

Apollo Project

Beta Version

User Guide

Nanometrics Inc.
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Apollo Project Beta Version User Guide

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1.1 About Apollo Project

Apollo Project Beta Version is a web server product for the convenient retrieval of time-series data from Nanometrics Stores. It provides options for you to define complex, reusable data-retrieval tasks; these tasks are called “projects”.

You can define projects to retrieve data from multiple stores, such as from Tauruses discovered on a network and stores that have been copied to PCs on your LAN. All project types can be run manually. Archive projects can also be run automatically on a schedule.

- ♦ Archive – Retrieve data from sources that are continuously updating.
- ♦ One Time – Retrieve a single time segment.
- ♦ Controlled Source – Retrieve data specified as a set of individually entered shots.
- ♦ Trigger – Upload a CSV-formatted trigger list to specify the data to be retrieved.

1.2 Environment requirements

1.2.1 Hardware

1 GB RAM

1.2.2 Software

- ♦ Linux or Windows XP
- ♦ Java Runtime Environment 1.5.0
- ♦ FireFox or Internet Explorer 7 with Javascript enabled; FireFox recommended

1.2.3 Software licence

TBD

1.3 Installing Apollo Project

The server can be on one machine and the client on another, but all stores must be accessible from the server machine, and all files are created on the server.

1.3.1 Install on Linux

TBD

1.3.2 Install on Windows XP

1. Run the installer ApolloProjectInstall-0.97.0.exe.
2. Run the licence installer ApolloProjectLicenseInstall-0-97-0.exe.

1.4 Running Apollo Project

- ▶ Open a browser and go to <http://address:port/ApolloProject>. The application name Apollo Project is case-sensitive on all operating systems.

Assuming the standard setup for Apollo Project Beta Version, with the application and browser running on the same computer, go to

<http://localhost:8080/ApolloProject>

1.5 Technical support

If you need technical support, please submit your request via the Nanometrics customer support site, or by email or fax. Include a full explanation of the problem and information such as log files.

Customer support site: <http://support.nanometrics.ca/>

Email: techsupport@nanometrics.ca

Fax: To: Support, at +1 613-592-5929

Apollo Project provides options for working with projects, and sets of project options that allow you to easily define complex data retrieval tasks.

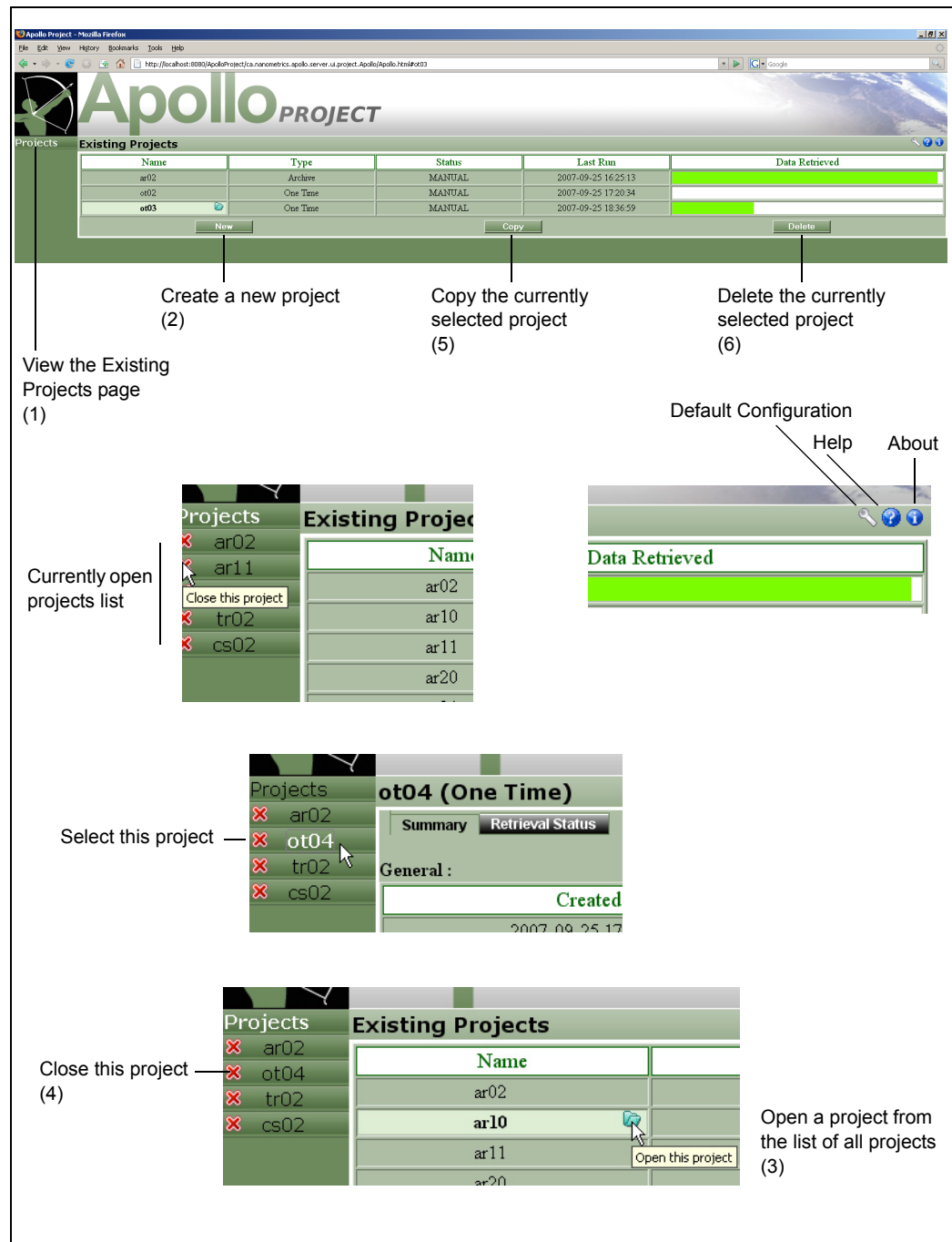
- ♦ [Basic options for working with projects](#)
- ♦ [Defining projects \(Section 2.1 on page 3\)](#)
 - [Store Selection](#)
 - [Channel Selection](#)
 - [Time Selection](#)
 - [Output Format](#)
 - [Output Location](#)
- ♦ [Editing projects \(Section 2.3 on page 15\)](#)
- ♦ [Viewing project definition settings \(Section 2.4 on page 15\)](#)
- ♦ [Running projects \(Section 2.5 on page 16\)](#)
- ♦ [Monitoring project status \(Section 2.6 on page 16\)](#)

2.1 Basic options for working with projects

The Apollo Project home page and Existing Projects page provide these basic options for working with projects (see also [Figure 2-1](#)).

- ♦ [View or edit the default configuration \(Section 2.1.1 on page 5\)](#)
- ♦ [View the list of all projects \(Section 2.1.2 on page 7\)](#)
- ♦ [Create a new project \(Section 2.1.3 on page 7\)](#)
- ♦ [Open a project \(Section 2.1.4 on page 7\)](#)
- ♦ [Close a project \(Section 2.1.5 on page 8\)](#)
- ♦ [Copy a project \(Section 2.1.6 on page 8\)](#)
- ♦ [Delete a project \(Section 2.1.7 on page 8\)](#)

Figure 2-1 Apollo Project basic options*



* The numbers in parentheses (1), (2),.... are references used in the sections below.

2.1.1 View or edit the default configuration

All new project definitions use basic default settings defined in the Configuration page. You can view these default settings, and edit them if required for your system.

- ▶ To view the default settings, click the Default Configuration icon on the main page (Figure 2-1).

To edit the default configuration:

1. Click the Default Configuration icon on the main page (Figure 2-1).
2. Edit the default settings (Table 2-1).

Optionally, edit file location defaults in the Subdirectory and File Configuration page. This page shows the list of tokens that are available to define the default path and filenames.

- a) Click Edit to open the Subdirectory and File Configuration page.
 - b) Edit the file location settings. You can use any of the tokens in any of the fields, and in any order. Optionally, you can include additional characters in the definition.
 - c) Click OK to update the file location defaults and return to the Configuration page. (Or, click Cancel to discard the edits and return to the Configuration page.)
3. Click OK to save the new configuration.

Figure 2-2 Configuration page

Click Edit to use the Subdirectory and File Configuration page.

Table 2-1 Default Configuration parameters

Parameter	Description
Log Verbosity	The verbosity of the Apollo Project log. • Options: Info, Verbose, Debug. Default is Info.
Log Location	The pathname of the Apollo Project log file, defined on installation. • Valid values: a valid pathname. Default is <code>APOLLO_LOCATION\logs</code> .
Maximum Number of Retrieval Attempts	The maximum number of project runs for which a previously attempted time range for a channel will be attempted to retrieve each time segment. There is 1 retrieval attempt for all missing time segments on all channels every time the project is run. You can check the channel details page to see if there are any remaining attempts for any channels (Section 2.6.3). • Valid values: an integer in the range 0 to MAX INT. Default is 8.
Number of Retries	The number of times for Apollo Project to try to connect to a data source if there is an IP network connectivity problem. This is specific to the project run; every project run has the maximum number of retries. • Valid values: an integer in the range 0 to MAX INT. Default is 3.
Retry Interval (sec.)	The interval in seconds between IP connection retries. • Valid values: an integer in the range 0 to MAX INT. Default is 15.
Base Directory	The pathname of the Apollo Project output directory. This value is held in the <code>APOLLO_LOCATION</code> environment variable. • Valid values: any valid absolute pathname. It can also include any additional characters that are valid for paths. Default is <code>ApolloProject</code> .
SubDirectories	The pathname of data directories within <i>Base Directory</i> . • Valid values: any of the tokens in any order; it can also include any additional characters that are valid for paths. Default is <code>\%project\%year\%month\%day</code>
FileNames	The data file names within <i>Base Directory\SubDirectories</i> . • Valid values: any of the tokens in any order; it can also include any additional characters that are valid for filenames. Default is <code>%instrument_%time</code>
Sample Path	A dynamic example of the resulting path and filename as you enter <i>Base Directory</i> , <i>SubDirectories</i> , and <i>FileNames</i> values.
Station Table File Name	The path and filename of a station table file. • Valid values: a valid path and filename. No default value.
Default Network Name	A standard network code. • Valid values: any 2 characters. Default is NE.
Default Channel1 Name	A channel code. • Valid values: any 3 characters. Default is BHZ.
Default Channel2 Name	A channel code. • Valid values: any 3 characters. Default is BHN.
Default Channel3 Name	A channel code. • Valid values: any 3 characters. Default is BHE

Table 2-1 Default Configuration parameters (Continued)

Parameter	Description
Location	A location within a station. • Options: any 2 ASCII characters. Default is 2 spaces for “none”.

2.1.2 View the list of all projects

The Existing Projects page shows the list of all projects (1) and a status overview of each project (Section 2.6 on page 16). It is the default page on opening an Apollo Project session.

2.1.3 Create a new project

You can create multiple projects, up to the number supported by the software licence.

To create a new project:

1. Click New in the Existing Projects page (2).
2. Choose a project type and enter a unique name in the Create New Project page (Figure 2-3). Click OK. This will open the project definition pages containing default settings.
3. Define the project: edit settings as required in each page (Store Selection, Channel Selection, Time Selection, Output Format, and Output Location).
4. Click OK and then wait a few moments for the new project to open. (Or click Cancel to discard the project.)
 - You can edit settings for the new project at any point before the project has run for the first time.

Figure 2-3 Create New Project page

Create New Project

Project Name :

☐ Archive	Used for recurring data retrievals. Can run on specified schedules or be run manually at will.
☒ One Time	A manually-run project for retrieving a single time set.
☐ Controlled Source	Retrieved data is specified as a set of individually entered "shots".
☐ Triggers	Upload a CSV-formatted trigger list to specify the data to be retrieved.

2.1.4 Open a project

- To open a project, click on the project name and then click the Open Project icon (3). This will open the Summary page for this project.

2.1.5 Close a project

- To close a project, click the Close Project icon on the project tab (4).

2.1.6 Copy a project

- To copy a project, click on the project name and then click Copy (5). Enter a unique name and then edit settings if required (Section 2.2).

2.1.7 Delete a project

- To delete a project, click on the project name and then click Delete (6). No data files are deleted. All temp files associated with the project are deleted (Figure 2-4).

Figure 2-4 Data and temp files example

Data files for project ar02

ApolloProject config data ar02 2007 09 25	taurus_0022_20070925_055000.seed taurus_0022_20070925_060000.seed taurus_0022_20070925_061000.seed taurus_0022_20070925_062000.seed taurus_0022_20070925_063000.seed taurus_0022_20070925_064000.seed taurus_0022_20070925_065000.seed taurus_0022_20070925_070000.seed	45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33 45 KB SEED ... 2007-09-25 12:33
--	--	--

temp files for project ar02

ot12 2007 09 25 temp ar02 10.10.3.143 taurus_0022 taurus_0022digitizertimeSeries1 taurus_0022digitizertimeSeries2 taurus_0022digitizertimeSeries3 ar10	11907114000000000000.seed 11907120000000000000.seed 11907126000000000000.seed 11907132000000000000.seed 11907138000000000000.seed 11907144000000000000.seed 11907150000000000000.seed 11907156000000000000.seed 11907162000000000000.seed 11907168000000000000.seed 11907174000000000000.seed 11907180000000000000.seed	15 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 15 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 15 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 15 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32 16 KB SEED ... 2007-09-25 12:32
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2.2 Defining projects

Project definition parameters are grouped on tabbed project definition pages. Most options are consistent across project types; for example, Store Selection. The difference between project type definitions is Time Selection options.

2.2.1 Store Selection

Store Selection options define which data sources to use for the project, and how to find the sources (Figure 2-5). By default all specified stores will be used. Data sources may be unchanging, such as a backed-up copy on a PC, or continuously updating, such as on a live Taurus or a copy on a PC that has more data added to it periodically.

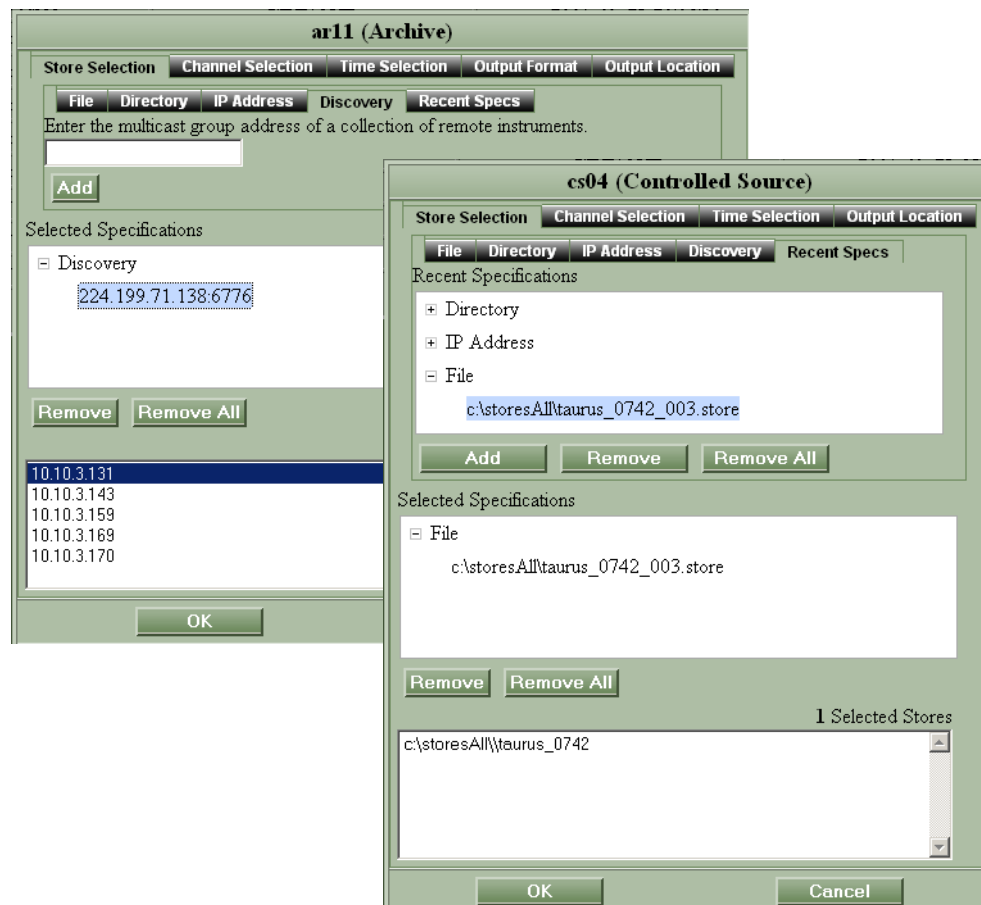
The options for each of the five store specification methods are grouped on these tabbed pages:

- ◆ **File** – Enter the path and filename of one of the store files to open the whole store.

- ♦ **Directory** – Enter a directory name. Apollo Project will search for all stores in the defined directory and all of its subdirectories. (Using a high level directory, such as root, will result in a very long search.)
- ♦ **IP Address** – Enter the IP address of a Taurus.
- ♦ **Discovery** – Enter one or more multicast group addresses. All stores discovered in all groups are selected (Figure 2-5).
 - When multiple multicast groups are used for discovery, the port number must differ from existing discovery port numbers by 2. That is, for each discovery port number in use x , there must be no other discovery port configured for use with a value of x or $x+1$.

For example, the default discovery multicast group used by Taurus is 224.199.71.138:6776. To add another multicast group, you must also choose a different port number which cannot be 6776 or 6777.
- ♦ **Recent Specs** – The 16 most recent store specifications used when creating or modifying project definitions (Figure 2-5).

Figure 2-5 Store Selection examples



2.2.2 Channel Selection

The Channel Selection page provides options to define the channels from which the project will extract data (Figure 2-6). Definition parameters and associated options are

listed in [Table 2-2](#). Default values are taken from the station file defined in the Configuration page [Station Table File Name](#). A Station Table file is used to assign station names to all of the selected stores.

Table 2-2 Channel Selection parameters

Parameter	Options
Station Table File Name	- Use the default value as defined in the Configuration page Station Table File Name. - Enter a new station table path and file for this project. - Click Create Default Station Table to create a default station table for all of the currently selected stores and discovered instruments. The file is saved to APOLLO_LOCATION\scnl. For default station name, Apollo Project uses Taurus AserialNumber and Trident305 BserialNumber. These are put into the MiniSEED files.
Filter parameters	- All Channels (no filtering) - Deselect All Channels to use the channel filter parameters. - Select any one or more of the channels listed. - Enter any additional filter information (Network, Channel, Station, Instrument, Location) as comma-delimited text; an asterisk * will represent 1 or more characters.
Channel information	Displays the list of channels based on selections made above, as .

Figure 2-6 Channel Selection page

ot02 (One Time)

Store Selection Channel Selection Time Selection Output Format Output Location

Station Table: C:\nmx\ApolloProject\scnl\ot02.scnl

Create Default Station Table

☒ All Channels (no filtering)

☒ Channel 1 Network: Channel: Station: Instrument: Location:

☒ Channel 2

☒ Channel 3

Selected Channels 21 of 21

taurus_0643/digitizer/timeSeries1	JH.A0643. .BHZ
taurus_0643/digitizer/timeSeries2	JH.A0643. .BHN
taurus_0643/digitizer/timeSeries3	JH.A0643. .BHE
taurus_0742/digitizer/timeSeries1	JH.A0742. .BHZ
taurus_0742/digitizer/timeSeries2	JH.A0742. .BHN
taurus_0742/digitizer/timeSeries3	JH.A0742. .BHE
taurus_0747/digitizer/timeSeries1	JH.A0747. .BHZ

OK Cancel

2.2.3 Time Selection

The Time Selection page provides options specific to the project type.

2.2.3.1 Archive



Note Any Archive project can be run manually at any time.

1. Enter the project Start Time.
2. Choose the run option, either scheduled or manual (deselect Use Schedule).
3. If you have chosen Use Schedule, you can choose one of these scheduling methods:
 - Regular Intervals, such as several intervals within one day
 - Weekly, with one run per day at Project Start Time on any of one or more days

For a Regular Interval schedule, the next run will start <at the time you click Start Schedule + the interval duration> regardless of the specified Project Start Time.

► If you want the project to run at a specific time of day, use Weekly Schedule.
4. Choose the File Interval (where File Interval is the duration of each output data file).

Figure 2-7 Archive project Time Selection page

ar20 (Archive)

Store Selection Channel Selection **Time Selection** Output Format Output Location

Project Start Time :

☒ Use Schedule (else run manually)

Regular Interval :

☒ Every

Weekly Schedule :

☐ At Hours Minutes

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat

File Interval :

Time Spans: 24

OK Cancel

2.2.3.2 One Time

Retrieve a single time segment.

- Specify the Start Time, End Time, Duration, and File Interval ([Figure 2-8](#)).
- Duration is the length of the requested time segment.
 - File Interval is the duration of each output data file.

Figure 2-8 One Time project Time Selection page

ot10 (One Time)

Store Selection Channel Selection **Time Selection** Output Format Output Location

yyyy-mm-dd hh:mm:ss

Start Time : 2007-09-26 17:45

End Time : 2007-09-26 18:45

Duration : 1 Hours

File Interval : 10 Minutes

Time Spans: 6

OK Cancel

2.2.3.3 Controlled Source

Retrieve data specified as a set of individually entered shots.

1. Enter a shot time manually and then click Add ([Figure 2-9](#)).
2. Set the post-shot time period, and optionally the pre-shot time period.
3. Click Add.

Figure 2-9 Controlled Source project Time Selection page

cs02 (Controlled Source)

Store Selection Channel Selection **Time Selection** Output Location

yyyy-mm-dd hh:mm:ss

Shot Time: 2006-06-26 19:48 Add

Pre Time: 60 Seconds Post Time: 10 Minutes

Shot List: 2006-06-26 19:48:00, -1m, +10m

Remove Remove All

OK Cancel

2.2.3.4 Trigger

1. Upload a CSV-formatted trigger list to specify the data to be retrieved, using either of these options:
 - Browse for or enter the trigger file path and filename..

- ▶ Download it from a Taurus.
2. Click Submit to add the triggers (Figure 2-10)
3. Set pre- and post-trigger time periods. These will be used for all of the triggers.

Figure 2-10 Trigger Time project Selection page

2.2.4 Output Format



Note This page is not available for Controlled Source projects as the output is always to combined SEG Y format.

You can output the data to any of MiniSEED, Seisan, or SEG Y format.

- ♦ MiniSEED files are created as individual files for each instrument. The number of files is determined by the file duration. For example, if the time duration asked for is 10 hours and the file duration is 1 hour then there will be 10 files created per instrument.

MiniSEED is available with common options for data record length; the default is 512 bytes.

There are options to Combine and/or Sort output.

- Select Combine to have all stations/instruments combined into one MiniSEED file.
- Select Sort to change the data record size to any of the allowable value, which guarantees that the data will be in sorted order.

- ♦ Seisan files are downloaded into files of 20 minutes duration per station (aligned on 0, 20, and 40 minutes) to the directory specified by the SEISAN_TOP environment variable.
 - Ensure that you have Seisan installed on your PC, with a WAVEFORM_BASE and CONT_BASE line included for each station in the DAT/SEISAN.DEF file.
- ♦ The SEGY trace headers from discovered instruments running Taurus v2.x will not have station location information in the trace headers.

Output to SEGY format has these requirements:

- All stations have the same sample rate
- The maximum number of samples per trace is 32767

There are options to Combine and/or Sort output:

- Select Combine to have all stations combined into one SEGY file.
- Select Sort to have stations sorted on *StationName.NetworkName*.

Figure 2-11 Output Format page

2.2.5 Output Location

This page provides options to define the path and filenames for the project output files (Figure 2-12). It also includes a description of the tokens available to define the output location. You can use any of the tokens in any order, in any of the fields except Base Directory. Optionally, you can include additional characters in the definition. The parameters are listed in Table 2-3.

Table 2-3 Output Location parameters

Parameter	Description
Base Directory	The pathname of the project output directory. • Valid values: a valid absolute pathname. It can also include any additional characters that are valid for paths. Default is <code>ApolloProject</code>.
SubDirectories	The pathname of data directories within <i>Base Directory</i> . • Valid values: any of the tokens in any order; it can also include any additional characters that are valid for paths. Default is <code>/%project/%year/%month/%day</code>

Table 2-3 Output Location parameters

Parameter	Description
FileNames	The data file names within <i>Base Directory\SubDirectories</i> . Valid values: any of the tokens in any order; it can also include any additional characters that are valid for filenames. Default is <code>instrument_%time</code>
Sample Path	A dynamic example of the resulting path and filename as you enter <i>Base Directory</i> , <i>SubDirectories</i> , and <i>FileNames</i> values.

Figure 2-12 Output Location page

ar20 (Archive)

Store Selection Channel Selection Time Selection Output Format Output Location

Base Directory:

☐ Create base directory if necessary

Subdirectories:

Filename:

Sample Path: c:\nmx\ApolloProject\data\ar20\2007\09\26\Taurus_1234_070926_102142

The following tokens can be used to specify subdirectory trees that will be created as the data is retrieved:

%year	 maps to the 4-digit year
%month	 maps to the 2-digit month
%day	 maps to the 2-digit day
%time	 maps to the yyyyMMdd_HHmss
%project	 maps to the project name
%format	 maps to the requested output format (i.e. MiniSeed, MiniSeedSorted, segy, SEISAN)
%network	 maps to the network name
%station	 maps to the station name of the instrument in question
%channel	 maps to the channel
%instrument	 maps to the instrument id (e.g. taurus_1234)

OK Cancel

2.3 Editing projects



Note The Edit option is available only if the project has never been run. If the project has been run, you can use Copy to create a new project ([Section 2.1.6](#)) and then edit the new definition as needed.

To edit a project definition:

- ▶ Click Edit in the project Summary page, and then edit settings in the project definition pages. The options are the same as those described in [Section 2.2 “Defining projects”](#) on page 8.

2.4 Viewing project definition settings

For a project that has been run, the Edit button is replaced with the View button.

- ▶ Click View to open the project definition pages. Click Cancel to exit (OK is inactive in view mode).

2.5 Running projects

All project types can be run manually. Archive projects can also run automatically on a schedule.

2.5.1 Run a project manually

- ▶ Click Run Now to run the project immediately.

2.5.2 Cancel a project run in progress

- ▶ Click Cancel to stop the current run of the project. You can run a cancelled project again with Run Now.

2.5.3 Run an Archive project with a schedule

- ▶ Click Start Schedule to activate the project schedule.

For an Interval schedule, the next run will start <at the time you click Start Schedule + the Interval>. If you want it to start at a specific time of day, use the Weekly option.

2.5.4 Cancel scheduled runs

If you cancel a schedule the project becomes manual run only; you can then reschedule it with Start Schedule.

- ▶ Click Cancel Schedule to convert a scheduled Archive project to manual run.

2.5.5 Merge data files

At any time for any non-archive project, you can run merge to combine all the downloaded data for the stations and instruments into one file per interval.

- ▶ To merge data into one file, open the project Summary page and click Merge. A single file will be produced for each time period. The original data files remain and are not altered.

2.6 Monitoring project status

Status information is provided as summaries on the two main pages, and in detail for each channel in a project.

2.6.1 View the basic status of all projects

The Existing Projects page shows a summary of the status of all projects, such as current run status and overall data retrieval success ([Figure 2-14](#)).

2.6.2 View the status of a project

The Project Summary page shows status information for the project, including its current run status (currently running; otherwise manual, scheduled, or cancelled), the last time it ran, and when it will run next.

Figure 2-13 Project status on the Summary page

ar11 (Archive)

Summary | Retrieval Status

General:

Created	Modified	Status	Last Run	Next Run
2007-09-26 19:10:41	2007-09-26 19:11:56	RUNNING	2007-09-26 20:11:09	Manual

Stores, Channels, Time:

Store Specifications

IP Address: 10.10.3.143

Selected Stores	Selected Channels	Start Time	End Time	Files Produced	File Interval
1	3 of 3	2007-09-25 13:45:00	N/A (Archive)	24 (per day)	1 Hours

Output:

Base Directory	SubDirectory Spec	FileName Spec	Format
c:\apps\Apollo\Project\data	%project%\year%month%day%	%instrument_%time	MaxSEED (512)

☐ Sorted ☐ Combined

2.6.3 View data retrieval status

Data availability and retrieval status is shown on the Existing Projects page and on the project Retrieval Status page. The information displayed updates continually while a project is running. Status is expressed as the percentage retrieved of the time segment requested. Bar graphics use the colour codes described in [Table 2-4](#).

The Data Retrieved bars on the Existing Projects page show the overall status for all projects ([Figure 2-14](#)).

Figure 2-14 Retrieval status of all projects

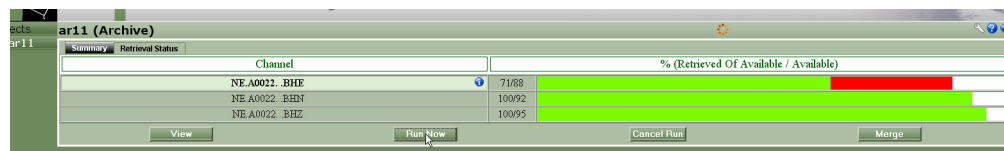
Example status

Name	Type	Status	Last Run	Data Retrieved
ar02	Archive	MANUAL	2007-09-25 16:25:13	
ar10	Archive	MANUAL	2007-09-25 21:13:39	
ar11	Archive	MANUAL	2007-09-26 20:12:10	

Example status at a later time

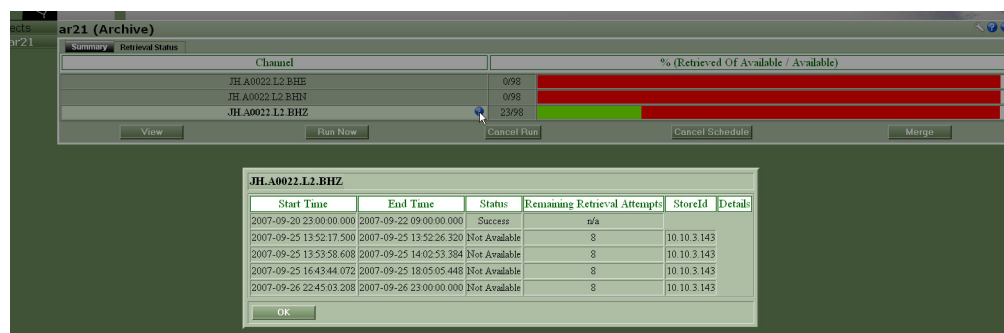
Name	Type	Status	Last Run	Data Retrieved
ar02	Archive	MANUAL	2007-09-25 16:25:13	
ar10	Archive	MANUAL	2007-09-25 21:13:39	
ar11	Archive	MANUAL	2007-09-26 20:39:33	
ar20	Archive	SCHEDULED	2007-09-26 22:39:21	
ar21	Archive	RUNNING	2007-09-26 22:46:39	

The project Retrieval Status page shows the overall status for each channel, numerically and as a bar graphic ([Figure 2-15](#)).

Figure 2-15 Retrieval Status page for all channels in a project

The channel details page shows the retrieval status of each time segment for the channel (Figure 2-16).

- To open the channel details page, click on the channel name and then click the Channel Details icon.

Figure 2-16 Retrieval details for a channel

2.6.3.1 Data retrieval status colours

The data availability and retrieval status bar graphics use the colour codes listed in Table 2-4.

Table 2-4 Retrieval status colours

Colour	Status
Yellow	Apollo Project is attempting to retrieve available data from the store.
Green	The data are retrieved.
White	Data for some portion of the requested time segment are not available in the store. For example, there are gaps in the data or the retrieval request is for a future time segment.
Red	Data are available in the store but Apollo Project has failed to retrieve it on this attempt. Apollo Project will make additional attempts to retrieve the data, up to the configured Maximum Number of Retrieval Attempts (Table 2-1).