



VIEWDS

IDENTITY MANAGEMENT AND XML
DIRECTORY SERVICES SOLUTIONS

RELEASE NOTES VIEWDS VERSION 7.1

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Release Notes

For ViewDS Version 7.1

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CONTENTS

Significant changes in ViewDS 7.1	1
Access Presence (Web DUA)	1
Automated allocation of OID Arcs.....	4
Supplying data to a third-party application.....	5
Extended anonymous privileges.....	5
SPML access	5
Extended license key mechanism	5

Significant changes in ViewDS 7.1

This document gives an overview of the significant changes in ViewDS Version 7.1.

Access Presence (Web DUA)

The ViewDS web-based client has been renamed *Access Presence*.

Displaying alternative hierarchies

The entries in a directory are arranged in a directory hierarchy. Access Presence presents this arrangement and can also display alternative hierarchies.

As a simple illustration, consider a directory hierarchy where entries are organised according to their department. Figure 1 shows the members of the Test Department at *Widgets and Springs Incorporated*.

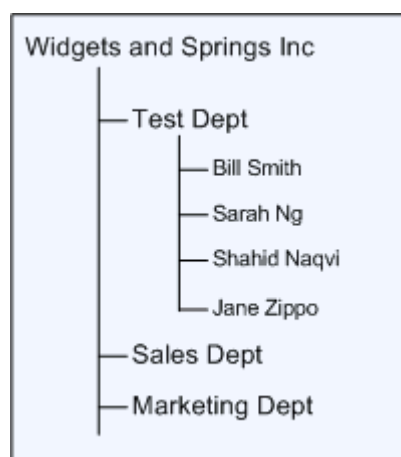


Figure 1: DIT for Widget and Springs Inc

When Access Presence displays the Expanded Entry page for a department member, it also lists the remaining members at the same level in the hierarchy. There is, however, no quick way of seeing who reports to whom within the department – Sarah Ng is actually the manager of the Test Department, but this is not conveyed.

The board of Widgets and Springs Inc now decide they wanted to see the managerial relationships within their organisation. This can be achieved through Access Presence by incorporating template tags for an alternative hierarchy.

The alternative hierarchy uses the value of a specific attribute in each entry, which is identified in the appropriate template file tags. In this example, the alternative hierarchy is based on the value of each entry's 'ReportsTo' attribute.

When Access Presence now displays details of a department member, it also shows the alternative hierarchy. So, when Sarah Ng's entry is displayed, all employees who report to her – the rest of the testers – are listed as subordinates.

The new templates and tags that allow an alternative hierarchy to be implemented are described in the *Technical Reference Guide: User Interfaces*.

Approval process for directory changes

This new mechanism provides the option to impose an approval process on changes to the directory.

A user is designated either a 'requestor' or an 'approver'. A requestor can submit a request to add, modify, delete or move an entry. Later, a user with appropriate access rights, an approver, can either approve or reject the request.

For instructions to implement the approval process, see the *Technical Reference Guide: User Interfaces*.

Making global changes

An Access Presence user can now make a change to an attribute's value in multiple entries – referred to as making a global change. However, before the user can use this functionality, the ViewDS DSA must be configured appropriately (see the *Technical Reference Guide: User Interfaces*).

Changes to Search Forms and Search Results

Location of search fields

The Search Form definition has been extended to allow you to control the location of search fields. You can define whether a search field should be displayed on the Search Form page, Search Results page, or both (the default).

A Search Form can be modified through the Stream DUA (see *searchOptions* in the *Technical Reference Guide: User Interfaces*) or through the ViewDS Management Agent (see the help topic *View or modify a Search Form*).

Drop-down lists

An attribute's schema definition can specify a set of possible values. Access Presence displays these values in a drop-down list on the Modify page and Search Form page.

For this functionality to work on the Search Form page a search field must not be overloaded – that is, in the ViewDS Management Agent, all values in the 'column' box of the Row Attributes window must be unique (see the help topic *View or modify a Search Form*). Also, one of the following must also be set to off:

- the configuration-file parameter `webSelectableField`; or
- the `selectable` argument in the `VFSearchFields` tag

For information about the above, see the *Technical Reference Guide: User Interfaces*. For information about declaring a set of values in an attribute's schema, see *Parsing rules for attributeSyntax* in the *Technical Reference Guide: Directory System Agent*.

Ordering strategy

The algorithm used to sort entries on the Search Results page can now be defined in a Search Form.

The ordering strategy can be set through either:

- ViewDS Management Agent – see the help topic *View or modify an object class's DUA presentation*
- Stream DUA – see the `orderingStrategy` field in the *Technical Reference Guide: User Interfaces*

Resubmit a query

A new template file tag `VFQueryURI` allows a user to resubmit their query from the Search Results page, optionally with a different Search Result template or base object for the search.

Displaying a preferred name

A *preferred name* attribute can be defined for a class of entry. The value of the attribute is then used as an entry's label in the Access Presence pages, providing an alternative to using the default label. The default is the entry's mandatory naming attribute defined by schema. (The value of a preferred name attribute also appears in the labels generated by the new tag `VFLabel` and for links to Distinguished Names.)

The preferred name can be accessed through either:

- Stream DUA – see `objectClassPresentation` in the *Technical Reference Guide: User Interfaces*
- ViewDS Management Agent – see the help topic *View or modify an object class's DUA presentation*

Greater control over extra template files

There is now greater control over the presentation of the 'extra templates' identified in the extra template file. The extra template file has an additional field that associates an 'extra template' with a specific format file. The extra template will use its template-specific format file plus the standard format file. (The definitions in the template-specific format file take precedence over those in the standard format file.)

Extended target object functionality

A user can now make more than one entry the 'target object' by adding multiple entries to the *target-object cache*.

In this and previous versions of ViewDS, several pages include links relating to the target-object cache. For example, links include 'Set target object' and 'Show target object'.

The 'Set target object' link allows the user to designate an entry to be a *target object* by placing it in the target-object cache. The user can then apply actions to the target object. For example, when they:

- move an entry – the *target object* will become its new superior
- print a report – the *target object* will be the base object for the report
- click 'Show target object' – the *target object* will be displayed

The entry remains in the target-object cache until the user selects 'Set target object' for another entry.

Now, in version 7.1, the user has the option to add multiple entries to the target-object cache (for example, by selecting an 'Add to cache' link). The user can then apply actions to all entries in the cache, such as adding them to a group.

There are several new template file tags to support this modified functionality.

Changes to the VFAttVal tag

Override the default delimiter

The argument `delimiter` has been added to the `VFAttVal` tag. It identifies a delimiter character that overrides the default set for an attribute (see the ViewDS Management Agent help topic *View or modify an attribute's DUA presentation*).

Referencing specific values in a multi-valued attribute

The argument `list` has been added to the `VFAttVal` tag. It can be used to reference a specific value in a multi-valued attribute.

Displaying an attribute's description on mouse roll-over

A description can now be defined in an attribute's DUA presentation. It can be set through either:

- ViewDS Management Agent – see the help topic *View or modify an attribute's DUA presentation*
- Stream DUA – see the `description` argument of the `attributePresentation` attribute in the *Technical Reference Guide: DSA*

The description can be displayed as a tooltip when the mouse is placed over a particular area of the attribute's row in the Modify page. The area of the row that responds to the mouse-over is controlled by the new argument `description` in the `VFAttVal` tag.

Other changes

XHTML compliance

The new block tag `VFModifyForm` has been introduced and encloses the existing tag `VFModifyAtt` to ensure that the HTML it produces is XHTML compliant.

Restrictions on adding entries

When a user adds a new entry, the Modify page now lists only the attributes they have permission to add (according to the schema and access controls).

Extended scope argument

This argument has been extended so that it can identify a specific entry in a DIT.

VFEOL

This new tag is replaced by an end-of-line character sequence.

Automated allocation of OID Arcs

ViewDS allows you to declare object identifier (OID) arcs for user-defined matching rules, attributes, object classes and name forms. This ensures that an OID can be automatically allocated when you create a new schema definition through the ViewDS Management Agent.

The arcs are stored in the following operational attribute in a DSA subschema subentry: `viewDSSubschemaObjectIdentifiers`. This can be accessed through the Stream DUA (see the *Technical Reference Guide: DSA*) or ViewDS Management Agent (see the help topic *View or modify OID arcs*).

Supplying data to a third-party application

LDAP change log

The LDAP change log is a mechanism to support synchronisation with third-party applications. The log is a subtree containing each change made to the DIT. It does, however, add a significant overhead to every update operation and should only be enabled if required by a third-party application.

You can manage the LDAP change log through either the ViewDS Management Agent (see the help topic *Initialize the LDAP change log*) or the Stream DUA (see the *Technical Reference Guide: DSA*).

Virtual List Views

A Virtual List View is a way to return a specified set of data to a third-party application. For example, an email client can be configured to make an LDAP connection to ViewDS, extract the entries identified by a Virtual List View, and use them to populate its address book.

You can define a Virtual List View through either the ViewDS Management Agent (see the help topic *Define a Virtual List View*) or the Stream DUA (see the *Technical Reference Guide: DSA*).

Extended anonymous privileges

The anonymous privileges have the following additional protocols:

- `xacmlProtocol` (eXtensible Access Control Language Protocol)
- `spmlProtocol` (Service Provisioning Markup Language Protocol)

There is also an additional credential type `saslGSSAPI`. With this option credentials are provided by a SASL authentication mechanism if the identity authenticates through the GSS-API SASL mechanism, but ViewDS cannot map them to an entry in the directory.

Anonymous privileges can be managed through Stream DUA (see `anonymousPrivilege` in the *Technical Reference Guide: DSA*) or through the ViewDS Management Agent (see the help topic *Configure anonymous privileges*).

SPML access

ViewDS supports the DSMLv2 profile of SPML version 2.0 (SPMLv2). SPMLv2 requests are received on the DSA's SOAP address port. This port is the only configuration required for an existing directory tree. For further information, see the *Technical Reference Guide: DSA*.

Extended license key mechanism

The license key mechanism has been extended to provide greater control over the ViewDS functionality available. The following now have separate entitlements granted through the licence key: DSA, Printing DUA, Access Presence and the Stream DUA's synchronization functionality. All existing licence keys grant all of these entitlements.