

# Appendix A: A Portion of a GDMO Definition for a UNIX Password File

---

```
passwordEntryManagedObjectClass MANAGED OBJECT CLASS
  DERIVED FROM
    "Rec. X.721 | ISO/IEC 10165-2 : 1992":top;
  CHARACTERIZED BY
    passwordEntryPackage;
REGISTERED AS { passwordMOCObjID 1 } ;

passwordEntryPackage PACKAGE
  BEHAVIOUR
    passwordEntryPackageBehav;
  ATTRIBUTES
    loginName
      GET,
    password
      INITIAL VALUE
        PasswordFileInfo.passwordInitVal
      GET-REPLACE,
    ...
  ATTRIBUTE GROUPS
    passwordEntry;
  NOTIFICATIONS
    passwordEntryWasCreated,
    passwordEntryWasDeleted;
REGISTERED AS { passwordPkgObjID 1 } ;

passwordEntryPackageBehav BEHAVIOUR
  DEFINED AS "This is a simple agent/manager designed to
  manipulate entries in a UNIX password file, /etc/passwd. ...";

loginName ATTRIBUTE
  WITH ATTRIBUTE SYNTAX
    PasswordFileInfo.LoginNameSyntax;
  MATCHES FOR
    EQUALITY;
  BEHAVIOUR
    loginNameBehav;
  PARAMETERS
    loginNameErrorParam;
REGISTERED AS { passwordAttrObjID 1 } ;

passwordEntry ATTRIBUTE GROUP
  GROUP ELEMENTS
    loginName,
    password,
    ...
  DESCRIPTION "This is the mechanism whereby an entire password
  entry will be referenced in a single call.";
REGISTERED AS { passwordAttrGroupObjID 1 } ;

readObjectsFromDisk ACTION
  BEHAVIOUR
    readObjectsBehav;
  PARAMETERS
    readObjectsErrorParam;
  WITH INFORMATION SYNTAX
    PasswordFileInfo.FileNameSyntax;
  WITH REPLY SYNTAX
    PasswordFileInfo.SuccessSyntax;
REGISTERED AS { passwordActionObjID 1 } ;

passwordEntryWasCreated NOTIFICATION
  BEHAVIOUR
    passwordWasCreatedBehav;
  WITH INFORMATION SYNTAX
    PasswordFileInfo.LoginNameSyntax;
REGISTERED AS { passwordNotifyObjID 1 } ;

loginNameErrorParam PARAMETER
  CONTEXT
    SPECIFIC-ERROR;
  WITH SYNTAX
    PasswordFileInfo.LoginNameError;
  BEHAVIOUR
    loginNameErrorBehav;
REGISTERED AS { passwordParamObjID 1 } ;

passwordEntryNameBinding NAME BINDING
  SUBORDINATE OBJECT CLASS
    passwordEntryManagedObjectClass;
  NAMED BY SUPERIOR OBJECT CLASS
    passwordRootManagedObjectClass;
  WITH ATTRIBUTE
    loginName;
```

```
BEHAVIOUR          passwordEntryNameBindingBehav;
CREATE             WITH-REFERENCE-OBJECT;
DELETE            DELETES-CONTAINED-OBJECTS;

REGISTERED AS { passwordNameBindObjID 1 } ;
...
-- ASN.1 Definitions
PasswordFileInfo      { 1 3 6 1 4 1 11 1001 1 1 }
DEFINITIONS ::= BEGIN

maxNameLength         INTEGER ::= 8
LoginNameSyntax       ::= GeneralString (SIZE(maxNameLength))
...
passwordBaseObjID    OBJECT IDENTIFIER ::= { 1 3 6 1 4 1 11 1001 }
passwordAttrObjID    OBJECT IDENTIFIER ::= { passwordBaseObjID 2 }
...
passwordMOCObjID     OBJECT IDENTIFIER ::= { passwordBaseObjID 8 }
...
END

-- The passwd example is provided with various HP OpenView TMN products.
```

---

- ▶ [Return to Article 5](#)
- ▶ [Go to Article 6](#)
- ▶ [Go to Table of Contents](#)
- ▶ [Go to HP Journal Home Page](#)