NAME

    ddi_ufm_slot, **ddi_ufm_slot_set_version**

SYNOPSIS

    void
    ddi_ufm_slot_set_version(*ddi_ufm_slot_t *usp*, *const char *version*);

    void
    ddi_ufm_slot_set_attrs(*ddi_ufm_slot_t *usp*, *ddi_ufm_attr_t attrs*);

    void
    ddi_ufm_slot_set_primary(*ddi_ufm_slot_t *usp*, *boolean_t isprimary*);

    void
    ddi_ufm_slot_set_misc(*ddi_ufm_slot_t *usp*, *nvlist_t *nvl*);

INTERFACE LEVEL

    Evolving - This interface is evolving still in illumos. API and ABI stability is not guaranteed.

PARAMETERS

    usp   A pointer to a UFM slot structure that was passed to the driver in its
                     ddi_ufm_op_fill_slot(9E) entry point.

    version   A device-specific ASCII string that indicates the current version of the firmware image
                     in the slot.

    attrs   The bitwise-inclusive-OR of one of several attributes of a firmware slot. See the
                     discussion of the **ddi_ufm_op_fill_slot**() function in ddi_ufm(9E).

    isprimary A boolean indicating whether or not this slot is the currently active firmware slot.

    nvl   An nvlist_t with ancillary, device-specific data.

DESCRIPTION

    The **ddi_ufm_slot_set_version**(), **ddi_ufm_slot_set_attrs**(), **ddi_ufm_slot_set_primary**(), and
    ddi_ufm_slot_set_misc() functions are used by device drivers to set information about a firmware slot
    on the slot structure *usp* as a part of implementing their ddi_ufm_op_fill_slot(9E) entry point. For more
    information on slots and the use of these functions, see the description of the **ddi_ufm_op_fill_slot**()
    function in ddi_ufm(9E).

The **ddi_ufm_slot_set_version**() function sets the version property of a firmware slot. The version should be a human-readable ASCII string that describes the current firmware revision in a way that makes sense to an administrator and someone who is referencing the documentation of a vendor.

The **ddi_ufm_slot_set_attrs**() function describes attributes of a UFM slot. For example, whether the firmware in the slot can be read or written.

The **ddi_ufm_slot_set_primary**() function is used to indicate whether a given slot is the primary or active slot. If a device only has a single slot, then the driver does not need to call this function. The slot will always be treated as the primary in that case.

The **ddi_ufm_slot_set_misc**() function is used by the driver to set ancillary key-value data that may be useful to a consumer. For example, a driver may use this method to encode specific information that the firmware provides about how or when it was produced or installed on the device. The driver should create an nvlist for this purpose with nvlist_alloc(9F). Once the driver passes the nvlist to the **ddi_ufm_slot_set_misc**() function, then the driver must not manipulate or free the nvlist at all. It is the property of the UFM subsystem.

CONTEXT

These function should only be called in the context of the ddi_ufm_op_fill_slot(9E) entry point. However, these functions may be called from **kernel** context.

SEE ALSO