

# *Media MessageSet*

The *Media* messageset contains a set of events that are used to report status changes of removable media to upper layers. The events distinguish between *cards* (for example a PCMCIA card controlling a disk or network) and *media* (floppy disks, CDROMs, tapes etc.) since on a laptop both the controller card and the media may be removable for external drives.

## **Event Definitions**

### **MEDIA\_CARD\_EJECT**

```
typedef struct
{
    uint          event_type          card eject event
    int           slot_nr             which slot changed
}ROME_P_MEDIA_CARD_EJECT;
```

The *MEDIA\_CARD\_EJECT* event signals the removal of a controller card from the system. The *slot\_nr* identifies which physical interface has been removed

### **MEDIA\_CARD\_INSERT**

```
typedef struct
{
    uint          event_type          card insert event
    int           slot_nr             which slot changed
}ROME_P_MEDIA_CARD_INSERT;
```

The *MEDIA\_CARD\_INSERT* event signals the insertion of a controller card into the slot into the slot identified by *slot\_nr*. No further information is given, it is up to the individual processes receiving the event to probe the slot to determine the type of card.

### **MEDIA\_MEDIUM\_EJECT**

```
typedef struct
{
    uint          event_type          medium eject event
    int           slot_nr             which slot changed
}ROME_P_MEDIA_MEDIUM_EJECT;
```

The *MEDIA\_MEDIUM\_INSERT* event signals the (possible) removal of the medium in slot *slot\_nr* of the device. Processes receiving this event should assume that the medium has been replaced, and clear any cached data for that

device. Note that, in particular, this event is generated when the floppy-drive is turned off, since the medium can be removed and replaced without the driver being made aware of it.

### **MEDIA\_MEDIUM\_INSERT**

```
typedef struct
{
    uint          event_type          medium insert event
    int          slot_nr            which slot changed
}ROME_P_MEDIA_MEDIUM_INSERT;
```

The *MEDIA\_MEDIUM\_INSERT* event signals the detection of a removable medium being inserted into *slot\_nr* of the device. As not all devices are capable of detecting media insertions, upper layers can usually probe for a valid medium, rather than use this event.