

# **Data Archiving for Adabas**

## **Getting Started**

Version 1.6

November 2016

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This document applies to Data Archiving for Adabas Version 1.6.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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## Preface

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This document provides a general orientation to Data Archiving for Adabas.

**Loading and Using the Data Archiving for Adabas Demo**

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# 1 Loading and Using the Data Archiving for Adabas Demo

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Data Archiving for Adabas contains a getting started demo to help you quickly see how to use the product. This demo is real; it runs against test files that are created as part of the demo itself. The following sections explain how to use the demo.

## Prepare the Demo Databases

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The default demo execution uses databases 1 and 2. It is much easier to achieve a quick “getting started” if you can arrange to use these database numbers for the demo; you can use different database numbers if you wish.

Also, we assume it is easier for you to create and use completely new databases for the demo - to stay away from your day-to-day data while you are getting started. But you do not have to create new databases either, you can use existing ones.

Assuming your environment is new for the purposes of getting started we suggest you create two new databases with the numbers 1 and 2 (if possible).

Depending on your environment, you can use the Adabas Manager, Adabas Online Services, DBA Workbench or even utilities to create these databases. Or you may have two test databases with space available for creating some (small) test files in them. Note the database numbers, you will need them later.



**Note:** These test files do not need to be part of a database that is secured with PLOG, and they do not need to be backed up everyday, because the demo has a reload capability that you can use at any time to recreate the files in full.

## Loading (and reloading) the Demo

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The demo is not automatically loaded during the installation, you choose whether you want to load (or reload) it.

You must first login into System Management Hub and select the **Data Archiving for Adabas** main tree.

### ➤ To load or reload the demo

- 1 Select the main **Data Archiving for Adabas** node.

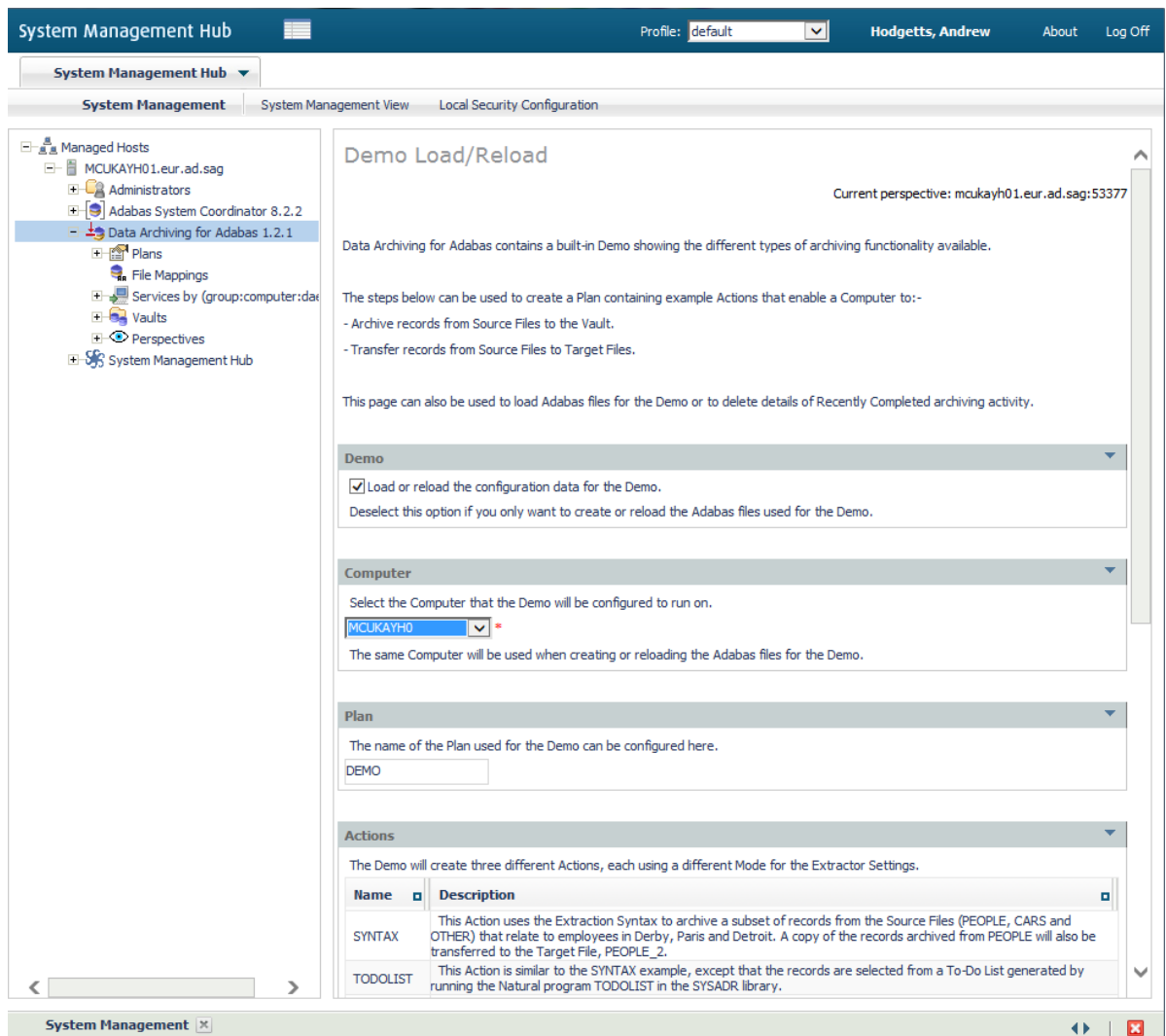
The following screen appears:





2 Click the **Demo** button.

The Demo Load/Reload screen appears:



Scrolling down the screen:

**System Management Hub** Profile: default Hodgetts, Andrew About Log Off

**System Management Hub**

**System Management** System Management View Local Security Configuration

**Managed Hosts**

- MCUKAYH01.eur.ad.sag
  - Administrators
  - Adabas System Coordinator 8.2.2
  - Data Archiving for Adabas 1.2.1**
    - Plans
    - File Mappings
    - Services by (group:computer:database)
    - Vaults
    - Perspectives
    - System Management Hub

**DEMO**

**Actions**

The Demo will create three different Actions, each using a different Mode for the Extractor Settings.

Name	Description
SYNTAX	This Action uses the Extraction Syntax to archive a subset of records from the Source Files (PEOPLE, CARS and OTHER) that relate to employees in Derby, Paris and Detroit. A copy of the records archived from PEOPLE will also be transferred to the Target File, PEOPLE_2.
TODOLIST	This Action is similar to the SYNTAX example, except that the records are selected from a To-Do List generated by running the Natural program TODOLIST in the SYSADR library.
USERLIB	This Action is similar to the SYNTAX and TODOLIST examples, except that the record selection is controlled by an example of a User Library (userlib.dll or libuserlib.so)

**Source Files**

The database and file numbers for the Source Files can be modified below. The Adabas files will be created or reloaded automatically if the corresponding checkbox is selected.

File Name	Database Number	File Number	Create/Reload File
PEOPLE	1	611	<input checked="" type="checkbox"/>
CARS	1	612	<input checked="" type="checkbox"/>
OTHER	1	613	<input checked="" type="checkbox"/>

**Target Files**

The database and file numbers for the Target File can be modified below. If the Adabas file does not exist, it will be created automatically when the Action is run.

File Name	Database Number	File Number
PEOPLE_2	2	611

**Activities**

☒ Delete Recently Completed activities.

Select this option to delete the details of previous archive activity involving the selected Computer.

**Execute** **Cancel**

The demo load/reload allows you to:

- Choose if the configuration data is to be loaded/reloaded.
- Choose the computer on which the load/reload processing is to take place.
- Define the name of the Plan under which the configuration objects will be loaded (default is DEMO).
- Define the demo Source Files and optionally indicate if they are to be created/reloaded.
- Define the demo Target File.
- Reset the list of recent completed activities, before doing anything else.

Each time the configuration objects are loaded (or reloaded) into the defined Plan name, they are dynamically adjusted to reflect a configuration for running on the computer that you have selected.



**Note:** This means a multiple computer implementation (where the Repository is shared) may be re-loading the configuration so that the computer running the demo changes from one reload to the next. You can negate this effect by defining a different Plan name for each different computer that you want to run the demo on.

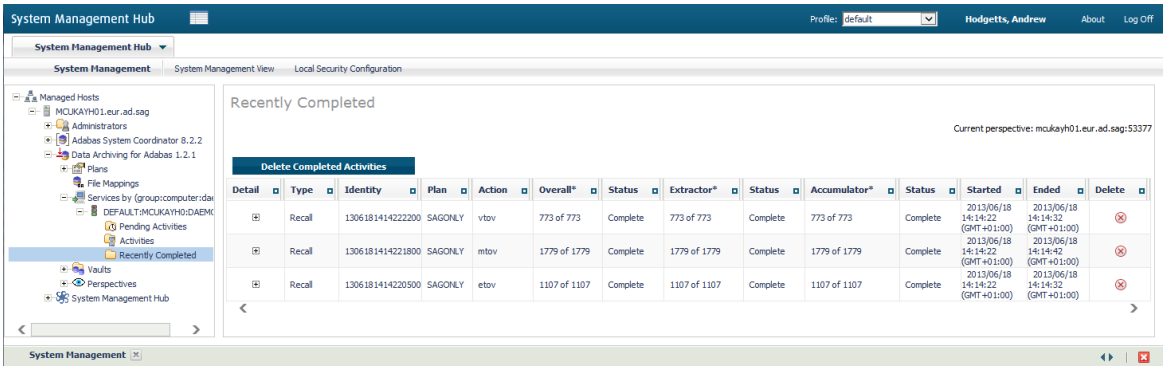
- 3 Enter the following information (or accept the defaults):

Section	Description
Demo	Identifies if the configuration data is to be loaded/reloaded.  <b>Note:</b> For the initial installation, this checkbox must be ticked.
Computer	The computer the demo will be configured to run on.
Plan	The Plan name under which the configuration data will be loaded/reloaded.
Source Files	The Source Files to be used by the demo.  The checkbox on the right hand side specifies whether these files are to be reloaded (or created if they do not already exist).  <b>Note:</b> For the initial installation, this checkbox must be ticked.
Target Files	The Target File to be used by the demo.  This file will be created automatically if it doesn't already exist.
Activities	Delete previous activity reports involving the specified Computer.

- 4 Click the *Execute* button to start the demo load/reload.
- 5 Check the status of the demo load/reload.

The Source Files are loaded by performing a recall from an archived copy of the demo test files kept within the product itself. This means you can actually watch the recall activities running while the load/reload takes place. To watch this happen, do the following:

- Select the *Services by...* node under Data Archiving for Adabas.
- Within that, select the *DEFAULT:<computername>:DAEMON* node.
- Within that, select the *Pending Activities*, *Activities* or *Recently Completed* nodes to follow the progress of the recall activities.
- When the Demo Load/Reload is complete, within Recently Completed you will see each of the completed recall activities as shown below:



- Click the *Delete Completed Activities* button if you want to clear the recent history.

6 The demo is loaded (or re-loaded) and ready to use.

# Running the Demo Actions

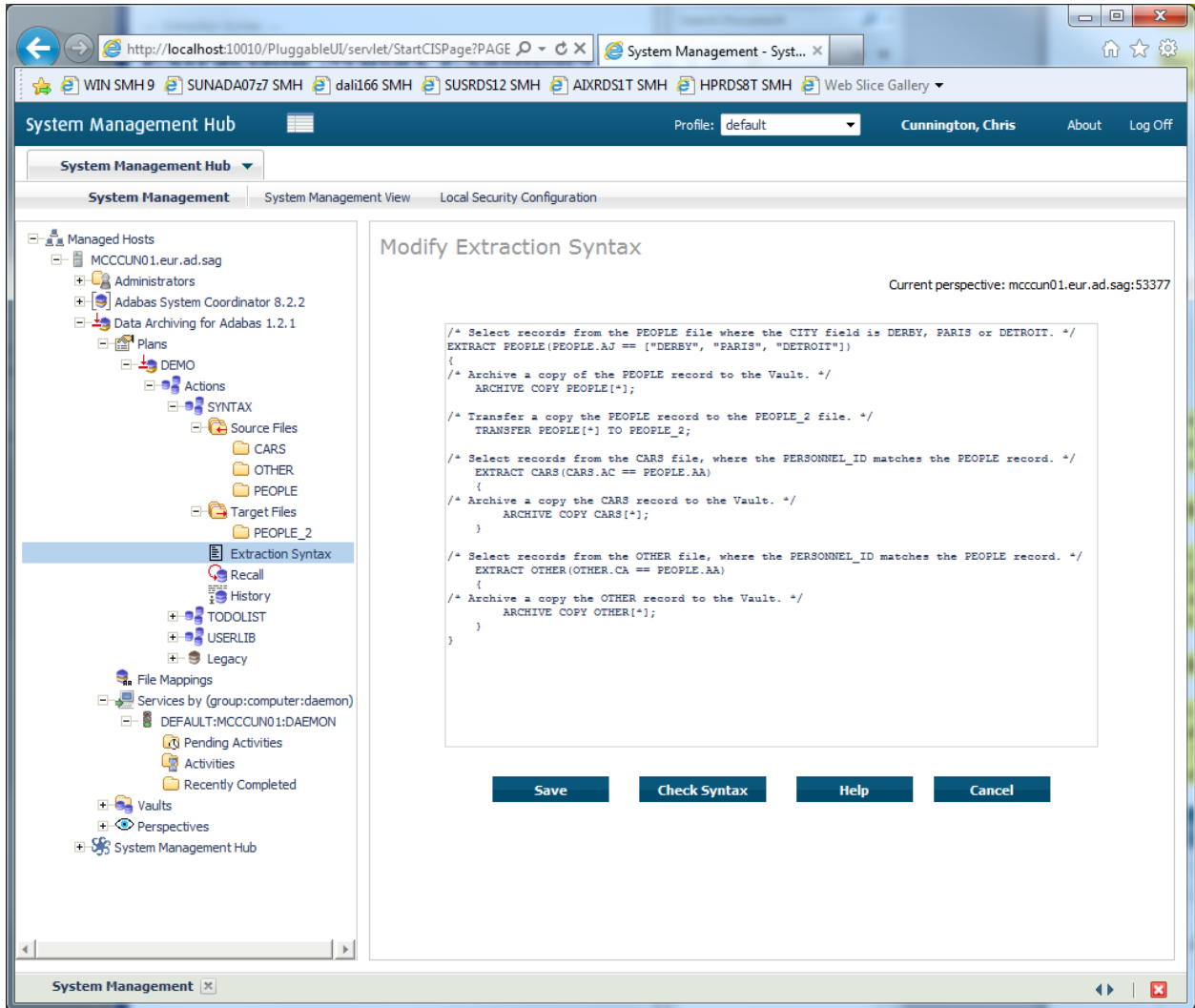
The demo contains three sample Actions SYNTAX, TODOLIST and USERLIB that demonstrate the three Data Selection Modes (see Data Selection Mode).

- Action SYNTAX: Uses Extraction Syntax for data selection
- Action TODOLIST: Uses the API for Natural to generate an archive/transfer list
- Action USERLIB: Uses a record selection plug-in (User Lib/DLL)

## Action SYNTAX: Uses Extraction Syntax for data selection

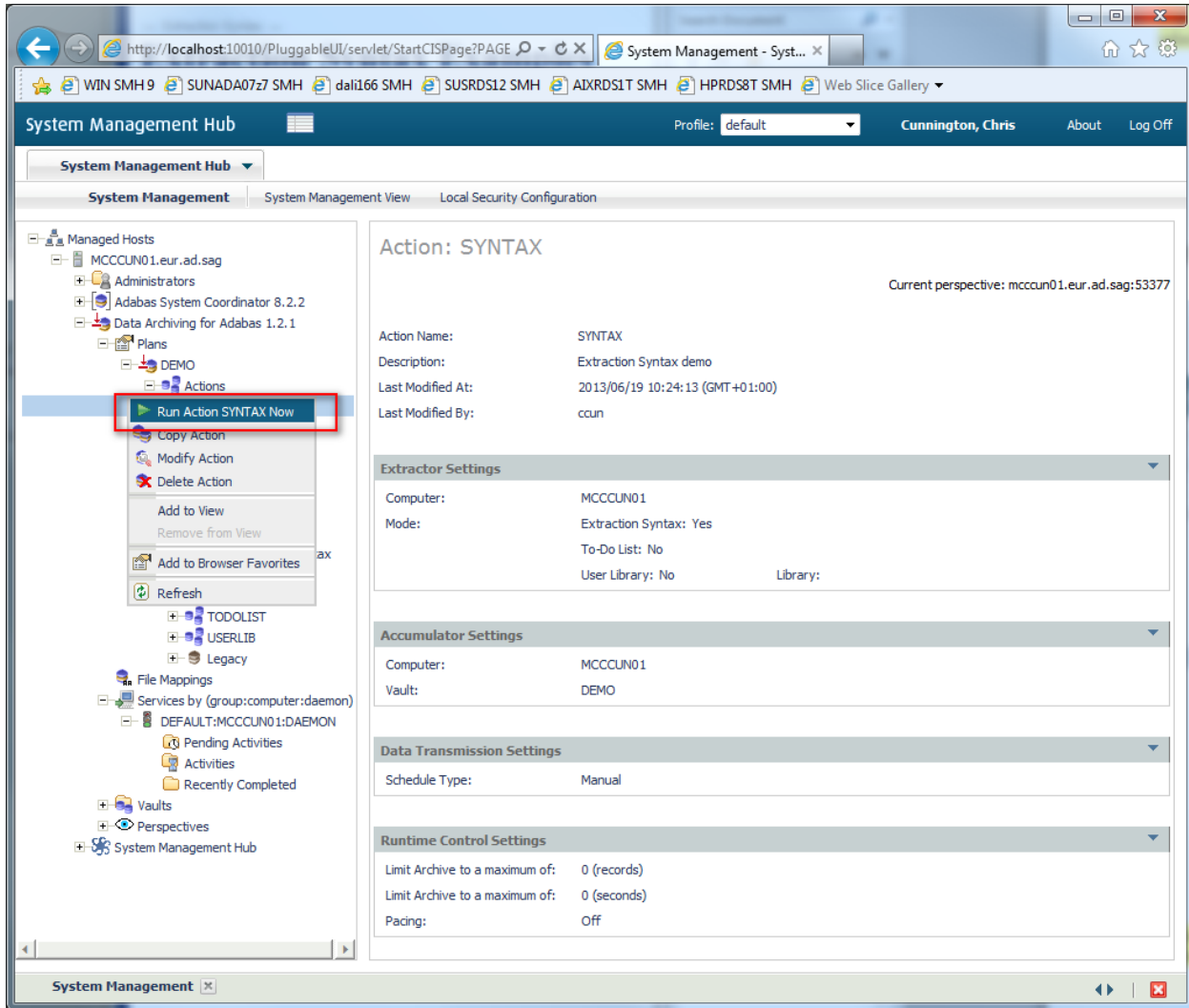
This action uses Extraction Syntax to select records for archive or transfer.

Select the *Extraction Syntax* node in the UI to view the Extraction Syntax that will be run.



The Extraction Syntax selects records from the PEOPLE file where the CITY field is DERBY, PARIS or DETROIT and archives a copy of the PEOPLE record to the Vault. It then transfers a copy the PEOPLE record to the PEOPLE\_2 file. Next it selects records from the CARS file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy the CARS record to the Vault. Finally it selects records from the OTHER file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy of the OTHER record to the Vault.

To run the action, right-click on the Action name SYNTAX, and then select *Run Action SYNTAX Now*.



The progress of the archive Action can be monitored from the *Services by – Activities* screen, and when complete the Action will be visible on the *Recently Completed* screen.

The screenshot shows the 'System Management Hub' web interface. The left sidebar contains a tree view of the system structure, including 'Managed Hosts', 'Administrators', 'Adabas System Coordinator 8.2.2', 'Data Archiving for Adabas 1.2.1', 'Plans', 'Actions', 'Source Files', 'Target Files', 'Extraction Syntax', 'Recall', 'History', 'TODOLIST', 'USERLIB', 'Legacy', 'File Mappings', 'Services by (group:computer:daemon)', 'DEFAULT:MCCUN01:DAEMON', 'Pending Activities', 'Activities', 'Recently Completed', 'Vaults', 'Perspectives', and 'System Management Hub'. The 'Recently Completed' section is selected and highlighted.

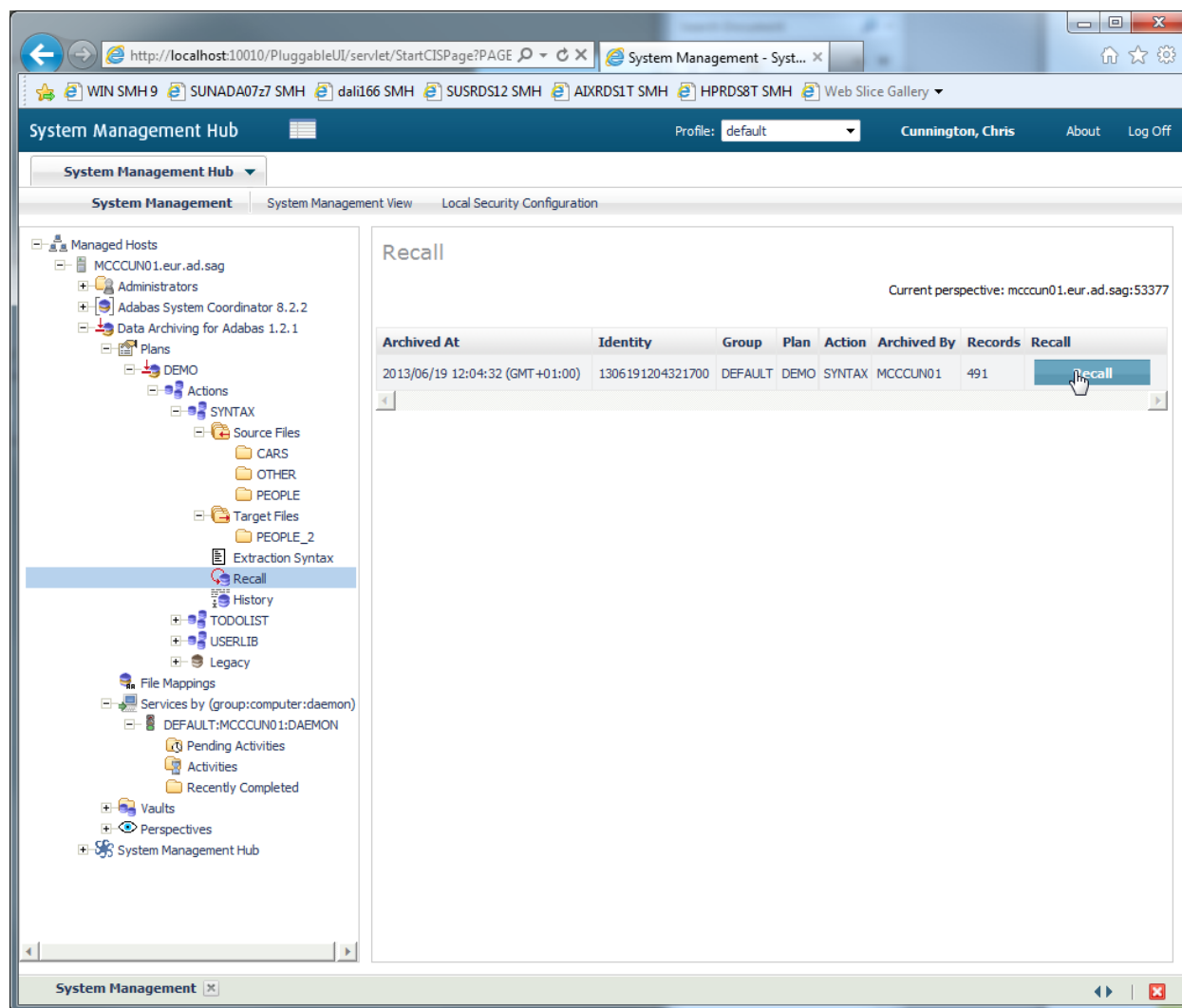
The main content area is titled 'Recently Completed' and shows a table of completed activities. The table has columns: Detail, Type, Identity, Plan, Action, Overall\*, Status, Extractor\*, and Stat. The table contains one row of data:

Detail	Type	Identity	Plan	Action	Overall*	Status	Extractor*	Stat
Archive, Transfer		1306191153353300	DEMO	SYNTAX	170 of 170	Complete	170 of 170	Comp

Below the table, there is a 'Delete Completed Activities' button. The bottom status bar shows 'System Management' and navigation controls.

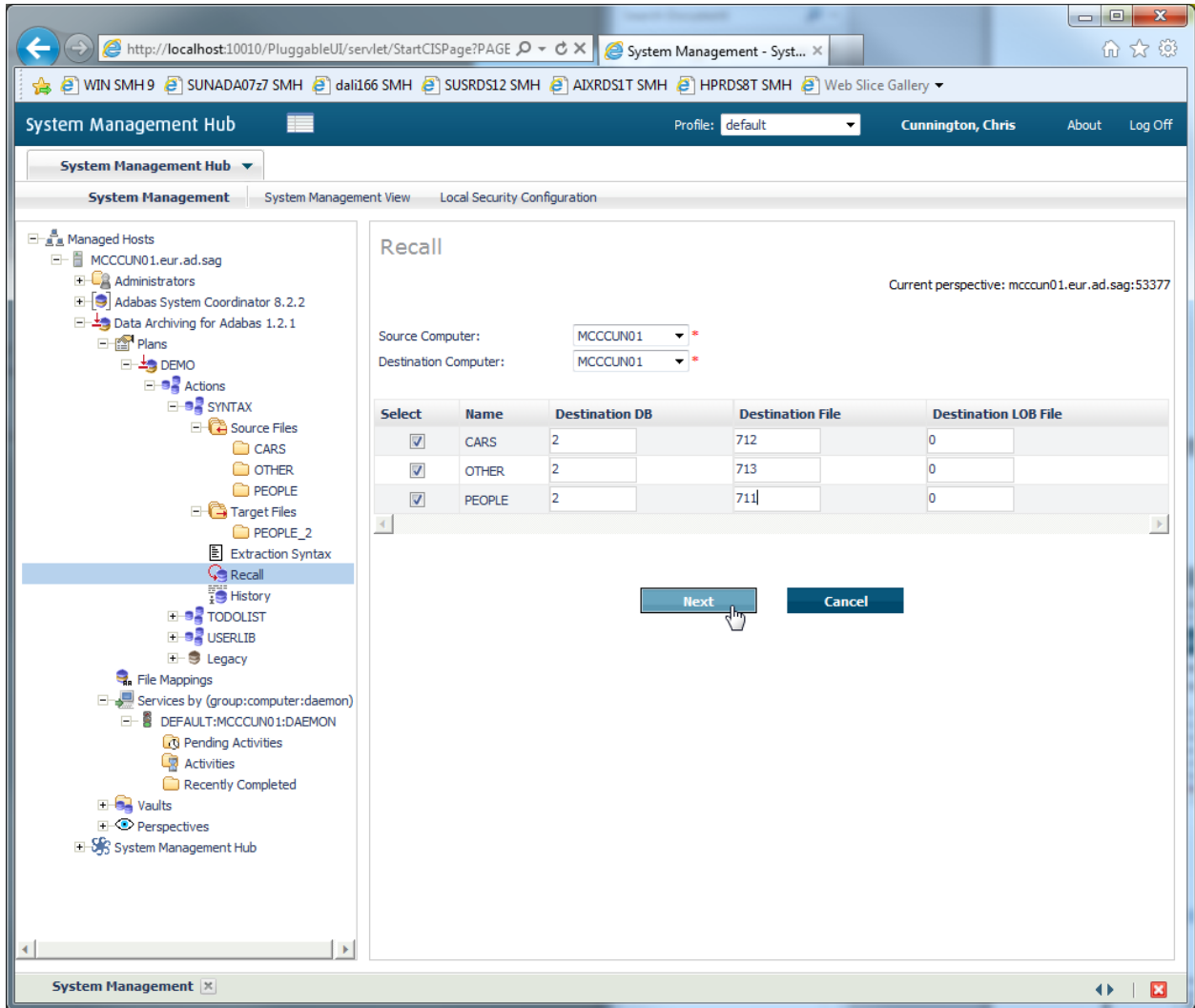
## Recalling the Archived Data

To recall the archived data select the *Recall* node of the SYNTAX Action and select the Recall button for the archive you want to restore back into Adabas.

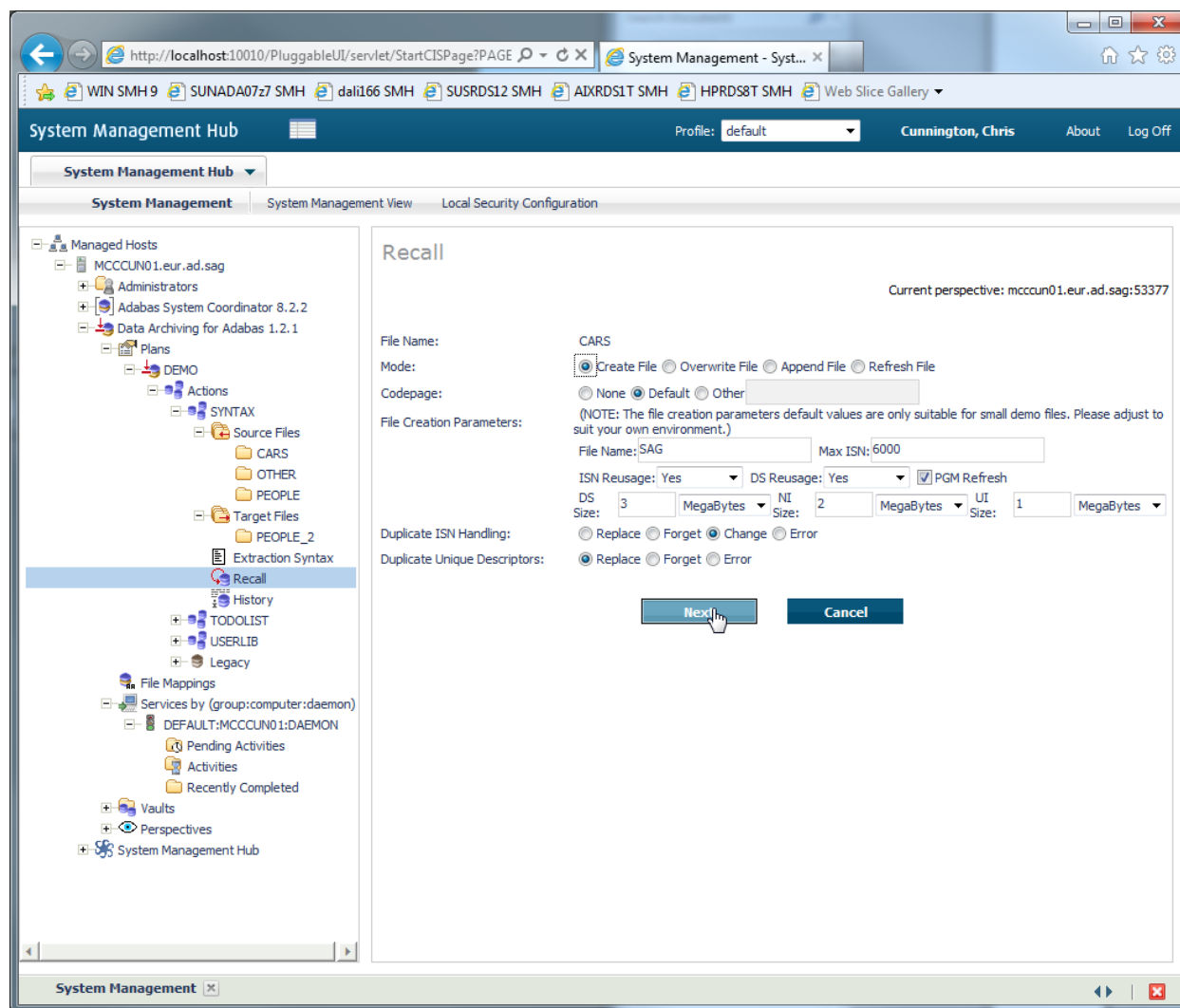


Because the SYNTAX Action archives data from three different files (PEOPLE, CARS and OTHER) there is the possibility to recall the archived data for any or all these files. Select all three files and specify the destination database and file numbers the recalled data will be placed in. Select Next.





For each recall file a file setting screen will now be displayed. Select a suitable mode option (*Create File* or *Overwrite*) for each file, then select *Recall* to start the recall operation.



The progress of the recall can be monitored from the *Services by – Activities* screen, and when complete the Action will be visible on the *Recently Completed* screen. Because three archives are being recalled there will be three separate recall activities, one per file.

The screenshot shows the 'System Management Hub' web application. The left sidebar contains a tree view with nodes like 'Managed Hosts', 'Administrators', 'Adabas System Coordinator 8.2.2', 'Data Archiving for Adabas 1.2.1', 'Plans', 'Actions', 'SYNTAX', 'Source Files', 'Target Files', 'Extraction Syntax', 'Recall', 'History', 'TODO LIST', 'USERLIB', 'Legacy', 'File Mappings', 'Services by (group:computer:da)', 'DEFAULT:MCCUN01:DAEM', 'Pending Activities', 'Activities', 'Recently Completed', 'Vaults', 'Perspectives', and 'System Management Hub'. The 'Activities' node is selected. The main content area is titled 'Current Activities' and shows a table with the following data:

Detail	Type	Identity	Plan	Action	Overall*	Status	Extractor*	Status
	Recall	1306191349497301	DEMO	SYNTAX	0	Active	108 of 108	Complete
	Recall	1306191349498402	DEMO	SYNTAX	0	Active	213 of 213	Complete
	Recall	1306191349498503	DEMO	SYNTAX	0	Active	170 of 170	Complete

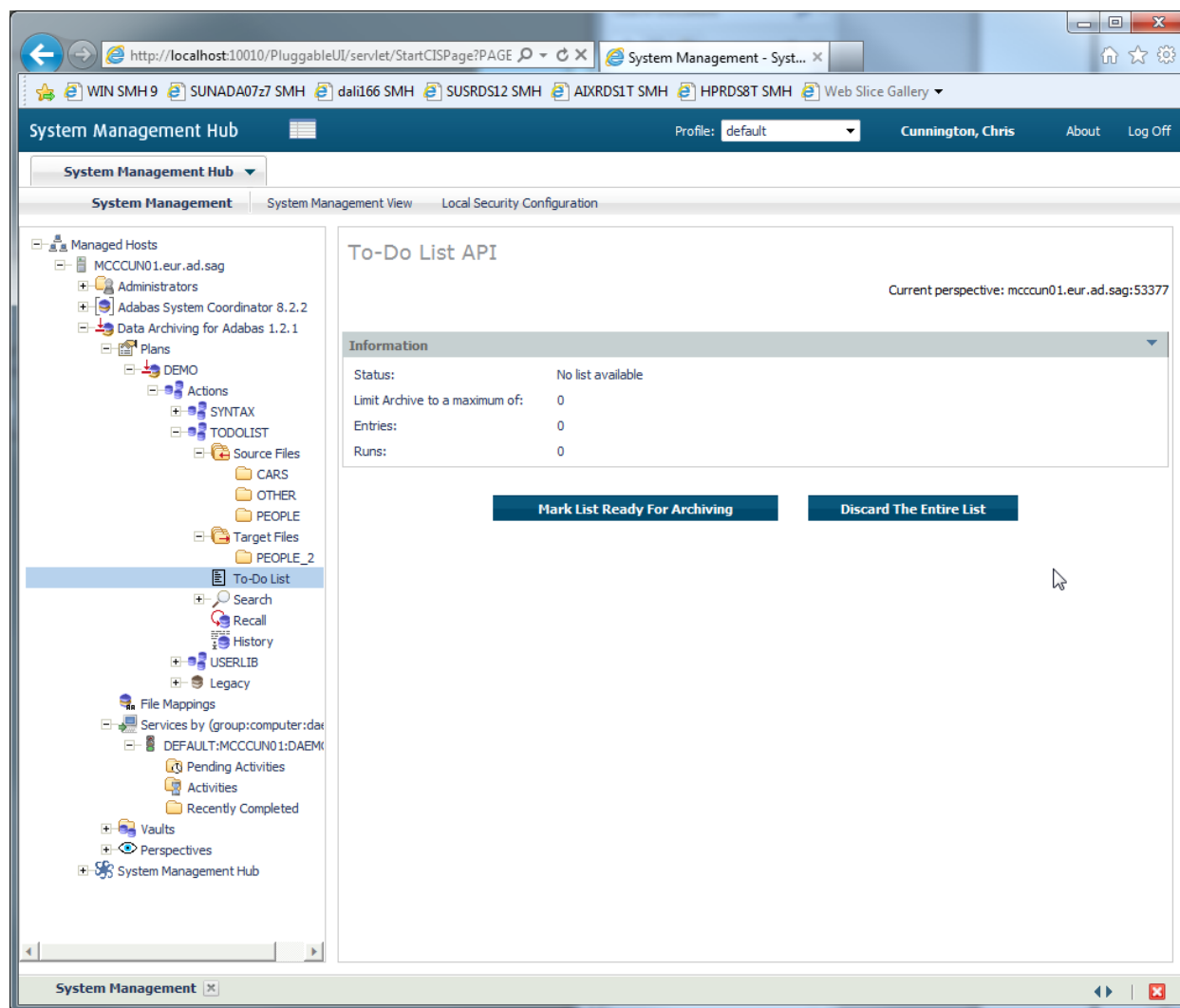
The table also includes a 'Current perspective: mcccun01.eur.ad.sag:53377' label. The bottom of the interface shows a 'System Management' tab and navigation controls.

### Action TODO LIST: Uses the API for Natural to generate an archive/transfer list

This action selects records for archive or transfer from a To-Do List generated by a Natural application that utilises the Data Archiving for Adabas Application Programming Interface.

Use of this action requires an INPL of the Natural library SYSADR. Refer to Application Programming Interface for more information on installing and using this interface.

Select the *To-Do List* node in the UI to view the current status of the To-Do list.

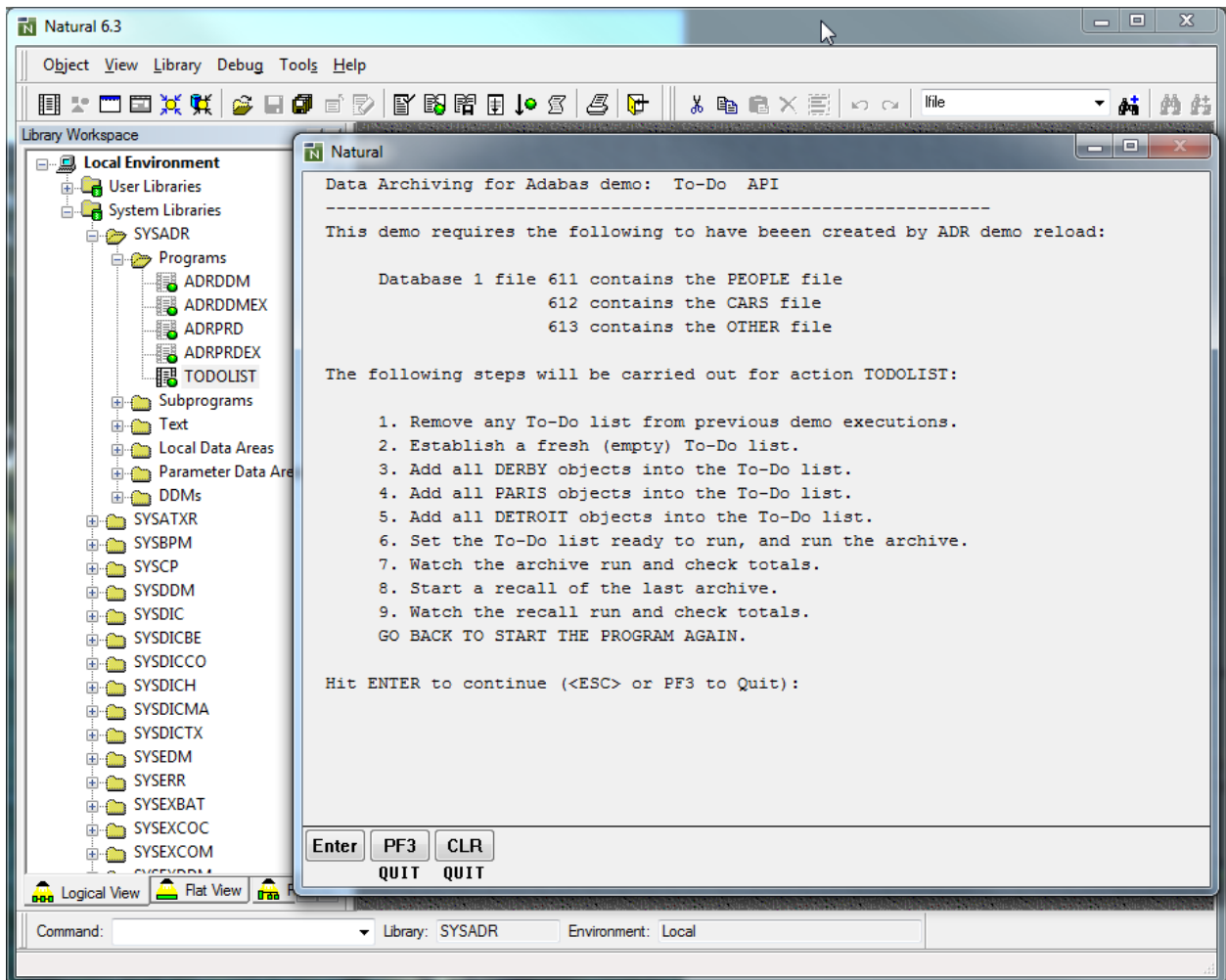


Now from Natural run the SYSADR/TODOLIST program. Unlike the previous SYNTAX demo where the action is run manually from the browser interface the TODOLIST demo is driven entirely from the Natural application using the Data Archiving for Adabas Application Programming Interface.

The TODOLIST program selects all the records from the PEOPLE file where the CITY field is DERBY, PARIS or DETROIT and archives a copy of the PEOPLE record to the Vault. It then transfers a copy the PEOPLE record to the PEOPLE\_2 file. Next it selects records from the CARS file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy the CARS record to the Vault. Finally it selects records from the OTHER file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy of the OTHER record to the Vault.

Follow the on screen prompts of the program and it will guide you through the creation, build-up of a To-Do List, automatically trigger the archive process and finally recall the archives back to Adabas files.

**Note:** The TODOLIST program recalls the archives back to database 2 files 611,612 & 613. If you wish to change the recall destination then locate the section */\* Set up the Recall files* and edit the values appropriately before running.

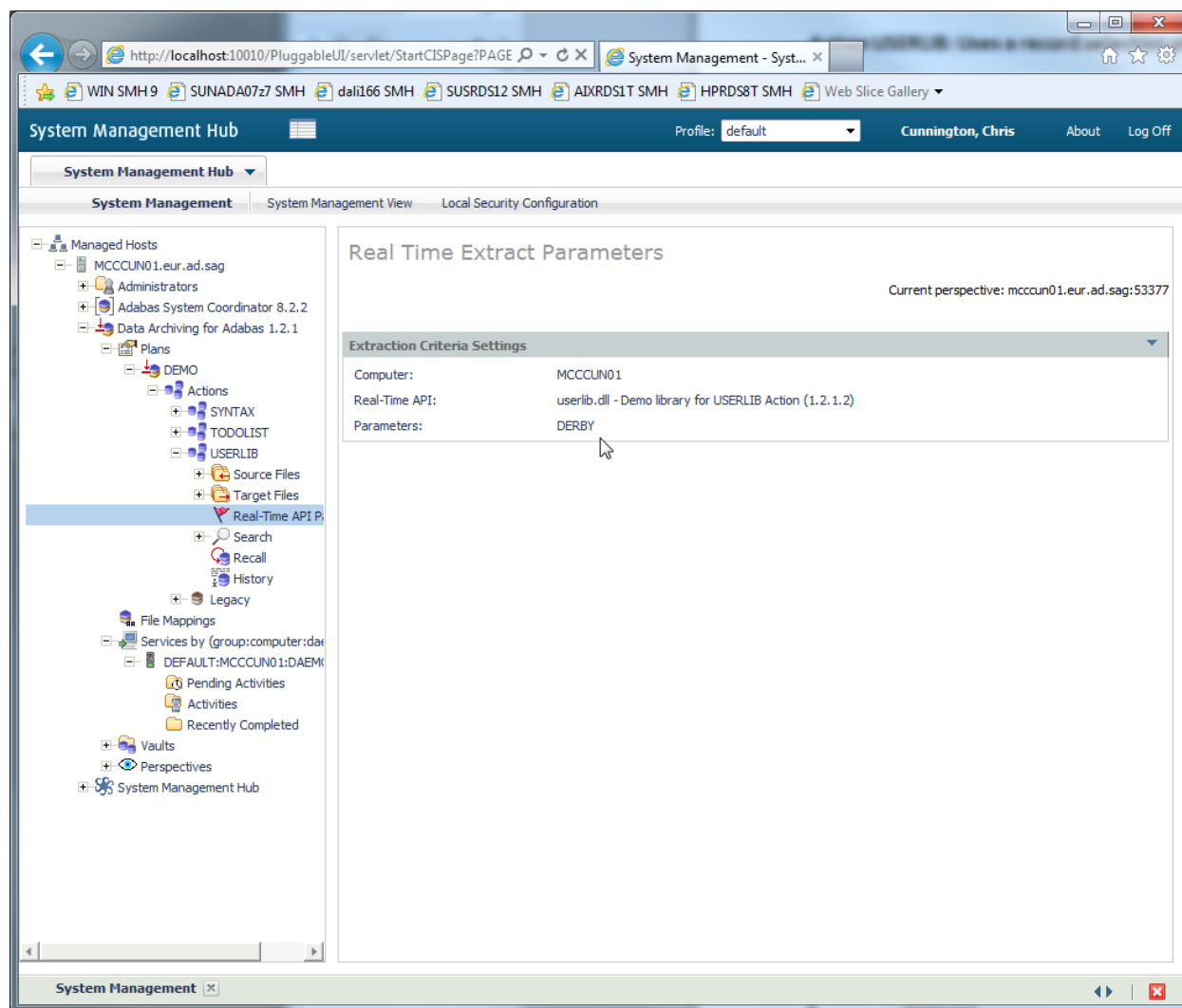


### Action USERLIB: Uses a record selection plug-in (User Lib/DLL)

For this action, record selection for archive or transfer is performed by a plug-in user Lib/DLL. The Lib/DLL has been created using the API for the C Programming Language.

For further details on creating your own User Library refer to the supplied Data Archiving for Adabas Application Programming Interface, API for the C Programming Language and the section titled *User-Lib Interface*.

Select the *Real-Time API Parameters* node in the UI to view the name of the User Lib that the action will call (*userlib.dll/libuserlib.so*) and the parameters that will be passed to it. In the case of this action, the string *DERBY* will be passed.



The User Lib *userlib.dll/libuserlib.so* selects all the records from the PEOPLE file where the CITY field is DERBY (the parameter passed to the user library) and archives a copy of the PEOPLE record to the Vault. It then transfers a copy the PEOPLE record to the PEOPLE\_2 file. Next it selects records from the CARS file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy the CARS record to the Vault. Finally it selects records from the OTHER file, where the PERSONNEL\_ID matches the PEOPLE record and archives a copy of the OTHER record to the Vault.

Follow the same process as the SYNTAX demo above to run and recall this action.