

Data Archiving for Adabas

Data Selection Methods

Version 1.5

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

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Data Selection Methods

The first step in any archival process is to identify what determines stale or inactive data. This is often a matter of subjective interpretation of business rules and is therefore best performed by the business lines whose data is under scrutiny.

The next step is to define the collection of records, perhaps spread across multiple databases and files, which relate to the inactive data. Data Archiving for Adabas describes such a collection of records as a business object.

Once such business objects can be identified, the next step is to choose the most efficient means of selecting these objects. Data Archiving for Adabas offers three different data selection methods:

- **Extraction Syntax**
- **User Generated Archive/Transfer Lists (To-Do Lists)**
- **Record Selection Plug-Ins (User Library)**

Extraction Syntax

This method uses a simple scripting language to allow you to select business objects and to perform the archiving/transfer actions to be taken on those objects.

For detailed information refer to the *ADRExtractionSyntaxReference.pdf* document located in the product's sdk/doc directory.

Some simple introductory examples on how to use the syntax can be seen here *Extraction Syntax Examples*.

User Generated Archive/Transfer Lists (To-Do Lists)

This method allows you to select business objects with your own custom applications (written in Natural or C programming language) using the Data Archiving for Adabas *Application Programming Interface*. The application programming interface enables the ability to 'stage' selected business objects in a repository file, an Action is then run which references these staged business objects and performs the appropriate archiving /transfer operations. Refer to *Data Selection Mode* for information on how to define an Action to run in To-Do list mode.

Record Selection Plug-Ins (User Library)

This method allows you to create a C programming language plug-in which, in conjunction with the Data Archiving for Adabas *Application Programming Interface*, provides business objects at runtime when requested by the Data Archiving Service Extractor process. Refer to *Data Selection Mode* for information on how to define an Action to run in User Library mode.

1 Extraction Syntax Examples

Archive all records from a single Source File

```
EXTRACT PEOPLE(*)
{
  ARCHIVE MOVE PEOPLE [*];
}
```

In the above example the business object represents a single file and the Extraction Syntax simply archives all the records from the PEOPLE Source File.

Archive selected records from a single Source File

```
EXTRACT PEOPLE(PEOPLE.CITY == "DERBY")
{
  ARCHIVE MOVE PEOPLE [*];
}
```

In the above example the business object represents a single file and the Extraction Syntax selects all the records from the PEOPLE Source File where the CITY field equals DERBY and archives the records.

Archive and Transfer selected records from multiple related Source Files

```
EXTRACT PEOPLE(PEOPLE.CITY == ["DERBY", "PARIS", "DETROIT"])
{
  EXTRACT CARS(CARS.PERSONNEL_ID == PEOPLE.PERSONNEL_ID)
  {
    ARCHIVE MOVE CARS[*];
  }

  EXTRACT OTHER(OTHER.PERSONNEL_ID== PEOPLE.PERSONNEL_ID)
  {
    ARCHIVE MOVE OTHER[*];
  }
}
```

```
}  
TRANSFER PEOPLE[*] TO PEOPLE_2;  
ARCHIVE MOVE PEOPLE[*];  
}
```

In the above example the business object represents a person and the Extraction Syntax processes all the records related to a person selected from 3 related Source Files CARS, PEOPLE and OTHER, as follows:

1. The Extraction Syntax first finds all the records from the PEOPLE Source File belonging to everyone that lives in Derby, Paris or Detroit.
2. It then selects all the records from the CARS Source File where the PERSONNEL_ID field matches and archives the CARS record.
3. All the records from the OTHER Source File where the PERSONNEL_ID field matches are then selected and the OTHER record archived.
4. Finally the selected record from the PEOPLE Source file is transferred to the Adabas Target File PEOPLE_2 and then archived.