NAME

    ldap_get_values, ldap_get_values_len, ldap_count_values - LDAP attribute value handling routines

LIBRARY

    OpenLDAP LDAP (libldap, -lldap)

SYNOPSIS

    #include <ldap.h>

    char **ldap_get_values(ld, entry, attr)
    LDAP *ld;
    LDAPMessage *entry;
    char *attr;

    struct berval **ldap_get_values_len(ld, entry, attr)
    LDAP *ld;
    LDAPMessage *entry;
    char *attr;

    int ldap_count_values(vals)
    char **vals;

    int ldap_count_values_len(vals)
    struct berval **vals;

    void ldap_value_free(vals)
    char **vals;

    void ldap_value_free_len(vals)
    struct berval **vals;

DESCRIPTION

    These routines are used to retrieve and manipulate attribute values from an LDAP entry as returned by
    ldap_first_entry(3) or **ldap_next_entry**(3). **ldap_get_values()** takes the *entry* and the attribute *attr*
    whose values are desired and returns a NULL-terminated array of the attribute's values. *attr* may be an
    attribute type as returned from **ldap_first_attribute**(3) or **ldap_next_attribute**(3), or if the attribute type
    is known it can simply be given.

    The number of values in the array can be counted by calling **ldap_count_values()**. The array of values

returned can be freed by calling **ldap_value_free()**.

If the attribute values are binary in nature, and thus not suitable to be returned as an array of char *'s, the **ldap_get_values_len()** routine can be used instead. It takes the same parameters as **ldap_get_values()**, but returns a NULL-terminated array of pointers to berval structures, each containing the length of and a pointer to a value.

The number of values in the array can be counted by calling **ldap_count_values_len()**. The array of values returned can be freed by calling **ldap_value_free_len()**.

ERRORS
If an error occurs in **ldap_get_values()** or **ldap_get_values_len()**, NULL is returned and the **ld_errno** field in the *ld* parameter is set to indicate the error. See **ldap_error**(3) for a description of possible error codes.

NOTES
These routines dynamically allocate memory which the caller must free using the supplied routines.

SEE ALSO
ldap(3), **ldap_first_entry**(3), **ldap_first_attribute**(3), **ldap_error**(3)

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