Limits.....	56
5.8	Station Management	57
5.9	Timeline Column Widths.....	59
5.10	Print Column Widths.....	60
Index	61	

1 Introduction

1.1 What is ASSET?

Why Was ASSET Developed?

The Advanced SSR Scheduling Tool (ASSET) is a software package for partially automating the process of scheduling playbacks for Solid State Recorder (SSR) buffers on the Terra satellite during non-standard events and difficult planning periods. Limitations in the current scheduling system, the Mission Management System (MMS), preclude its use for scheduling SSR playbacks for non-standard events and difficult planning periods such as Inclination adjustments and loss of TDRS contact time. Developed to support the Terra Flight Operations Team (FOT), ASSET automates the parsing of input reports, extraction of events from the files and generation of playback schedules.

Previously, this process involved using manual procedures supported by a collection of commercial off-the-shelf tools (COTS) such as Microsoft Excel.

ASSET Functionality

In addition to partially automating the manually intensive task of scheduling playbacks for non-standard events and difficult planning periods, ASSET provides the following functions:

- Automated parsing of required reports files. This includes the TDRS contact report, the ATC load report, the SSR buffer dump report, the Orbital events report, and the ground contact report.
- Extraction of events from the report files. Extracted events include NADIR Term crossing to Day/Night events, K, S and X band contacts, and ASTER imaging modes.
- Automatic and manual creation of dump windows within X and K band contacts.
- SSR Buffer Dump Schedule generation and playback determination.

Other functionality provided by ASSET includes:

- The ability to filter the displayed and printed data.
- Customization of the ASSET interface.
- The ability to save generated schedules and use them as baselines for future schedules.

1.2 System Requirements

Overview The ASSET application is a cross-platform tool, written in Java. The following table describes the minimum system requirements for using ASSET.

Minimum Specifications:

The system requirements for using ASSET are as follows:

	Required	Recommended
OS	Windows 98, NT, 2000 or ME. In addition ASSET should run on any operating system that supports Java 2 (JRE 1.4). However ASSET has only been tested on the Windows platform	Windows NT or 2000. In addition ASSET should run on any operating system that supports Java 2 (JRE 1.4). However ASSET has only been tested on the Windows platform
Memory	128 MB RAM	256 MB RAM
Processor	Pentium II class or faster processor	Pentium III 500 MHz or faster processor
Disk Space	45 MB (additional space may be required to store saved schedules)	100 MB (additional space may be required to store saved schedules)
Video	800 x 600	1024 x 768
Other	CD Rom Drive	CD Rom Drive

Note: Future versions of ASSET will be tested on the Unix platform.

1.3 Using this Manual

- Organization of this Manual** This manual describes the operations one can perform using ASSET and how to use the different features of the tool. The manual is organized as follows:
- Section 1 of this document provides introductory material.
 - Section 2 provides basic instructions for getting started with ASSET.
 - Section 3 provides instructions for working with schedules.
 - Section 4 provides instructions for filtering the data displayed and printed.
 - Section 5 provides miscellaneous information about ASSET and its use.
-

Conventions

The following terms and notational conventions are used in this document:



Indicates a procedure, directing the user on how to perform a particular action.

Note:

Indicates a note, providing information that may be helpful to the user.



Indicates a Warning, Caution, or other important information that users should know.

bold serif type

Indicates menu items, buttons or check boxes that perform some action when selected with the mouse. Can also indicate window and field titles.

Italics

For menu selections may also be performed using a combination of keystrokes, the keystrokes are listed in italics (e.g. *Ctrl+A*).

"Italics"

Indicates system messages displayed to the user.

Items in CAPS

Indicates a specific key on the keyboard (e.g. TAB or ENTER).

2 Getting Started

2.1 Installing ASSET

Before You Begin:

To install ASSET, your computer must have a CD-ROM drive, or you must have access to the ASSET installation zip file on separate media (generally a ZIP disk). We recommend installing from CD-ROM if possible. Please refer to Section 1.2, [System Requirements](#), to verify that your system meets the minimum requirements for ASSET.



Installing ASSET from CD-ROM:

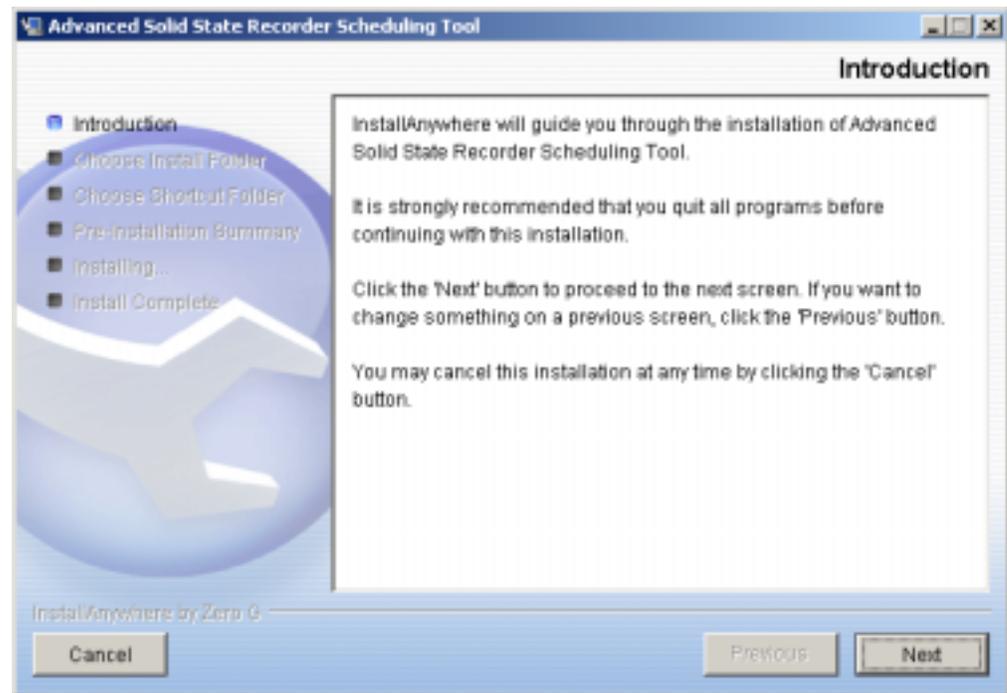
1. Insert the ASSET CD in the CD-ROM drive.
 2. Create a folder on your computer for the ASSET distribution.
 3. Copy the contents of the “Asset” folder on the CD-ROM into the folder you created in step 2.
 4. ASSET is now installed on your computer.
-



Installing ASSET from CD-ROM using the graphical installer:

1. Insert the ASSET CD in the CD-ROM drive.
2. Double click on the installation file: “install_ASSET.exe”.
3. Follow the directions in the wizard to install the software. Figure 2.1.1 shows a picture of the installation wizard. You will need to provide the following information:
 - a. The location on your computer where you want to install ASSET
 - b. The location on your computer where you want to install the shortcut to ASSET. Note that the installer will provide a default location.
4. After you have provided all necessary information, the Installer installs ASSET on your computer in the specified location. When the installation is complete, click the **Finished** button and ASSET is now installed on your computer.

Figure 2.1.1
The ASSET
Installation
Screen



2.2 Starting and Quitting ASSET

Before You Begin

ASSET should be properly installed on your computer.



To Start ASSET on a Windows machine:

1. Open the folder in which you installed ASSET.
2. Double click on the “Start ASSET.bat” file.
3. Or double click on the desktop shortcut for ASSET.



To Start ASSET on a Windows machine (if you installed using the graphical installer):

1. Click the Windows **Start** button. 
2. Select **Programs**.
3. Select **ASSET**.
4. Click on the **ASSET** button.

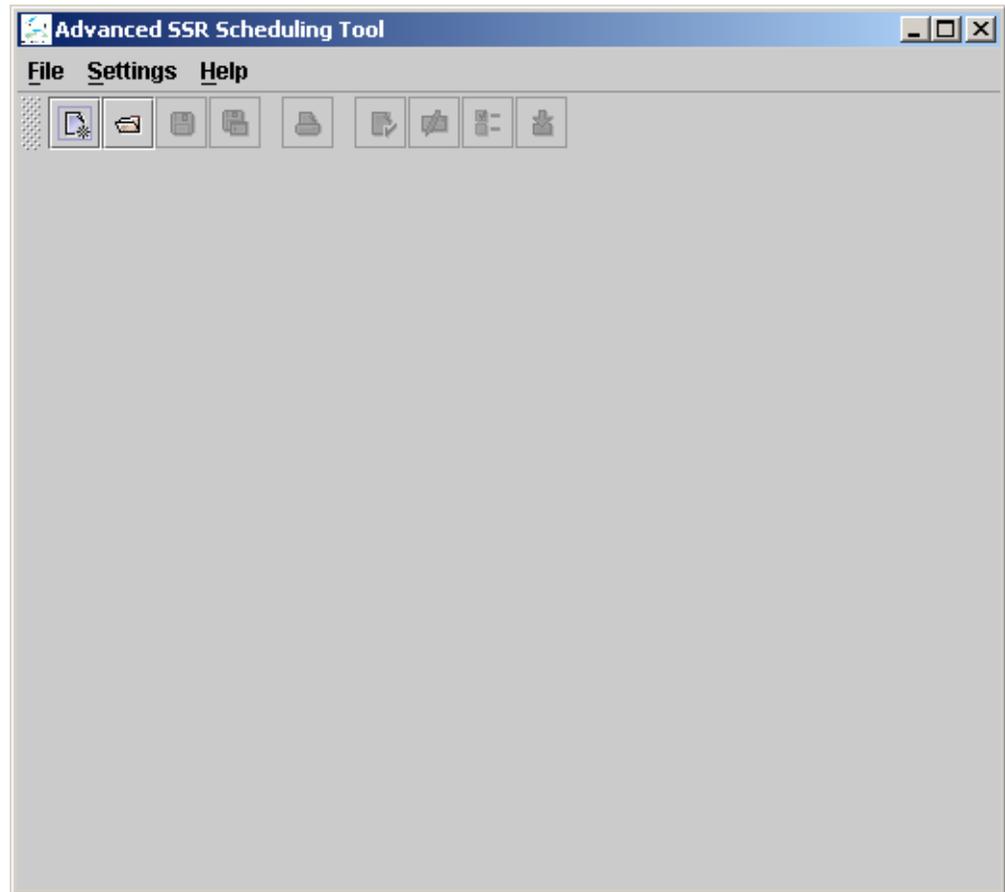
Note:

A “splash screen” (see Figure 2.2.1) is displayed while the system loads. After loading, the ASSET Main Window is displayed (see Figure 2.2.2).

Figure 2.2.1
The ASSET
Splash Screen



Figure 2.2.2
The ASSET Main
Window



To Quit ASSET:

Pull down the **File** menu and choose **Exit**. Or use the ALT + X keyboard shortcut, or click the close box in the upper right hand corner of the main window. Selecting any of these options causes the application to shut down.

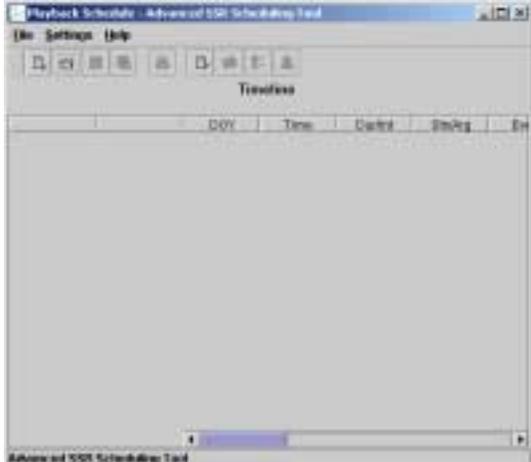
2.3 ASSET Windows

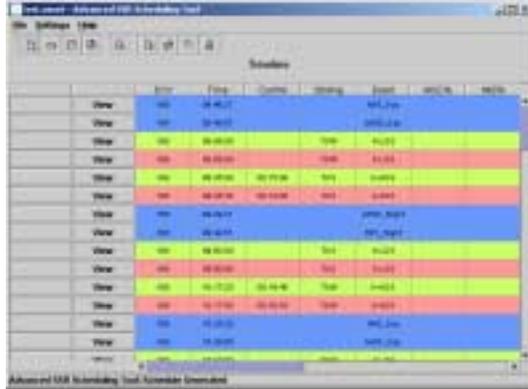
Overview

The ASSET interface is composed of a single main application window. Within the main application window is a timeline that displays schedule information such as contact periods, dump windows, playback windows etc. Additionally, the main window provides a menu bar for controlling system operation and a tool bar containing frequently used features of ASSET.

ASSET Windows

The following are a few of the many windows (dialogs) in ASSET. Other windows are introduced later in this document to describe different functionality.

Title	Window	Description
Main Window		<p>This is the main application window presented to the user at program start-up. Through this window, the operator controls the ASSET tool.</p>
Timeline		<p>The main application window showing an empty timeline.</p>

<p>Timeline</p>		<p>The main application window showing a timeline containing several events.</p>
<p>Scheduling Options</p>		<p>The scheduling options window is used to specify required scheduling value such as the scheduling horizon, report location, modeling modes, etc</p>
<p>Preferences</p>		<p>The options in the preferences window are used to customize the appearance of the ASSET user interface.</p>

2.4 ASSET Toolbar

Overview

The ASSET main window contains a toolbar of buttons. The buttons provides quick access to often-used functions of ASSET. This section describes the toolbar and the features it provide.

Main Window Toolbar

The main ASSET window contains a selection of commonly used features in a toolbar. This toolbar is always available, although certain tools (options) may be disabled based on the context (e.g., the create contacts tool will be unavailable if scheduling options have not been specified). The following operations are available on the toolbar:

Tool	Function
	New Schedule: Creates a new playback schedule. Existing schedules are closed (saved or not based on user selection) before the new schedule is created.
	Open Schedule: Opens a previously saved schedule. Existing schedules are closed (saved or not based on user selection) before the schedule is opened.
	Save Schedule: Saves the current schedule in binary or text format.
	Save Schedule As: Saves the current schedule with a different type. Also allows schedule to be saved as text.
	Print Schedule: Sends the current schedule to a printer.
	Scheduling Options: Pops up the scheduling options dialog for specifying the scheduling options needed by ASSET.
	Create Contacts: Parses the reports files and extract events from the files and displays them on the timeline.
	Select Sync Point: Displays the synchronization point selection dialog.
	Generate Schedule: Generates and displays an SSR playback schedule.

2.5 ASSET Menu

Overview

The ASSET main window contains a single menu for accessing all ASSET functionality. This section details the functionality provided by the menu bar and how to access the operations.

Menu Item	Function
File>	<p>The File menu handles most file management tasks for ASSET. Items contained in this menu include:</p> <ul style="list-style-type: none"> Creating a New schedule. Opening a saved schedule. Saving a schedule (both in binary and text formats). Closing a schedule. Specifying scheduling options. Creating contacts. Selecting a synchronization point. Generating a schedule. Exiting the system.
Settings>	<p>This menu contains features for customizing ASSET. Items contained in this menu include:</p> <ul style="list-style-type: none"> Selecting display and print filters Setting column widths both for the timeline and printed schedule Editing ASTER modeling rates Setting Red and Yellow Limits Setting user preferences Setting MMS connection information Managing Stations Configuring offsets for automatic dump windows creation
Help>	<p>This menu provides access to Tip of the Day and ASSET online help.</p>

3 Working with Schedules

3.1 Creating a New Schedule

Overview

Playback Schedules are the products of ASSET. A playback schedule consists of a synchronization point, contact periods, rate change events, (such as MODIS DAY and MODIS NIGHT) dump windows and playback periods.



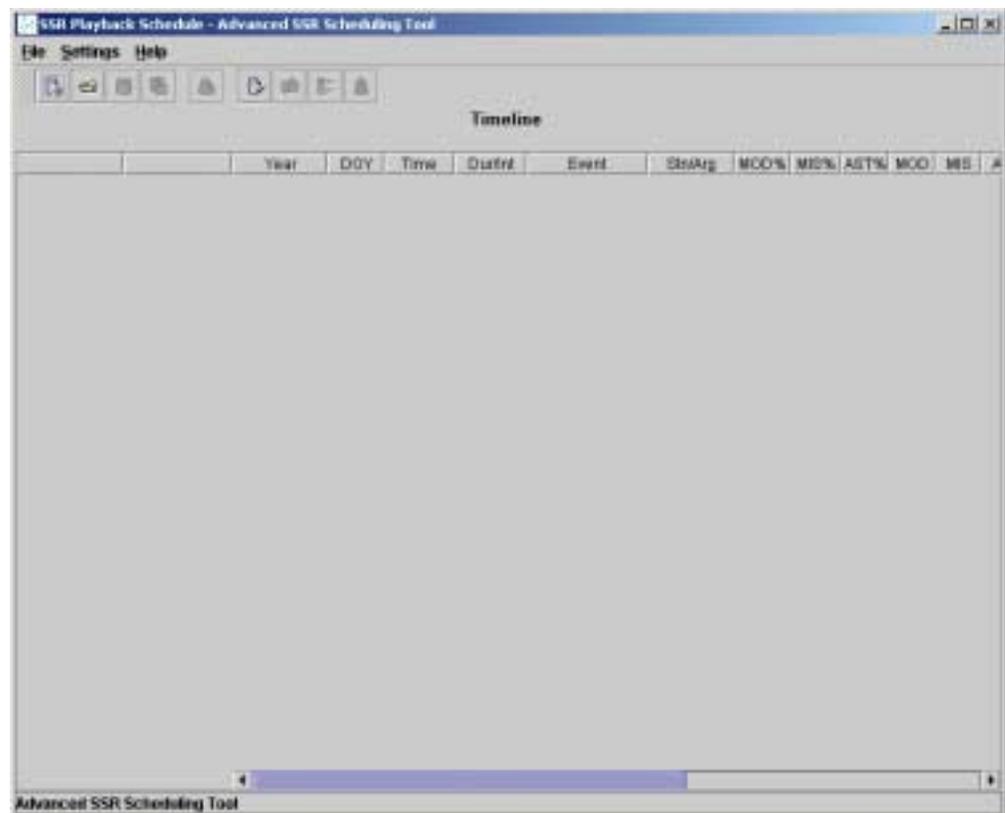
To create a new schedule:

1. Pull down the **File** menu and choose **New OR**

Click on the **New Schedule** icon on the toolbar. 

2. The system empties the internal schedule, clears the list of events and contacts, and clears the timeline.
3. If an unsaved schedule is currently open in the application, ASSET prompts the user to save the file.
 - Select **Yes** to save the old schedule. (Note that you will be prompted for a file name and location)
 - Select **No** to discard the current schedule without saving.
 - Select **Cancel** to retain the current schedule.
4. Figure 3.1.1 shows the main window after creating a new schedule.

Figure 3.1.1:
ASSET window
showing a new
schedule



3.2 Scheduling Options

Overview

After creating a new schedule, the next step in generating a playback schedule is to specify the scheduling options to be used for schedule generation. This includes specifying the plan start and stop times, ASTER modeling mode and percentage, and the location of report files.

Note:

For ASSET version 3.0 and lower, report files must be located on the same computer as ASSET or on a network location accessible from the computer on which ASSET is installed. Future release of ASSET will include the functionality to retrieve the reports directly from MMS.



To open the scheduling options window:

Pull down the **File** menu and choose **Scheduling Options...** OR

Click on the **Scheduling Options** icon on the toolbar.  .

Figure 3.2.1 shows the scheduling options window.



The scheduling options windows contains the following user specified fields:

Plan Start	This is the start date/time for the special event schedule. Format is: yyyy/doy/hh:mm:ss.
Plan Stop	This is the plan stop date/time. During parsing of report files, events that occur after the plan stop time are ignored. The plan start and stop time are used to limit the events parsed from report files. Format is: yyyy/doy/hh:mm:ss.
Create Partial Playbacks	This value controls whether ASSET will attempt to create partial playbacks for dump windows that need them. See Section 5.2: Dump Windows for more information about partial playbacks.
Max Sync Point Offset	This value is used in conjunction with the plan start time. In the window of time specified by the different between the plan start time and the plan start time minus the sync point offset, ASSET searches for candidate synchronization points (i.e. contact periods where all buffers of the SSR can be completely emptied). Format is: hh:mm.
Aster Modeling Mode	A flag indicating how ASSET will model the ASTER Buffer. Selecting "Manual" (the default option) instructs ASSET to use a fixed percentage to modeling ASTER usage. Selecting "Automatic" instructs SPLAY to model ASTER usage based on actual ASTER usage as specified in the ATC load report. Note that when "Automatic" is selected, an ATC load report must be specified during report selection.

Aster Modeling %	A fixed percentage value. Used for modeling the ASTER buffer usage in "Manual" mode. This field is not required if Aster Modeling Mode is set to "Automatic".
Reports Location	A drop down box indicating the location of the required input reports. The default option, "Local Directory", indicates that reports are on the local computer on which ASSET is running or on a network accessible drive. The other option "MMS" instructs ASSET to retrieve the reports directly from MMS. See Section 5.11: MMS Interface for more information.

Figure 3.2.1: The Scheduling Options Window

Note:

Starting with release 4.0 of ASSET, report files can be automatically downloaded from MMS. See Section 5.11: [MMS Interface](#) for more information.



To Select the reports used during schedule generation, the user must click the **Select Reports...** button on the scheduling options window. Selecting this option when using local reports causes ASSET to display the Report Files window (Figure 3.2.2). If the **Select Reports...** button is clicked while **Reports Location:** is set to "MMS", ASSET will attempt to download report files directly from MMS.



Within the reports window, the operator specifies the name and location of the input reports. The input reports window contains the following fields:

ATC Load Report	The ATC load report contains the ASTER RTCS IDs. When specified, ASSET parses the valid IDs and adds the events to the timeline. For a list of the default RTCS IDs, how to add more IDs, and how to delete unwanted IDs, see Section 5.5: ASTER RTCS Identifiers . Note that this report is required, and visible only when Aster Modeling Mode is set to "ATC". In addition this report cannot be automatically downloaded from MMS. It must be manually retrieved and placed on the user's local computer.
-----------------	---

TDRS Report	This report contains K-band and S-band TDRS contact periods.
SSR Buffer States	This report contains buffer states entries for use in sync point determination.
Orbital Events	This report contains NADIR_TERM_CROSSING events used to determine MODIS and MISR DAY/NIGHT.
GN Report	This report contains X-band or ground contact periods.

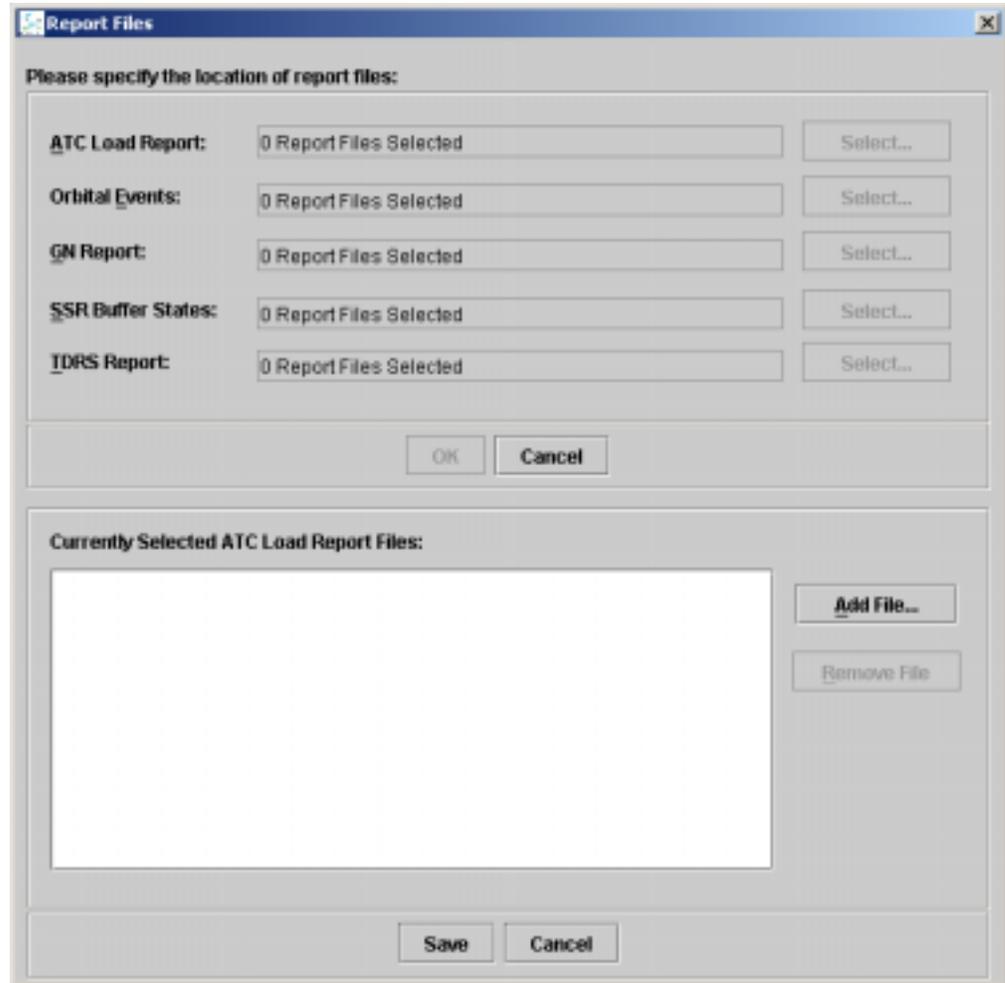
Figure 3.2.2: The Report Files Window



Note: Clicking on any of the **Select...** buttons opens the lower pane that allows files to be selected.

Note: When reports are automatically downloaded from MMS, the fields in the Report Files window are pre-populated with the local location of the files that were downloaded.

Figure 3.2.3: The Report Files Window showing the lower pane for selecting files



Note: Clicking the **Add File...** buttons causes a standard file browser to be displayed. Through the file browser, one can visually locate report files. The **Remove File** button allows removal of the selected file

3.3 Layout of the Timeline

Overview

The timeline displayed in the main window contains a wealth of information regarding the playback schedule events. This section describes the layout of the data on the timeline and description of the available fields. Note that descriptions of field contents will be delayed to later sections.



Each event on the timeline contains the following fields: Note that some fields are not valid or used for some event types.

Add button	This button is only valid (has a label and is active) for K or X band contact periods. This button allows the operator to add a new dump window to the contact period.
Edit Button	This button is valid (present) only for dump windows. This button allows the operator to modify or remove an existing dump window.
View Button	This button allows the operator to enter a comment for the event.
DOY	This field contains the integer day of the year for the event.
Time	This field contains the time of the event.
Dur/Int	This field has different meanings depending on the event type. For contact periods, this field contains the duration of the contact. For playback start events this field contains the difference between the start of this playback and previous playback and for playback stop events, this field contains the safety margin or difference between the actual playback end and the end of the corresponding dump window.
Station/Arg	This field contains station name or argument data depending on the event type. For TDRS contacts, this field contains the 3-character name of the contact. For playback start events, this field contains the PBLEX argument (playback duration) if the playback is a FLEX playback, or the maximum dump percentages for the MODIS, MISR, and ASTER buffers separated by commas for non-flex playbacks.
Event	This field contains the type of the event.
MOD%	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the MODIS buffer usage in percent.
MIS%	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the MISR buffer usage in percent.

AST%	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the ASTER buffer usage in percent.
MOD	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the time allocated to playing back data from the MODIS buffer.
MIS	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the time allocated to playing back data from the MISR buffer.
AST	This field is only valid for synchronization point events, playback start events, and playback carryover events. The field contains the time allocated to playing back data from the ASTER buffer.
TOT	This field is only valid for playback start events. The field contains the Total playback time allocated for all buffers.
MOD_Lim	This field is only valid for playback start events. The field contains a color-coded value if the MODIS buffer usage exceeds the user specified Red or Yellow Limit.
MIS_Lim	This field is only valid for playback start events. The field contains a color-coded value if the MISR buffer usage exceeds the user specified Red or Yellow Limit.
AST_Lim	This field is only valid for playback start events. The field contains a color-coded value if the ASTER buffer usage exceeds the user specified Red or Yellow Limit.
Comments	This field contains a user specified comment for the event.

3.4 Creating Contacts

Overview

Creating contacts is the process of parsing the selected report files and extracting required events. Extracted events are then filtered and displayed on the timeline. During contact creation, ASSET also selects a synchronization point and places initial dump windows in contact periods.



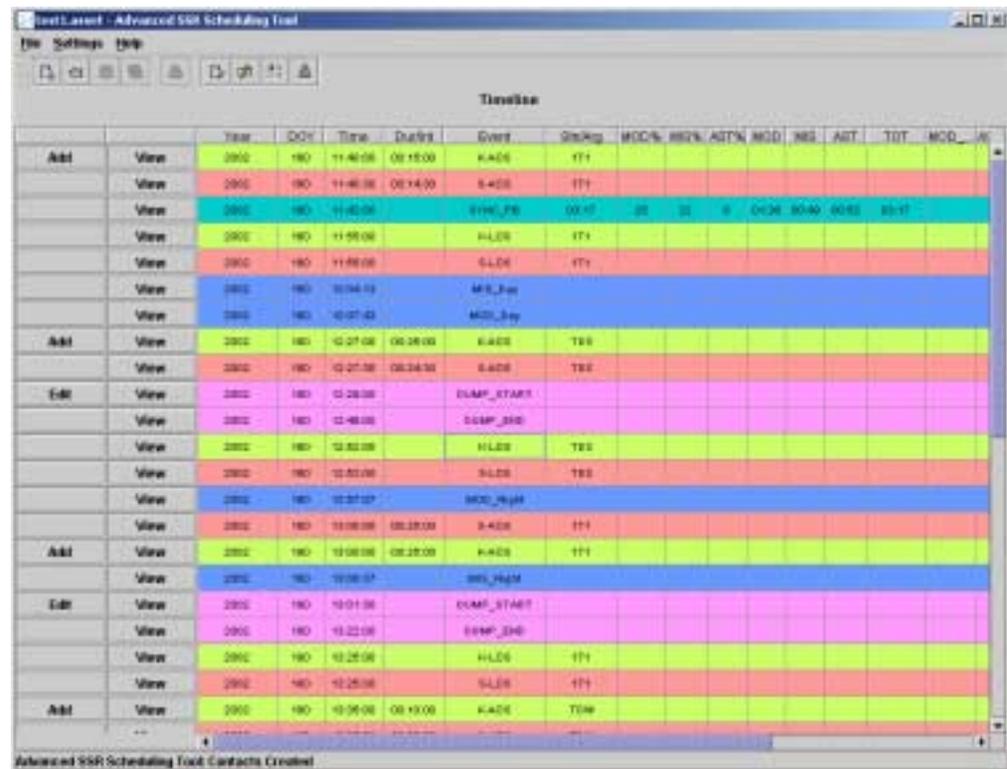
To create contacts:

Pull down the **File** menu and select **Create Contacts** OR

Click on the **Create Contacts** icon on the toolbar. 

Figure 3.4.1 shows the main window and timeline after contact creation.

Figure 3.4.1: The ASSET timeline after creating contacts



		Year	DOY	Time	Date	Event	Group	MCC%	RS%	ASTN	MOD	RES	AST	TOT	MOD	W
Add	View	2002	180	11:40:00	00:15:00	KADE	IT1									
	View	2002	180	11:40:00	00:14:00	S4DE	IT1									
	View	2002	180	11:40:00		S1W_P8	00:15	20	20	0	0000	00:00	00:00	00:00	00:15	
	View	2002	180	11:50:00		H4DE	IT1									
	View	2002	180	11:50:00		S4DE	IT1									
	View	2002	180	00:04:00		MIS_Fan										
	View	2002	180	00:07:00		MIS_Sys										
Add	View	2002	180	02:27:00	00:26:00	KADE	TE2									
	View	2002	180	02:27:00	00:24:00	S4DE	TE2									
Edit	View	2002	180	02:28:00		DUMP_START										
	View	2002	180	02:48:00		DUMP_END										
	View	2002	180	02:50:00		H4DE	TE2									
	View	2002	180	02:50:00		S4DE	TE2									
	View	2002	180	02:57:00		MIS_High										
	View	2002	180	11:00:00	00:20:00	KADE	IT1									
Add	View	2002	180	10:00:00	00:20:00	KADE	IT1									
	View	2002	180	10:00:00		MIS_High										
Edit	View	2002	180	10:01:00		DUMP_START										
	View	2002	180	10:22:00		DUMP_END										
	View	2002	180	10:25:00		H4DE	IT1									
	View	2002	180	10:25:00		S4DE	IT1									
Add	View	2002	180	10:36:00	00:10:00	KADE	TE2									



Since contact lists cannot be created until the scheduling options have been specified, the **Create Contacts** operation is disabled until scheduling options have been specified.

3.5 Generating a Schedule

Overview

Generating a schedule is the final step in creating an SSR playback schedule. The end product of this step is an SSR playback schedule that can be saved (either as binary or as text) or printed.



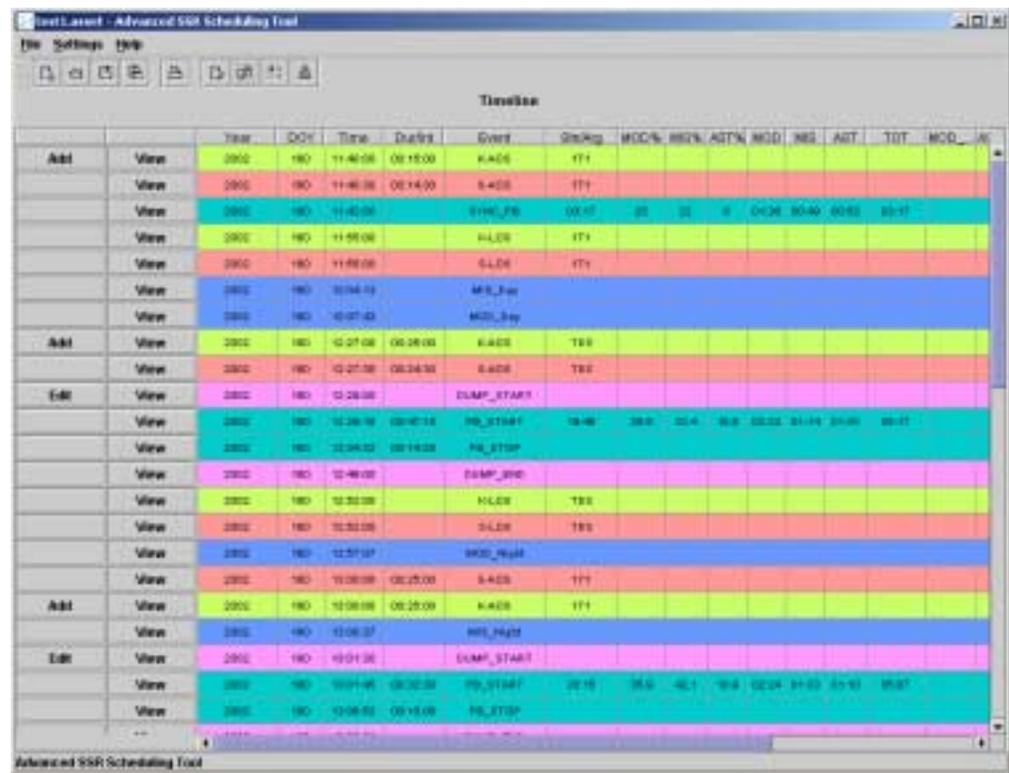
To generate a playback schedule:

Pull down the **File** menu and choose **Generate SSR Playbacks** OR

Click on the **Generate SSR Playbacks** icon on the toolbar. 

Figure 3.5.1 shows a completed schedule.

Figure 3.5.1: The ASSET timeline after generating a playback schedule



		Year	DOY	Time	DateT	Event	Group	MCC%	RS%	ASTN	MOD	REG	AST	TOT	MCD	JK
Add	View	2002	180	11:40:00	00:15:00	KAD0	IT1									
	View	2002	180	11:40:00	00:14:00	SAD0	IT1									
	View	2002	180	11:40:00		SINL_PB	00:15	20	20	0	0000	00:40	00:00	00:17		
	View	2002	180	11:50:00		HLD0	IT1									
	View	2002	180	11:50:00		SAD0	IT1									
	View	2002	180	00:04:10		MIS_P00										
	View	2002	180	00:07:00		MIS_P00										
Add	View	2002	180	02:27:00	00:20:00	KAD0	T00									
	View	2002	180	02:27:00	00:20:00	SAD0	T00									
Edit	View	2002	180	02:28:00		DUMP_START										
	View	2002	180	02:28:10	00:07:10	RS_START	00:00	00:0	00:0	00:0	00:00	01:14	00:00	00:17		
	View	2002	180	02:30:00	00:14:00	RS_STOP										
	View	2002	180	02:40:00		DUMP_END										
	View	2002	180	02:52:00		HLD0	T00									
	View	2002	180	02:52:00		SAD0	T00									
	View	2002	180	02:57:00		RSI_P00										
	View	2002	180	03:00:00	00:25:00	SAD0	IT1									
Add	View	2002	180	03:00:00	00:25:00	KAD0	IT1									
	View	2002	180	03:00:00		RSI_P00										
Edit	View	2002	180	03:01:00		DUMP_START										
	View	2002	180	03:01:40	00:30:00	RS_START	00:10	00:0	00:1	00:0	00:00	01:00	00:10	00:07		
	View	2002	180	03:00:00	00:15:00	RS_STOP										



ASSET automatically creates synchronization points and dump windows during contact list creation. The user may change the selected synchronization point, add, edit or delete dump windows before generating the schedule.



Use the **Add** and **Edit** buttons to work with dump windows prior to generating the schedule. See Section 5.2: [Dump Windows](#)



To select a different synchronization point:

Pull down the **File** menu and choose **Synchronization Points...** OR

Click on the **Synchronization Points** icon on the toolbar.  

See Section 5.4: [Synchronization Points](#) for more information on synchronization points and their usage.

3.6 Saving Schedules

Overview

The currently active (visible) playback schedule can be saved in either binary or text format. Schedules saved as binary can be reloaded into ASSET and used as a starting point for creating new schedules while text files cannot be reloaded into ASSET. The save as text option is provided for archival purposes so that human readable versions of complete schedules can be maintained for later review. For text saves, the timeline data saved is not filtered in any way. All event types and fields are saved.



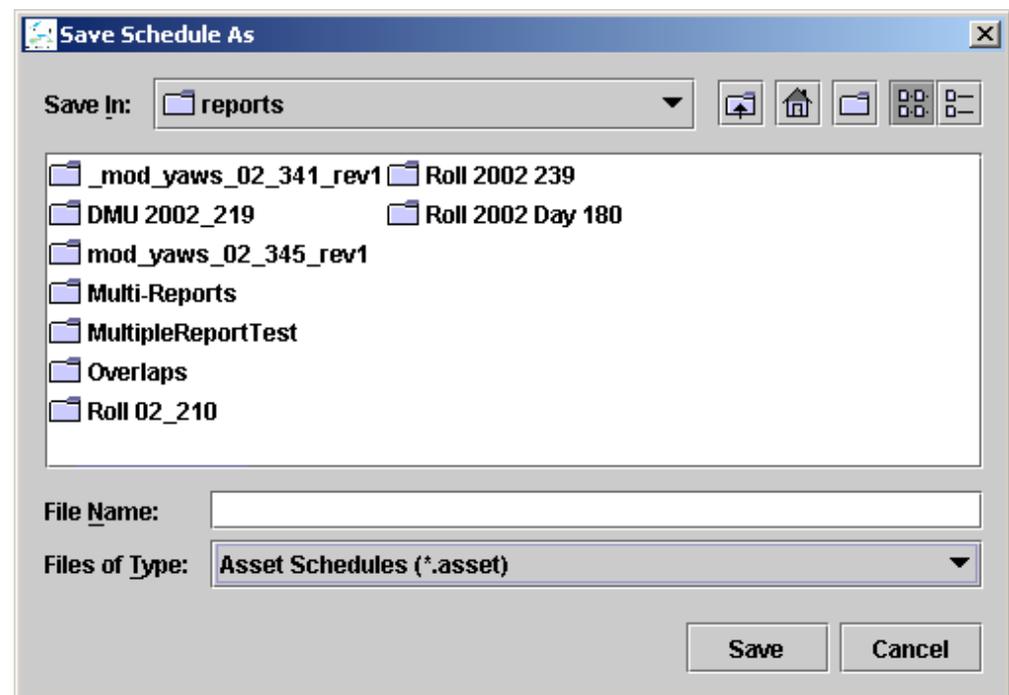
To save a schedule:

Pull down the **File** menu and choose **Save OR**

Click on the **Save Schedule** icon on the toolbar. 

Figure 3.6.1 shows the dialog presented to the operator for saving schedules.

Figure 3.6.1: The Save As dialog



To save a schedule in binary format:

Select "Asset Schedules (*.asset)" is selected in the **Files of Type:** field

To save a schedule in text format:

Select "Text Schedules (*.txt)" is selected in the **Files of Type:** field



If the user selects the name of an existing file, ASSET prompts the user to confirm that it is okay to overwrite the existing file. Selecting **Yes** causes the tool to overwrite the existing file. Selecting **No** allows the operator to specify another file name.

For Binary saves, files are saved with a “.asset” extension. Text saves result in a file with a “.txt” extension.



The user can also use the **Save As**  button to save a schedule with a different name. This is particularly useful when an existing schedule is reloaded and used as a baseline for a new schedule.

3.7 Opening Saved Schedules

Overview

Starting with version 3.0, ASSET now includes the functionality to open saved schedules. This means previously generated schedules can be saved, reloaded into ASSET and used as baselines for new schedules. However, only schedules saved in binary format can be reloaded into ASSET.



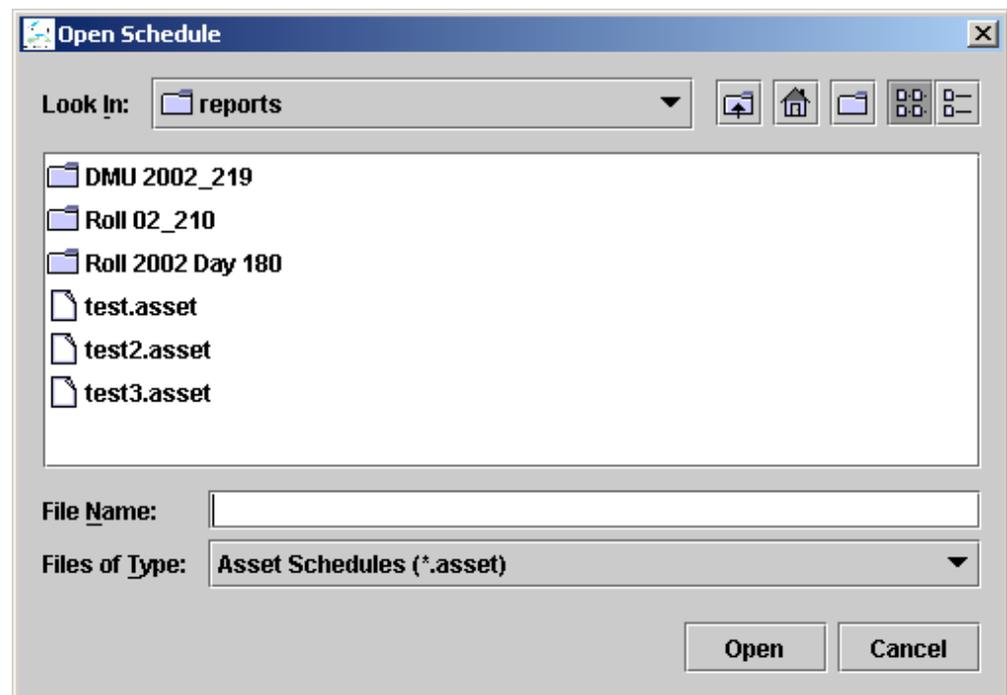
To open a saved schedule:

Pull down the **File** menu and choose **Open OR**

Click on the **Open Schedule** icon on the toolbar. 

Figure 3.7.1 shows the dialog presented to the operator for opening schedules.

Figure 3.7.1: The Open Schedule dialog



Once a saved schedule has been opened, it can be used as the starting point for a new schedule.

3.8 Printing Schedules

Overview

The currently active (visible) schedule can be sent to a printer for printing. The user may choose to customize the fields and/or events that are included in printouts by using the print filters. See Section 4.3: [Print Filters](#) for information on how to use print filters to control the amount and type of data printed.



To print a schedule:

Pull down the **File** menu and choose **Print OR**

Click on the **Print** icon on the toolbar. 



ASSET displays a dialog that allows the user to enter additional text to be included with the printed schedule.

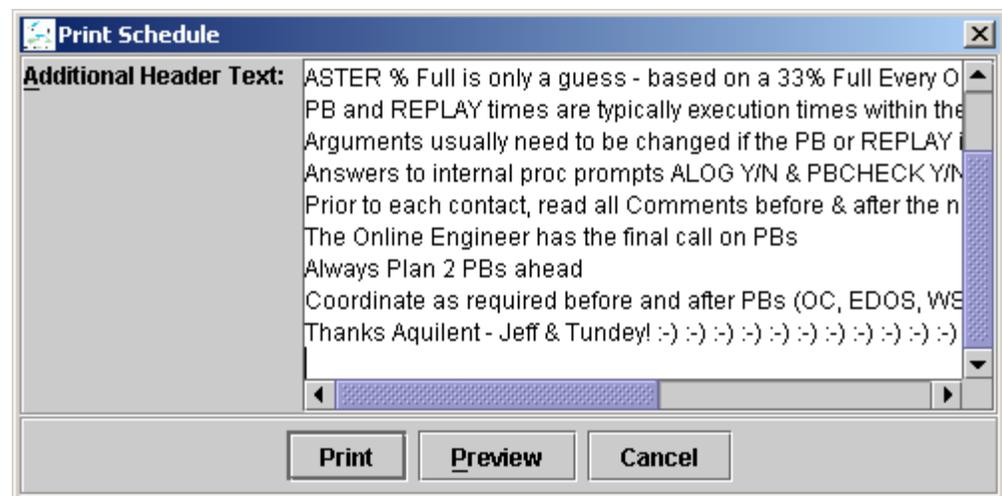
Click **Print** to immediately print the schedule without previewing it.

Click **Preview** to view a print preview of the schedule before printing. The print preview display is shown in Figure 3.8.1.

Click **Cancel** to cancel printing.

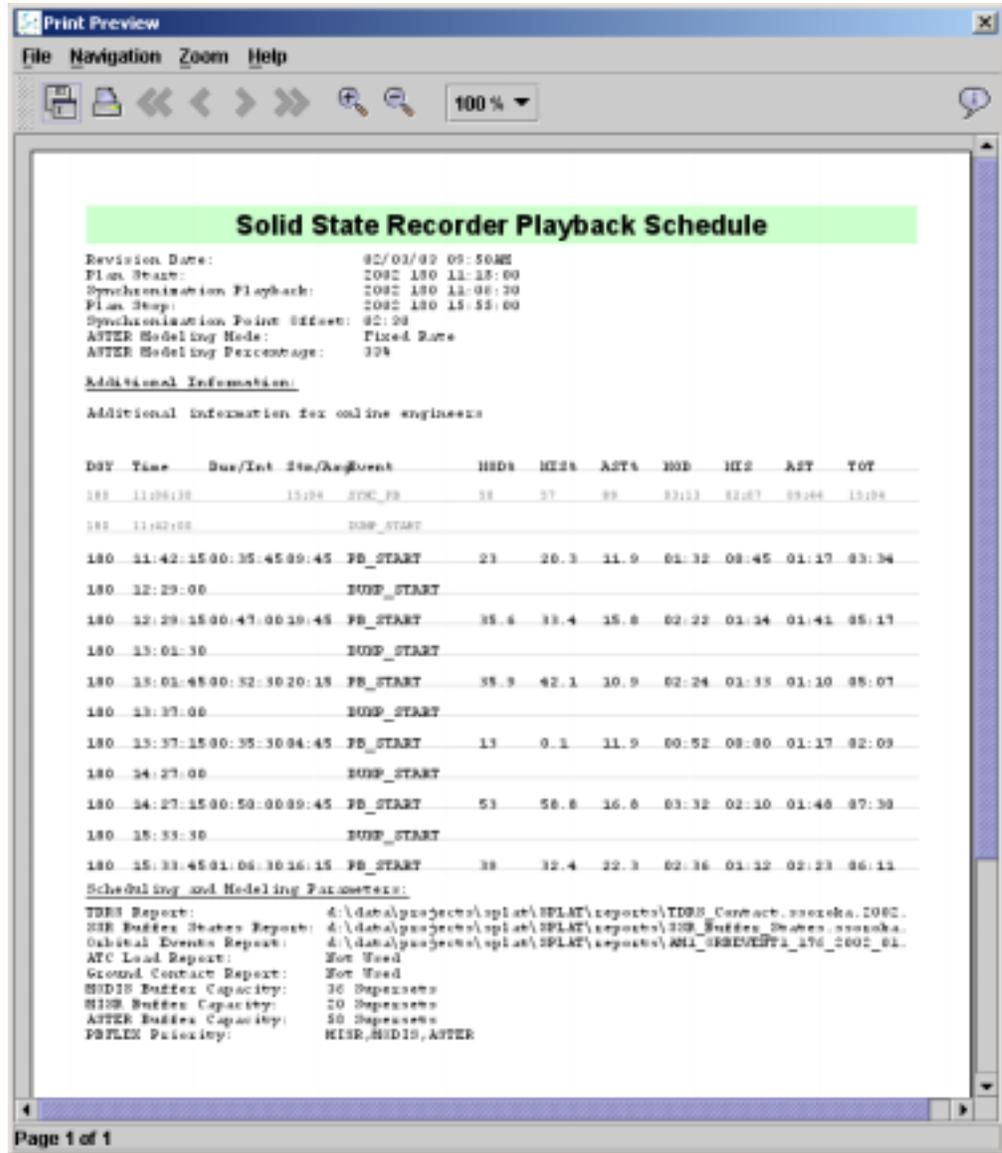
Figure 3.8.1 shows the additional header text dialog.

Figure 3.8.1: The dialog for entering additional text



Note: ASSET loads default text for the “Additional Header Text” field. By default the files is called “header.txt” and is located in the application directory. However, the user can change the default location by using the preferences dialog. See Section 5.1: [Preferences](#) for more information

Figure 3.8.2: The print preview window



Note: Depending on how the print filters have been set, the user may find that all the columns are not displayed. Either reduce the number of columns printed or use the **Page Setup** (under the **File** menu) to select a wider paper type (e.g. Legal). Be sure to verify that your printer can support the paper type you selected.

Note: Print filters can be used to control the amount of data shown on the printed schedule (and print preview). See Section 4.3: [Print Filters](#)

4 Filtering Data

4.1 Filters

Overview

ASSET allows the user to filter the amount and types of data shown in both the timeline and printed schedules. Simply put, filters are a way to limit the amount of data shown on the timeline and/or in printed schedules. ASSET allows filtering by event type (i.e. row filtering) and fields (i.e. column filtering). Display filters affect the information shown on the timeline while print filters affect information included in printed schedules.

There are two types of filters: event filters and field filters. Event filters allow the user to select which event types to display on the timeline or to include in the printed schedule. Field filters on the other hand affect the fields shown for each event. In essence event filters filter row-wise while field filters filter column-wise.

Note:

While field filters are fixed in number and never change, event filters vary based on the types of report files used to generate the schedule. As such the user will not be able to configure event filters until reports have been parsed. In addition changes to event filters are not persistent across multiple invocations of ASSET. However, changes to field filters are persistent.

4.2 Display Filters

Overview

Display filters allow the user to customize the amounts and types of data shown on the timeline. The display filter contains both event and field filters. You can edit either type of filter from the display filter window.



To edit the display filters:

Pull down the **Settings** menu, choose **Filters** and then choose **Display Filters** OR

Use the *CTRL+SHIFT+D* keyboard shortcut.

The display filters windows are shown in Figures 4.1.1 and 4.1.2.

Figure 4.1.1: The display filters window showing fields filter

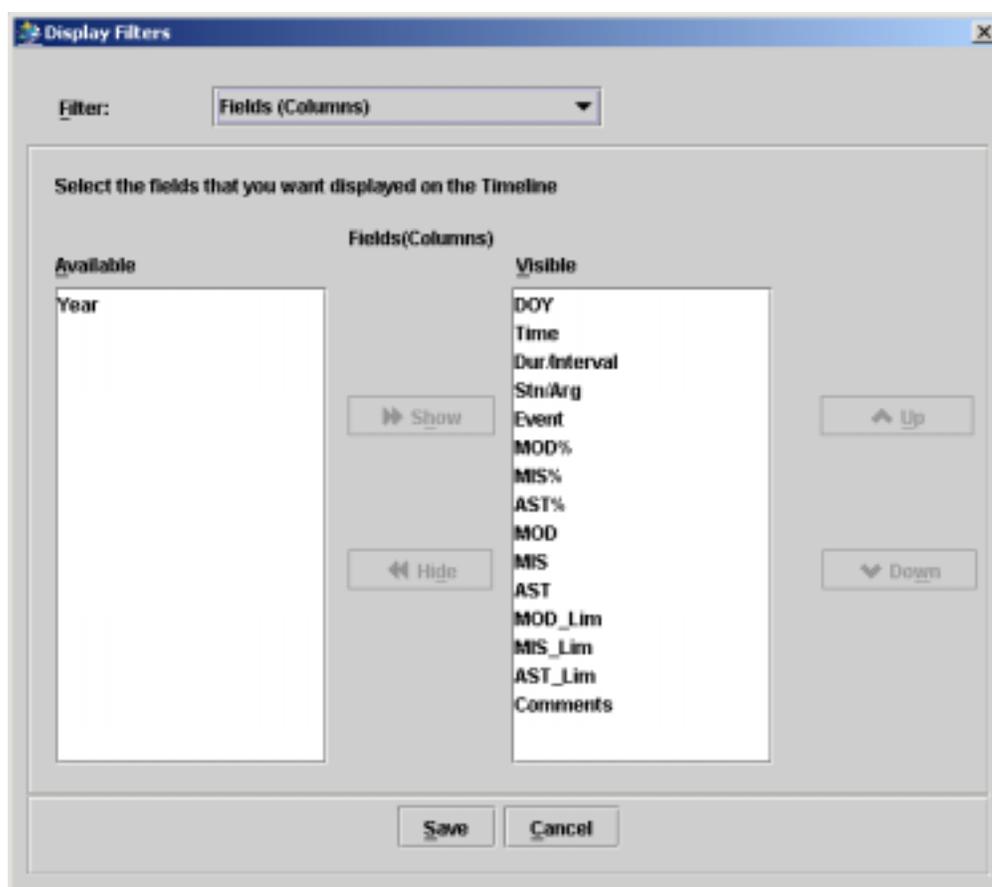
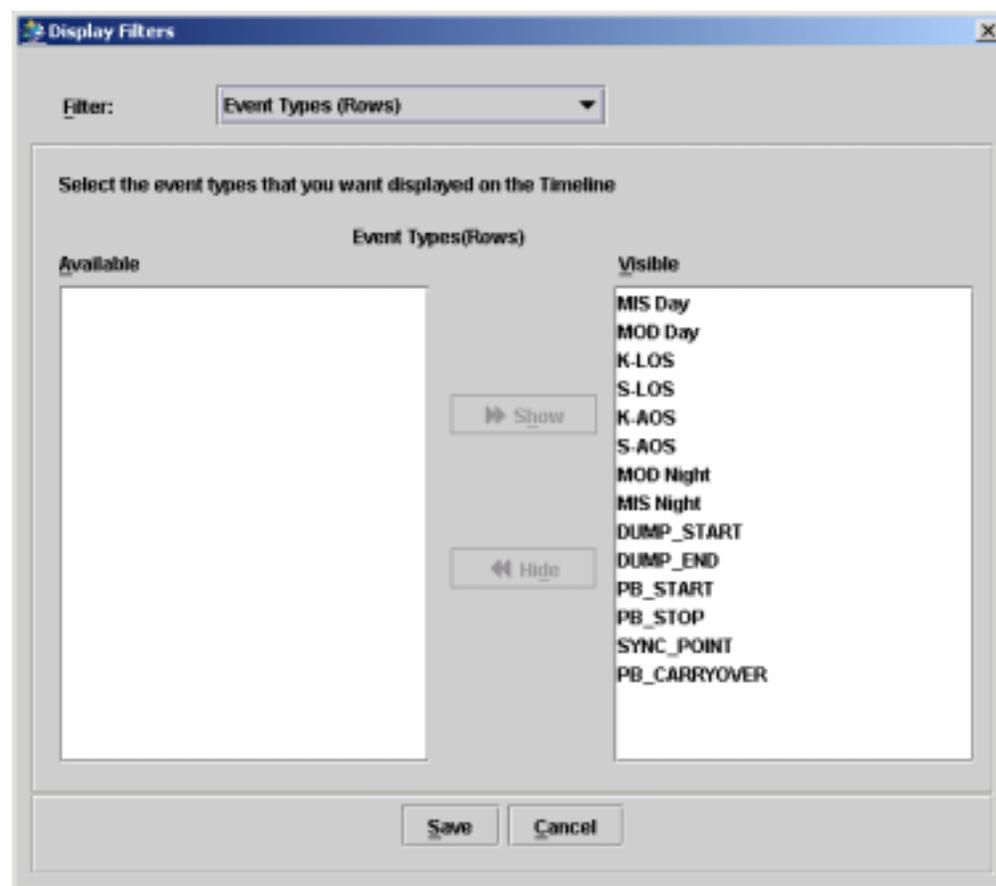


Figure 4.1.2: The display filters window showing event filter



To make a field or event type visible:

1. Select the field or event type from the left list (Available).
2. Click the **Show** button to move it to the right list (Visible).



To make a field or event type invisible:

1. Select the field or event type from the right list (Visible).
2. Click the **Hide** button to move it to the left list (Available).

Note:

The ordering of fields on the timeline is user customizable. The order in which the fields are displayed in the filter box determines the order of the fields on the timeline.



To change the order of fields on the timeline:

1. Select the field or a group of contiguous fields from the right list (Visible).

2. Click the **Up** button to move the selection up in the list and causes the fields to be moved to the left on the timeline. Selecting the **Down** button to moves the selection down in the list and right on the timeline.

Note: The user may also select multiple contiguous fields before clicking the **Show**, **Hide**, **Up** or **Down** buttons.



The user may also access the display filter by clicking the right mouse on the timeline column headers. This displays a list of checkboxes, each representing a column in the timeline.

1. Uncheck a column's checkbox to make the column invisible.
2. Check a column's checkbox to make the column visible.



In addition, the user can re-arrange the column settings by dragging columns from one position to the other.

Figure 4.1.3: The timeline showing the right-click menu



4.3 Print Filters

Overview

Print filters allow the user to customize the amounts and types of data shown in the printed schedule. The print filter contains both event and field filters. The user edits both filters within the same window.



To edit the print filters:

Pull down the **Settings** menu, choose **Filters** and then choose **Print Filters** OR

Use the *CTRL+SHIFT+P* keyboard shortcut.

The display filter windows are shown in Figures 4.3.1 and 4.3.1.

Figure 4.3.1: The print filters window showing fields filter

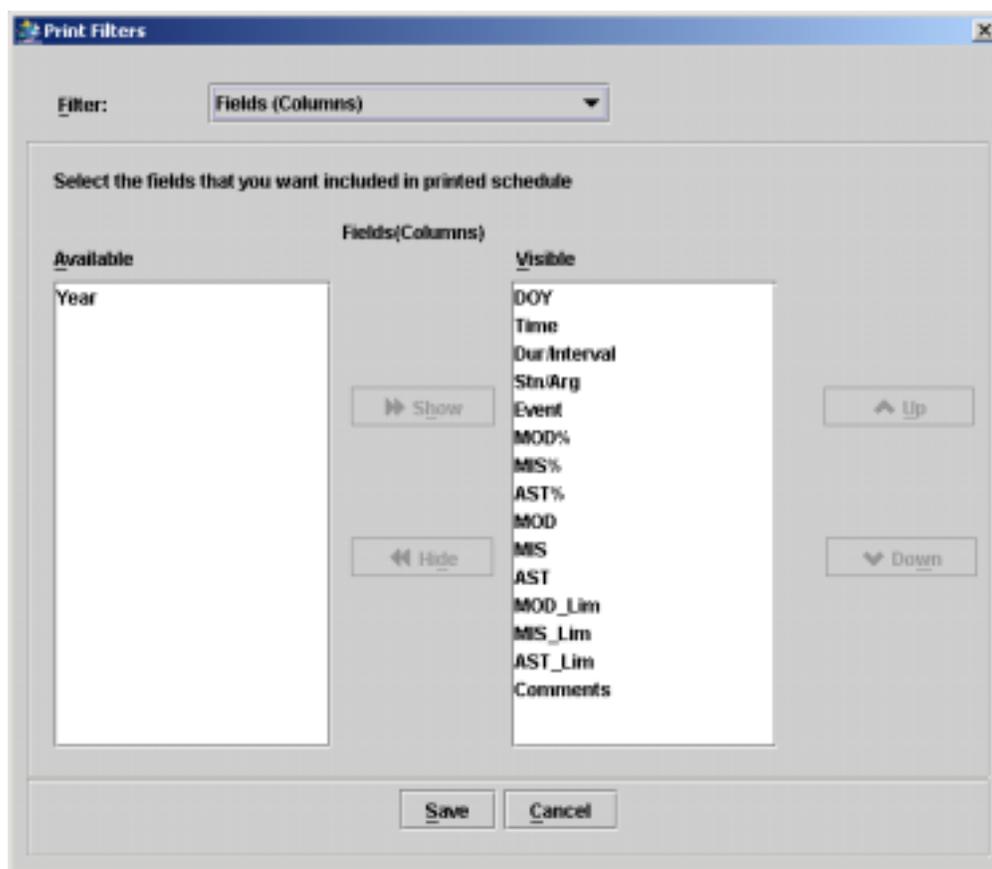
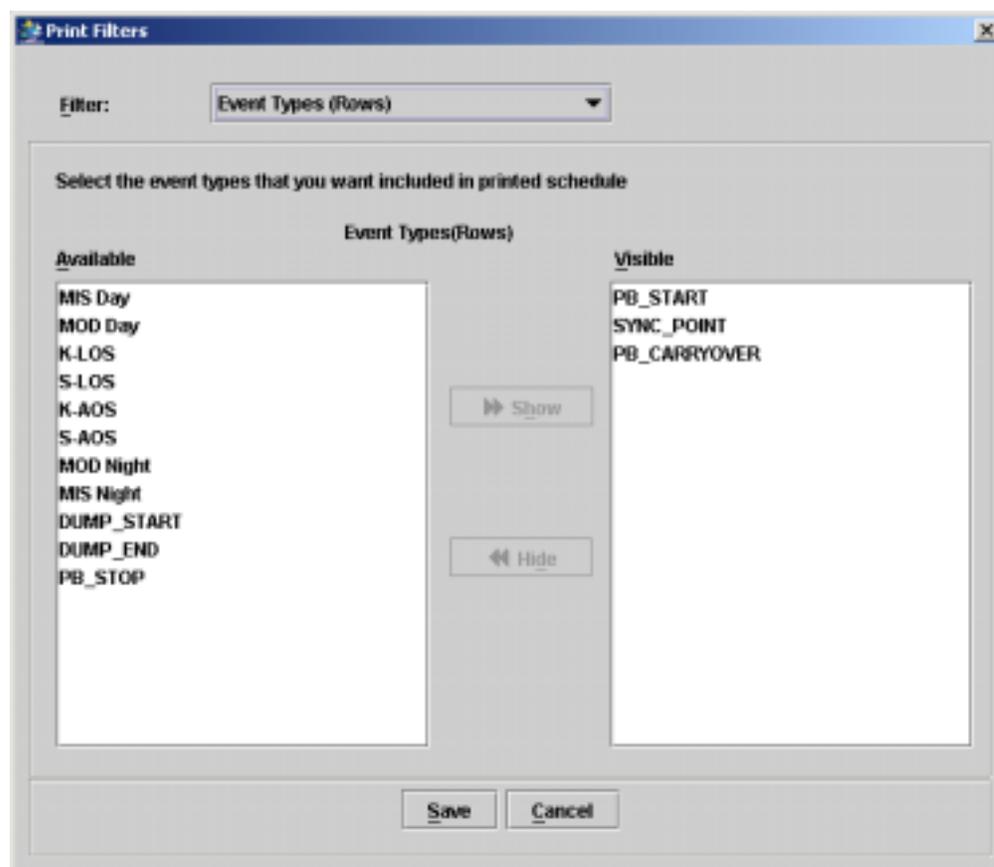


Figure 4.3.2: The print filters window showing event filter



To make a field or event type visible:

1. Select the field or event type from the left list (Available).
2. Click the **Show** button to move it to the right list (Visible),



To make a field or event type invisible:

1. Select the field or event type from the right list (Visible).
2. Click the **Hide** button to move it to the left list (Available).

Note:

The ordering of fields on the timeline is user customizable. The order in which the fields are displayed in the filter box determines the order of the fields on the timeline.



To change the order of fields on the timeline:

3. Select the field or a group of contiguous fields from the right list (Visible).

4. Click the **Up** button to move the selection up in the list and causes the fields to be moved to the left on the timeline. Selecting the **Down** button to moves the selection down in the list and right on the timeline.
-

Note: The user may also select multiple contiguous fields before clicking the **Show**, **Hide**, **Up** or **Down** buttons.

5 Miscellaneous Information

5.1 Preferences

Overview

The ASSET preferences provide the user with a mechanism for customizing parts of the ASSET user interface through the preferences window. Through the ASSET preferences, the user can customize the size of fonts used on the timeline, the colors used to represent each of the event types and more.



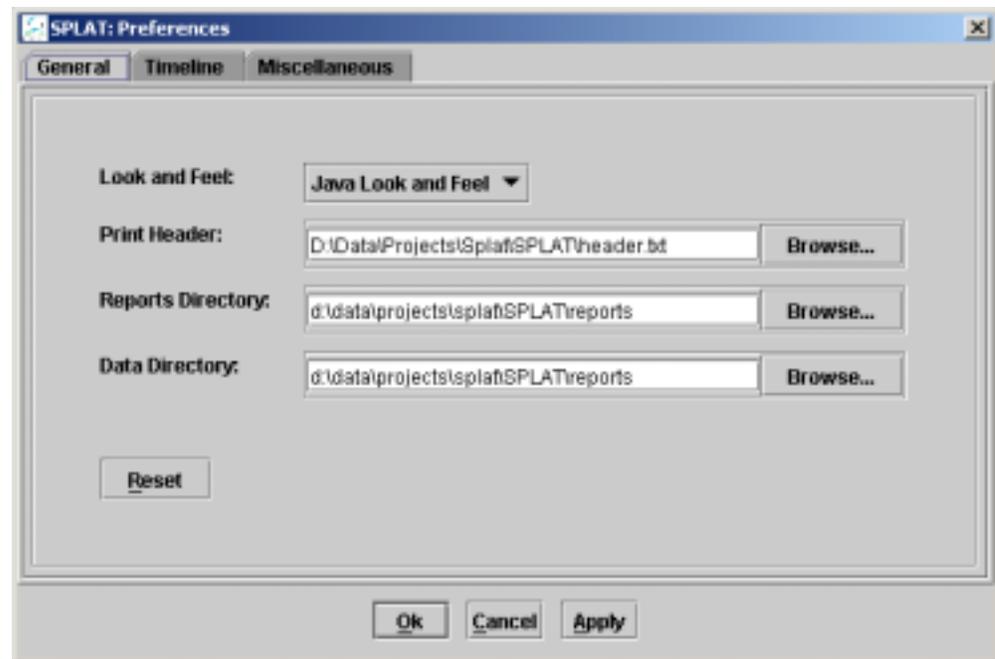
To open the preferences window:

Pull down the **Settings** menu and choose **Preferences...** OR

Use the *ALT+P* keyboard shortcut.

Figure 5.1.1 shows the ASSET preference dialog.

Figure 5.1.1: The Preferences Window



Note:

The preferences window has three tabs. The first, titled “General”, contains settings that affect the general appearance of ASSET. The second, “Timeline”, provides access to settings that affect the display of data on the timeline. The third tab contains miscellaneous settings.



The General Tab contains the following options:

Look and Feel	Use this drop down menu to choose a look and feel for ASSET. The Java Look and Feel (the default) gives ASSET the look and feel of a typical Java application. The Microsoft Windows Look and Feel makes ASSET appear like any other Windows applications. The CDE/Motif Look and Feel makes ASSET appear like a Common Desktop Environment (CDE) or UNIX application.
Print Header	File containing the default header used in printed reports.
Reports Directory	The default directory ASSET for report files.
Data Directory	The default directory for schedule saves.



The Timeline tab contains the following options:

Auto Save Column Widths	Check this box if you want ASSET to automatically save the widths of the columns on the timeline. See Section 5.9: Timeline Column Widths for more information about how this value is used.
Font Size	The font size used on the timeline display. Note that this setting only affects the data section of the timeline. The command buttons, for adding dump windows and comments, will remain the same size
Color of X-band Contacts	Color for displaying x-band contacts on the timeline.
Color of S-band Contacts	Color for displaying s-band contacts on the timeline.
Color of K-Band Contacts	Color for displaying k-band contacts on the timeline.
Color of Dump Windows	Color for displaying dump windows on the timeline.
Color of Playback Windows	Color for displaying playback windows on the timeline.
Color of Rate Change Events	Color for displaying rate change events on the timeline.



The Miscellaneous tab contains the following options:

Show Advanced Edits	Check this option to instruct ASSET to automatically display the modeling parameters window in <i>Advanced Mode</i> . See Section 5.5: Modeling Parameters
Number of Recent Schedules	This value controls the number of schedules ASSET remembers on the “ Recent Schedules ” menu.

Note: The user can reset the settings to the default values by clicking on the **Reset** button.

5.2 Dump Windows

Overview

Dump windows are intervals within a contact during which the data in the SSR buffers may be played back. ASSET automatically creates and adds dump windows to X and K band contact periods during contact list creation. ASSET also allows the user to add additional dump windows, edit, or delete existing dump windows using the dump window editor.



To add a new dump window:

Click the **Add** button next to the corresponding K or X band contact. Figure 5.2.1 shows an empty dump window editor.

To view or edit an existing dump window:

Click the **Edit** button next to the dump window. Figure 5.2.2 shows the dump window editor with dump window settings loaded.

Figure 5.2.1: The dump window editor opened for adding a new dump window

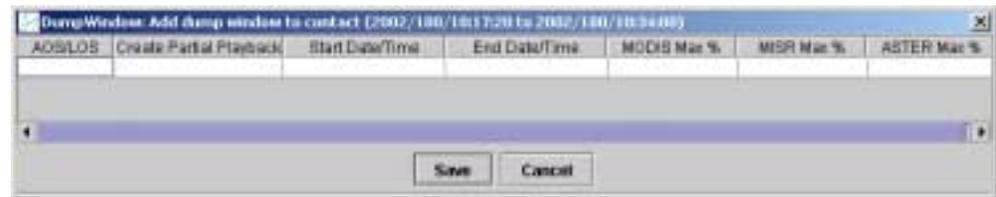


Figure 5.2.2: The dump window editor opened for editing an existing dump window



From the dump window editor:

1. Click the **Save** button to save.
2. Click the **Delete** button (if available) to delete the dump window.
3. Click the **Cancel** button to cancel changes.

Note: **Partial Playbacks**

Under certain special circumstances, ASSET can automatically insert an additional playback into a FLEX dump window. The additional playback replays a percentage of the first buffer in the FLEX priority scheme and is inserted before the FLEX playback to prevent the lockup/replay portion of the first data buffer from being overwritten during a playback. ASSET automatically identifies the conditions of a partial playback and inserts an additional playback when the buffer usage of the first buffer in the FLEX priority scheme plus the amount of data recorded in that buffer during the FLEX playback exceeds a specific threshold.

The user may disable/enable automated creation of partial playbacks for an entire schedule by selecting or unselecting the "Create Partial Playbacks" option in the Scheduling Options dialog. Additionally, ASSET allows the operator to select partial playback scheduling for individual dump windows by using the **Create Partial Playback** field shown in the Figure 5.2.1 and 5.2.2 above.

As of release 3.0 of ASSET, the threshold values for each of the ASSET buffers that trigger partial playbacks and the amount of data dumped in a partial playback are not user configurable.

Note: Changing the values of a dump window invalidates associated playbacks in the dump window and causes them to be removed.

Also adding, editing or deleting a dump window will cause the playback schedule to be re-generated

5.3 Dump Windows Offsets

Overview

During contact creation ASSET determines an initial set of dump windows for the available contact periods. These dump windows are offset in the schedule from their corresponding contact's start and stop times by a series of user configurable offsets. This dialog provides the user access to the value of those offsets. There are 5 offsets for a given contact with each having a different configurable value. Three of these offsets are specific to K and S band contacts and the other two are specific to X band contacts.



To edit dump windows offsets:

- Pull down the **Settings** menu and choose **Dump Windows Offsets...** OR
- Use the *ALT+D* keyboard shortcut.

Figure 5.3.1: The dump windows offset dialog



The Dump Windows Offsets dialog contains the following fields:

For K and S-Band contacts, there are three relevant values used depending on the time difference between the start of an S-Band contact and its corresponding K-Band contact. If the distance is less than a specified threshold, the first AOS Dump Start offset is used. Otherwise the second AOS Dump Start offset value is used.

Threshold For AOS Events	The threshold value used to determine which offset to use for AOS dump start (for K and S-Band contacts). The default value is 60 seconds
AOS Dump Start Offset (Delta < Threshold)	This is the offset between a dump window's start time and the start time for its contact

AOS Dump Start Offset (Delta >= Threshold)	This is the offset between a dump window's start time and the start time for its contact
LOS Dump Stop Offset	This is the offset between a dump window' stop time and the stop time for its contact
AOS Dump Start Offset	This is the offset between a dump window's start time and the start time for its contact
LOS Dump Stop Offset	This is the offset between a dump window' stop time and the stop time for its contact



To edit the dump windows offset:

1. Update one or more of the offset values.
 2. Click the **Save** button to save changes or **Cancel** to discard changes. The **Reset** button restores the offset settings back to defaults.
-

Note: Dump windows offsets only affect how ASSET automatically creates dump windows. Manually created dump windows do not use these offsets.

5.4 Synchronization Points

Overview

A synchronization point is the latest contact before the start of the planning horizon long enough to completely empty the SSR buffers. A synchronization point is needed before a playback schedule can be generated.

While creating contacts, ASSET generates a list of "candidate" synchronization points and selects one of the candidates as the default synchronization point for scheduling. ASSET allows the user to select a different synchronization point using the Synchronization Point window.

If an SSR buffer states report is not specified in the scheduling options, no candidate synchronization point is created. In addition, dump windows are not automatically created.



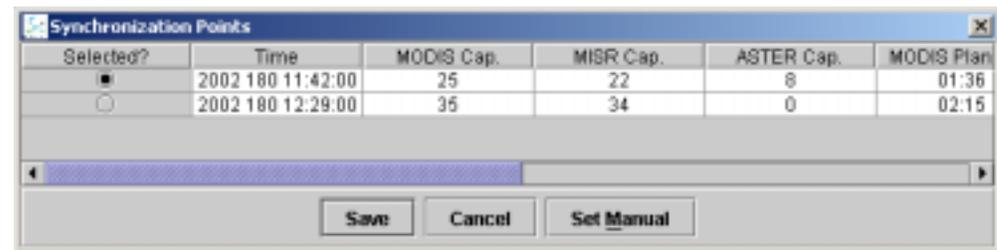
To open the synchronization points window:

Pull down the **File** menu and choose **Synchronization Points...** OR

Click on the **Synchronization Points** icon on the toolbar. 

Figure 5.4.1 shows the synchronization point selection window.

Figure 5.4.1: The Synchronization Points Window



To select a different synchronization point:

1. Click the radio button to the left of the desired synchronization point.
2. Click the **Save** button to save the new selection.



To select a manual synchronization point:

1. Click the **Set Manual** button
2. ASSET will display a dialog where the user can enter the start date/time of the manual synchronization point. The date/time entered must be within a contact period.

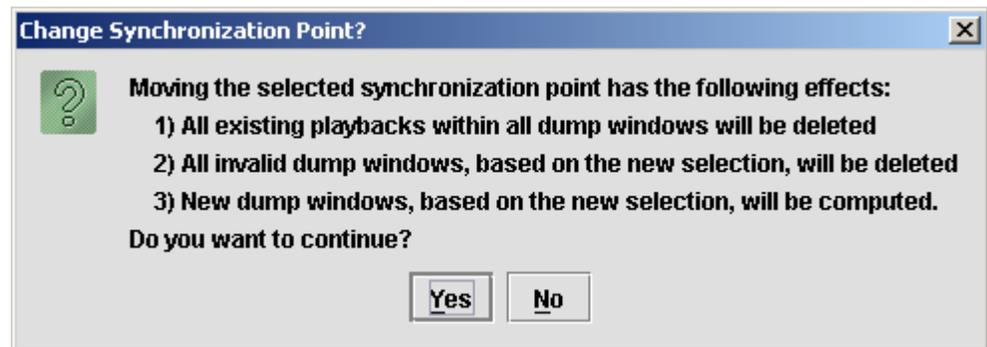
3. After the user enters a valid start date/time, ASSET creates a manual synchronization point and adds it to the list of synchronization points. The newly added manual synchronization point is automatically selected and replaces any existing manual synchronization point.

Note:

Selecting a new synchronization point causes ASSET to move the synchronization point in the timeline, re-compute dump windows and re-generate the playback schedule. Dump windows that are invalid (i.e. are before the newly selected synchronization point) are deleted. In addition, selection of a new synchronization point invalidates and deletes all existing playbacks.

Prior to moving the synchronization point, ASSET prompts the user to confirm the new synchronization point. The prompt is shown in Figure 5.4.2.

Figure 5.4.2:
ASSET prompt



5.5 Modeling Parameters

Overview

The modeling parameters are configurable parameters and represent values such as buffer capacities and rates used to compute playback durations and buffer usage values during schedule generation. The values include capacities of the MODIS, MISR and ASTER buffers, conversion rates between bits and Supersets, imaging rates, buffer playback rates, playback priorities etc.



To open the modeling parameters window:

- Pull down the **Settings** menu and choose **Modeling Parameters...** OR
- Use the **ALT+M** keyboard shortcut.

The modeling parameters window is shown in Figures 5.5.1 and 5.5.2.

Figure 5.5.1: The Modeling Parameters Window, without advanced edits

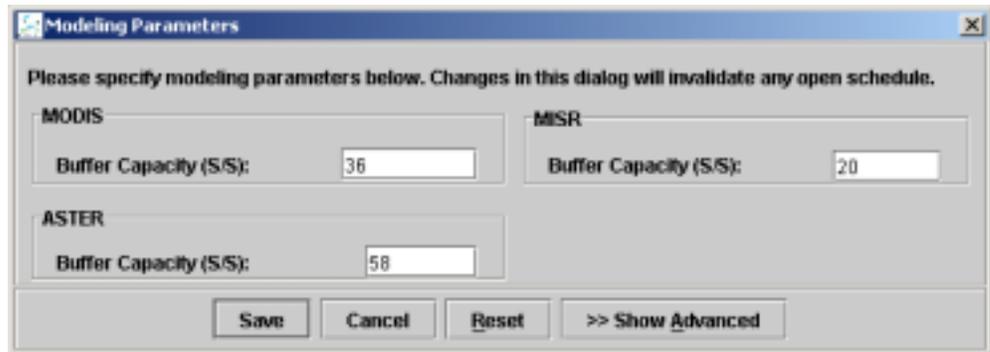
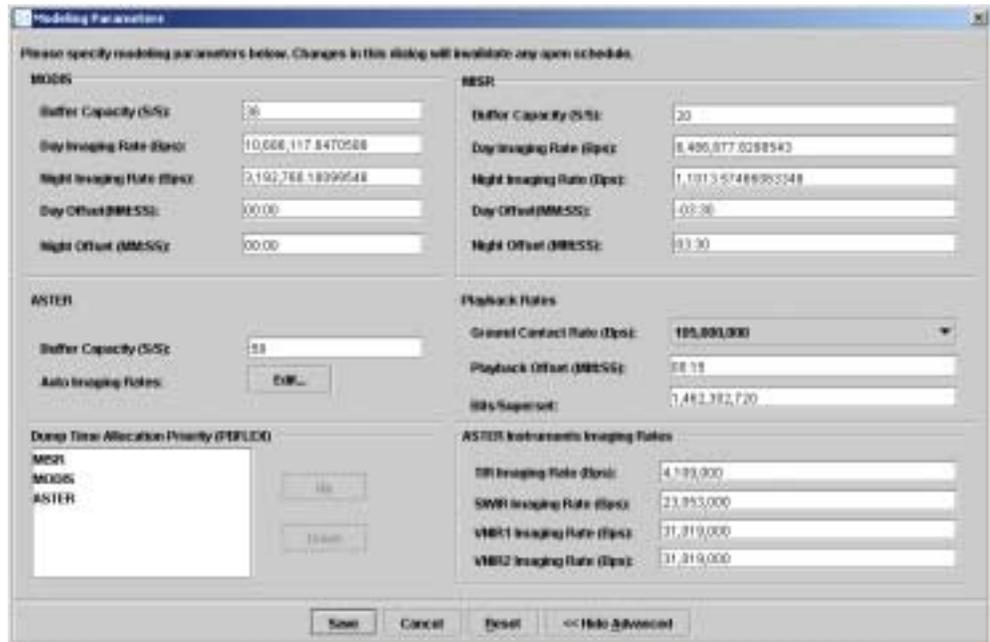


Figure 5.5.2: The Modeling Parameters Window, with advanced edits



Note: The user may switch between advanced and regular mode by clicking the *Show/Hide Advanced* button.

Also note that the user can customize ASSET so that the tool always shows the modeling parameters window in advanced mode through the Preferences window. See Section 5.1: [Preferences](#)



For MODIS and MISR, the dialog allows the user to set the following:

- *Buffer Capacity in supersets.*
- *Day Imaging Rate in bits per second.*
- *Night Imaging Rate in bits per second.*
- *Day Offset in MM:SS format.*
- *Night Offset in MM:SS format.*

For ASTER, the user can set:

- *Buffer Capacity in supersets.*
- *Auto Imaging Rates:* Use this button to open the ASTER Rates editor. See Section 5.6: [ASTER RTCS Identifiers](#).

This dialog also lets the user edit the following playback rates:

- *Ground Contact Rate (Bps).*
- *Playback Offset (MM:SS).*
- *Bits/Superset.*

Dump Time Allocation Priority: This allows the user to modify the PBFLEX dump time allocation priority. Use the Up and Down buttons to move buffers up and down in priority.

ASTER Instruments Imaging Rates:

- *TIR Imaging Rate in bits per second.*
- *SWIR Imaging Rate in bits per second.*
- *VNIR1 Imaging Rate in bits per second.*
- *VNIR2 Imaging Rate in bits per second.*

5.6 ASTER RTCS Identifiers

Overview

ASTER RTCS identifiers are used to model the behavior of the RTCS macros in Mission Management Software (MMS). The ASTER instrument is really a series of four instruments operating in different configurations to provide a series of modes of operation. ASTER RTCS macros define individual modes of operation for the ASTER instrument. ASTER is composed of the following instruments: Short-wave Infrared (SWIR), Thermal Infrared (TIR) and two Very Near Infrared instruments (VNIR1 and VNIR2). Each ASTER RTCS is a macro and contains a description of the instruments used, and when they turn on/off relative to the command time. ASSET's default settings include RTCS macro definitions for the most commonly used ASTER RTCS macros. Macros can be added, edited or deleted via the ASTER Rates window.



To open the ASTER Rates window:

- Pull down the **Settings** menu and choose **ASTER Rates...** OR
- Use the **ALT+A** keyboard shortcut.

The ASTER Rates window is shown in Figure 5.6.1.

Figure 5.6.1: The ASTER Rates window showing default RTCS macros



Note:

In order to combine adding and editing RTCS macros functionality, the ASTER Rates window operates in two modes:

- Add mode for adding new RTCS macros.
- Edit mode for editing/deleting existing RTCS macros.

Depending on the mode the window is in some buttons may be unavailable.



To add a new RTCS macro:

1. Fill in all the required information about the new macro. All fields are required (some fields have default values already filled in).

2. Click the **Save** button to save the new macro.
3. ASSET will display an error if a required field isn't entered. See Figure 5.6.2.



To edit/delete an existing RTCS macro:

1. Double click the RTCS macro (in the display table).
2. ASSET will display the macro's information in the edit fields.
3. Make your changes to the macro.
4. Click the **Save** button to save or the **Delete** button to delete the macro.
5. ASSET displays an error if a required field isn't entered.

Figure 5.6.2:
ASSET prompt



5.7 Red and Yellow Limits

Overview

During buffer playback planning, it is necessary to track buffer usage and notify the operator when buffer usages meet or exceed thresholds. The Red and Yellow limit settings in the ASSET tool provide this functionality. They allow ASSET to color code buffer usage columns in playbacks when user specified buffer thresholds are met or exceeded. By color-coding the playback entries this way, the operator can visually determine which playbacks exceed the specified thresholds and adjust other dump windows to prevent buffer overrun.

In addition to limit settings for buffer, ASSET provides a way to enter red and yellow limits for playback delta and playback safety margins. Playback delta is the interval between two consecutive playback start events. Playback safety margin is the interval between a playback stop event and its enclosing contact stop event.



To open the Red and Yellow Limits window:

- Pull down the **Settings** menu and choose **Red & Yellow Limits...** OR
- Use the **ALT+L** keyboard shortcut.

Figure 5.7.1 shows the Red & Yellow limits dialog.

Figure 5.7.1: The Red & Yellow Limits window

Section	Yellow Limit	Red Limit
MODIS Red Yellow Limits	80	85
MISR Red Yellow Limits	85	90
ASTER Red Yellow Limits	98	100
Playback Delta	01:00:00 Incomms	01:35:00 Incomms
Playback Safety Margin	00:01:00 Incomms	00:00:00 Incomms



To edit Red and Yellow limits:

1. Update one or more of the limit values.
2. Click the **Save** button to save changes or **Cancel** to discard changes.

5.8 Station Management

Overview

As of version 3.0, ASSET now provides the user with a way to specify which TDRS stations and Ground contacts are available for playback. This feature allows the user to add, edit and delete TDRS stations and ground contacts. In addition, a station or contact may be designated as not available for playback.

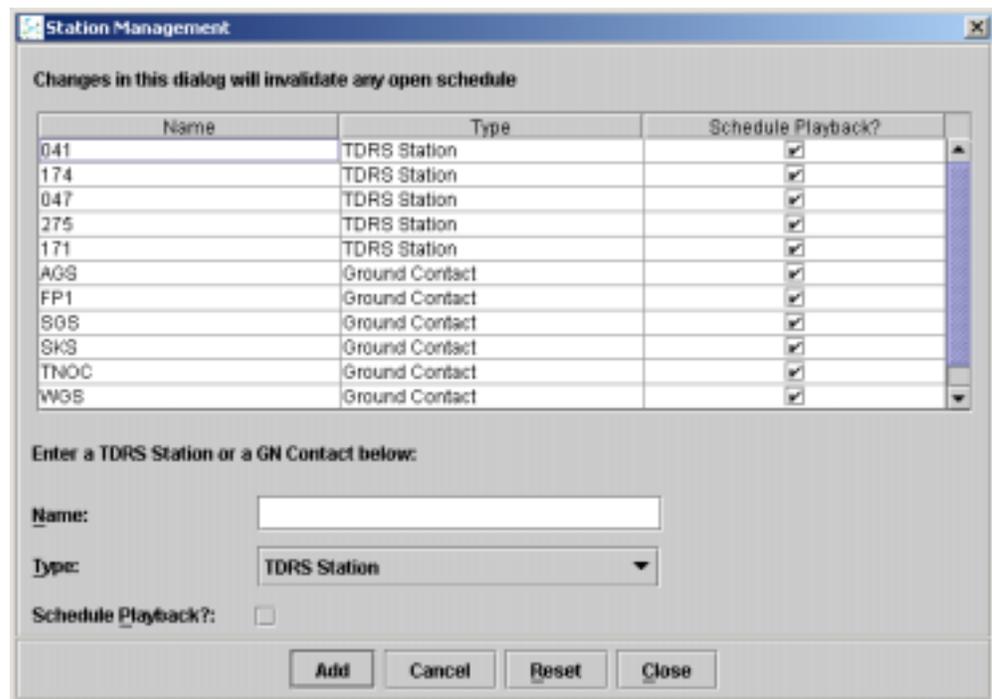


To open the Station Management window:

- Pull down the **Settings** menu and choose **Station Management...** OR
- Use the *ALT+G* keyboard shortcut.

Figure 5.8.1 shows the Station Management dialog.

Figure 5.8.1: The Station Management Window



To add a new station or contact:

1. Enter the name of the station/contact
2. Choose whether the new entry is a TDRS Station or a Ground Contact
3. Check whether entry is available for playback
4. Click the **Add** button to save changes or **Cancel** to discard changes.



To edit or delete an existing station or contact:

1. Double click the entry to edit
2. Make changes to the entry
3. Click the **Save** button to save changes or **Cancel** to discard changes. You may also click the **Delete** button to delete the entry.

5.9 Timeline Column Widths

Overview

ASSET allows the user to customize the widths of the columns on the timeline. The user does this by dragging the boundaries of the column header. By default, ASSET saves any change to the column widths. However, the user can choose to turn off automatic saving of timeline column widths by going through the Preferences dialog. See Section 5.1: [Preferences](#) for more information.



To change the width of a timeline column:

Use the mouse to drag the column header.

Figure 5.9.1 shows the width of the Time column being changed.

Figure 5.9.1:
Changing
column width

	View	ID	Time	Date	Priority	Field	MOT%	M2%	AIT%	BOC	BO	AT
	View	100	00:00:01			440_340						
	View	100	00:00:01			400_340						
	View	100	00:00:00		1000	A-120						
	View	100	00:00:00		1000	S-120						
	View	100	00:00:00	00:15:00	100	S-100						
	View	100	00:00:00	00:14:00	100	S-100						
	View	100	00:00:01			000_340						
	View	100	00:00:01			000_340						
	View	100	00:00:00		1000	A-120						
	View	100	00:00:00		1000	S-120						
	View	100	00:17:20	00:10:00	1000	S-100						
	View	100	00:17:00	00:10:00	1000	S-100						
	View	100	00:00:00			440_340						
	View	100	00:00:00			400_340						
	View	100	00:04:00		1000	S-120						
	View	100	00:04:00		1000	S-120						
	View	100	11:00:00	00:20:00	100	S-100						
Anti	View	100	11:00:00	00:20:00	100	S-100						
	View	100	11:00:00		1000	S-100_P3	90	90	90	90	90	90
	View	100	11:00:00			000_340						
	View	100	11:00:00		1000	A-120						
	View	100	11:00:00		1000	S-120						
Anti	View	100	11:00:00	00:10:00	100	S-100						
	View	100	11:00:00	00:10:00	100	S-100						
Exit	View	100	11:00:00			0000_START						



To manually save the column widths:

1. Pull down the **Settings** menu, choose **Columns** sub-menu and then choose **Save Timeline Column Widths**

5.10 Print Column Widths

Overview

ASSET allows the user to customize the widths of the columns on the printed schedule. This feature lets the user specify how wide each field on the printed report will be.



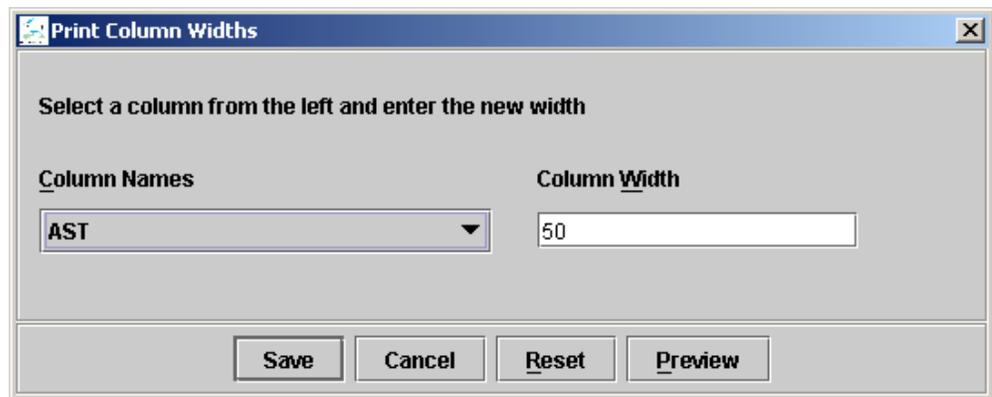
To open the Print Column Widths window:

Pull down the **Settings** menu, choose **Columns** and then choose **Set Print Column Widths...** OR

Use the *ALT+W* keyboard shortcut.

Figure 5.10.1 shows the Print Column Widths dialog.

Figure 5.10.1:
Print Column
Widths



Click the **Reset** button to reset column widths to their default values.



Click the **Preview** button to see a preview of the schedule using the new column widths. This button is available only if there is a schedule current open in ASSET.



Click the **Cancel** button at any time will roll back any changes made to the column widths (even if a preview has already been generated).

5.11 MMS Interface

Overview

With the release of version 4.0 of ASSET, report files can now be automatically retrieved from the Mission Management Software using the MMS interface. This process involves requesting report generation from the MMS system, waiting while the MMS system processes the request and finally, downloading the generated report files to the user's local computer.

ASSET utilizes 5 different types of report files to generate a schedule. Three of these report types (TDRS Contacts, SSR buffer states and WOTIS contacts) can be requested from MMS and are referred to as "MMS Products". The Orbital events report is not requested from MMS but can be retrieved from a separate directory on the file server and is referred to as an "FDS Product". The last report type, the ATC Load report, is not normally available when initially planning SSR dumps and thus must be manually retrieved by the user and placed on the local computer if needed.



In order to download files from the MMS system, the information needed to connect to the remote servers must be set. This can be done using the MMS Interface window.

To open the MMS Interface window:

Pull down the **Settings** menu, Click **MMS Interface...** OR

Use the *ALT+I* keyboard shortcut.

Figure 5.11.1 shows the MMS Interface dialog.

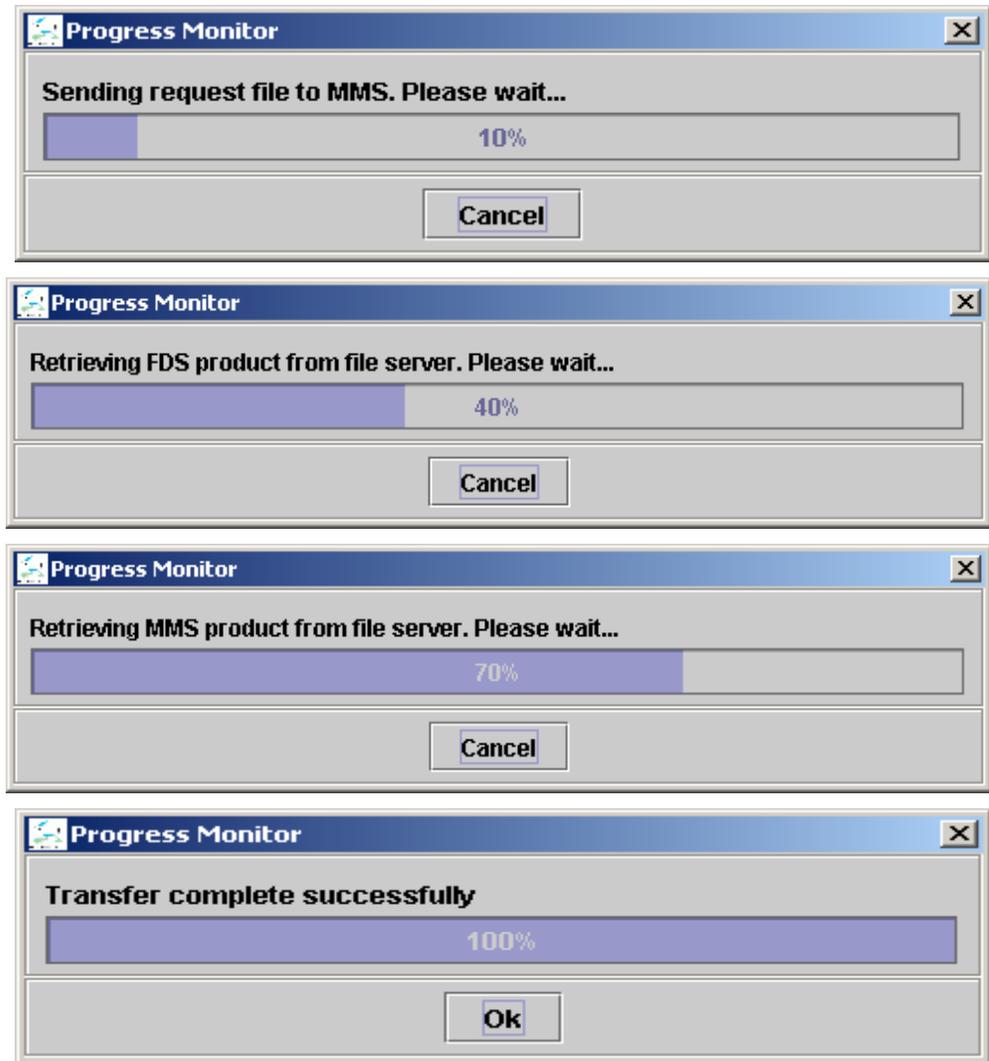
Figure 5.11.1:
MMS Interface
dialog

MMS Connection	
IP Address:	launasa1.aquilent.com
Username:	bakinsan
Password:	*****
Request Directory:	/home/bakinsan/requests

File Server Connection	
IP Address:	launasa1.aquilent.com
Username:	bakinsan
Password:	*****
Request Timeout:	0.5
Directory for MMS Products:	/home/bakinsan/MMS
Directory for FDS Products:	/home/bakinsan/FDS

Buttons: Save, Cancel, Reset

Figure 5.11.1:
Progress dialogs
showing various
status of report
download



The MMS Interface window contains 2 sections. The first section contains settings specific to the MMS server connection. The second section contains settings specific to the file server from which the required reports will be retrieved. Note that all remote connections whether to the MMS system or the file server occur through secure shell (ssh).

IP Address	This is the IP address or hostname of the MMS workstation
Username	The username used to connect to the IP address or hostname listed above
Password	Password associated with the username specified. For security reasons, the password is not as revealed as it's being typed.
Request Directory	Remote directory in which to put the MMS request file.
IP Address	This is the IP address or hostname of the File Server

Username	The username used to connect to the IP address or hostname listed above
Password	Password associated with the username specified. For security reasons, the password is not as revealed as it's being typed.
Request Timeout	The maximum time, in minutes, to spend on each request to the File Server.
Directory for MMS Products	The directory on the file server where the MMS system will output the requested reports.
Directory for FDS Products	The directory on the file server where ASSET expects to find FDS products (i.e. orbital events report files).



Click the **Reset** button to reset fields back to their default values.

Index

Index

A

Applicability	2
ASSET	2, 6
ASTER RTCS Identifiers	54
Audience	2

C

Column Widths	
Print Columns	60
Timeline Columns.....	59
Contacts.....	16
Creating Contacts.....	26

D

Display Filters.....	36
Dump Windows	46, 48

F

Filters	35
Display Filters.....	36
Print Filters.....	39

I

Install.....	10
Installation.....	10

J

Java	7
------------	---

L

Limits	
Red limits.....	56
Yellow limits.....	56

M

Minimum Requirements	7
MMS	6, 20
MMS Interface.....	61
Modeling Parameters	52

N

New Schedule	16
--------------------	----

P

Partial Playbacks	47
Planning horizon	50
Preferences.....	15, 43
Print Filters.....	39
Print Schedule	16, 32

S

Scheduling Options.....	15, 20
Station Management	57
Synchronization Points	50
System requirements.....	7

T

Timeline	15
Toolbar.....	16