## XMapEvent, XMappingEvent - MapNotify and MappingNotify event structures

The structure for MapNotify events contains:
typedef struct \{
int type;
unsigned long serial;
Bool send_event;
Display *display;
Window event;
Window window;
Bool override_redirect; /* boolean, is override set... */
/* MapNotify */
/* \# of last request processed by server */
/* true if this came from a SendEvent request */
/* Display the event was read from */

When you receive this event, the structure members are set as follows.
The type member is set to the event type constant name that uniquely identifies it. For example, when the X server reports a GraphicsExpose event to a client application, it sends an XGraphicsExposeEvent structure with the type member set to GraphicsExpose. The display member is set to a pointer to the display the event was read on. The send_event member is set to True if the event came from a SendEvent protocol request. The serial member is set from the serial number reported in the protocol but expanded from the 16 -bit least-significant bits to a full 32-bit value. The window member is set to the window that is most useful to toolkit dispatchers.

The event member is set either to the window that was mapped or to its parent, depending on whether StructureNotify or SubstructureNotify was selected. The window member is set to the window that was mapped. The override_redirect member is set to the override-redirect attribute of the window. Window manager clients normally should ignore this window if the override-redirect attribute is True, because these events usually are generated from pop-ups, which override structure control.
The structure for MappingNotify events is:
typedef struct \{
int type;
unsigned long serial;
Bool send_event;
Display *display;
Window window;
int request;
int first_keycode;
int count;
\} XMappingEvent;

```
/* MappingNotify */
/* \# of last request processed by server */
/* true if this came from a SendEvent request */
/* Display the event was read from */
/* unused */
/* one of MappingModifier, MappingKeyboard,
    MappingPointer */
/* first keycode */
/* defines range of change w. first_keycode*/
```

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The request member is set to indicate the kind of mapping change that occurred and can be MappingModifier, MappingKeyboard, MappingPointer. If it is MappingModifier, the modifier mapping was changed. If it is MappingKeyboard, the keyboard mapping was changed. If it is MappingPointer, the pointer button mapping was changed. The first_keycode and count members are set only if the request member was set to MappingKeyboard. The number in first_keycode represents the first number in the range of the altered mapping, and count represents the number of keycodes altered.

XAnyEvent(3X11), XButtonEvent(3X11), XCreateWindowEvent(3X11), XCirculateEvent(3X11), XCirculateRequestEvent(3X11), XColormapEvent(3X11), XConfigureEvent(3X11), XConfigureRequestEvent(3X11), XCrossingEvent(3X11), XDestroyWindowEvent(3X11),
XErrorEvent(3X11), XExposeEvent(3X11), XFocusChangeEvent(3X11),
XGraphicsExposeEvent(3X11), XGravityEvent(3X11), XKeymapEvent(3X11),
XMapRequestEvent(3X11), XPropertyEvent(3X11), XReparentEvent(3X11),
XResizeRequestEvent(3X11), XSelectionClearEvent(3X11), XSelectionEvent(3X11), XSelectionRequestEvent(3X11), XUnmapEvent(3X11), XVisibilityEvent(3X11)
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