



# Monash Directory Service

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## Monash Database Schema

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Registration and Authentication Services  
Identity and Messaging Services  
Monash University Information Technology Services

Distribution: Monash University staff only

# Monash Directory Service – Monash Database Schema

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## 1. Introduction

User information at Monash University is contained in a number of databases. This information is collated in the Monash Directory Service to provide a unified view of user information. The Monash Directory Service also provides authentication services via the LDAP protocol and is used as a central user database by many computer services and applications at Monash University.

### 1.1 Purpose of this document

A large number of object classes and attributes are available for use within the Monash Directory Service. The aim of this document is to provide an overview of all of the Monash-only database schema that has been created for use within the Monash Directory Service.

Additional schema is provided as part of the Sun Java Enterprise System range of products, and is also in use within the Monash Directory Service. A companion document, “Monash Directory Service – Distribution Database Schema”, outlines the use of the non-Monash schema.

The following documents also outline non-Monash schema that is distributed as part of the Sun Java Enterprise System suite of product. For full details of schema that are potentially available, refer to the following publications (available at <http://docs.sun.com/>).

iPlanet Directory Server 4.x and all iPlanet v4.x servers schema:

“*Universal Schema Reference*”, Netscape Communications Corporation, September 1999

Sun ONE Directory Server 5.x schema:

“*Schema Reference, iPlanet Directory Server, Version 5.1*”, Sun Microsystems, February 2002

Sun ONE Messaging Server 5.x and Sun ONE Calendar Server 5.x schema:

“*Schema Reference Manual, Sun ONE Messaging and Collaboration*”, Sun Microsystems, August 2002

### 1.2 Intended Audience

It is intended that this document will be used as a reference for developers and administrators of services that make use of the Monash Directory Service and as training material for new Registration and Authentication Services staff.

In particular, this document has been written for the following groups of people:

- Administrators of the Monash Directory Service,
- Developers and administrators of applications and services that use the Monash Directory Service,
- Other interested parties.

### 1.3 Document owners

- Leon Troeth – Manager, Identity and Messaging Services
- Lawrie Hanson – Team Leader, Registration and Authentication Services, Identity and Messaging Services

### 1.4 Acknowledgements

The format of this document is based on Sun Java Enterprise System Directory Server documentation, especially the following guide:

iPlanet Directory Server 4.x and all iPlanet v4.x servers schema:

“*Universal Schema Reference*”, Netscape Communications Corporation, September 1999

Thankyou also to following for their input and feedback:

- Shane Hjorth – Team Leader, Messaging and Scheduling Services, Identity and Messaging Services
- Peter Schendzielorz – (Former) Registration and Authentication Services Administrator/Developer, Identity and Messaging Services

### 1.5 Attribute Types and Abbreviations

The following table lists the different types of attributes that are available with in the Monash Directory Service. The abbreviations are used throughout the attribute related chapters.

| Syntax method      | Abbreviation | Definition   |
|--------------------|--------------|--|
| Binary             | bin          | The information within the attribute is stored in binary format.   |
| Boolean            | bool         | The attribute has two possible values: On or Off, True or False, Yes or No   |
| Case Exact String  | ces          | A text string that is case sensitive.  |
| Case Ignore String | cis          | A text string that is not case sensitive.  |
| Telephone          | tel          | Telephone number. This type is identical to cis, but blanks and dashes are ignored during comparisons.   |
| Distinguished Name | dn           | Indicates that the values for this attribute are DNs.  |
| Integer            | int          | Indicates that valid values for this attribute are numbers.  |
| Operational        | operational  | Internal directory server attributes. These attributes are not displayed in search results unless they are specifically listed in the list of attributes to be returned. |

**Table 1-1 – Attribute types and abbreviations.**

Attribute types can be followed by extra information. For example, a single valued Case Exact String attribute would be abbreviated as “ces single”.

**Reference:**

“*Universal Schema Reference*”, Netscape Communications Corporation, September 1999, pages 40-41.

**1.6 Acronyms and Abbreviations**

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

**1.7 Revision History**

|                      | <b>Date</b>                          | <b>Name</b> | <b>Description</b>   |
|----------------------|--------------------------------------|-------------|--|
| <b>Author/Editor</b> |                                      | Leon Troeth |  |
| v0.90                | 17 January, 2003                     | Leon Troeth | First draft.   |
| v0.90 – 0.99         | 25 January, 2003 –<br>20 April, 2005 | Leon Troeth | Various updates.   |
| v1.00                | 08 May, 2005                         | Leon Troeth | Document separated into Monash and Non-Monash schema. First public release |

## 2. Monash Object Classes

The following object classes have been created to store information that is specific to Monash University. In many cases, these object classes supplement the object classes that are distributed with the Sun ONE Directory Server. Table 3-1 provides a summary of the Monash object classes. The object classes are explained in more detail throughout the rest of this chapter.

| <b>Objectclass name</b>         | <b>Description</b>  |
|---------------------------------|---|
| monashCalendarResource          | Monash extensions to the calendarResource objectclass.  |
| monashCarpoolRegistration       | Object class used to store details of users who have registered their details in the car pool registration program.                           |
| monashCertRegoInstance          | Object class used to store registration information for digital certificate registrations.  |
| monashCertRegoRepository        | Object class for the digital certificate registration instances repository.   |
| monashCruxEntry                 | Object class for storing basic computer account information in the CRUX database.   |
| monashEmployeeNumberRestriction | This object class contains information about restrictions that have been applied to users.  |
| monashExternalUser              | Object class to store details about generic external users. Similar to monashPerson.  |
| monashExternalStudent           | Object class to store details about external student users. Similar to monashStudent.   |
| monashMDSAdminACI               | Object class that is used to record access control details for Monash Directory Service Administration programs.                              |
| monashITSurvey                  | Object class for storing results of the Monash IT Survey.   |
| monashOrganizationalEntity      | Object class for storing information about Monash Organizational Entities.  |
| monashOrganizationalUnit        | This object class contains extra information about Monash Organizational Units and is used to supplement the organizationalUnit object class. |
| monashPerson                    | This object class contains extra information about Monash people and is used to supplement the organizationalPerson object class.             |
| monashPosixGroup                | Object class for storing Monash additions to the standard Posix Group object class.   |
| monashRestriction               | This object class contains information about restrictions that have been applied to users.  |
| monashRoleAccount               | This object class contains extra information about Monash organizational roles and is used to supplement the organizationalRole object class. |
| monashSAPORganizationalUnit     | Object class for storing information about Organizational Units details that are obtained from the  |

|                      |   |
|----------------------|---|
|                      | Monash SAP-HR database.   |
| monashStudent        | This object class contains information that is specific to Monash students. It is used to supplement the monashPerson object class. |
| monashTeldirEntry    | Object class for storing basic telephone directory information.   |
| monashUidRestriction | This object class contains information about restrictions that have been applied to users.  |

**Table 2-1 - Monash object classes.**

## 2.1 *monashCalendarResource*

### Definition

Object class used to extra details for Calendar resources.

### Superior Object Class

top

| Required Attributes | Description                                       |
|---------------------|---|
| objectclass         | Specifies the objects for this object class.      |
| monashOENumber      | The Organizational Entity that owns the resource. |

| Allowed Attributes | Description                     |
|--------------------|---------------------------------|
| mail               | Email address for the resource. |
| owner              | Owner of the resource           |

## 2.2 *monashCarpoolRegistration*

### Definition

Object class used to store details of users who have registered their details in the car pool registration program.

### Superior Object Class

top

| Required Attributes | Description                                       |
|---------------------|---|
| objectclass         | Specifies the objects for this object class.      |
| employeeNumber      | Employee number of the person who has registered. |
| monashCarPoolStatus | Current car pool status for the user              |
| monashIDIssueNumber | Issue number of the user's ID card.               |

| Allowed Attributes      | Description                                       |
|-------------------------|---|
| monashCarParkPreference | Car park that the user prefers to gain access to. |
| monashHasRegistered     | Date that the user registered.                    |

### 2.3 *monashCertRegolnstance*

#### Definition

Object class used to store registration information for digital certificate registrations.

#### Superior Object Class

top

| Required Attributes      | Description  |
|--------------------------|--|
| objectclass              | Specifies the objects for this object class.   |
| cn (common name)         | Common name of the registered user.  |
| monashAdminDN            | Distinguished name of the Registration Authority officer who performed the registration.                   |
| monashAdminIPAddr        | IP address of the computer that was used to access the digital certificate Registration Authority program. |
| monashIDCheckDate        | Date that the registration took place.   |
| monashUserDN             | Distinguished name of the registered user.   |
| monashUserEmployeeNumber | Employee number of the registered user.  |
| monashUserUID            | Username of the registered user.   |

| Allowed Attributes            | Description   |
|-------------------------------|---|
| monashAdminHostname           | Host name of the computer that was used to access the digital certificate Registration Authority program. |
| ou (organizational unit name) | Organizational unit of the registered user.   |

### 2.4 *monashCertRegoRepository*

#### Definition

Object class for the digital certificate registration instances repository.

#### Superior Object Class

top

| Required Attributes | Description                                  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class. |

| Allowed Attributes            | Description                                 |
|-------------------------------|---|
| ou (organizational unit name) | Organizational unit of the registered user. |

### 2.5 *monashCruxEntry*

#### Definition

This object class contains all of the generic information about a computer account that is stored in the CRUX database.

#### Superior Object Class

top

| Required Attributes | Attrib Type | Description  |
|---------------------|-------------|--|
| objectclass         | Multi       | Specifies the objects for this object class.           |
| employeeNumber      | Multi       | Employee number of the owner of this computer account. |
| uid                 | Single      | Username   |

| Allowed Attributes         | Attrib Type | Description  |
|----------------------------|-------------|--|
| cn                         | Single      | Name of the owner of the account, or the name of the role account.   |
| gecos                      | Single      | User's name on the Monash UNIX systems. Usually the same as CN.  |
| gidNumber                  | Single      | An integer representing the user's primary group on the Monash UNIX systems.                                       |
| givenName                  | Single      | Given name of the account. Owner's given name, or part of a role account name.                                     |
| homeDirectory              | Single      | Identifies the path to the user's home directory on the Monash UNIX systems.                                       |
| l                          | Single      | Location where this account is mostly used.  |
| loginShell                 | Single      | Identifies the path to the user's UNIX account login shell.  |
| mail                       | Single      | Primary email address for this account.  |
| mailHost                   | Single      | Mailhost for this user. Central ITS mailhosts only.  |
| mailMessageStore           | Single      | Disk that the user's mail is stored on. For central mailhosts only.  |
| monashAccountType          | Single      | Shows what sort of account this is, eg "Staff", "Student", "Role", etc.  |
| monashCMSRole              | Multi       | Defines the level of access that the user has to the Content Management System.                                    |
| monashCruxChargeCode       | Single      | A unique identifier for the account.   |
| monashCruxDept             | Single      | Three letter acronym for the department that owns this account.  |
| monashCruxHost             | Multi       | Computer servers that the user has access to.  |
| monashCruxStatus           | Single      | Numerical value showing the current status of the account.   |
| monashDataSourceExpiryDate | Single      | Date that this entry expired in CRUX.  |
| monashDOB                  | Single      | Date of birth. Only used for student entries that are not obtained from Callista.                                  |
| monashGracePeriod          | Single      | Flag used to represent whether the user has been granted extended access after their entry in the MDS has expired. |
| monashInitialPassword      | Single      | Initial password for this user.  |
| monashMDSentryExpiryDate   | Single      | Date at which the entry is due to expire.  |
| monashNetwareContext       | Single      | Context for the user on the Monash Netware servers. Assumed to be for Netware 6.                                   |

|                          |        |   |
|--------------------------|--------|---|
| monashNetware4Context    | Single | Context for the user on Netware 4 servers.  |
| monashOEACL              | Multi  | Access level that this user has for managing users on various systems.  |
| monashOENumber           | Single | A number for the organizational entity that “owns” this account and has management rights over it.  |
| monashPendingDelete      | Single | Date that the user’s entry is due to be deleted from the Monash Directory Service   |
| monashPIDWord            | Single | Personal Identification Word. Used to allow the user to reset their password.   |
| monashPIDWordPhrase      | Single | Phrase which is used to help the user remember their Personal Identification Word.  |
| monashSavedPassword      | Single | A saved copy of the user’s password. Same as userpassword. Used when a user’s password has been removed to prevent them from accessing computer facilities. |
| monashStartDate          | Single | Date that an entry first existed in CRUX. Used in Internal database only.   |
| monashTeachingCommitment | Multi  | Details about subject units that the user is involved in teaching (for Staff entries only)  |
| monashVaxUID             | Single | Unique number for the user on the Monash VAX servers.   |
| ou                       | Multi  | Lists this object as being part of “ou=Crux”.   |
| personalTitle            | Single | Personal title of the user.   |
| sn                       | Single | Surname of the owner, or part of the role account name.   |
| telephoneNumber          | Single | Contact number for a person responsible for the account.  |
| uidNumber                | Single | An integer that is unique to the user on the Monash UNIX systems.   |

## 2.6 *monashEmployeeNumberRestriction*

### Definition

This object class contains information about restrictions that have been applied to users. This class must be used with the monashRestriction object class. This object class is only used in the Internal database.

### Superior Object Class

monashRestriction

| Required Attributes | Description   |
|---------------------|---|
| Objectclass         | Specifies the objects for this object class.          |
| employeeNumber      | Employee number of the user that is being restricted. |

| Allowed Attributes | Description |
|--------------------|-------------|
| None.              |             |

## 2.7 *monashExternalUser*

### Definition

Object class to store details about generic external users. Similar to *monashPerson*.

### Superior Object Class

top

| Required Attributes      | Description  |
|--------------------------|--|
| objectclass              | Specifies the objects for this object class.                   |
| monashMDSEntryExpiryDate | Date at which the entry is due to expire.                      |
| monashSponsoringOU       | Organizational unit name that has sponsored the external user. |
| uid                      | Username of the external user.                                 |

| Allowed Attributes       | Description   |
|--------------------------|---|
| gender                   | Gender of the external user.  |
| monashPendingDelete      | Date that the user's entry will be deleted.   |
| monashRestrictedAccess   | Information about why the external user's computer facilities access is restricted. |
| monashTeachingCommitment | Details about subject units that the external user is involved in teaching.         |
| personalTitle            | Personal title of the external user.  |

## 2.8 *monashExternalStudent*

### Definition

Object class to store details about external student users. Similar to *monashStudent*.

### Superior Object Class

top

| Required Attributes      | Description  |
|--------------------------|--|
| objectclass              | Specifies the objects for this object class.                           |
| monashMDSEntryExpiryDate | Date at which the entry is due to expire.                              |
| monashSponsoringOU       | Organizational unit name that has sponsored the external student user. |
| uid                      | Username of the external student user.                                 |

| Allowed Attributes     | Description   |
|------------------------|---|
| gender                 | Gender of the external student user.  |
| monashEnrolledSubject  | Subject units that the external student is enrolled in.                                     |
| monashPendingDelete    | Date that the user's entry will be deleted.   |
| monashRestrictedAccess | Information about why the external student user's computer facilities access is restricted. |
| personalTitle          | Personal title of the external student user.  |

## 2.9 *monashMDSAdminACI*

### Definition

Object class that is used to record access control details for Monash Directory Service Administration programs.

### Superior Object Class

top

| Required Attributes          | Description   |
|------------------------------|---|
| objectclass                  | Specifies the objects for this object class.                                |
| monashComputerSupportContact | Distinguished name of the user who is being given MDS administrator rights. |

| Allowed Attributes | Description   |
|--------------------|---|
| monashHostName     | Host name that this access control is allowed from.     |
| monashIPHostNumber | IP address that this access control is allowed from.    |
| monashIPHostRange  | IP host range that this access control is allowed from. |

## 2.10 *monashITSurvey*

### Definition

Object class that is used to store the results of an IT survey that happens as part of the student account registration process.

### Superior Object Class

top

| Required Attributes | Description   |
|---------------------|---|
| objectclass         | Specifies the objects for this object class.                |
| employeeNumber      | Employee number of the student who has provided the answers |

| Allowed Attributes    | Description                              |
|-----------------------|--|
| monashEnrolledFaculty | Faculty that the student is enrolled in. |
| monashQuestion1       | Answer to survey question 1.             |
| monashQuestion2       | Answer to survey question 2.             |
| monashQuestion3       | Answer to survey question 3.             |
| monashQuestion4       | Answer to survey question 4.             |
| monashQuestion5       | Answer to survey question 5.             |

## 2.11 *monashOrganizationalEntity*

### Definition

This object class contains information about an organizational entity. Used within the internal MDS database only.

## Superior Object Class

top

| Required Attributes | Description  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class.                 |
| monashOENumber      | Unique number that corresponds to the organizational entity. |

| Allowed Attributes             | Description   |
|--------------------------------|---|
| description                    | Contains the monashOUName for the organizational entity, as well as the monashOUName for all of the parent organizational entities, not including those for node organizational entity entries. |
| fascimileTelephoneNumber (fax) | Fax number associated with the organizational unit.   |
| mail                           | Email address of the relevant admin officer for the organizational entity   |
| monashBillCategory             | Category that the organizational entity belongs to for billing purposes.  |
| monashBillToName               | Name that bills should be addressed to.   |
| monashBillToParent             | Indicates whether bills should be sent to this organizational entity or to the parent organizational entity.  |
| monashChildOENumber            | Organizational entity numbers of all child organizational entities.   |
| monashCostCentre               | Cost Centre for the organizational entity. Used for billing.  |
| monashDataSourceExpiryDate     | Date at which the entry expired in the source database.   |
| monashFundCode                 | Fund Code for the organizational entity. Used for billing.  |
| monashOEType                   | Type of Organizational Entity, eg “School”, “Department”.   |
| monashOUName                   | Full name of the organizational unit.   |
| monashParentOENumber           | Organizational Entity number of the parent organizational entity.   |
| monashSAPOUNumber              | SAP-HR Organizational Unit that the organizational entity is associated with.   |
| postalAddress                  | The organizational unit's mailing address.  |
| postalCode                     | The organizational unit's postal code.  |
| telephoneNumber                | Telephone number associated with the organizational unit.   |

## 2.12 monashOrganizationalUnit

### Definition

This object class contains extra information about Monash Organizational Units and is used to supplement the organizationalUnit object class.

## Superior Object Class

top

| Required Attributes | Description                                  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class. |

| Allowed Attributes           | Description   |
|------------------------------|---|
| labeleduri                   | URL to information relevant to the organizational unit.   |
| monashComputerSupportContact | Distinguished name of users who have been given MDS administrator rights to this organizational unit and all subtree objects. |
| monashMatchInfo              | Information that is used to match information from other data sources to this object class.                                   |
| monashNRgroup                | Name router domains that apply to this organizational unit.   |
| monashOENumber               | Monash Organizational Entity number that corresponds to the organizational unit.  |
| monashTeldirEntry            | Full telephone directory details for the organizational unit.   |

### 2.13 monashPerson

#### Definition

This object class contains extra information about Monash people and is used to supplement the organizationalPerson object class. cn and sn are inherited from the person object class.

#### Superior Object Class

top

| Required Attributes | Description                                  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class. |
| employeeNumber      | Employee number of the user.                 |

| Allowed Attributes             | Description   |
|--------------------------------|---|
| buildingName                   | Name of the building that the user is located in.                                   |
| certSubjectName                | Distinguished name that appears on the user's digital certificate. (staff only)     |
| gecos                          | User's name on the Monash UNIX systems.   |
| gender                         | Gender of the user.   |
| gidNumber                      | An integer representing the user's primary group on the Monash UNIX systems.        |
| homeDirectory                  | Identifies the path to the user's home directory on the Monash UNIX systems.        |
| loginShell                     | Identifies the path to the user's UNIX account login shell.                         |
| monashAlias                    | Email address aliases that apply to this user.                                      |
| monashAlternateMail            | Alternate email address that is displayed via the main web address book program.    |
| monashAlternateTelephoneNumber | Alternate telephone number that is displayed via the main web address book program. |

|                          |  |
|--------------------------|--|
| monashCertOU             | Organizational Unit details that are used when a digital certificate is issued.  |
| monashCertRegoNumber     | Digital certificate registration number details. Used to cross reference the user's entry to their digital certificate registration details in the internal digital certificate database. (staff entries only) |
| monashCMSRole            | Defines the level of access that the user has to the Content Management System.  |
| monashCommunityService   | Community Services that the user is involved with. (staff only)  |
| monashCourseCode         | Course code (students only)  |
| monashCourseDescLong     | Long name for the user's course (students only)  |
| monashCourseDescShort    | Short name for the user's course (students only)   |
| monashCruxAlias          | Username for the user in CRUX  |
| monashCruxHosts          | Computer servers that the user has access to (based on information in CRUX)  |
| monashDataSource         | Data sources that the user's information has been obtained from.   |
| monashDivisionOU         | Main faculty or division that the user belongs to. (staff only)  |
| monashEditorial          | Publications that the user has been an editor for. (staff only)  |
| monashEndDate            | Date that an entry was last valid in the MDS. Used in the Internal database only.  |
| monashFacultyEFTSU       | Percentage amount showing how much the user belongs to each particular faculty that they are associated with. (students only).   |
| monashGoofeyHandle       | User's goofey (instant messaging system) username.   |
| monashGracePeriod        | Flag used to represent whether the user has been granted extended access after their entry in the MDS has expired.   |
| monashGroupMember        | Mailing lists that the user belongs to.  |
| monashMailBox            | Real email address where the user's mail gets delivered to.  |
| monashMailBoxOther       | Outgoing email addresses that apply to this user.  |
| monashMatchInfo          | Information that is used to match information from other data sources to this user.  |
| monashMDSEntryExpiryDate | Date at which the entry is due to expire.  |
| monashMetaCN             | CN from the user's DN. Used for Meta Directory mapping.  |
| monashNovellContext      | Context for the user on the Monash Novell servers.   |
| monashOEACL              | Access control used for maintaining Organizational Entity information.   |
| monashOENumber           | Monash Organizational Entity number that corresponds to the organizational unit.   |
| monashOfficialCN         | Official full name as recorded in an authoritative Student and Staff Services database.  |
| monashOfficialGivenName  | Official given name(s) as recorded in an authoritative Student and Staff Services database.  |

|                               |   |
|-------------------------------|---|
| monashOfficialSN              | Official surname as recorded in an authoritative Student and Staff Services database.   |
| monashOUCategory              | Describes the high level group that a person belongs to, etc “Staff” or “Associated Organizations”  |
| monashOUName                  | Name of the organizational unit that a person belongs to. This is always below a Faculty or Division level.   |
| monashPendingDelete           | Date that the user’s entry is due to be deleted from the Monash Directory Service   |
| monashPIDWord                 | Personal Identification Word. Used to allow the user to reset their password.   |
| monashPIDWordPhrase           | Phrase which is used to help the user remember their Personal Identification Word.  |
| monashProfessionalAssociation | Professional Associations that the staff member is associated with. (staff only)  |
| monashQualification           | User’s qualification details  |
| monashRelationalDetails       | Information about the user’s position at Monash. (eg full time, tenured, etc)   |
| monashResearchInterest        | The user’s research interests.  |
| monashRestrictedAccess        | Information about why the user’s access to computer facilities is restricted.   |
| monashSAPOUNumber             | SAP-HR Organisational Unit number that the user belongs to. (staff only)  |
| monashSavedPassword           | A saved copy of the user’s password. Same as userpassword. Used when a user’s password has been removed to prevent them from accessing computer facilities. |
| monashStaffPublication        | Publications that the user has published. (staff only)  |
| monashStartDate               | Date that an entry first existed in the MDS. Used in Internal database only.  |
| monashStudyMode               | Study mode (students only) (in use?)  |
| monashSupervision             | Information about projects/students that the user supervises. (staff only)  |
| monashTeachingCommitment      | Details about subject units that the user is involved in teaching (for Staff entries only)  |
| monashTeldirEntry             | Full telephone directory details for the user.  |
| monashUnixUID                 | Unique number for the user on the Monash unix servers.  |
| monashUserBiography           | Short biographical information about the user. (staff only)   |
| monashUserDN                  | States what the user’s Distinguished Name will be in the public MDS database. (not required in the monashPerson object class)                               |
| monashVaxUID                  | Unique number for the user on the Monash VAX servers.   |
| personalTitle                 | Personal title of the user.   |
| pin                           | One time Personal Identification Number that is used during the digital certificate registration process.   |
| uidNumber                     | An integer that is unique to the user on the Monash UNIX systems.   |

## 2.14 *monashPosixGroup*

### Definition

This object class contains extra information that is required in POSIX groups at Monash and is used to supplement the posixGroup object class.

### Superior Object Class

top

| Required Attributes | Description  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class.   |
| cn (common name)    | Common name of the POSIX group.  |
| monashOENumber      | Monash Organizational Entity number that corresponds to the organizational unit. This is used as an access control for modifying posixGroup details. |

| Allowed Attributes | Description  |
|--------------------|--|
| monashApprover     | A unique group member in distinguished name format. monashApprover is used to by other systems to grant extra levels of access to some members of the group. |

## 2.15 *monashRestriction*

### Definition

This object class contains information about restrictions that have been applied to users or to computer accounts. It is a super-class that is used in conjunction with either monashEmployeeNumberRestriction or monashUidRestriction and is primarily used to easily search for all restriction information. This object class is only used in the Internal database.

### Superior Object Class

top

| Required Attributes | Description                                  |
|---------------------|--|
| Objectclass         | Specifies the objects for this object class. |

| Allowed Attributes     | Description                                |
|------------------------|--|
| monashEndDate          | Date that the restriction ends             |
| monashRestrictedAccess | Information about the type of restriction. |
| monashStartDate        | Date that the restriction starts.          |

## 2.16 *monashRoleAccount*

### Definition

This object class contains extra information about Monash organizational roles and is used to supplement the organizationalRole object class.

### Superior Object Class

top

| Required Attributes | Description   |
|---------------------|---|
| objectclass         | Specifies the objects for this object class.                          |
| monashRoleManagerID | Employee number of the user who is responsible for this role account. |

| Allowed Attributes             | Description   |
|--------------------------------|---|
| buildingName                   | Name of the building that the user is located in.   |
| gecos                          | Role account's name on the Monash UNIX systems.   |
| gender                         | Gender of the user. (shouldn't be used with a role)   |
| gidNumber                      | An integer representing the role account's primary group on the Monash UNIX systems.  |
| homeDirectory                  | Identifies the path to the role account's home directory on the Monash UNIX systems.  |
| loginShell                     | Identifies the path to the role account's UNIX account login shell.   |
| monashAlias                    | Email address aliases that apply to this role account.  |
| monashAlternateMail            | Alternate email address that is displayed via the main web address book program.  |
| monashAlternateTelephoneNumber | Alternate telephone number that is displayed via the main web address book program.   |
| monashCMSRole                  | Defines the level of access that the user has to the Content Management System.   |
| monashCourseCode               | Course code (students only) (shouldn't be used for role account)  |
| monashCourseDescLong           | Long name for the user's course (students only) (shouldn't be used for role account)  |
| monashCourseDescShort          | Short name for the user's course (students only) (shouldn't be used for role account)   |
| monashCruxAlias                | Username for the role account in CRUX.  |
| monashCruxHosts                | Computer servers that the user has access to (based on information in CRUX)   |
| monashDataSource               | Data sources that the role account's information has been obtained from.  |
| monashDivisionOU               | Main faculty or division that the role account belongs to. (staff only)   |
| monashFacultyEFTSU             | Percentage amount showing how much the user belongs to each particular faculty that they are associated with. (students only). (shouldn't be used for role account) |
| monashGoofeyHandle             | User's goofey (instant messaging system) username. (shouldn't be used with a role)  |
| monashGroupMember              | Mailing lists that the role account belongs to.   |
| monashMailBox                  | Real email address where the role account's mail gets delivered to.   |
| monashMailBoxOther             | Outgoing email addresses that apply to this role account.   |
| monashMatchInfo                | Information that is used to match information from  |

|                          |  |
|--------------------------|--|
|                          | other data sources to this role account.   |
| monashMDSEntryExpiryDate | Date at which the entry is due to expire.  |
| monashMetaCN             | CN from the user's DN. Used for Meta Directory mapping.  |
| monashNovellContext      | Context for the role account on the Monash Novell servers.   |
| monashOENumber           | Monash Organizational Entity number that corresponds to the role account.  |
| monashOUCategory         | Describes the high level group that a person belongs to, etc "Staff" or "Associated Organizations"                                 |
| monashOUName             | Name of the organizational unit that a person belongs to. This is always below a Faculty or Division level.                        |
| monashPendingDelete      | Date that the user's entry is due to be deleted from the Monash Directory Service. Does not usually apply to role accounts.        |
| monashPIDWord            | Personal Identification Word. Used to allow the user to reset their own password.  |
| monashPIDWordPhrase      | Phrase which is used to help the user remember their Personal Identification Word.   |
| monashQualification      | User's qualification details (shouldn't be used for role account)  |
| monashResearchInterest   | The user's research interests. (shouldn't be used for role account)  |
| monashRestrictedAccess   | Information about why the role account's access to computer facilities is restricted.  |
| monashStaffPublication   | Publications that the user has published. (staff only) (shouldn't be used for role account)  |
| monashStudyMode          | Study mode (students only) (in use?) (shouldn't be used for role account)  |
| monashTeachingCommitment | Details about subject units that the user is involved in teaching (for Staff entries only) (shouldn't be used with a role account) |
| monashTeldirEntry        | Full telephone directory details for the role account.   |
| monashUnixUID            | Unique number for the role account on the Monash unix servers.   |
| monashUserDN             | States what the role account's Distinguished Name will be in the public MDS database.  |
| monashVaxUID             | Unique number for the role account on the Monash VAX servers.  |
| personalTitle            | Personal title of the user. (shouldn't be used with a role)  |
| uidNumber                | An integer that is unique to the role account on the Monash UNIX systems.  |

## 2.17 *monashSAPOrganizationalUnit*

### Definition

This object class contains information about organizational unit details obtained from the SAP-HR database. Used within the internal MDS database only.

### Superior Object Class

top

| Required Attributes | Description  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class.               |
| monashSAPOUNumber   | Unique number that corresponds to the organizational unit. |

| Allowed Attributes         | Description   |
|----------------------------|---|
| monashDataSourceExpiryDate | Date at which the entry expired in the source database.   |
| monashDivisionOU           | Faculty or division that the organizational unit belongs to.  |
| monashEndDate              | Date at which the organizational unit expires within SAP.   |
| monashSAPOUName            | Name that is given to the organizational unit with SAP.   |
| monashSAPParentOUNumber    | Organizational Unit number of the parent organizational unit.   |
| monashSecondaryOU          | Secondary name of the organizational unit. Usually the name of a unit that exists two levels below the faculty or division. |
| monashStartDate            | Date at which the organizational unit is valid from within SAP.   |
| monashOENumber             | Monash Organizational Entity number that corresponds to the organizational unit.  |
| monashOUCategory           | High level category that the organizational unit belongs to, eg “Staff”, “Associated Organizations”, “Commercial”           |
| monashOUName               | Full name of the organizational unit.   |

## 2.18 *monashStudent*

### Definition

This object class contains information that is specific to Monash students. It is used to supplement the monashPerson object class.

### Superior Object Class

top

| Required Attributes | Description                                  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class. |
| employeeNumber      | Employee number of the user.                 |

| Allowed Attributes    | Description                              |
|-----------------------|--|
| monashDOB             | User’s date of birth.                    |
| monashEnrolledFaculty | Faculty that the student is enrolled in. |

|                        |  |
|------------------------|--|
| monashEnrolledSubject  | Subject units that the student is enrolled in.   |
| monashGracePeriod      | Flag used to represent whether the user has been granted extended access after their entry in the MDS has expired. (not required for student accounts) |
| monashHasRegistered    | Date that the student registered to obtain their computer account information.   |
| monashRestrictedAccess | Information about why the student user's computer facilities access is restricted.   |
| monashSubjectDetails   | Extra information about subject units that the student is enrolled in.   |

## 2.19 *monashTeldirEntry*

### Definition

This object class contains a telephone directory entry. Used within the internal MDS database only.

### Superior Object Class

top

| Required Attributes | Description  |
|---------------------|--|
| objectclass         | Specifies the objects for this object class.                     |
| monashTeldirID      | Unique number that corresponds to the telephone directory entry. |

| Allowed Attributes         | Description   |
|----------------------------|---|
| buildingName               | Building that the telephone is located in.  |
| cn (common name)           | Common name of the telephone directory entry.                                       |
| givenName                  | Given name of the telephone directory entry.  |
| l (localityName)           | Location of the telephone.  |
| monashDataSourceExpiryDate | Date at which the entry expired in the source database.                             |
| monashOENumber             | Number of the Organizational Entity that this telephone directory entry belongs to. |
| monashOUName               | Organizational unit that the telephone directory entry belongs to.                  |
| monashTeldirEntry          | Full telephone directory details for the telephone directory entry.                 |
| personalTitle              | Personal title of the person that the telephone directory entry corresponds to.     |
| roomNumber                 | Room that the telephone is located in.  |
| sn (surname)               | Surname, or last name of the telephone directory entry.                             |
| telephoneNumber            | Telephone number associated with the entry.   |
| title                      | Title of the owner of the telephone.  |
| uid                        | Username of the user entry that this telephone directory entry belongs to.          |

## 2.20 *monashUidRestriction*

### Definition

This object class contains information about restrictions that have been applied to computer accounts. This class must be used with the *monashRestriction* object class. This object class is only used in the Internal database.

### Superior Object Class

*monashRestriction*

| Required Attributes | Description                                       |
|---------------------|---|
| Objectclass         | Specifies the objects for this object class.      |
| uid                 | Username of the account that is being restricted. |

| Allowed Attributes | Description |
|--------------------|-------------|
| None.              |             |

### 3. Monash Attributes

The following attributes have been created for use in the Monash Directory Service.

An abbreviation is used for the syntax of each attribute. Refer to section 1.6 “Attribute Types and Abbreviations” for further details.

Multiple values for each attribute are permitted unless it is specifically listed as a single value attribute.

#### 3.1 *certSubjectName*

##### **Description**

Contains the subject name that will be used on the user’s digital certificate. This field is used by the iPlanet Certificate Management System to publish/unpublish digital certificates (stored in userCertificate;binary) to the directory.

##### **Syntax**

cis. The format for the certificate subject name is

E=email address,CN=common name,OU=faculty or division,O=Monash University,C=AU

The organizational unit name for the “Faculty of Medicine, Nursing and Health Sciences” is rewritten to be “OU=Faculty of Medicine Nursing and Health Sciences” within the certSubjectName attribute. This is due to iPlanet Certificate Management Systems publishing problems that occurred due to the comma in the organizational unit name.

##### **Example**

certSubjectName: E=Jane.Citizen@its.monash.edu.au,CN=Jane Citizen,OU=Information Technology Services,O=Monash University,C=AU

##### **Data Source**

Digital Certificate Registration Authority programs.

#### 3.2 *gender*

##### **Description**

Defines the gender of a person.

##### **Syntax**

cis. Accepted values are “Male” and “Female”.

##### **Example**

gender: Male

##### **Data Source**

Various.

### **3.3 *monashAccountType***

#### **Description**

Used to show what sort of account each entry in the CRUX database is.

#### **Syntax**

cis. Each Crux entry must have one and only one account type. Valid values are “Staff”, “Role”, “Student”, “Test”, “Halls”, “Mannix”, “External”, “ExternalStudent”.

#### **Example**

monashAccountType: Staff

#### **Data Source**

CRUX

### **3.4 *monashAdminDN***

#### **Description**

Contains the distinguished name of the Registration Authority who has registered a user to allow them to obtain a digital certificate. This information is used when auditing Registration Authority activities.

#### **Syntax**

dn.

#### **Example**

monashAdminDN: uid=jcitizen, ou=Staff, ou=People, o=Monash

#### **Data Source**

Digital Certificate Registration Authority programs.

### **3.5 *monashAdminHostname***

#### **Description**

Contains the hostname of the machine that was used to perform a digital certificate user registration. This information is used when auditing Registration Authority activities.

#### **Syntax**

cis.

#### **Example**

monashAdminHostname: machine.its.monash.edu.au

#### **Data Source**

Digital Certificate Registration Authority programs.

### **3.6 *monashAdminIPAddr***

#### **Description**

Contains the IP address of the machine that was used to perform a digital certificate user registration. This information is used when auditing Registration Authority activities.

**Syntax**

cis.

**Example**

monashAdminIPAddr: 130.194.3.5

**Data Source**

Digital Certificate Registration Authority programs.

**3.7 monashAlias**

**Description**

Specifies email aliases that exist for the entry.

**Syntax**

cis.

**Example**

monashAlias: Janey Citizen

**Data Source**

Name router.

**3.8 monashAlternateMail**

**Description**

Alternate email address for the entry. If it exists, this email address is displayed when using the Monash web based staff directory search program rather than the entry's real email address. This is required by the "External access to staff contact details" IT policy.

**Syntax**

cis.

**Example**

monashAlternateMail: John.Citizen@its.monash.edu.au

**Data Source**

Manual entry.

**Reference**

"External access to staff contact details",  
<http://www.adm.monash.edu.au/unisec/pol/polres/itec07.html>

**3.9 monashAlternateTelephoneNumber**

**Description**

Alternate telephone number for the entry. If it exists, this telephone number is displayed when using the Monash web based staff directory search program rather than the entry's real telephone number. This is required by the "External access to staff contact details" IT policy.

**Syntax**

tel. Telephone numbers within the Monash Directory Service are formatted in international format.

**Example**

monashAlternateTelephoneNumber: +61 3 9901 234

**Data Source**

Manual entry.

**Reference**

*"External access to staff contact details"*,  
<http://www.adm.monash.edu.au/unisec/pol/polres/itec07.html>

**3.10 monashApprover**

**Description**

Identifies a member within a monashPosixGroup in distinguished name format. This allows the POSIX group to be used for LDAP authentication by external systems. monashApprover is used to by other systems to grant extra levels of access to some members of the group.

**Syntax**

dn.

**Example**

monashApprover: uid=jcitizen, ou=Staff, ou=People, o=Monash

**Data Source**

Posix group administration programs.

**Reference**

*Need a reference to how POSIX groups are handled within the MDS.*

**3.11 monashBillCategory**

**Description**

Contains the category that a monashOrganizationalEntity belongs to. Used for billing purposes.

**Syntax**

cis.

**Example**

monashBillCategory: Affiliate

**Data Source**

Manual Entry.

### **3.12 *monashBillToName***

#### **Description**

Name of the person that a bill for a monashOrganizationalEntity should be addressed to.

#### **Syntax**

cis.

#### **Example**

monashBillToName: Jane Citizen

#### **Data Source**

Manual Entry.

### **3.13 *monashBillToParent***

#### **Description**

If this flag is set, any bills for this monashOrganizationalEntity should be sent to the parent Organizational Entity.

#### **Syntax**

cis. If any values exist within this field, all bills should be passed through to the parent Organizational Entity. In practice, the only valid value for this attribute is “1”.

#### **Example**

monashBillToParent: 1

#### **Data Source**

Monash Telephone Directory.

### **3.14 *monashCarparkPreference***

#### **Description**

Contains information about the user’s preferred carpool carpark.

#### **Syntax**

cis.

#### **Example**

monashCarparkPreference: North 1

#### **Data Source**

Carpool registration program.

### **3.15 *monashCarpoolStatus***

#### **Description**

Identifies the current status of a user’s carpool application.

**Syntax**

cis. Valid details for this attribute are:

- Active – User has been given access to the carpool.
- Banned – User is banned from having access to the carpool.
- Registered – User has registered for access to the carpool.
- WaitingFull – The user is in a waiting list for access to the carpool.

**Example**

monashCarpoolStatus: Active

**Data Source**

Carpool registration program.

### **3.16 monashCertOU**

**Description**

Identifies the faculty or division that a staff member belongs to. Staff entries only. This field is only used during the digital certificate issuing process.

**Syntax**

cis. The format is the same as for monashDivisionOU, except that commas are not allowed. This is to accommodate limitations in the Digital Certificate server

**Example**

monashDivisionOU: Information Technology Services

**Data Source**

Various.

### **3.17 monashCertRegoNumber**

**Description**

Contains the user's digital certificate registration number. The registration number matches an entry within the internal digital certificate database.

**Syntax**

cis.

**Example**

monashCertRegoNumber: 23

**Data Source**

Digital Certificate Registration Authority programs.

### **3.18 monashChildOENumber**

**Description**

Organizational entity number of all child organizational entities.

**Syntax**

cis.

**Example**

monashChildOENumber: 40258

**Data Source**

Monash Telephone Directory.

### **3.19 monashCMSRole**

**Description**

Defines the level of access that the user has to the Content Management System.

**Syntax**

cis. Valid values (in order of precedence) are “master”, “admin”, “editor”, “author”. A user can belong to more than one of these roles.

**Example**

monashCMSRole: editor

**Data Source**

Manual set via the MDS tool.

### **3.20 monashCommunityService**

**Description**

Describes community services that the user is involved with. The information is used to provide user information in faculty web pages. Used within staff entries only.

**Syntax**

cis. One community service per monashCommunityService instance.

**Example**

monashCommunityService: Jane is involved with meals on wheels.

**Data Source**

Manual entry.

### **3.21 monashComputerSupportContact**

**Description**

This attribute is used to store access control information for access to Monash Directory Service administrative programs. The access controls are stored at organizational unit levels within the “o=Monash University, c=AU” hierarchy and give the relevant computer support contact the relevant access to that point in the hierarchy and to the entire subtree from that point.

**Syntax**

cis. The syntax for the monashComputerSupportContact attribute is

“ServiceType=AdminDN” where “AdminDN” is the full distinguished name of the user who has been given administrative access, and “ServiceType” is one of the following:

- MMS – Access for CRUX managers to create accounts, change passwords, create calendar resources, manage external users, etc.
- CERT – Access for Monash University Certificate Authority Registration Authorities.
- HYBRID – Access to manage external users.
- MMSDEPTADMIN – Access to both MMS and DEPTADMIN access levels.

Full details about the service types and access that they grant is described in ???

### Example

monashComputerSupportContact: MMS=cn=Jane Citizen, ou=Information Technology Service, ou=Staff, o=Monash University, c=AU

### Data Source

Manual entry.

## 3.22 *monashCostCentre*

### Description

Denotes the SAP Cost Centre that relates to a monashOrganizationalEntity. Used for billing purposes.

### Syntax

cis.

### Example

monashCostCentre: Z01234

### Data Source

Monash Telephone Directory.

## 3.23 *monashCourseCode*

### Description

Contains the user’s course code number. Student entries only.

### Syntax

cis. Integer value expected.

### Example

monashCourseCode: 0157

### Data Source

Callista.

### **3.24 *monashCourseDescLong***

#### **Description**

Contains the full name of the user's course. Student entries only.

#### **Syntax**

cis.

#### **Example**

monashCourseDescLong: Bachelor of Arts

#### **Data Source**

Callista.

### **3.25 *monashCourseDescShort***

#### **Description**

Contains the abbreviated name of the user's course. Student entries only.

#### **Syntax**

cis.

#### **Example**

monashCourseDescShort: BA

#### **Data Source**

Callista.

### **3.26 *monashCruxAlias***

#### **Description**

Identifies usernames within CRUX that belong to the user.

#### **Syntax**

cis.

#### **Example**

monashCruxAlias: jcitizen

#### **Data Source**

CRUX.

### **3.27 *monashCruxChargeCode***

#### **Description**

An identifier that is unique for each account in the CRUX database.

#### **Syntax**

cis. Usually made up of a three letter CRUX Department, followed by three numbers and a letter.

**Example**

monashCruxChargeCode: ITS276X

**Data Source**

CRUX

**3.28 monashCruxDept**
**Description**

A three letter acronym for the department that owns an account in CRUX.

**Syntax**

cis. Always made up of three alpha characters.

**Example**

monashCruxDept: ITS

**Data Source**

CRUX

**3.29 monashCruxHost**
**Description**

Identifies computer services/hosts that the user is registered on according to CRUX.

**Syntax**

cis.

**Example**

monashCruxHost: modem

**Data Source**

CRUX.

**3.30 monashCruxStatus**
**Description**

Records the status of an account in the CRUX database.

**Syntax**

cis. Valid values are numbers from 0 to 9. The definition for each value is as follows:

0 – Never registered

1 – Active

2 – Pending suspension (user is no longer valid)

3 – Suspended (No longer used - was when the user's end-date in CRUX had passed)

5 – Deregistered

6 – No Access: same as deregistered except that the daily reconcile will NOT reactivate if the id number is/becomes valid.

**Example**

monashCruxStatus: 1

**Data Source**

CRUX

**3.31 monashDOB**
**Description**

Date of birth of the user. This field is used for registration processes and must not be visible to any anonymous or user-authenticated search. Student entries only.

**Syntax**

cis. The syntax for the date is yyyy-mm-dd

**Example**

monashDOB: 1975-01-01

**Data Source**

Callista.

**3.32 monashDataSource**
**Description**

Identifies data sources that the user's information is obtained from.

**Syntax**

cis.

**Example**

monashDataSource: Teldir

**Data Source**

Directory update programs.

**3.33 monashDataSourceExpiryDate**
**Description**

Records the date that an entry was removed from a source database. Used within the internal Monash Directory Service database.

**Syntax**

cis. This attribute contains a date in yyyy-mm-dd format.

**Example**

monashDataSourceExpiryDate: 2002-12-02

**Data Source**

Directory update programs.

### **3.34 monashDivisionOU**

#### **Description**

Identifies the faculty or division that a staff member belongs to. Staff entries only.

#### **Syntax**

cis.

#### **Example**

monashDivisionOU: Information Technology Services

#### **Data Source**

Various.

### **3.35 monashEditorial**

#### **Description**

Lists publications that the user has edited. The information is used to provide user information in faculty web pages. Used within staff entries only.

#### **Syntax**

cis. One publication per monashEditorial instance.

#### **Example**

monashEditorial: Member of Editorial Board of Ramdom Journal

#### **Data Source**

Manual entry.

### **3.36 monashEmployeeNumberDN**

#### **Description**

Full distinguished name of the user entry that the object belongs to. Used for matching telephone directory and CRUX accounts details to user details.

#### **Syntax**

dn.

#### **Example**

monashEmployeeNumberDN: employeenumber=12345, ou=SAP, ou=Monash CV Data, o=Internal

#### **Data Source**

Telephone directory matching programs and manual entry.

### **3.37 monashEndDate**

#### **Description**

End date for an object.

**Syntax**

cis. This attribute contains a date in yyyy-mm-dd format.

**Example**

monashEndDate: 2002-12-02

**Data Source**

Various.

### **3.38 *monashEnrolledFaculty***

**Description**

Identifies the home faculty of a student. Student entries only. It is possible for a student to be legitimately listed in Callista as belonging to more than one faculty at the same time.

**Syntax**

cis.

**Example**

monashEnrolledFaculty: Faculty of General Studies

**Data Source**

Callista.

### **3.39 *monashEnrolledSubject***

**Description**

Lists the unit code of a subject that the user is enrolled in. Student entries only.

**Syntax**

cis. It is expected that the unit code will be three letters, followed by four numbers, followed by an optional letter.

**Example**

monashEnrolledSubject: abc1234a

**Data Source**

Callista.

### **3.40 *monashFacultyEFTSU***

**Description**

Contains details about the ratio that a student account belongs to a particular department or faculty. Student entries only.

**Syntax**

cis. The syntax for this attribute is “department name=percentage”. The department name is a text description of the department. The percentage is formatted in 000.00 format.

**Example**

monashFacultyEfts: Faculty of Medicine=092.50

**Data Source**

Callista and directory update programs.

**3.41 monashFundCode**
**Description**

Denotes the SAP Fund Code that relates to a monashOrganizationalEntity. Used for billing purposes.

**Syntax**

cis.

**Example**

monashCostCentre: 5123456

**Data Source**

Monash Telephone Directory.

**3.42 monashGoofeyHandle**
**Description**

Describes the user's goofey username. Goofey is an instant messaging system that is used at Monash University.

**Syntax**

cis.

**Example**

monashGoofeyHandle: jcitizen

**Data Source**

Manual entry.

**3.43 monashGracePeriod**
**Description**

A grace period can be applied to users to extend their access for a given time beyond their last day at Monash University. This attribute is used to record if a grace period has been applied to the user.

**Syntax**

cis. If anything is stored in this attribute, the grace period is deemed to have been applied. In practice, the only valid value for this field is "1".

**Example**

monashGracePeriod: 1

**Data Source**

MDS administrative programs.

**3.44 monashGroupMember**
**Description**

Identifies automatically generated mailing lists that the user is part of.

**Syntax**

cis.

**Example**

monashGroupMember: allmonashstaff-1

**Data Source**

Name router **and other?**

**3.45 monashHasRegistered**
**Description**

Records the date that the user obtained their computer account details.

**Syntax**

cis. If any details are contained within this attribute, the user is deemed to have registered. In practice the attribute contains the date that the user registered. The syntax for the date is yyyy-mm-dd.

**Example**

monashHasRegistered: 2002-12-02

**Data Source**

Account registration program.

**3.46 monashHostName**
**Description**

Records the full DNS hostname of a host – generally a user's PC. Primarily used for host based access controls.

**Syntax**

cis. The hostname must match a valid DNS entry.

**Example**

monashHostName: server1.its.monash.edu.au

**Data Source**

Access control administration program.

### **3.47 *monashIDCheckDate***

#### **Description**

Contains the date and time that a user went through the digital certificate registration process. This information is used when auditing Registration Authority activities.

#### **Syntax**

cis.

#### **Example**

monashIDCheckDate: Thu Apr 18 12:07:04 2002

#### **Data Source**

Digital Certificate Registration Authority programs.

### **3.48 *monashIDIssueNumber***

#### **Description**

Identifies the user's ID card issue number. Used for services that require the user's ID card for access.

#### **Syntax**

cis. An integer is expected.

#### **Example**

monashIDIssueNumber: 01

#### **Data Source**

Carpool registration program.

### **3.49 *monashIPHostNumber***

#### **Description**

Records the IP address of a host – generally a user's PC. Primarily used for host based access controls.

#### **Syntax**

cis. The IP address must match a valid DNS entry.

#### **Example**

monashIPHostNumber: 130.194.3.3

#### **Data Source**

Access control administration program.

### **3.50 monashIPHostRange**

#### **Description**

Records an IP address range. Primarily used for host based access controls.

#### **Syntax**

cis. The IP address range must match a valid DNS range.

#### **Example**

monashIPHostRange: 130.194.3.\*

#### **Data Source**

Access control administration program.

### **3.51 monashMDSEntryExpiryDate**

#### **Description**

Records the date that a user's entry in the Monash Directory Service is due to expire. If a user has more than one expiry date listed, their entry expires at the later date.

#### **Syntax**

cis. This attribute contains a date if a date is known, or a description if an exact date is unknown. The syntax for the date is yyyy-mm-dd.

#### **Example**

monashMDSEntryExpiryDate: 2003-01-01

monashMDSEntryExpiryDate: when the postgraduate course is finished

#### **Data Source**

Various.

### **3.52 monashMailBox**

#### **Description**

This attribute specifies where a user's email gets delivered (according to the name router). This is for the user's public email addresses only.

#### **Syntax**

cis.

#### **Example**

monashMailBox: jcitizen@mail.monash.edu.au

#### **Data Source**

Name router.

### **3.53 monashMailBoxOther**

#### **Description**

This attribute specifies outgoing mailboxes that the user has listed within the name router.

**Syntax**

cis.

**Example**

monashMailBox: jcitizen@otherhost.monash.edu.au

**Data Source**

Name router.

### 3.54 *monashMatchInfo*

**Description**

This attribute contains information that is used to match a user’s details to their details in other databases.

**Syntax**

cis. The syntax for this attribute is “Key=match information”. The following keys exist:

| Key    | Description                                 | Syntax   |
|--------|---|--|
| hackSN | A simplified version of the user’s surname. | Lowercase letters only.                              |
| nr     | Name router entry details                   | User’s email address with “monash.edu.au” truncated. |
| teldir | Telephone directory details                 | cn=users name in teldir, ou=department name          |

The keyword “NOT” can be added at the end of an entry to specify that the details should not be matched to the user.

**Example**

monashMatchInfo: hackSN=citizen

monashMatchInfo: nr=Jane.Citizen@its

monashMatchInfo: teldir=cn=Jane Citizen, ou=Infrastructure Services

monashMatchInfo: teldir=cn=Jane Citizen, ou=Other Department NOT

**Data Source**

Directory update programs.

### 3.55 *monashMetaCN*

**Description**

Identifies the common name that is listed in the distinguished name of a directory server object. This field is used for Meta Directory to allow it to map entries from “o=Monash” to “o=Monash University, c=AU”

**Syntax**

cis. Within the Monash Directory Service, cn is enforced as a 7-bit field (binary characters not allowed). monashMetaCN is generated based on existing cn information, and therefore should also be a 7-bit field.

**Example**

monashMetaCN: John Citizen

**Data Source**

Directory update programs.

**3.56 monashNetwareContext**
**Description**

Identifies the Netware context of the user. This is assumed to be a Netware 6 context. Netware 4 contexts are stored in monashNetware4Context.

**Syntax**

cis.

**Example**

monashNetwareContext: is.its

**Data Source**

CRUX.

**3.57 monashNetware4Context**
**Description**

Identifies the context of the user in the Netware 4 environment. This will be retired after the Netware 4 services have been retired.

**Syntax**

cis.

**Example**

monashNetware4Context: CLAY.CC

**Data Source**

CRUX.

**3.58 monashNRGroup**
**Description**

This attribute specifies which mail domains are relevant within a particular organizational unit subtree. The monashNRGroup information is used when matching name router details to entries within the Monash Directory Service.

**Syntax**

cis. The details should match a valid Monash University email domain.

**Example**

monashNRGroup: its

**Data Source**

Manual entry.

### **3.59 monashNovellContext**

#### **Description**

Identifies the Novell context of the user (according to CRUX). This is to be phased out and replaced with monashNetwareContext and monashNetware4Context.

#### **Syntax**

cis.

#### **Example**

monashNovellContext: CLAY.CC

#### **Data Source**

CRUX.

### **3.60 monashOEACL**

#### **Description**

Access control that is used to define if a user is allowed to administer Organizational Entity information.

#### **Syntax**

cis. The format of the field is “Service:OE Number:Access Level” where “Service” is the name of the system that is using the ACL, “OE Number” specifies the scope of a user’s access, starting from that point in the OE tree, and “Access Level” describes the type of access.

Valid systems:

- CRUX – Central Identity Management System
- IBQMS – Internet Billing and Quota Management System

Valid access levels for CRUX:

- To be determined

Valid access levels for IBQMS:

- Report – Access for users to run reports for the given Organizational Entity
- Admin – Systems administrator access to edit tariffs, etc
- Dispute – Dispute resolution – access to view sites that have been visited by any user within the given Organizational Entity.

#### **Example**

monashOEACL: IBQMS:40258:Report

monashOEACL: CRUX:40258:

#### **Data Source**

Manual entry.

### **3.61 monashOENumber**

#### **Description**

Identifies the organizational entity number that an entry belongs to. For more details about the organizational entity database, refer to “*Monash Directory Service – Database Design*”, section 3.4.2.2. This information is used for access controls and for billing purposes.

#### **Syntax**

cis.

#### **Example**

monashOENumber: 40258

#### **Data Source**

Various.

### **3.62 monashOEType**

#### **Description**

Describes the type of an organizational entity, eg “Department”, “School”, “Division”, “Faculty”, etc.

#### **Syntax**

cis.

#### **Example**

monashOEType: School

#### **Data Source**

Manual entry.

### **3.63 monashOfficialCN**

#### **Description**

Identifies the official common name for a person. This is the person’s full name as recorded in an official authoritative database – usually one that is maintained by Student and Services.

#### **Syntax**

cis. Within the Monash Directory Service, monashOfficialCN is expected to be a 7-bit field (binary characters not allowed).

#### **Example**

monashOfficialCN: John Citizen

#### **Data Source**

SAP-HR, Callista and other databases.

### **3.64 monashOfficialGivenName**

#### **Description**

Identifies the official given name(s) for a person as recorded in an official authoritative database – usually one that is maintained by Student and Services.

**Syntax**

cis. Within the Monash Directory Service, monashOfficialGivenName is expected to be a 7-bit field (binary characters not allowed).

More than one name is allowed in this field. The main criteria is that it should be the same as what is recorded in the official source database.

**Example**

monashOfficialGivenName: John Frederick

**Data Source**

SAP-HR, Callista and other databases.

**3.65 monashOfficialSN**

**Description**

Identifies the official surname for a person as recorded in an official authoritative database – usually one that is maintained by Student and Services database.

**Syntax**

cis. Within the Monash Directory Service, monashOfficialSN is expected to be a 7-bit field (binary characters not allowed).

**Example**

monashOfficialSN: Citizen

**Data Source**

SAP-HR, Callista and other databases.

**3.66 monashOUCategory**

**Description**

Describes the high level category that an organizational unit or person belongs to, eg “Staff” or “Associated Organizations”.

**Syntax**

cis.

**Example**

monashOUCategory: Staff

**Data Source**

Various.

**3.67 monashOUName**

**Description**

Describes the name of an organizational unit. It is expected that the organizational unit is below the level of a Faculty or Division (for example, a Department, School, Centre, etc). It is never the Faculty or Division itself. If an entry is located at a Faculty or Division level, monashOUName is not populated.

**Syntax**

cis.

**Example**

monashOUName: Department of General Studies.

**Data Source**

Various.

**3.68 monashParentOENumber**

**Description**

Organizational entity number of the parent organizational entity.

**Syntax**

cis. If the monashParentOENumber is the same as the monashOENumber, it indicates that this organizational entity is at the top of the hierarchy.

**Example**

monashParentOENumber: 40258

**Data Source**

Monash Telephone Directory.

**3.69 monashPIDWord**

**Description**

The Personal Identification Word is a word or phrase that a user can use to reset their password if they have forgotten it.

**Syntax**

cis. The monashPIDWord is SHA encrypted before being stored in the database.

**Example**

monashpidword: O8fC2GML+2+EIGnAStcIu9wX3Bx

**Data Source**

Password management program.

**3.70 monashPIDWordPhrase**

**Description**

The Personal Identification Word phrase is a phrase that is used to remind a user about what their monashPIDWord is. It is used when a user resets their password after they have forgotten it.

**Syntax**

cis.

**Example**

monashPIDWordPhrase: The name of my first pet.

**Data Source**

Password management program.

**3.71 monashPendingDelete**
**Description**

Records the date that a user's entry will be deleted from the Monash Directory Service.

**Syntax**

cis. This attribute contains a date in yyyy-mm-dd format.

**Example**

monashPendingDelete: 2003-01-01

**Data Source**

Directory update programs.

**3.72 monashProfessionalAssociation**
**Description**

Lists professional associations that the user is a member of. The information is used to provide user information in faculty web pages. Used within staff entries only.

**Syntax**

cis. One professional association per monashProfessionalAssociation instance.

**Example**

monashProfessionalAssociation: Member of Fictitious Education Society

**Data Source**

Manual entry.

**3.73 monashQualification**
**Description**

Describes the qualifications of a user.

**Syntax**

cis.

**Example**

monashQualification: BA (Monash University) 1972.

**Data Source**

Manual entry.

**3.74 monashQuestionX**
**Description**

Stores the answers to questions on the Monash IT Survey. The actual attributes are monashQuestion1, monashQuestion2, monashQuestion3, monashQuestion4, monashQuestion5.

**Syntax**

cis.

**Example**

monashQuestion1: PC  
monashQuestion2: Broadband  
monashQuestion3: Yes  
monashQuestion4: No

**Data Source**

Account registration program.

**3.75 monashRelationalDetails**
**Description**

Describes non-public information about the nature of the user's relationship with Monash University. This includes information such as "Full-Time", "Part-Time", "Tenured", "Fixed Term Contract", and "Casual".

**Syntax**

cis.

**Example**

monashRelationalDetails: Full-Time

**Data Source**

Various.

**3.76 monashResearchInterest**
**Description**

Describes areas of research that the user is interested in.

**Syntax**

cis.

**Example**

monashResearch: Material properties of polymers.

**Data Source**

Manual entry.

**3.77 monashRestrictedAccess**
**Description**

This attribute is used to block access to some Monash University computer services. The information contained in this attribute contains a reason why the user's access has been restricted.

**Syntax**

cis. If any details are contained within this attribute, the user is deemed to have restricted access.

**Example**

monashRestrictedAccess: Administration encumbrance - no IT access allowed

**Data Source**

Directory update programs.

**3.78 monashRoleManagerID**
**Description**

Lists the ID number of the person who is responsible for the role account.

**Syntax**

cis.

**Example**

monashRoleManagerID: 1234567

**Data Source**

CRUX.

**3.79 monashSAPOUName**
**Description**

Identifies the name of a SAP-HR organizational unit.

**Syntax**

cis.

**Example**

monashSAPOUName: Some dept.

**Data Source**

SAP.

**3.80 monashSAPOUNumber**

**Description**

A unique number that identifies a SAP-HR organizational unit.

**Syntax**

cis.

**Example**

monashSAPOUNumber: 50000250

**Data Source**

SAP.

**3.81 monashSAPParentOUNumber**
**Description**

Organizational unit number of the parent SAP-HR organizational unit.

**Syntax**

cis. If the monashSAPOUParentNumber is the same as the monashSAPOUNumber, it indicates that this SAP-HR organizational unit is at the top of the hierarchy.

**Example**

monashSAPOUParentNumber: 50000250

**Data Source**

SAP.

**3.82 monashSavedPassword**
**Description**

This attribute contains a user's password and encryption method. When a user's access to Monash computer facilities is revoked, their password information is moved from userPassword to monashSavedPassword. Their password can then be reinstated if they regain access to Monash computer facilities.

**Syntax**

bin. The format for this attribute is the same as for userPassword, that is {encryption method}encrypted password.

**Example**

monashSavedPassword: {SHA}Tnn5gY4FMjshPaYoiIkfeH0t3So=

**Data Source**

Directory update programs.

**3.83 monashSecondaryOU**
**Description**

Describes a secondary name for an organizational unit. This field is used within the internal Monash Directory Service database and is rewritten to be an "OU" attribute within the public

Monash Directory Service database. The secondary organizational unit is usually the name of a group that is two levels below a faculty or division.

**Syntax**

cis.

**Example**

monashSecondaryOU: Some group name.

**Data Source**

SAP.

**3.84 monashSponsoringOU**

**Description**

Identifies the organizational unit that has authorized for an external user to be created. This information is used to create organizational unit (ou) data for the external user.

**Syntax**

cis. The field contains the full distinguished name of the sponsoring organizational unit.

**Example**

monashSponsoringOU: ou=Faculty of Law, ou=Staff, o=Monash University, c=au

**Data Source**

External user administration program.

**3.85 monashStaffPublication**

**Description**

Lists articles, books, etc that the user has published. The information is used to provide user information in faculty web pages. Used within staff entries only.

**Syntax**

cis. One publication per monashStaffPublication instance.

**Example**

monashStaffPublication: “*Random Book*”, Jane Citizen et al. Publisher details, 2003

**Data Source**

Manual entry.

**3.86 monashStartDate**

**Description**

Start date for an object.

**Syntax**

cis. This attribute contains a date in yyyy-mm-dd format.

**Example**

monashStartDate: 2002-12-02

**Data Source**

Various.

**3.87 monashStudyMode**
**Description**

Describes the mode of study being undertaken by a student. This includes information such as “Distance education”, “Day” and “Evening”.

**Syntax**

cis.

**Example**

monashStudyMode: Day

**Data Source**

Callista.

**3.88 monashSubjectDetails**
**Description**

Contains extra information about a subject that the user is enrolled in. Student entries only.

**Syntax**

cis. The syntax for this attribute is “subject unit code:teaching period:teaching location:teaching time”. Note that it is possible to have more than one of these for each subject that a student is enrolled in (monashEnrolledSubject).

**Example**

monashSubjectDetails: abc1234a:S1-01:CAULFIELD:EVENING

**Data Source**

Callista.

**3.89 monashSupervision**
**Description**

This attribute lists details about projects that the user is supervising. The information is used to provide user information in faculty web pages. Used within staff entries only.

**Syntax**

cis.

**Example**

monashSupervision: 4<sup>th</sup> year honours project about such and such.

**Data Source**

Manual entry.

### **3.90 *monashTeachingCommitment***

#### **Description**

Lists the unit code of a subject that the user is involved in teaching. Staff entries only.

#### **Syntax**

cis. It is expected that the unit code will be three letters, followed by four numbers, followed by an optional letter.

#### **Example**

monashTeachingCommitment: abc1234a

#### **Data Source**

Manual entry.

### **3.91 *monashTeldirEntry***

#### **Description**

Contains details about a user's telephone directory entry. This field is used to be able to match telephone number, job title, department and location details.

#### **Syntax**

cis. The format for this attribute is

“TelephoneNumber:Title:OU:L:BuildingName:RoomNumber” where each field relates to an attribute that is defined in chapter 4 of this document.

#### **Example**

monashTeldirEntry: +61 3 990 12345:Secretary:ITS Infrastructure Services:Clayton:12:125

#### **Data Source**

Monash Telephone Directory.

### **3.92 *monashTeldirID***

#### **Description**

Contains the unique key for a telephone directory entry. Used within the Internal database only.

#### **Syntax**

cis.

#### **Example**

monashTeldirID: 41234

#### **Data Source**

Monash Telephone Directory.

### **3.93 monashUnixUID**

#### **Description**

Lists Unix UID numbers that belong to the entry.

#### **Syntax**

cis.

#### **Example**

monashUnixUID: 12345

#### **Data Source**

CRUX.

### **3.94 monashUserBiography**

#### **Description**

This attribute is used to store a short biography about the user. The information is used to provide user information in faculty web pages. Used within staff entries only.

#### **Syntax**

cis. The attribute can contain multiple lines of text by using \$-encoding.

#### **Example**

monashUserBiography: Jane is an academic with 15 years experience.\$Before taking up a position at Monash University, she worked with a number of private companies, etc.

#### **Data Source**

Manual entry.

### **3.95 monashUserDN**

#### **Description**

Contains the distinguished name of a user within the Monash Directory Service. This is used for the following:

- As an entry in the internal certificate database to record details about a user who has gone through the digital certificate registration process. This information is used when auditing Registration Authority activities.
- Used in data source information (eg for manually created users) to show what the entry's distinguished name should be within the public Monash Directory Service database.

#### **Syntax**

dn.

#### **Example**

monashUserDN: uid=jcitizen, ou=Staff, ou=People, o=Monash

#### **Data Source**

Digital Certificate Registration Authority program and manual user entry programs.

### **3.96 *monashUserEmployeeNumber***

#### **Description**

Contains the employee number of a user who has gone through the digital certificate registration process. This information is used when auditing Registration Authority activities.

#### **Syntax**

cis.

#### **Example**

monashUserEmployeeNumber: 1234567

#### **Data Source**

Digital Certificate Registration Authority programs.

### **3.97 *monashUserID***

#### **Description**

Contains the uid of a user who has gone through the digital certificate registration process. This information is used when auditing Registration Authority activities.

#### **Syntax**

cis.

#### **Example**

monashUserEmployeeNumber: 1234567

#### **Data Source**

Digital Certificate Registration Authority programs.

### **3.98 *monashVaxUID***

#### **Description**

Lists Vax UID numbers that belong to the entry.

#### **Syntax**

cis.

#### **Example**

monashVaxUID: 506000011

#### **Data Source**

CRUX.

### **3.99 *pin***

#### **Description**

The pin is a one time password that is used when obtaining a digital certificate.

#### **Syntax**

cis. The field is SHA encrypted before being stored in the database.

**Example**

pin: AA5Wpqwe9Emk4bgBapNcJYbDfVvc

**Data Source**

Digital Certificate Registration Authority program.