X11 Screen Saver Extension

MIT X Consortium Proposed Standard

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X11 Screen Saver Extension: MIT X Consortium Proposed Standard

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Table of Contents

Chapter 1. Introduction

Chapter 2. Assumptions

[illegible] `QueryTree` [illegible]

Chapter 3. Overview

[illegible] `SetScreenSaver` [illegible]

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[illegible]

Chapter 4. Issues

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Chapter 5. Protocol

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Types

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Errors

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Requests

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[illegible] QueryTree [illegible]

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[illegible]	[illegible]
[illegible]	[illegible] ScreenSaverSetAttributes [illegible]

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[illegible] ScreenSaverSelectInput

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Events

[illegible]

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[illegible]

[illegible] ScreenSaverSelectInput [illegible]

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[illegible] ScreenSaverQueryInfo [illegible]

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Chapter 6. Encoding

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Common Types

```
SETofSCREENSAVEREVENT
     #x00000001     ScreenSaverNotifyMask
     #x00000002     ScreenSaverCycleMask
```

Requests

ScreenSaverQueryVersion

```
1     CARD8                    screen saver opcode
1     0                        minor opcode
2     2                        request length
1     CARD8                    client major version
1     CARD8                    client minor version
2                              unused
->
1     1                        Reply
1                              unused
2     CARD16                   sequence number
4     0                        reply length
1     CARD8                    server major version
1     CARD8                    server minor version
22                             unused
```

ScreenSaverQueryInfo

```
1     CARD8                    screen saver opcode
1     1                        minor opcode
2     2                        request length
4     DRAWABLE                 drawable associated with screen
->
1     1                        Reply
1     CARD8                    state
      0          Off
      1          On
      3          Disabled
2     CARD16                   sequence number
4     0                        reply length
4     WINDOW                   saver window
4     CARD32                   milliseconds until saver or since saver
4     CARD32                   milliseconds since last user device input
4     SETofSCREENSAVEREVENT    event mask
1     CARD8                    kind
```

```
      0          Blanked
      1          Internal
      2          External
10               unused
```

ScreenSaverSelectInput

```
1     CARD8                     screen saver opcode
1     2                         minor opcode
2     3                         request length
4     DRAWABLE                  drawable associated with screen
4     SETofSCREENSAVEREVENT     event mask
```

ScreenSaverSetAttributes

```
1     CARD8                     screen saver opcode
1     3                         minor opcode
2     6+n                       request length
4     DRAWABLE                  drawable associated with screen
2     INT16                     x
2     INT16                     y
2     CARD16                    width
2     CARD16                    height
2     CARD16                    border-width
1                               class
      0          CopyFromParent
      1          InputOutput
      2          InputOnly
1     CARD8                     depth
4     VISUALID                  visual
      0          CopyFromParent
4     BITMASK                   value-mask (has n bits set to 1)
      encodings are the same as for core CreateWindow
4n    LISTofVALUE               value-list
      encodings are the same as for core CreateWindow
```

ScreenSaverUnsetAttributes

```
1     CARD8                     screen saver opcode
1     4                         minor opcode
2     3                         request length
4     DRAWABLE                  drawable associated with screen
```

Events

ScreenSaverNotify

```
1     CARD8                     code assigned by core
1     CARD8                     state
      0          Off
      1          On
      2          Cycle
2     CARD16                    sequence number
4     TIMESTAMP                 time
4     WINDOW                    root
4     WINDOW                    screen saver window
```

```
1      CARD8                    kind
       0           Blanked
       1           Internal
       2           External
1      BOOL                     forced
14                              unused
```

Chapter 7. Inter-Client Communications Conventions

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Chapter 8. C language binding

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`Bool` **`XScreenSaverQueryExtension`**`(`*`*display`*`, `*`*event_base`*`, `*`*error_base`*`);`

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`Status` **`XScreenSaverQueryVersion`**`(`*`*display`*`, `*`*major`*`, `*`*minor`*`);`

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`Status` **`XScreenSaverQueryInfo`**`(`*`*display`*`, `*`drawable`*`, `*`*saver_info`*`);`

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```
typedef struct {
    Window window;                /* screen saver window */
    int state;                    /* ScreenSaver{Off,On,Disabled} */
    int kind;                     /* ScreenSaver{Blanked,Internal,External} */
    unsigned long til_or_since;   /* milliseconds */
    unsigned long idle;           /* milliseconds */
    unsigned long event_mask;     /* events */
} XScreenSaverInfo;
```

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`void` **`XScreenSaverSelectInput`**`(`*`*display`*`, `*`drawable`*`, `*`event_mask`*`);`

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```
typedef struct {
    int type;               /* of event */
    unsigned long serial;   /* # of last request processed by server */
    Bool send_event;        /* true if this came frome a SendEvent request */
    Display *display;       /* Display the event was read from */
    Window window;          /* screen saver window */
    Window root;            /* root window of event screen */
    int state;              /* ScreenSaver{Off,On,Cycle} */
    int kind;               /* ScreenSaver{Blanked,Internal,External} */
    Bool forced;            /* extents of new region */
    Time time;              /* event timestamp */
} XScreenSaverNotifyEvent;
```

[illegible] `ScreenSaverSelectInput` [illegible]

`void` **`XScreenSaverSetAttributes`**`(`*`*dpy, drawable, x, y, width, height, border_width, depth, class, *visual, valuemask, *attributes`*`);`

[illegible] `ScreenSaverSetAttributes` [illegible]

`void` **`XScreenSaverUnsetAttributes`**`(`*`*display, drawable`*`);`

[illegible]

`Status` **`XScreenSaverRegister`**`(`*`*display, screen, xid, type`*`);`

[illegible]

`Status` **`XScreenSaverUnregister`**`(`*`*display, screen`*`);`

[illegible] `_SCREEN_SAVER_ID` [illegible]

`Status` **`XScreenSaverGetRegistered`**`(`*`*display, screen, *xid, *type`*`);`

[illegible]