310

DBFS Content Interface Types

DBFS Content Interface Types are public types that support the DBMS DBFS CONTENT interface.

This chapter contains the following topics:

- Overview
- Security Model
- Data Structures

Related Topics

DBMS DBFS CONTENT

The DBMS_DBFS_CONTENT package provides an interface comprising a file system-like abstraction backed by one or more Store Providers.

DDBFS Content Interface Types Overview

The type definitions described in this chapter support the DBMS_DBFS_CONTENT interface in implementing metadata tables, packages, views, dependent application-side entities, and service-provider entities.

DBFS Content Interface Types Security Model

The user can access the content operational and administrative interfaces (packages, types, tables, and so on) with the DBFS ROLE. This role can be granted to users as needed.

DBFS Content Interface Types —Data Structures

Types that support the DBMS_DBFS_CONTENT interface include both Object and Table types.

Object Types

- DBMS_DBFS_CONTENT_CONTEXT_T Object Type
- DBMS DBFS CONTENT LIST ITEM T Object Type
- DBMS_DBFS_CONTENT_PROPERTY_T Object Type

Table Types

- DBMS_DBFS_CONTENT_LIST_ITEMS_T Table Type
- DBMS_DBFS_CONTENT_PROPERTIES_T Table Type
- DBMS_DBFS_CONTENT_RAW_T Table Type

DBMS_DBFS_CONTENT_CONTEXT_T Object Type

This type describes the execution context for the providers. It provides the user performing the operation with the Access Control List, the owner of the item(s), a timestamp for doing asof queries, and whether or not the item(s) are read_only. This type can be used both as input, in the case of path item creation functions, and output, in the case of path item query, or both.

Syntax

```
CREATE OR REPLACE TYPE dbms_dbfs_content_context_t
   AUTHID DEFINER

AS OBJECT (
   principal VARCHAR2(32),
   acl VARCHAR2(1024),
   owner VARCHAR2(32),
   asof TIMESTAMP,
   read only INTEGER);
```

Fields

Table 310-1 DBMS_DBFS_CONTENT_CONTEXT_T Fields

Field	Description
principal	File system user
acl	Access control list
owner	Path item owner
asof	Timestamp
read_only	Nonzero if the path item is read-only

DBMS_DBFS_CONTENT_LIST_ITEM_T Object Type

This type describes a type to assist in listing the contents of a directory.

Syntax

Fields

Table 310-2 DBMS_DBFS_CONTENT_LIST_ITEM_T Fields

Field	Description
path	Path to the path item
item_name	Name of the path item
item_type	Type of path item. (See Table 67-4



DBMS_DBFS_CONTENT_PROPERTY_T Object Type

This type describes a single (name, value, typecode) property tuple. All properties (standard, optional, and user-defined) are described using such tuples.

The type is used by both the client-facing interfaces and by store providers for the DBMS DBFS CONTENT interface.

Syntax

Fields

Table 310-3 DBMS_DBFS_CONTENT_PROPERTY_T Fields

Field	Description
prop_name	Name of property
prop_value	Value of property
typecode	Property type (See Constants in DBMS_TYPES)

DBMS_DBFS_CONTENT_LIST_ITEMS_T Table Type

This type is a variable-sized array of DBMS_DBFS_CONTENT_LIST_ITEM_T Object Type. It is used by both the client-facing interfaces and by store providers for the DBMS_DBFS_CONTENT interface.

Syntax

```
CREATE OR REPLACE TYPE dbms_dbfs_content_list_items_t AS TABLE OF dbms dbfs content list item t;
```

Related Topics

- DBMS_DBFS_CONTENT_LIST_ITEM_T Object Type
 This type describes a type to assist in listing the contents of a directory.
- DBMS DBFS CONTENT

The DBMS_DBFS_CONTENT package provides an interface comprising a file system-like abstraction backed by one or more Store Providers.

DBMS_DBFS_CONTENT_PROPERTIES_T Table Type

This type is a variable-sized array of property tuples of DBMS_DBFS_CONTENT_PROPERTY_T Object Type. It is used by both the client-facing interfaces and by store providers for the DBMS_DBFS_CONTENT interface.

Syntax

```
CREATE OR REPLACE TYPE dbms_dbfs_content_properties_t AS TABLE OF dbms_dbfs_content_property_t;
```

Related Topics

DBMS_DBFS_CONTENT_PROPERTY_T Object Type

This type describes a single (name, value, typecode) property tuple. All properties (standard, optional, and user-defined) are described using such tuples.

DBMS DBFS CONTENT RAW T Table Type

This type is an array of RAW. It is to enable RAW data transport for batch interfaces in the DBMS_DBFS_CONTENT interface.

Syntax

```
CREATE OR REPLACE TYPE dbms_dbfs_content_raw_t AS
    TABLE OF RAW(32767);
```

Related Topics

DBMS_DBFS_CONTENT

The <code>DBMS_DBFS_CONTENT</code> package provides an interface comprising a file system-like abstraction backed by one or more Store Providers.