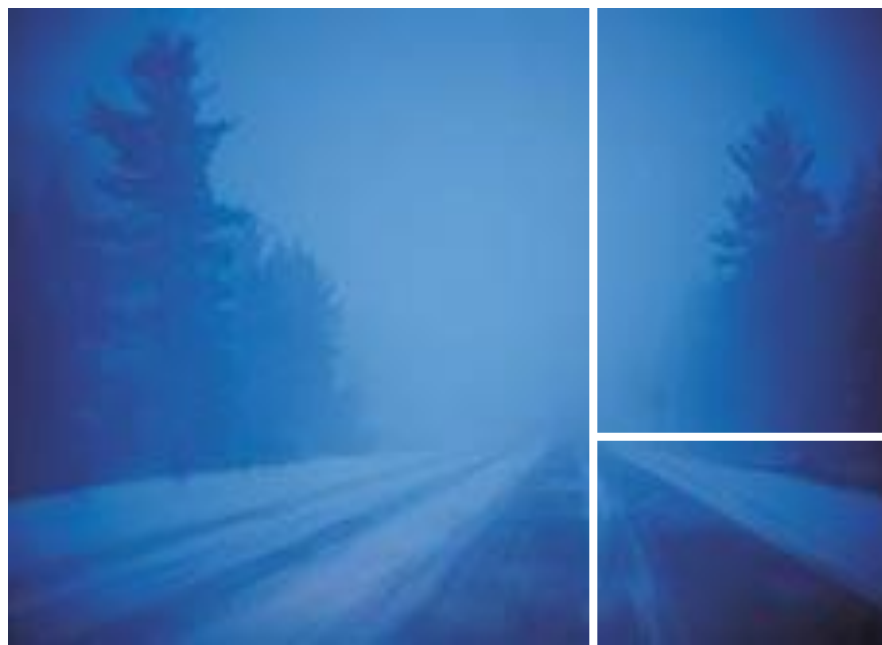




Exor Corporation Limited



Document Manager System Admin v4.3



***The Global Leader in
Infrastructure Asset Management***



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Quality Assurance Statement

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CHAPTER

1

Document Manager

Figure 1
Document Manager
Menu



This chapter describes the forms that are used for managing documents held within the **Exor** database. They are the following forms:

- Document Locations and Media Types - DOC0118
- Document Types / Classes / Enquiry Types - DOC0110
- Document Gateways - DOC0130
- Documents - DOC0100

- Circulation by Person - DOC0114
- Circulation by Document - DOC0115

The form description provides you with detailed information about the Document Manager forms in **Exor**, including:

- an overall description of the form.
- a detailed explanation of each field, including available features (such as List of Values), default values and other characteristics.
- Helpful information for using the form.

General Information

Document Manager by Exor allows for the definition, storage, management and retrieval of documents of any media type (e.g. CAD photographs, video). It provides a simple and user-friendly method of integrating multi-media into user applications. Document Manager also allows the user to extend the current reporting features within **Exor** by providing user configurable templates for use in Microsoft Word.

Document Manager integrates with all the other modules in the **Exor** product set allowing the user to associate documents with any information in the database. It can also be used in conjunction with any Oracle based application and, because of its open design, can use any image management or Geographical Information System to store pictures or graphic representations. **Document Manager** provides a simple, cost-effective entry-level document management system.

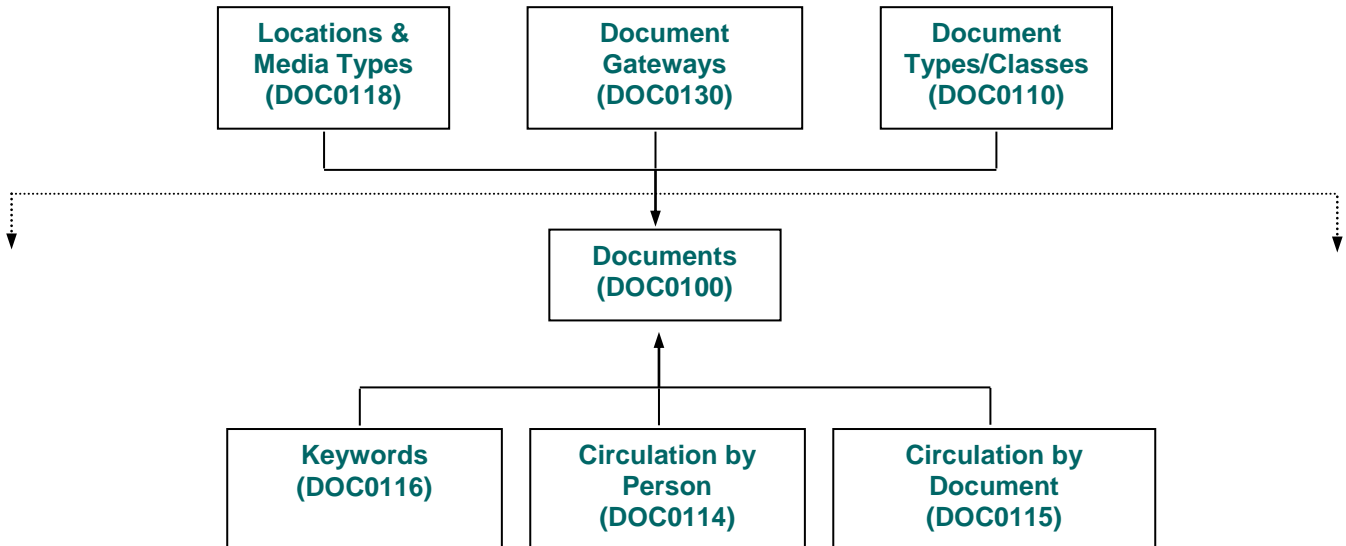
Within **Document Manager** the user is free to define document types in a flexible manner that allows the system to change over time in line with user requirements. Once defined, documents may be associated with multiple database objects for efficient management of information. For example the same scanned photograph could be stored against a section of the network and an Asset Item in **Asset Manager**, as well as against defects in **Maintenance Manager by Exor**. Also video footage could be associated with a span of a bridge in **structures manager by Exor** that also has links to scanned construction drawings, inspectors' comments and scanned photographs. In addition **Document Manager** can be used very effectively with **Enquiry Manager by Exor** for the storage of letters providing for the efficient monitoring of public complaints.

Document Manager also enables users to create and define their own report templates, using Microsoft Word. These templates can be used to print data relating to any object in the **Exor** database in a user-defined format. The resulting Word document is automatically linked, as a new document, to the database object for future reference. This facility also allows the user to define a number of different templates against the same database object to cater for varying report styles and operational outputs. Typical uses are the production of standard responses to letters of complaint or enquiry from the public and the production of user-defined works order forms.

Document Manager also provides facilities to track documents through an organisation and to monitor who has responsibility for a given document at a given point in time. This feature can be used for quality management processes such as ISO9001.

Prerequisites

The flow diagram below indicates the information that needs to be set up prior to using **Document Manager**.



New documents may be created in **Documents - DOC0100** or by using the **[Create from New]** button on the **Document Associations** Window (see Document Manager User Guide).

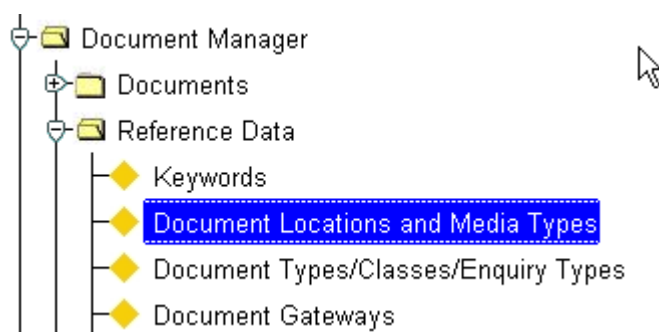
Product / User Options

The following user option needs to be set:

WORKFOLDER this option needs to be defined to point to a local directory on the client PC. This will be used as a temporary working area for file transfers between client PC and Document Location (WebUtil). Files will persist in these areas and may require clearing out on occasion.

Document Locations and Media Types – DOC0118

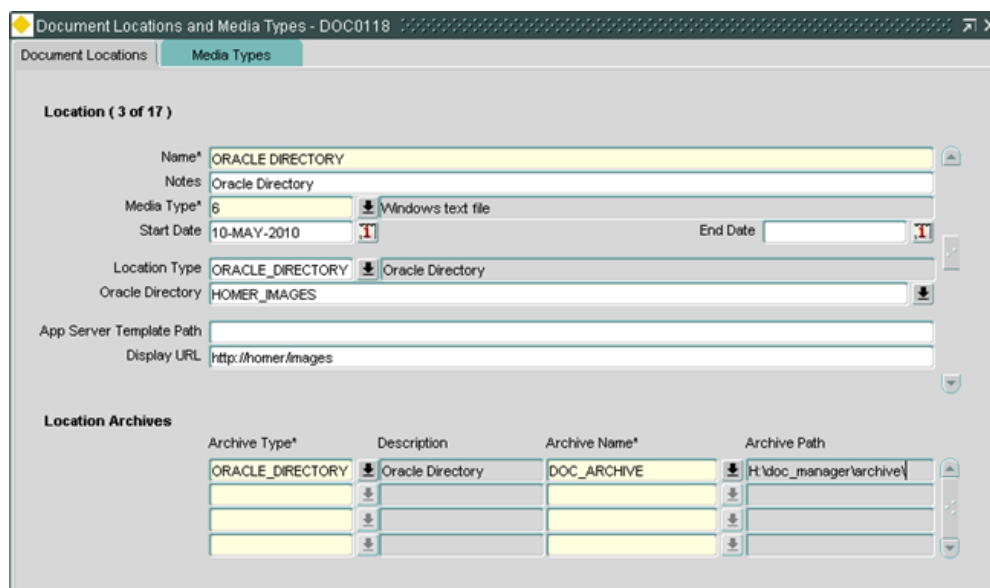
Figure 2
Document
Locations and
Media Types
Menu Option



This module is used to specify the different forms of media (scanned photographs, video clips, word documents etc.), the client software needed to display, manipulate or scan the document and where the documents are located on your system.

Each type of media may have more than one location if necessary. For example, this would allow the scanned photographs of bridges to be located in a different location than scanned photographs of defects.

Figure 3
Document Locations



Archive Type*	Description	Archive Name*	Archive Path
ORACLE_DIRECTORY	Oracle Directory	DOC_ARCHIVE	H:\doc_manager\archive\

Document Locations

When you enter this form the cursor sits in the Name field waiting for you to enter the media name e.g. scanned photos. To display existing data press **[Enter Query]** or press **[F7]**, enter your selection criteria, then press **[Execute Query]** or press **[F8]**.

Name	(Required)	
Enter the unique name of the media type.		
Notes	(Optional)	
Enter a description of the document location, for example, Insurance Documents.		
Media Type	(Required)	List
Enter the type of document stored in this location, the media types are defined in the Media Types tab (Figure 8).		
Start Date	(Optional)	
Enter a start date for the document location		
End Date	(Optional)	
To stop using this location enter an end date		
Location Type	(Required)	List
Enter a location type, this may be one of the following:		
<ul style="list-style-type: none"> • Application Server • Database Server • Oracle Directory • Database Table 		
Location Field	(Required)	List
Depending on the Document Location Type this label will change to reflect the area which the Documents are to be stored, i.e. "Oracle Directory", "Table Name" etc. Details are shown below:		

Fields on the form change accordingly when choosing Location Type –

Figure 4
Application
Server Location

Application Server

Location Type	APP_SERVER	Application Server
Application Server Path	e:\images	
App Server Template Path	e:\document_templates	
Display URL	http://appserver1/images	

Application Server locations are locations which are based on the Forms Server.

A MS Word Document template can be used to generate these documents (where appropriate) and this path must exist on the Application Server. The document location can be made available via a URL (web alias) in the Display URL field.

Figure 5
Database Server
Location

Database Server

Location Type	DB_SERVER	Database Server
Database Server Path	/usr1/download/documents	
App Server Template Path	e:\document_templates	
Display URL	http://dbserver1/images	

Database Server locations are locations which are based on the Database Server.

A MS Word Document template can be used to generate these documents (where appropriate) and this path must exist on the Application Server. The document location can be made available via a URL (web alias) in the Display URL field.

Figure 6
Oracle Directory
Location

Oracle Directory

Location Type	ORACLE_DIRECTORY	Oracle Directory
Oracle Directory	TESTDIR	
App Server Template Path	e:\document_templates	
Display URL	http://dbserver1/images2	

Oracle Directory locations are locations which are based on an Oracle Directory. The Oracle Directory must exist as a High Directory. Oracle Directories can be configured to point to a file location on the Database Server, or to any Server on the network which the Database Server has full read/write/delete access to.

A MS Word Document template can be used to generate these documents (where appropriate) and this path must exist on the Application Server. The document location can be made available via a URL (web alias). If the High Directory has the URL attribute set, the Display URL field should default to this.

Figure 7
Database Table
Location

Database Table

Location Type	TABLE	Database Table
Table Name	IMAGE_TABLE	
App Server Template Path	e:\document_templates	
Display URL (DAD Based)	http://apacheserver1/quartz/doc_locations_api.get_doc_image?pi_doc_id=	

Database Table locations are locations which are based on an Oracle Table within the Highways schema. The tables must conform to a certain table column specification which is defined in the **Document Location Configuration** section. An existing table can be chosen, or a new table can be created from this Form.

A MS Word Document template can be used to generate these documents (where appropriate) and this path must exist on the Application Server. The document location can be made available via a URL, however this must be defined using a DAD. Pressing the LOV button will automatically lookup the URL from the NM3WEBHOST system options.

App Server Template Path (Optional) List

If a Document Template File is used (*.DOT) then this path must be set to say where the DOT file is stored.

This **MUST** be on the Application Server as this is how Templates are currently generated using OLE in the Oracle Forms.

Display URL (Optional)

If the Document Location is available via a URL, then this is where it the URL is set.

Note, if the Document Location is based on an Oracle Directory, this URL will default to the URL set against the Hig Directories record (if set).

Locations Archives

Archive destination cans be configured. When loading a document into the system using the application, you can define one or more Archive locations where a copy of the document is stored. However, there is no synchronisation between the archives and Document location.

If, for whatever reason, a Location Archive becomes unavailable, the document loading process will carry on without failure but no archiving will take place.

Archive Type (Required)

This is currently restricted to Oracle Directories, a description of the archive type will be displayed in the adjacent field.

Archive Name (Required) List

Enter an existing Oracle Directory name, the Archive path will be displayed in the adjacent field.

Archives Configuration

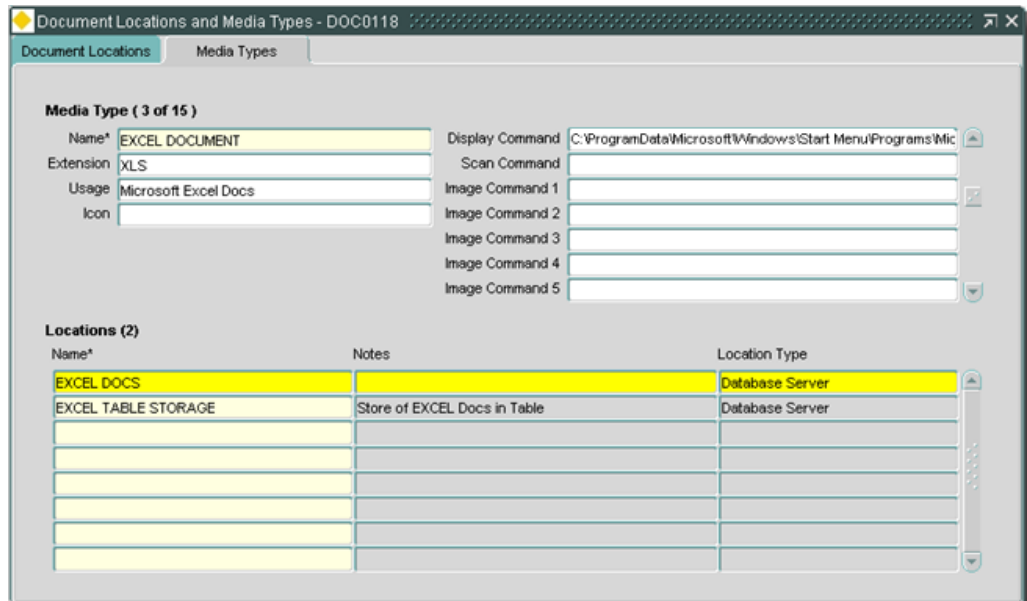
For each Document Location, you can setup one or more optional Archiving Location. This means that when a Document is loaded either through **Documents - DOC0100**, **Document Associations - DOC0120** or the **Document Bundle Loader** a copy of the file loaded will also be placed on the archive location.

If the files in the archives are changed by a 3rd party, at the moment there is no synchronization with the main Document Location and/or other archives.

You can have one or many Location archives defined, these locations must be Oracle Directories.

The archiving process will not stop the load if it fails.

Figure 8
Media Types Tab



Media Type (3 of 15)

Name*	EXCEL DOCUMENT	Display Command	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Mic
Extension	XLS	Scan Command	
Usage	Microsoft Excel Docs	Image Command 1	
Icon		Image Command 2	
		Image Command 3	
		Image Command 4	
		Image Command 5	

Locations (2)

Name*	Notes	Location Type
EXCEL DOCS		Database Server
EXCEL TABLE STORAGE	Store of EXCEL Docs in Table	Database Server

Media Types Tab

Archive destination can be configured. When loading a document into the system using the application, you can define one or more Archive locations where a copy of the document is stored. However, there is no synchronisation between the archives and Document location.

If, for whatever reason, a Location Archive becomes unavailable, the document loading process will carry on without failure but no archiving will take place.

Name (Required)

Enter the unique name of the media type.

Extension (Optional)

Enter the file extension e.g..DOC or .GIF for this type of media

This field is used in the File Picker which helps filter the files you are choosing to load from the client.

Usage (Optional)

Enter a description for the media.

Icon (Optional)

Enter the icon name that is to be used for this media type.

Display Command (Optional)

Enter the full hierarchical path of the PC-resident tool you wish to use to display media of this type.

Note that if the environment variable PATH specifies the location of the display tool you do not need to enter the full hierarchical path.

Scan Command (Optional)

Enter the full hierarchical path of the PC-resident tool you wish to use to scan images.

Note that if the environment variable **PATH** specifies the location of the display tool you do not need to enter the full hierarchical path.

Image Command 1 -5 (Optional)

Enter other operating system commands that may be used for this media type, e.g. for a media type of ASCII you may have an edit command and a print command.

Locations

The information displayed here is read only and shows the document locations used for the associated media type.

Document Location Configuration

This section describes how to configure the different types of document locations specified in the **Document Locations and Media Types – DOC0118**

Database Table Location Type

To setup a Document Location based on type “TABLE – Database Table”, you can either use an existing table, or **Document Locations and Media Types - DOC0118** can create one for you.

Existing Table

To use an existing table it must be created to the following standard:

Figure 9
Existing Table
Format

COL_NAME	COLUMN_ID	NULLABLE	DATA_TYPE
<Max 4 character prefix>_DOC_ID	1	N	NUMBER
<Max 4 character prefix>_REVISION	2	N	NUMBER
<Max 4 character prefix>_START_DATE	3	N	DATE
<Max 4 character prefix>_END_DATE	4	Y	DATE
<Max 4 character prefix>_FULL_PATH	5	Y	VARCHAR2
<Max 4 character prefix>_FILENAME	6	N	VARCHAR2
<Max 4 character prefix>_CONTENT	7	Y	BLOB
<Max 4 character prefix>_AUDIT	8	Y	VARCHAR2
<Max 4 character prefix>_FILE_INFO	9	Y	VARCHAR2

The columns in the table must follow the naming convention:

<Max 4 character prefix>_NAME, for example:

- EXCL_DOC_ID
- or
- AN_DOC_ID

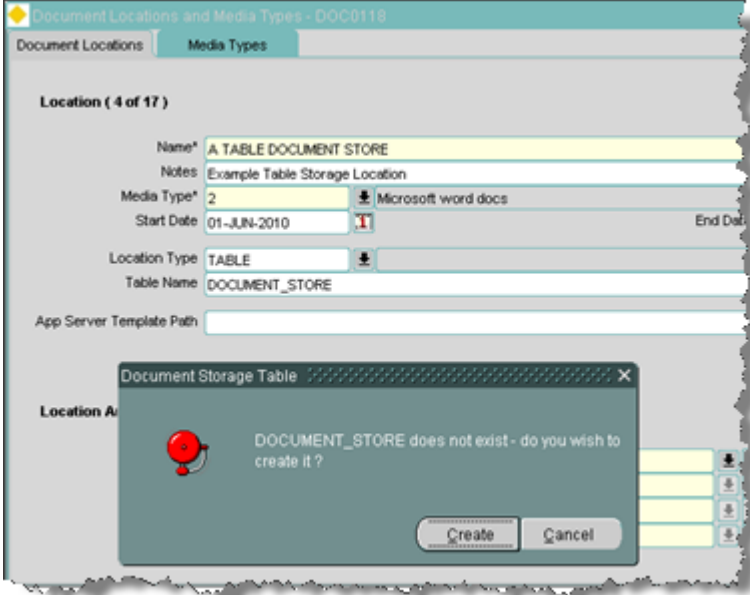
When you want to use an existing table, the LOV will return all tables with a BLOB column defined. It, however, does NOT validate the columns on the table for compatibility with this table specification at the time the list is generated.

However, when the Document Location is committed, the table will be validated for compatibility

Create New Table


When you don't already have a storage table setup, you can use **Document Locations and Media Types - DOC0118** to create one for you. Simply enter the name of the table in the 'Table Name' field, and fill in the rest of the fields. Upon Commit, the form will display the following confirmation message:

Figure 10
Create New
Table



When you click on "Create" you will be prompted the following:

Figure 11
Document
Storage Table



Column Prefix (Required)

Enter a maximum of 4 characters for a column prefix.

Default Tablespace (Required)

Enter the tablespace for the new table. This will default to the same tablespace your User is in.

Press [Commit] to finish the Document Location table creation.
Press [Cancel] to exit.

Database Server Location Type

When setting up a Document Location which points at a Database Server Path, choose 'DB_SERVER – Database Server' as a Location Type.

Enter the path to the database server location in the 'Database Server Path' field.

Optionally add a Template and URL if applicable.

The database path must be accessible by UTL_FILE_DIR parameter on the database itself.

Oracle Directory Location Type

When setting up a Document Location which points at an Oracle Directory, choose 'ORACLE_DIRECTORY – Oracle Directory' as a Location Type.

Enter the name of the Oracle Directory in the 'Oracle Directory' field. This HAS to exist as an HIG_DIRECTORY, as configured in **Directories - HIG1895**.

Optionally add a Template and URL if applicable. If a URL is set on **Directories - HIG1895** in the Miscellaneous tab, it will default here.

The Oracle Directory must be setup to a path on a server for which you have Read/Write access. It is important that access is allowed, otherwise transfers to Document Locations of this nature will encounter problems.

The main advantage of using an Oracle Directory is that you can create one to write away to virtually any machine you have access to on the Network.

Application Server Location Type

There is an option to read and write files directly to the Application Server. This is a fairly restrictive Document Location Type in the sense that it can only really be used via the Forms.

The Document Bundle Loader will **NOT** be able to load files into any Document Location defined as 'APP_SERVER – Application Server Path'

The reason behind this is access, when moving files around using pure PL/SQL routines, you need to have a path available to write to via UTL_FILE_DIR or an Oracle Directory. Some of the later dbms_lob code used only works with Oracle Directories.

Therefore, the best approach is to define the path to the Application Server from the Database Server as an Oracle Directory.

Only WebUtil (the way the Forms move the files around) can easily write to and from the Application Server

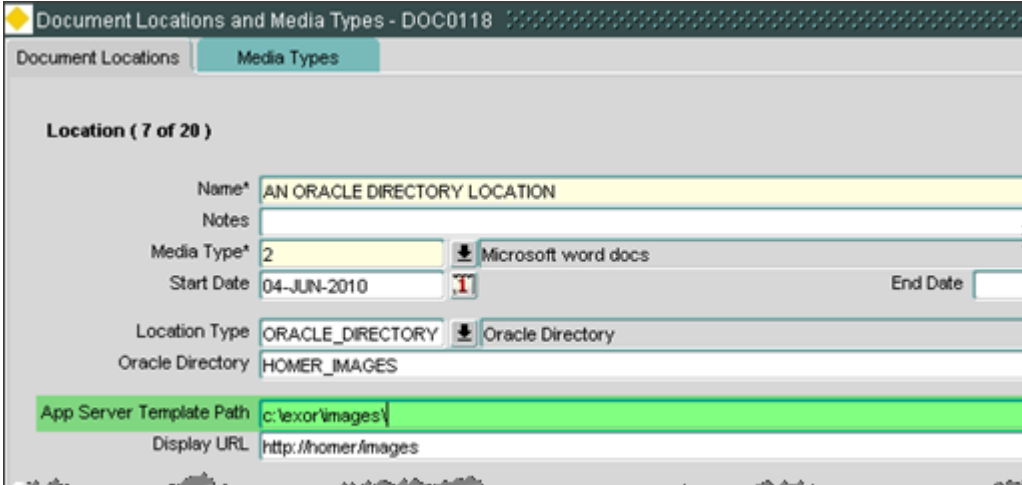
Template Configuration

The Microsoft Word Template files must exist on the Application Server due to the OLE technology used in the Forms libraries.

The resultant .DOC files will be moved onto the Document Location upon creation.

The Document Location must be setup with the path to the Template .DOT file as shown below:

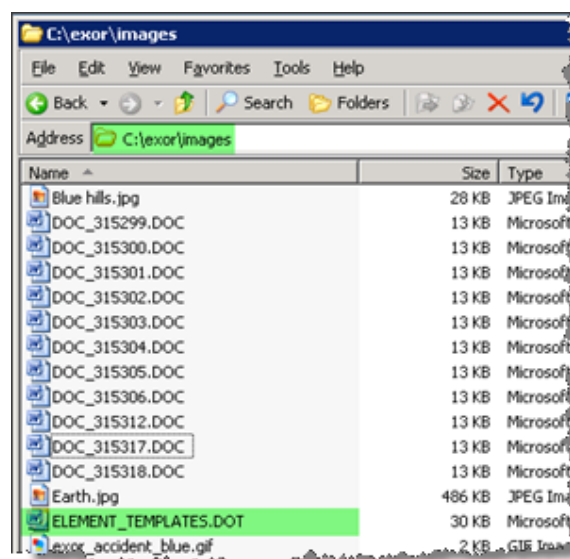
Figure 12
Template
Configuration



This must be a directory on the Application Server, and must be suffixed with the backslash trailing directory separator '\.

Therefore on the Application Server, the template file must exist in the path shown above:

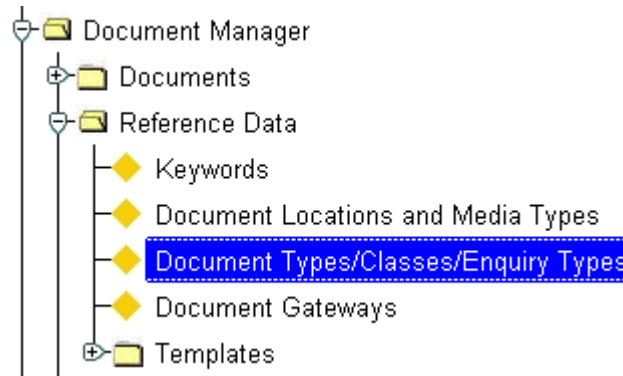
Figure 13
Template
File



The Template file will be written out to the Document Location, i.e. Table or Database Server, and a copy will also optionally be placed into the Archive area.

Document Types / Classes / Enquiry Types - DOC0110

Figure 14
Document Types
Menu Option



The **Document Types/Classes/Enquiry Types – DOC0110** module is used to define different types of Documents that will be available within the system. A Document Type is a way of identifying documents of a similar nature.

Within **Enquiry Manager by Exor** Document Types are used as the Enquiry Category e.g. 'Complaint' or 'Correspondence'. Each of these Enquiry Categories may have many associated Enquiry Classes each with its own Enquiry Types. For example, an Enquiry Category of 'Complaint' may have Enquiry Classes of 'Formal' and 'Informal'. Each of these Classes may be further defined by the Enquiry Type that allows the nature of the Enquiry to be recorded. For example, the Enquiry Class 'Formal', may have Enquiry Types such as 'Pothole', 'Drainage' etc, describing the broad nature of the complaint.

A combination of Enquiry Category, Enquiry Class and Enquiry Type may be used to generate Standard Actions, which must be undertaken, when an Enquiry is logged or amended (see the Enquiry Manager User and System Admin Guides for more information on Standard Actions).

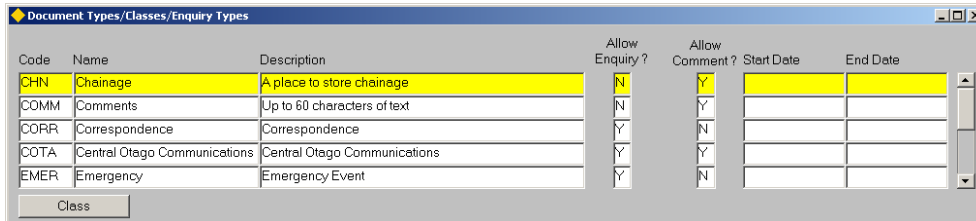
If Defects are raised directly from **Enquiry Manager** a combination of the Enquiry Category and Enquiry Type are used to associate the Enquiry with a Defect Type and Treatment. This is done using **Enquiry/Treatment types - MAI1320**. Product Option **ENQSTODEF** must be set to 'Y' to allow Defects to be raised directly from an Enquiry.

A Works Contract may be associated with an Enquiry Type that allows Contract Items and quantities to be added to an Enquiry whenever the appropriate Enquiry Type is selected. This allows costs etc to be calculated for any Works associated with the Enquiry.

The default Category, Class and Type for a new Enquiry are defined using Product / User Options **ENQCAT**, **ENQCLASS** and **ENQDEFENQT** respectively.

Note that if a document type is to be used within Enquiry Manager the 'Allow Complaint' flag must be set to 'Y'.

Figure 15
Document Types
/ Classes / Enquiry Types



Code	Name	Description	Allow Enquiry?	Allow Comment?	Start Date	End Date
CHN	Chainage	A place to store chainage	N	Y		
COMM	Comments	Up to 60 characters of text	N	Y		
CORR	Correspondence	Correspondence	Y	N		
COTA	Central Otago Communications	Central Otago Communications	Y	Y		
EMER	Emergency	Emergency Event	Y	N		

Document Types

When you enter this form all existing Document Types will be automatically displayed. To create a new Document Type press the **[Create Record]** or press **[F6]**.

Type Code (Required)

Enter a unique value for the Document/Enquiry Type code. A maximum of 4 characters is allowed.

Type Name (Required)

Enter a value for the Document/Enquiry Type name. A maximum of 30 characters is allowed.

Description (Optional)

Enter the description of the document type.

Allow Enquiry? (Required)

Enter 'Y' if this Document Type relates to **Enquiry Manager**. If set to 'Y' this Category will be available for selection in the **Enquiry – DOC0150** module. Set to 'N' for use with Document Manager.

Note that if this field is flagged with a 'Y', this Document Type will not be available when creating a Document using the 'Document' - DOC0100 module but may be selected when creating a Document Association using the [Document] button on the Forms menu toolbar. For further information on Document Manager refer to the Document Manager User and Admin Guides.

Allow Comment? (Required)

Enter 'Y' if this Document Type relates to the storage of comments. Otherwise enter 'N'.

Note that if this field is flagged with a 'Y', this Document Type will not be available when creating a document using the 'Document' - DOC0100' form. Document Comments are entered in the 'Title Field' of the Document Associations – DOC0120 form called from 'host modules' by pressing the [Documents] button on the forms menu toolbar.

Start Date (Optional)

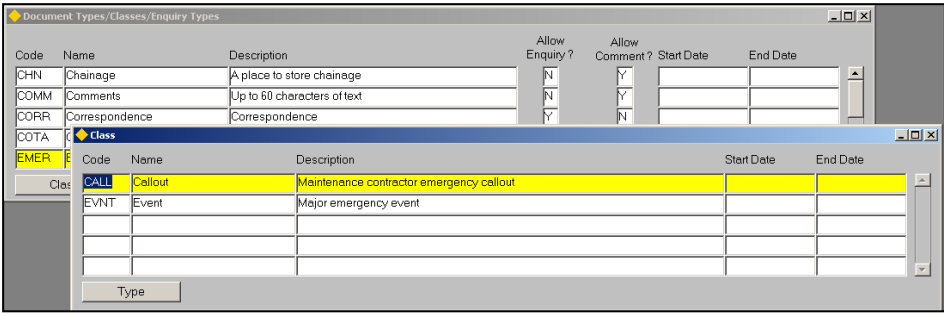
Enter the start date for the Document Type. The Document Type will not be valid before this date and will therefore not appear on any List of values.

End Date **(Optional)**

Enter the date this Document Type is no longer valid. The Document Type will not be valid after this date and will therefore not appear on any List of values.

To define Enquiry Classes for an Enquiry Category press the [**Class**] button.

Figure 16
Class



Code	Name	Description	Allow Enquiry?	Allow Comment?	Start Date	End Date
CHN	Chainage	A place to store chainage	N	Y		
COMM	Comments	Up to 60 characters of text	N	Y		
CORR	Correspondence	Correspondence	Y	N		
COTA						
EMER						

Code	Name	Description	Start Date	End Date
CALL	Callout	Maintenance contractor emergency callout		
EVNT	Event	Major emergency event		

Class

This panel is used to create Enquiry Class for the associated Enquiry Category. The Enquiry Class is used as a factor for generating Standard Actions and is also used for defining which Enquiries are subject to the conditions imposed under the WOOLF report (dependent on Product Option ENQWLFCLAS).

When you enter this form any Enquiry Classes already created for the selected Enquiry Category will be displayed. To add a new Enquiry Class press the **[Create Record]** button on the toolbar or press the **[F6]** key.

Code (Required)
Enter a code for the Enquiry Class. A maximum of 4 characters is allowed.

Name (Required)
Enter a name for the Enquiry Class. A maximum of 30 characters is allowed.

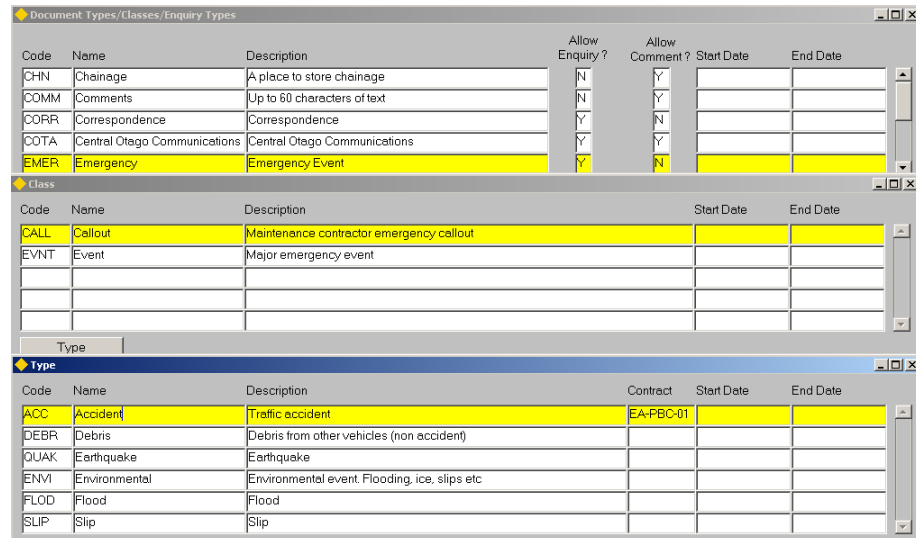
Description (Optional)
If required enter a description for the Enquiry Class

Start End (Optional)
Enter the start date for the Enquiry Class. The Enquiry Class will not be valid before this date and will therefore not appear on any List of values.

End Date (Optional)
Enter the date this Document Type is no longer valid. The Enquiry Class will not be valid after this date and will therefore not appear on any List of values.

To define Enquiry Types for an Enquiry Class press the **[Types]** button (page22).

Figure 17
Enquiry Types



The screenshot shows a software window titled 'Document Types/Classes/Enquiry Types' with three tabs: Document, Class, and Type. The 'Document' tab is active, showing a table with columns: Code, Name, Description, Allow Enquiry?, Allow Comment?, Start Date, and End Date. The 'Class' tab shows a table with columns: Code, Name, Description, Start Date, and End Date. The 'Type' tab shows a table with columns: Code, Name, Description, Contract, Start Date, and End Date.

Code	Name	Description	Allow Enquiry?	Allow Comment?	Start Date	End Date
CHN	Chainage	A place to store chainage	N	Y		
COMM	Comments	Up to 60 characters of text	N	Y		
CORR	Correspondence	Correspondence	Y	N		
COTA	Central Otago Communications	Central Otago Communications	Y	Y		
EMER	Emergency	Emergency Event	Y	N		

Code	Name	Description	Start Date	End Date
CALL	Callout	Maintenance contractor emergency callout		
EVNT	Event	Major emergency event		

Code	Name	Description	Contract	Start Date	End Date
ACC	Accident	Traffic accident	EA-PBC-01		
DEBR	Debris	Debris from other vehicles (non accident)			
QUAK	Earthquake	Earthquake			
ENVI	Environmental	Environmental event. Flooding, ice, slips etc			
FLOD	Flood	Flood			
SLIP	Slip	Slip			

Type

This panel is used to create Enquiry Types for the associated Enquiry Class / Category combination. The Enquiry Type is used as a factor for generating Standard Actions and is also used for associating an Enquiry with a Defect Type and Treatment if defects are raised directly from the Enquiry module.

Note that Enquiry Types can only be created for Document Types which have the 'Allow Complaint' flag set to 'Y'.

Code (Required)

Enter a code for the Enquiry Type. A maximum of 4 characters is allowed.

Name (Required)

Enter a name for the Enquiry Type. A maximum of 30 characters is allowed.

Description (Optional)

If required, enter a description for the Enquiry Type

Contract (Optional)

If required select a Works Contract to associate with the Enquiry Type. Associating a Contract with an Enquiry allows Contract Items and quantities from the Contract to be added an Enquiry using this Category / Class and Type combination. This allows costs etc to be calculated for any Works associated with the Enquiry.

Start End (Optional)

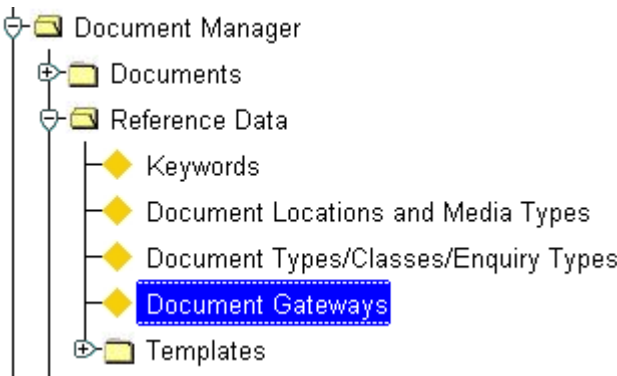
Enter the start date for the Enquiry Type. The Enquiry Type will not be valid before this date and will therefore not appear on any List of values.

End Date (Optional)

Enter the date this Enquiry Type is no longer valid. The Enquiry Type will not be valid after this date and will therefore not appear on any List of values.

Document Gateways - DOC0130

Figure 18
Document Gateways
Menu Option



This form is used to maintain the gateways from the document management interface to the records held within the **Exor** database.

A comprehensive set of records contained within this table is supplied as meta data when the system is first installed. This form has been provided mainly for use of the **Exor** support staff and **SHOULD NOT** be changed by the customer.

Any changes made to records within this table could cause considerable problems when using the document management interface. It is recommended that this form be removed from the menus of all but the most experienced users.

Figure 19
Document
Gateways

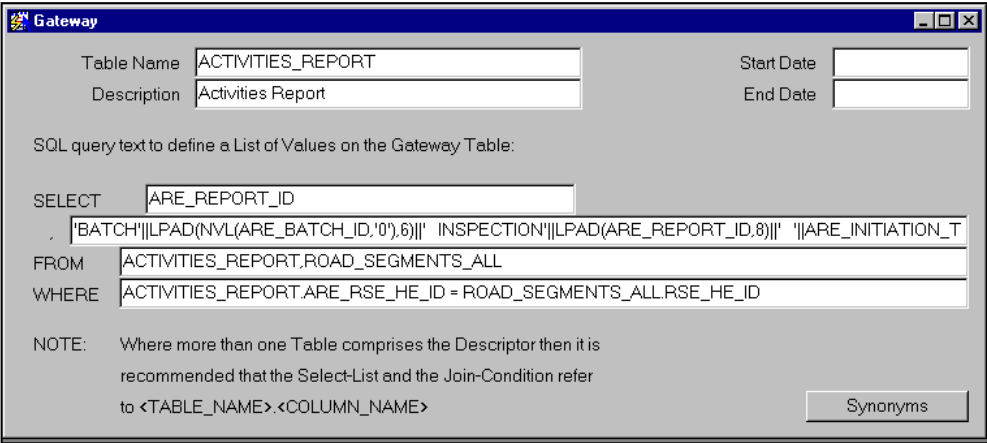


Table Name: ACTIVITIES_REPORT

Description: Activities Report

Start Date:

End Date:

SQL query text to define a List of Values on the Gateway Table:

SELECT ARE_REPORT_ID

FROM ACTIVITIES_REPORT,ROAD_SEGMENTS_ALL

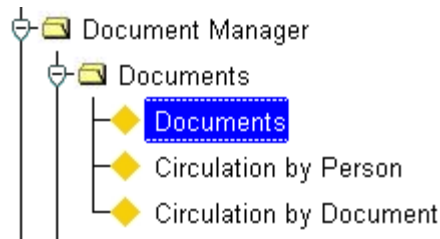
WHERE ACTIVITIES_REPORT.ARE_RSE_HE_ID = ROAD_SEGMENTS_ALL.RSE_HE_ID

NOTE: Where more than one Table comprises the Descriptor then it is recommended that the Select-List and the Join-Condition refer to <TABLE_NAME>.<COLUMN_NAME>

Synonyms

Documents - DOC0100

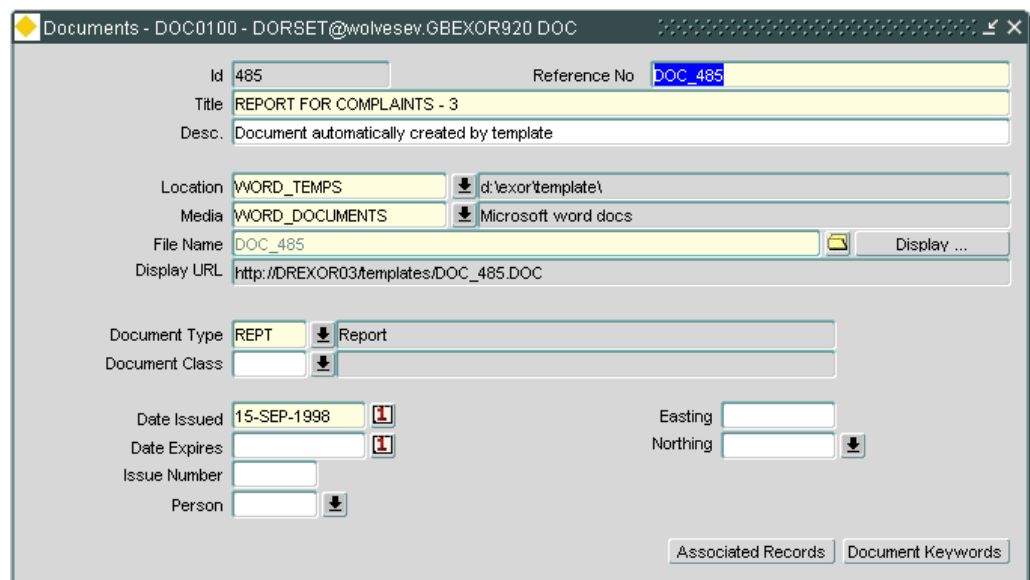
Figure 20
Documents
Menu Option



This form is used to record document or image details and keywords or scan images and associate them to records held within the **Exor** database.

Documents or images may also be associated with records using the Document Manager interface on any form within **Exor** that has access to the **Document Manager** facility (see Document Manager User Guide).

Figure 21
Documents



Documents

When you enter this form the cursor sits in the Reference No. field waiting for you to enter new data or retrieve existing data. To display existing information press **[Enter Query]** or press **[F7]**, enter your selection criteria then press **[Execute Query]** or press **[F8]**.

Id (Display Only)

A unique system generated number will be displayed.

Reference No. (Required)

Enter a value for the document reference.

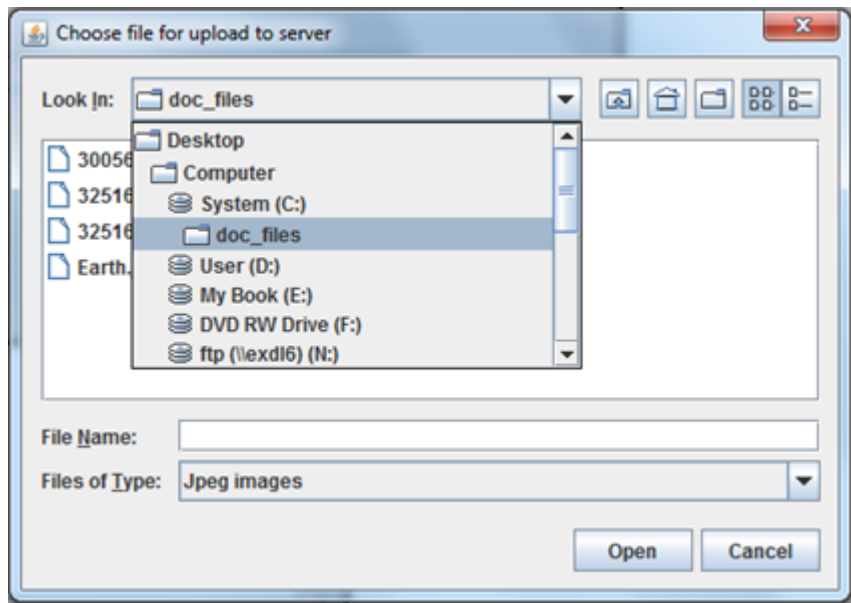
Title (Required)

Enter the document title.

Description	(Optional)	(Edit)
Enter a description of the document.		
Location	(Required)	(List)
Enter the operating system location name of the document file. This will have been previously set up using: Locations and Media Types - DOC0118 (Figure 3)		
Media	(Required, Default)	(List)
Enter the format that the file exists in on the system. The default is the media type set up using Locations and Media Types - DOC0118 (Figure 3), this value may be changed if required.		
Filename	(Required)	(List)
Enter the operating system filename of the document. Double clicking this field will open a windows 'Find File' dialog box (Figure 22). The default 'Look in' folder in the Find File dialog box will be determined by the 'Path' defined for the chosen 'Location' in Locations and Media Types - DOC0118 (Figure 3). The default file type in the 'Choose file for upload to server' dialog box will be determined by the 'Extension' defined in Locations and Media Types - DOC0118 (Figure 3). Note. When choosing a file to associate with a new document record, you are presented with a File Selection box. This defaults to a directory on the Client Machine determined by the user option WORKFOLDER.		

Note that you should include the DOS extension if the filename includes one.

Figure 22
Choose File



When the document is saved, the selected file is uploaded to the Document Location, and optionally Archived.

The **[Display]** button will display the saved document.

Document Type (Required) (List)

Enter a valid code for the Document Type, e.g. PICT, REPT etc. These will have been previously set up using **Document Types/Classes - DOC0110**. A description will be displayed in the adjacent field.

Document Class (Optional) (List)

Enter a valid code for the Document Class, e.g. CONF, CINC etc. These will have been set up previously using **Document Types/Classes - DOC0110**.

Date Issued (Required, Default)

Enter the date the Document was issued. The default is to-days date, but this can be changed if required. The date format must be DD-MON-YYYY.

Date Expires (Optional)

Enter the date the Document expires. The date format must be DD-MON-YYYY.

Note that a document must be 'returned' before it can expire. Documents cannot be associated with a database item after the date it expires.

Issue Number (Optional)

Enter the issue number of the Document.

Person (Optional) (List)


Enter the initials of the person who entered the Document. These will have been previously set up using **Users - HIG1832**. (See General System Admin Guide)

Easting (Optional)

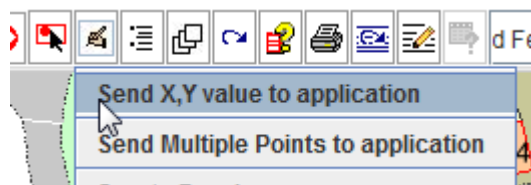
Enter the easting co-ordinate if the document is to be displayed in locator.

Northing (Optional)

Enter the easting co-ordinate if the document is to be displayed in locator.

Select the  icon to call locator to select the easting and northing directly from locator.

When locator is displayed and you have established the location using the zoom/pan tools select the location required using the map then select the 'Send XY values to application as shown:



You will be asked to confirm your selection, once confirmed the appropriate co-ordinates will be returned to the form.

For more information on the spatial enablement of documents see Figure 25

Figure 23
Documents:
Associated Records

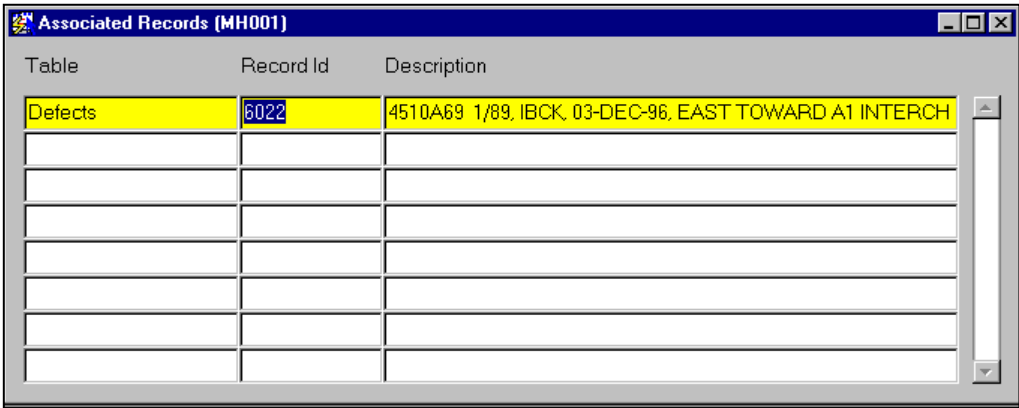


Table	Record Id	Description
Defects	6022	4510A69 1/89, IBCK, 03-DEC-96, EAST TOWARD A1 INTERCH

Associated Records Button

This window is used to associate and view documents with database records stored within the **Exor** database. Documents or images may also be associated with records using the Document Manager interface on any form within **Exor**, which has access to the **Document Manager** facility (refer to the Document Manager User Guide).

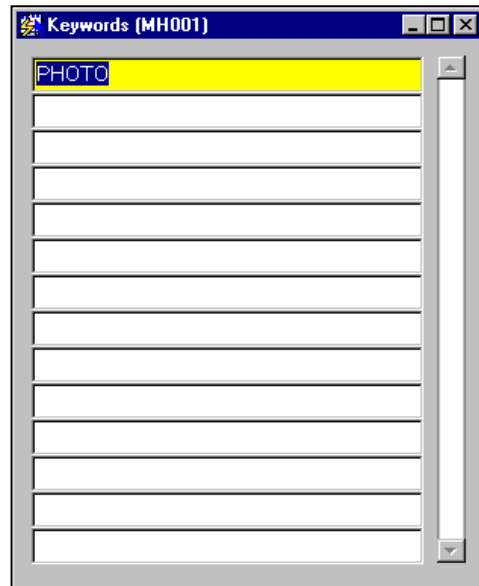
When you enter this window any previously associated records will be display. To associate another record to the document press [**Create Record**] or press [**F6**].

Table	(Required)	(List)
Enter the table the associated record is held within. The information available in the Table field will have been supplied as meta data and would have been previously entered using Document Gateways - DOC0130 (page 23).		

Record ID	(Required)	(List)
Enter the record that the document is to be associated with. The Table selected in the previous field will determine the List of Values		

Description	(Display Only)
The record Description will be displayed.	

Figure 24
Documents: Keywords



Keywords Button

This window is used to associate keywords to documents. A document may have more than one keyword.

When you enter this window any previously associated keywords will be displayed. To add another keyword, press [**Create Record**] or press [**F6**].

Keyword	(Required)	(List)
----------------	-------------------	---------------

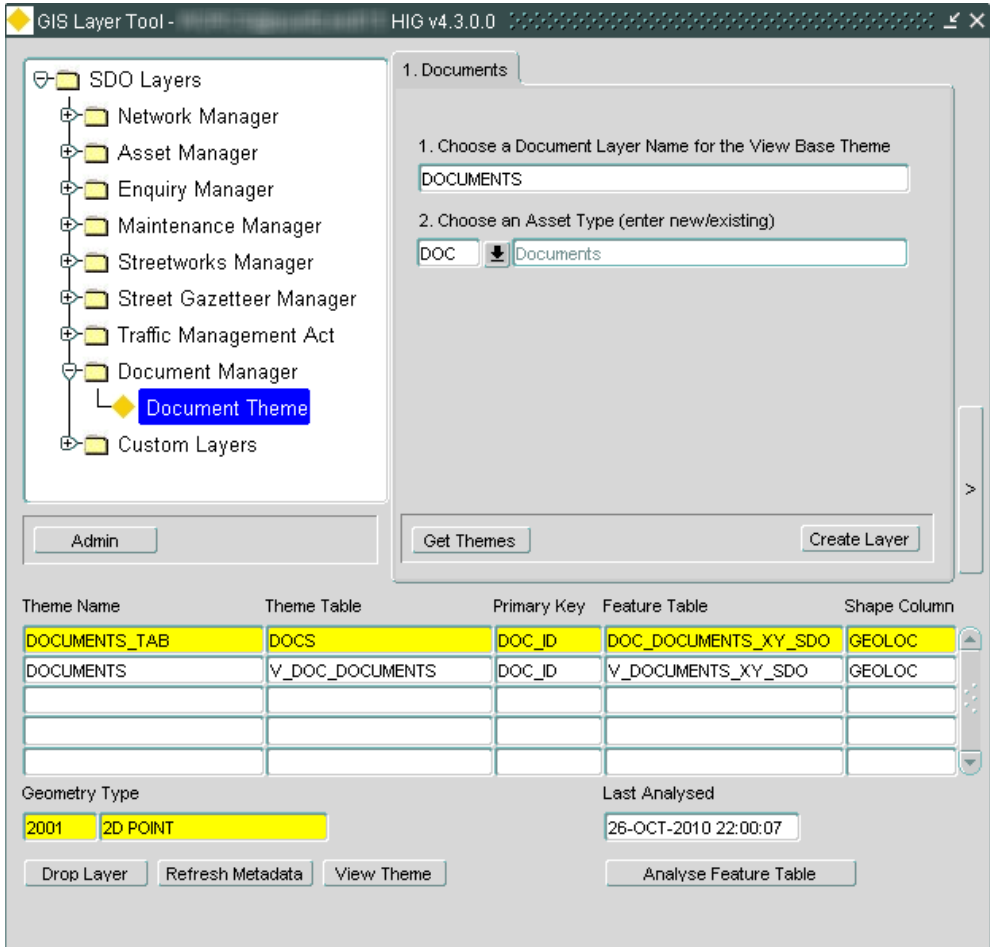
Enter the keyword to be associated with the document. These will have already been set up using **Keywords - DOC0116**.

Spatial Enablement of Documents

For a document record in **Documents - DOC0100**, you can assign a pair of coordinates and create a spatial representation to display in the map.

You need to register a Document Layer to start with using the **GIS Layer tool - GIS0020** to achieve this, along with configuring Mapviewer/Exor locator to display it.

Figure 25
Register Document Layer



1. Documents

1. Choose a Document Layer Name for the View Base Theme
DOCUMENTS

2. Choose an Asset Type (enter new/existing)
DOC Documents


Get Themes Create Layer

Theme Name	Theme Table	Primary Key	Feature Table	Shape Column
DOCUMENTS_TAB	DOCS	DOC_ID	DOC_DOCUMENTS_XY_SDO	GEOLOC
DOCUMENTS	V_DOC_DOCUMENTS	DOC_ID	V_DOCUMENTS_XY_SDO	GEOLOC

Geometry Type
2001 2D POINT

Last Analysed
26-OCT-2010 22:00:07

Drop Layer Refresh Metadata View Theme Analyse Feature Table

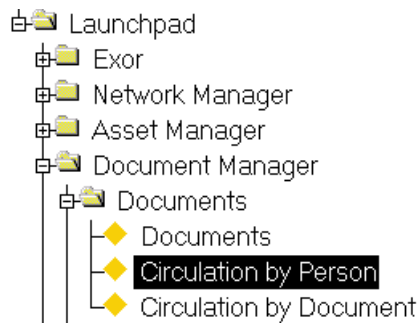
Once the associations have been made the standard show map icon  can then be used to call locator from the Documents module, this will then zoom to the document icon on the map.

With the document icon selected the user may use the select to option to select:

- **Edit Document**, this will call Documents – DOC0100 where the attributed may be edited
- **Display Document**, this will display the document.

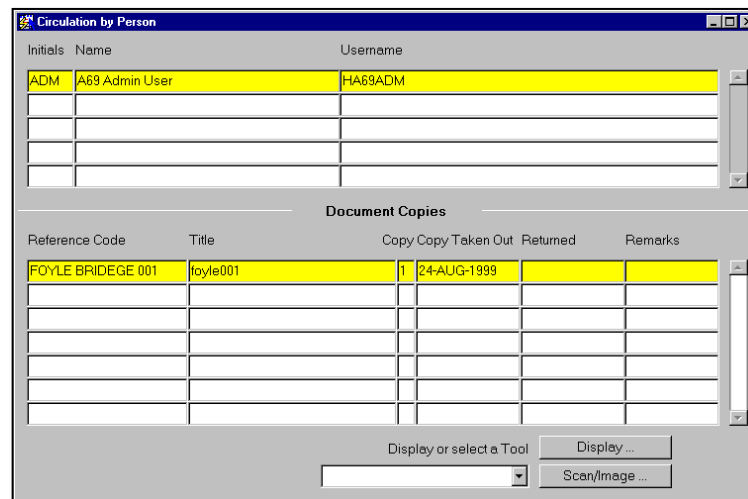
Circulation by Person - DOC0114

Figure 26
Circ by Person
Menu Option



This form is used to keep a track of documents through an organization and to monitor who has responsibility for a given document at a given point in time.

Figure 27
Circulation by person



Initials	Name	Username
ADM	A69 Admin User	HA69ADM

Document Copies					
Reference Code	Title	Copy	Copy Taken Out	Returned	Remarks
FOYLE BRIDGE 001	foyle001	1	24-AUG-1999		

Display or select a Tool Display ... Scan/Image ...

Circulation by Person

When you enter this form all current users details will be displayed. To select the appropriate person press **[Enter Query]** or press **[F7]** enter the selection criteria then press **[Execute Query]** or press **[F8]**.

Initials (Required) (List)

Enter the initials of the person required.

Name (Display Only)

The person's name will be displayed

Username (Display Only)

The person's username will be displayed.

Note that you may also use either the Name or User Name fields to retrieve the required person's details.

Document Copies

When you enter this block, the cursor sits in the Reference Code field waiting for you to enter details of the document that the person is to take out.

Reference Code (Required) (List)

Enter the reference code of the document.

Title (Display Only)

The title of the selected document will be displayed.

Copy (Display Only)

The system will generate the copy number of this document i.e. the number of times it has been taken out.

Date Taken Out (Required, Default)

Enter the date the document was taken out. The default is today's date, but this may be changed if required.

Note that once the record is saved the Date Taken Out cannot be changed.

Date Returned (Optional)

Enter the date the document was returned.

Remarks (Optional) (Edit)

Enter any comments that are required for this copy of the document.

Display

This button allows you to display the image or document using the PC resident tool specified in the Display Command field in **Media Types - DOC0118** (page 7).

To display the document or image, press the **[Display]** button. This will start the viewer application and open the document file.

Scan/Image...

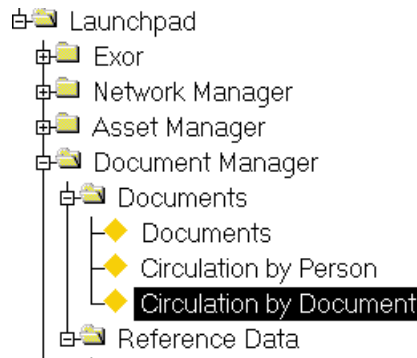
This button allows you to scan an image or use any of the 5 image commands specified in **Media Types - DOC0118** (page 7).

To select the Scan command or any of the other 5 image commands

1. Click on the arrow in the Display or select a Tool window.
This will display any scan or image commands specified in **Media Types - DOC0118**.
2. Click on the desired command.
3. Press the **[Scan/Image...]** button.

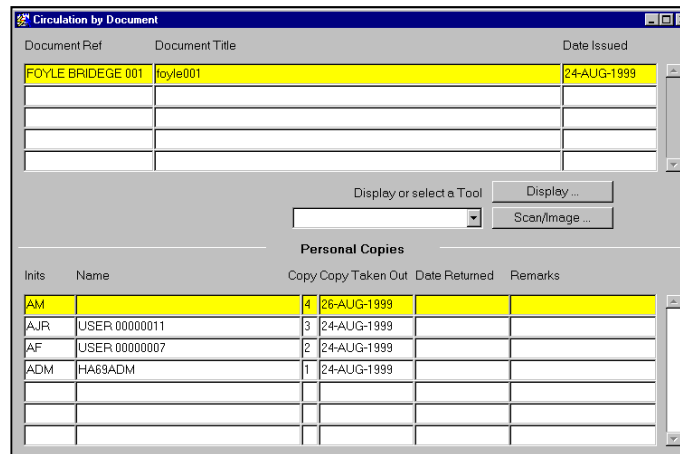
Circulation by Document - DOC0115

Figure 28
Circ by Document



This form is used to keep a track of documents through an organization and to monitor who has responsibility for a given document at a given point in time.

Figure 29
Circulation by Document



Document Ref	Document Title	Date Issued
FOYLE BRIDGE 001	foyle001	24-AUG-1999

Display or select a Tool Display ... Scan/Image ...

Personal Copies

Initis	Name	Copy	Copy Taken Out	Date Returned	Remarks
AM		4	26-AUG-1999		
AJR	USER 00000011	3	24-AUG-1999		
AF	USER 00000007	2	24-AUG-1999		
ADM	HA694ADM	1	24-AUG-1999		

Circulation by Document

When you enter this form all Document References will be displayed. To select the appropriate Document press **[Enter Query]** or press **[F7]** enter the selection criteria then press **[Execute Query]** or press **[F8]**.

Document Ref (Required) (List)

Enter the document reference code required.

Document Title (Display Only)

The document title will be displayed

Date Issued (Display Only)

The date the document was issued will be displayed.

Note that you may also use either the 'Document Title' or 'Date Issued' fields to retrieve the required document.

Personal Copies

When you enter this window, the cursor sits in the 'Inits' field waiting for you to enter details of the person that is taking out the document.

Inits (Required) (List)

Select the initials of the person who has a copy of the current document.

Name (Display Only)

The name of the selected person will be displayed

Copy (Display Only)

The system will generate the copy number of this document i.e. the number of times it has been taken out.

Date Taken Out (Required, Default)

Enter the date the document was taken out. The default is today's date, but this may be changed if required.

Note that once the record is saved the 'Date Taken Out' cannot be changed.

Date Returned (Optional)

Enter the date the document was returned.

Remarks (Optional) (Edit)

Enter any comments that are required for this copy of the document.

Display

This button allows you to display the image or document using the PC resident tool specified in the Display Command field in **Media Types - DOC0118**

To display the document or image, press the **[Display]** button. This will start the viewer application and open the document file.

Scan/Image...

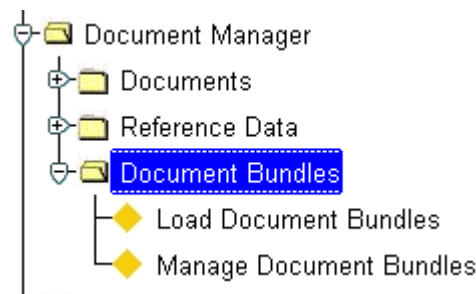
This button allows you to scan an image or use any of the 5 image commands specified in **Media Types - DOC0118**.

To select the Scan command or any of the other 5 image commands

1. Click on the arrow in the Display or select a Tool window.
This will display any scan or image commands specified in **Media Types - DOC0118**.
2. Click on the desired command.
3. Press the **[Scan/Image...]** button.

Bulk Document Loader – Document Bundles

Figure 30
Document
Bundles
Menu



The Bulk Document Loader can be used in two ways:

- Manually load 'bundles' of documents using the **Load Document Bundles – DOC0300** or **Submit a Process – HIG2510**
- Use the Automated Process Framework to automatically load 'bundles' of documents

A Load Document Bundle process Type is shipped with Document Manager, this process supports polling of an ftp directory.

Note. If this is to be used some configuration will need to take place: See the Exor Admin Guide for details on setting **Process Types – HIG2500** variables, this following setup will need to be considered

1. Additional Process Type Roles and Frequencies can be set
2. If wishing to poll; the FTP Connection Type must be set
3. If wishing to poll by area; the polling areas must be defined in the 'Polling Locations' tab
4. The Oracle Directory from which document bundles are to be loaded must be defined in the 'Process Locations' tab

The bulk Document Loader will load a bundle of documents such as photographs and associates them with the appropriate business feature such as an asset or defect.

For example, a series of 'after photos' may be required once the defects have been repaired, these defects will exist within the system and will need the documents associating with them retrospectively.

The Bulk Document Loader uses a 'driving file' that contains a list of documents, their document type and the Id of the associated business feature. The actual documents, e.g. photographs, are contained within a zip file.

If the load fails, a discard file is produced that contains the erroneous documents with an error so they can be corrected and re-loaded.

The loader also ensures the loaded documents have a unique reference by prefixing a unique id to the original document Id

Document Bundles

The Bulk Document Loader is driven by document bundles, a document bundle is a zip file containing two sets of data:

1. Source files of the documents (e.g. .doc, .jpg, .pdf) that we need to reference from within Document Manager
2. A 'Driving File' which lists all of the documents in 1. and which gives sufficient information for each file in order to reference it in Document Manager

Driving File

The format of the driving file is as follows:

Attribute Seq	Name	Format	Upper Case	Mandatory	Notes
1	doc_file	VARCHAR(240)		✓	Pointer at a file supplied within the bundle
2	doc_title	VARCHAR2(60)		✓	Attribute of the DOCS record that is to be created
3	doc_descr	VARCHAR2(2000)			Attribute of the DOCS record that is to be created
4	doc_type	VARCHAR2(4)	✓	✓	Attribute of the DOCS record that is to be created Must match an entry in DOC_TYPES table (DOC_TYPES.DTP_CODE)
5	doc_location_name	VARCHAR2(30)	✓	✓	In order for the loader to determine where the file is ultimately moved to Must match an entry in DOC_LOCATIONS table (DOC_LOCATIONS.DLC_NAME)
6	gateway_table_name	VARCHAR2(30)	✓		The scope of this isn't limited to associations to a defect, hence the need for this attribute which identifies the gateway table for the document association to be created Must match an entry in DOC_GATEWAYS table (DOC_GATEWAYS.DGT_TABLE_NAME)
7	rec_id	VARCHAR2(30)			The foreign key pointing to the record within the table named by the 'gateway table name' attribute.
8	x_coordinate	NUMBER			The x coordinate for the document
9	y_coordinate	NUMBER			The y coordinate for the document

A driving file has some special characteristics, these are as follows:

- All values must be comma separated
- All values must be encapsulated with " "
- Driving files may be in the document bundle and are distinguished from documents within the bundle by virtue of a *.driving* extension e.g. *list_of_docs.driving*

An extract from a sample driving file is as follows:

Figure 31
Driving
File

```
"bgnd2.gif","title for bgnd2.gif","description of bgnd2.gif","APHT","PHOTOS MAN UPLOAD","DEFECTS","226076","54900","174220"
"bigdown.jpg","title for bigdown.jpg","description of bigdown.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226075","54901","174221"
"bigup.jpg","title for bigup.jpg","description of bigup.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226074","54902","174222"
"BLANK.jpg","title for BLANK.jpg","description of BLANK.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226073","54903","174223"
"blue.jpg","title for blue.jpg","description of blue.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226072","54904","174224"
"boom.jpg","title for boom.jpg","description of boom.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226066","54905","174225"
"cancel.jpg","title for cancel.jpg","description of cancel.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226064"
"canqry.jpg","title for canqry.jpg","description of canqry.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226063"
"cdcqry.jpg","title for cdqry.jpg","description of cdqry.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226062"
"cdxqry.jpg","title for cdxqry.jpg","description of cdxqry.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226056"
"CEN-POLE.jpg","title for CEN-POLE.jpg","description of CEN-POLE.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226048"
"check_all.jpg","title for check_all.jpg","description of check_all.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226047"
"check_none.jpg","title for check_none.jpg","description of check_none.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226046"
"CHEVRON.jpg","title for CHEVRON.jpg","description of CHEVRON.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226045"
"collapse.jpg","title for collapse.jpg","description of collapse.jpg","APHT","PHOTOS MAN UPLOAD","DEFECTS","226044"
```

Loader Failure

The loader will raise a failure under the following circumstances

- The file identified in the doc_file attribute is not supplied as a file within the bundle
- A file supplied in the bundle is not referenced within a driving file within the bundle
- doc_type does not correspond to an entry in DOC_TYPES table
- doc_location_name does not correspond to an entry in DOC_LOCATIONS table
- gateway_table_name is supplied and does not correspond to an entry in DOC_GATEWAYS
- gateway_table_name and rec_id is supplied and does not identify a record in the table named in the gateway_table_name attribute
- neither (gateway_table_name and rec_id) OR (x_coordinate and y_coordinate) are supplied. Note that all four attributes can be supplied

If the loader fails the user can use **Manage Document Bundles – DOC0310** to view the issues with the load, create a discard file and re-run the load with those files that failed the initial load.

Document Bundle File

The document bundle file has specific characteristics, these are as follows:

- The document bundle must be a .zip file
- Only files created via Winzip or Windows own compression tool will work
- Unzipping of the zip files has only been proven when implemented against a database hosted on a Linux or Windows box
- Software to unzip files must reside on box which hosts the database
- The zip file will not extract to a directory hierarchy, i.e. the driving file(s) and the documents are all stored at the one level
- A document bundle may contain one or more driving files
- A 'doc_file' within a document bundle can be referenced more than once in a driving file(s) e.g. should you wish a document to be attributed to more than one item.
- When the loader moves the 'doc_file' to the correct document location, they are renamed to make the filename unique. To achieve this the document id is prefixed to the filename e.g. "boom.jpg" could become "32456_boom.jpg"
- To ensure uniqueness of Document Bundle filenames it is suggested that a file naming convention is adopted by customers

A possible file naming convention for document bundle files is:

<username>_<date>_<time>.zip

Where:

<username> - username of the exor user to which to bundle is attributed.

<date> - date of file YYYYMMDD

<time> - time of file HH24MISS

e.g. HIGHWAYS_20100422_092245.zip

An example document bundle zip file containing a number of documents and a driving file is shown below:

Figure 32
Document
Bundle

Folders	Name	Type	Modified	Size	Ratio	Packed
[HIGHWAYS_20100422_092245.zip]	single_driving_file.driving	DRIVING File	21/04/2010 14:24	3,308	83%	556
	bgnd2.gif	GIF File	29/10/2003 16:09	22,824	3%	22,167
	bigdown.jpg	JPG File	03/08/2000 11:29	1,043	16%	873
	bigup.jpg	JPG File	03/08/2000 11:29	1,111	15%	944
	BLANK.jpg	JPG File	25/06/2003 16:00	1,114	15%	952
	blue.jpg	JPG File	03/08/2000 11:29	646	31%	448
	boom.jpg	JPG File	03/08/2000 11:29	1,354	11%	1,201
	cancel.jpg	JPG File	03/08/2000 11:29	788	24%	600
	canqry.jpg	JPG File	03/10/2001 15:21	1,682	13%	1,462
	cdcqry.jpg	JPG File	03/10/2001 15:19	1,879	12%	1,658
	cdquery.jpg	JPG File	03/10/2001 16:54	1,655	13%	1,436
	cdxqry.jpg	JPG File	03/10/2001 16:57	1,486	14%	1,272
	CEN-POLE.jpg	JPG File	25/06/2003 16:00	810	21%	643
	check_all.jpg	JPG File	03/03/2007 15:45	1,247	18%	1,019

Manage Document Bundles – DOC0310

Figure 33
Manage Document
Bundles Menu

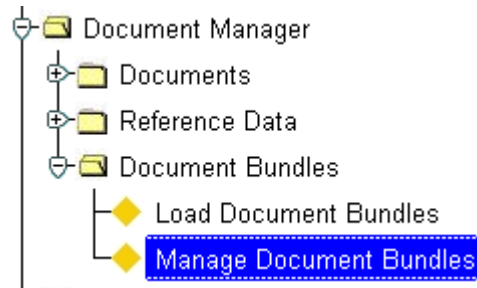
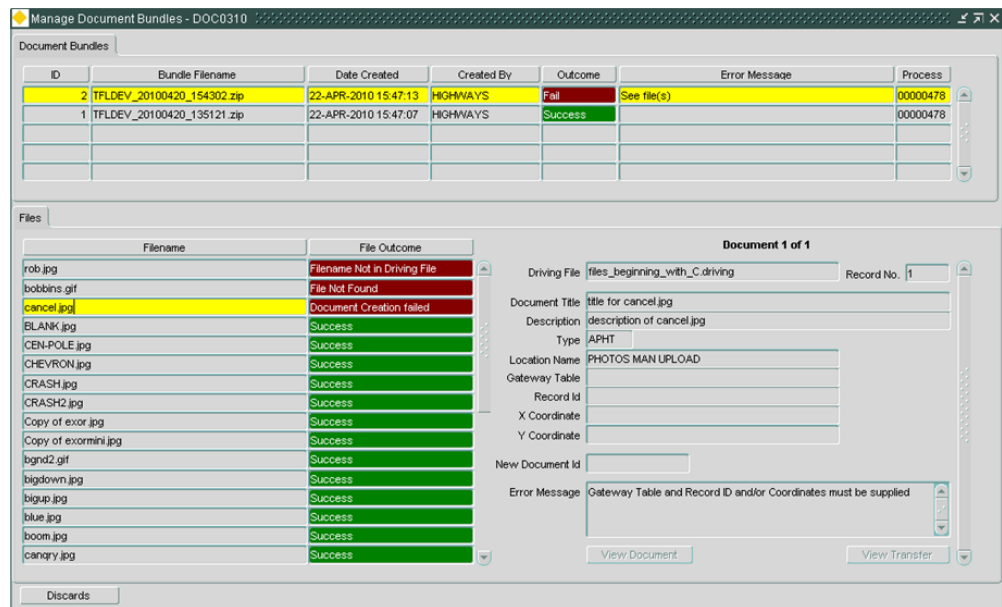


Figure 34
Manage Document
Bundles



ID	Bundle Filename	Date Created	Created By	Outcome	Error Message	Process
2	TFLDEV_20100420_154302.zip	22-APR-2010 15:47:13	HIGHWAYS	Fail	See file(s)	00000478
1	TFLDEV_20100420_135121.zip	22-APR-2010 15:47:07	HIGHWAYS	Success		00000478

Filename	File Outcome
rob.jpg	Filename Not in Driving File
bobbins.gif	File Not Found
cancel.jpg	Document Creation failed
BLANK.jpg	Success
CEN-POLE.jpg	Success
CHEVRON.jpg	Success
CRASH.jpg	Success
CRASH2.jpg	Success
Copy of exor.jpg	Success
Copy of exormini.jpg	Success
bgnd2.gif	Success
bigdown.jpg	Success
bigup.jpg	Success
blue.jpg	Success
boom.jpg	Success
cangry.jpg	Success

Document 1 of 1

Driving File: files_beginning_with_C_driving Record No. 1

Document Title: title for cancel.jpg

Description: description of cancel.jpg

Type: APHT

Location Name: PHOTOS MAN UPLOAD

Gateway Table:

Record Id:

X Coordinate:

Y Coordinate:

New Document Id:

Error Message: Gateway Table and Record ID and/or Coordinates must be supplied

View Document View Transfer

Discards

Manage Document Bundles

As the bulk document loader loads data it populates a number of tables with data, this module allows the user to view the data in those tables.

This module can be invoked both from the Launchpad or by selecting the [More details] button in the **Process Monitor – HIG2520** and the **Process Execution Log – HIG2540**

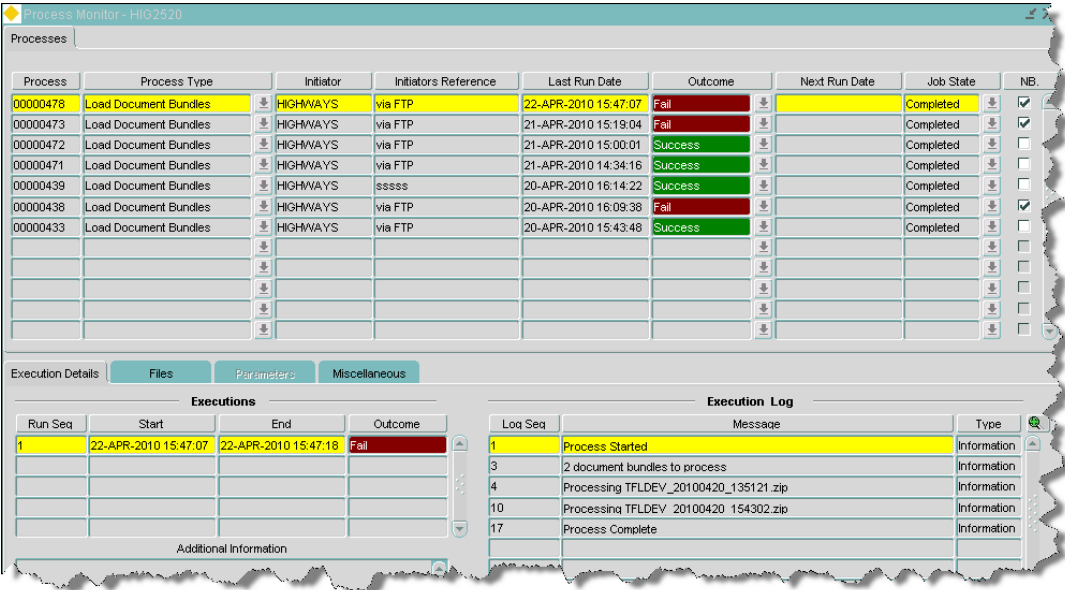
This screen is read only for viewing bundle related data, in addition it has the following buttons:

[View Document] will call **Documents - DOC0100** to view a document which has been created as a result of processing an entry in a driving file

[View transfer] will call **Transfer Log – HIG2600** which shows information relating to the transfer of the “document file” to the appropriate document location

[Discards] This will take the user to a directory containing all the failed files plus a new driving file with all the failed records for the bundle, this allows re-submission of the failed files.

Figure 35
Document Bundles
Process Monitor



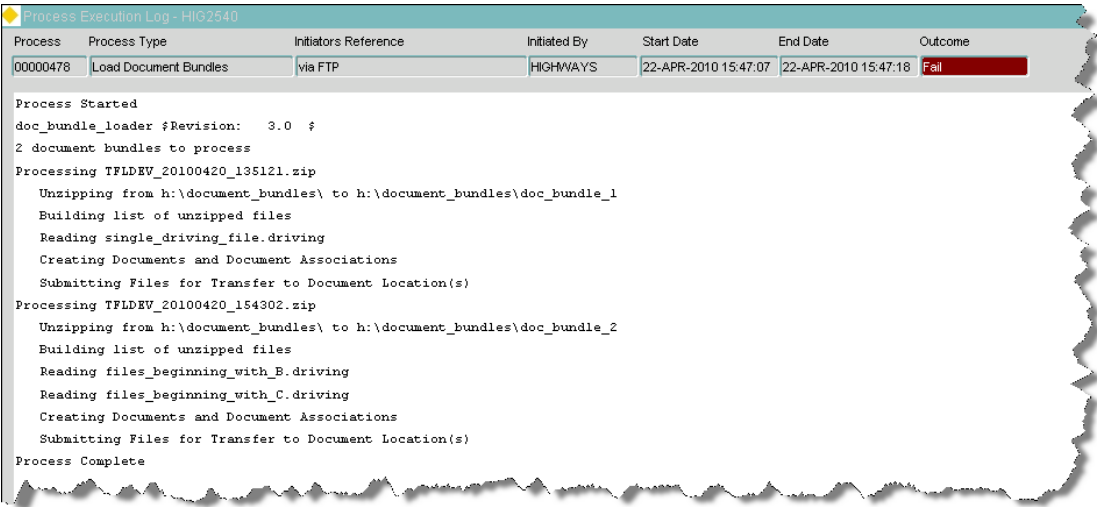
Process	Process Type	Initiator	Initiators Reference	Last Run Date	Outcome	Next Run Date	Job State	NB.
00000478	Load Document Bundles	HIGHWAYS	via FTP	22-APR-2010 15:47:07	Fail		Completed	<input checked="" type="checkbox"/>
00000473	Load Document Bundles	HIGHWAYS	via FTP	21-APR-2010 15:19:04	Fail		Completed	<input checked="" type="checkbox"/>
00000472	Load Document Bundles	HIGHWAYS	via FTP	21-APR-2010 15:00:01	Success		Completed	<input type="checkbox"/>
00000471	Load Document Bundles	HIGHWAYS	via FTP	21-APR-2010 14:34:16	Success		Completed	<input type="checkbox"/>
00000439	Load Document Bundles	HIGHWAYS	sssss	20-APR-2010 16:14:22	Success		Completed	<input type="checkbox"/>
00000438	Load Document Bundles	HIGHWAYS	via FTP	20-APR-2010 16:09:38	Fail		Completed	<input checked="" type="checkbox"/>
00000433	Load Document Bundles	HIGHWAYS	via FTP	20-APR-2010 15:43:48	Success		Completed	<input type="checkbox"/>

Executions				Execution Log		
Run Seq	Start	End	Outcome	Log Seq	Message	Type
1	22-APR-2010 15:47:07	22-APR-2010 15:47:18	Fail	1	Process Started	Information
				3	2 document bundles to process	Information
				4	Processing TFLDEV_20100420_135121.zip	Information
				10	Processing TFLDEV_20100420_154302.zip	Information
				17	Process Complete	Information

Manage Document Bundles – Process Monitor

The standard process framework functionality allows the monitoring of Load Document Bundle processes.

Figure 36
Document Bundles
Process Execution Log



Process	Process Type	Initiators Reference	Initiated By	Start Date	End Date	Outcome
00000478	Load Document Bundles	via FTP	HIGHWAYS	22-APR-2010 15:47:07	22-APR-2010 15:47:18	Fail


```
Process Started
doc_bundle_loader $Revision: 3.0 $
2 document bundles to process
Processing TFLDEV_20100420_135121.zip
  Unzipping from h:\document_bundles\ to h:\document_bundles\doc_bundle_1
  Building list of unzipped files
  Reading single_driving_file.driving
  Creating Documents and Document Associations
  Submitting Files for Transfer to Document Location(s)
Processing TFLDEV_20100420_154302.zip
  Unzipping from h:\document_bundles\ to h:\document_bundles\doc_bundle_2
  Building list of unzipped files
  Reading files_beginning_with_B.driving
  Reading files_beginning_with_C.driving
  Creating Documents and Document Associations
  Submitting Files for Transfer to Document Location(s)
Process Complete
```

Manage Document Bundles – Process Execution Log

The Process execution log will show a log of the document bundle load with any errors the system may have encountered.

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