



# fSeries Audit Logging

fSeries includes comprehensive methods for protecting your data from those who should not have access to it, right down to individual fields. However, sometimes you want to make data available but know who has seen it.

The Audit Log can record details of who has seen what, when and in what form. The audit log data records the following information:

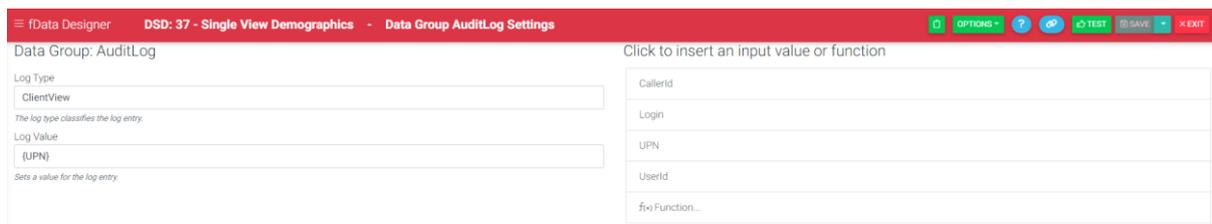
- When the data was accessed
- User Id of the person accessing it
- The DSD used to gather the data
- The Data Group used to log the data
- The Context of the data access (e.g. fPanels, fDocs)
- Context Id – the id of the dashboard, template, etc
- Context Data – e.g. the name of the dashboard, template, etc
- Log Type – a code for the type of action, e.g. 'ClientView'
- Log Value – identifies the actual item viewed, e.g. the client id

In addition, specific values may be recorded from the data itself to further identify the data viewed. For example you may wish to record the client's name. This makes it easier to see what a user has seen.

The Audit Log data is held in the fSeries database.

## Recording Logs

Logging is done as part of the data gathering process in a DSD. A special data group type called "Audit Log" records the information.



The main settings are just Log Type and Log Value. In this example the log type is "ClientView" and the log value is the input value UPN. This will log each access of the client details, recording it as a ClientView type of log and recording the UPN of the individual client (set using the list of available values to the right of the page).

The date, user, DSD and context data are all recorded automatically.

If you want to record extra details, go to the Data Items option for the data group. Each data item you add will be recorded as Audit Data. This is held in a JSON string against the audit log record. There is no limit to the data recorded in this way.

Now, whenever the DSD is used to gather data into any output or for any reason, its use will be recorded in the audit log.



## Conditional Logging

You may wish to only record the log in certain circumstances, such as if the client's age is under 18.

Use the data group's "Execute If" function to switch on/off the Audit Log data group as appropriate. This can be found in the data group's General option.

## Multiple Logs

If you need to record more than one log, simply add more Audit Log data groups. For example, the DSD may contain client information and information about their school, and you need to log both.

There is no limit to the number of logs per DSD and they are all independent of each other in terms of content and conditions.

## Accessing the Log

The audit log is accessed using the Audit Data data group type in a DSD. It can then be output using fDocs, fSheets or fPanels in the same way as any other data group's contents.

## Grouping

Data may be gathered in full detail or grouped by one of these specific fields:

- User Id
- Caller Id
- DSD
- Context (e.g. fDocs, fPanels, etc.)
- Context Data (e.g. template or dashboard name)
- Log Type
- Log Name

If grouped, the data will contain only this field and last date/time found for each value of the field. So for example, this would show the last access made by each user.

## Criteria

The data gathered can be selected by the following criteria:

- From Date
- To Date
- User Id
- Caller Id
- DSD
- Context (e.g. fDocs, fPanels, etc.)
- Context Id (e.g. template or dashboard id)
- Log Type
- Log Value

In each case (except DSD) the value may be set by using the input values or a function. For example, the Log Value could be set to {UPN} to include only logs for the UPN value entered by the user when opening the dashboard.



## Audit Data

If the data group is gathering full details (i.e. it's not grouped by a specific field) you can include Audit Data. This is data added to the log by including data items in the data group.

There are two ways to include Audit Data.

### Specific Data Fields

Enter a comma separated list of the field ids (the ids of the data items).

Each of the fields specified will be added as a column in the gathered data.

Note that the audit data may be different for different logs and so not all fields will result in data.

### All Data

Check the box to include all data, which will be included as a single text value with line breaks for each field. This is useful to show all of the data in all logs.