NAME

XkbChangeMap - Update only partial components of a keyboard description, modify the appropriate fields in the server and map components of a local copy of the keyboard description

SYNOPSIS

Bool XkbChangeMap (Display ****dpy*, XkbDescPtr** *xkb***, XkbMapChangesPtr** *changes***);**

ARGUMENTS

dpy connection to X server

xkb description from which new values are taken

changes

identifies component parts to update

DESCRIPTION

To update only partial components of a keyboard description, modify the appropriate fields in the server and map components of a local copy of the keyboard description, then call *XkbChangeMap* with an XkbMapChangesRec structure indicating which components have changed.

XkbChangeMap copies any components specified by the *changes* structure from the keyboard description, *xkb*, to the X server specified by *dpy*.

If any components specified by *changes* are not present in the *xkb* parameter, *XkbChangeMap* returns False. Otherwise, it sends a request to the server and returns True.

XkbChangeMap can generate BadAlloc, BadLength, and BadValue protocol errors.

RETURN VALUES

True	The XkbChangeMap function returns True if the components specified by *changes* are present in the *xkb* parameter.
False	The XkbChangeMap function returns False if the components specified by *changes* are not present in the *xkb* parameter.

STRUCTURES

Use the XkbMapChangesRec structure to identify and track partial modifications to the mapping components and to reduce the amount of traffic between the server and clients.

typedef struct _XkbMapChanges {

```
    unsigned short   changed;          /* identifies valid components in structure */
    KeyCode          min_key_code;     /* lowest numbered keycode for device */
    KeyCode          max_key_code;     /* highest numbered keycode for device */
    unsigned char    first_type;       /* index of first key type modified */
    unsigned char    num_types;        /* # types modified */
    KeyCode          first_key_sym;    /* first key whose key_sym_map changed */
    unsigned char    num_key_syms;     /* # key_sym_map entries changed */
    KeyCode          first_key_act;    /* first key whose key_acts entry changed */
    unsigned char    num_key_acts;     /* # key_acts entries changed */
    KeyCode          first_key_behavior; /* first key whose behaviors changed */
    unsigned char    num_key_behaviors;  /* # behaviors entries changed */
    KeyCode          first_key_explicit; /* first key whose explicit entry changed */
    unsigned char    num_key_explicit;   /* # explicit entries changed */
    KeyCode          first_modmap_key;   /* first key whose modmap entry changed */
    unsigned char    num_modmap_keys;    /* # modmap entries changed */
    KeyCode          first_vmodmap_key;  /* first key whose vmodmap changed */
    unsigned char    num_vmodmap_keys;   /* # vmodmap entries changed */
    unsigned char    pad1;             /* reserved */
    unsigned short   vmods;            /* mask indicating which vmods changed */
} XkbMapChangesRec,*XkbMapChangesPtr;
```

DIAGNOSTICS

BadAlloc Unable to allocate storage

BadLength The length of a request is shorter or longer than that required to minimally contain the arguments

BadValue An argument is out of range