Inter-Client Communication Conventions Manual

X Consortium Standard

David Rosenthal, Sun Microsystems, Inc.
Edited by Stuart W. Marks

Inter-Client Communication Conventions Manual: X Consortium Standard

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[illegible]

Gabe Beged-Dov
Chan Benson
Jordan Brown
Larry Cable
Ellis Cohen
Donna Converse
Brian Cripe
Susan Dahlberg
Peter Daifuku
Andrew deBlois
Clive Feather
Stephen Gildea
Christian Jacobi
Bill Janssen
Vania Joloboff
Phil Karlton
Kaleb Keithley
Mark Manasse
Ralph Mor
Todd Newman
Bob Scheifler
Keith Taylor
Jim VanGilder
Mike Wexler
Michael Yee

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Preface to Version 1.1

[illegible]

[illegible]

Jerry Farrell
Phil Karlton
Loretta Guarino Reid
Mark Manasse
Bob Scheifler

[illegible]

Andrew Palay

[illegible]

Todd Brunhoff
Ellis Cohen
Jim Fulton
Hania Gajewska
Jordan Hubbard
Kerry Kimbrough
Audrey Ishizaki
Matt Landau
Mark Manasse
Bob Scheifler
Ralph Swick
Mike Wexler
Glenn Widener

[illegible]

Keith Packard

[illegible]

Gary Combs
Errol Crary
Nancy Cyprych
John Diamant
Clive Feather
Burns Fisher
Richard Greco
Tim Greenwood
Kee Hinckley
Brian Holt
John Interrante
John Irwin
Vania Joloboff
John Laporta
Ken Lee
Stuart Marks
Alan Mimms
Colas Nahaboo
Mark Patrick
Steve Pitschke
Brad Reed
John Thomas

Chapter 1. Introduction

[illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

[illegible]

Evolution of the Conventions

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Atoms

[illegible]

What Are Atoms?

[illegible]

[illegible]

[illegible] `InternAtom` [illegible] `GetAtomName` [illegible]

Predefined Atoms

[illegible]

> [illegible] `InternAtom` [illegible]

[illegible] `InternAtom` [illegible]

[illegible]

Naming Conventions

[illegible]

[illegible] `InternAtom` [illegible]

[illegible]

[illegible]

Semantics

[illegible]

Name Spaces

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	b	[illegible]
`ClientMessage` [illegible]	b	[illegible]

Discriminated Names

[illegible]

```
A screen
An X resource (a window, a colormap, a visual, etc.)
A client
```

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

```
Ud     (e.g.,  U0  U1  U2  U3  ...)
```

[illegible]

```
name_Ud     (e.g.,  FOO_U0  BAR_U0  FOO_U1  BAR_U1  ...)
```

[illegible]

[illegible]

```
FOO_R12345678_U23
```

[illegible]

[illegible]

Chapter 2. Peer-to-Peer Communication by Means of Selections

[illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

[illegible]

Acquiring Selection Ownership

[illegible] `SetSelectionOwner` [illegible]

SetSelectionOwner

[illegible]

[illegible] None

[illegible] CurrentTime

[illegible] CurrentTime [illegible][1]

[illegible]

[illegible] SetSelectionOwner [illegible] CurrentTime [illegible] PropertyNotify [illegible]

[illegible] SetSelectionOwner [illegible] SetSelectionOwner [illegible]

[illegible] GetSelectionOwner [illegible] SelectionRequest [illegible] SelectionClear [illegible] GetSelectionOwner [illegible]

GetSelectionOwner

[illegible]

[illegible]

[illegible] None

[illegible]

[illegible]

```
SetSelectionOwner(selection=PRIMARY, owner=Window, time=timestamp)
owner = GetSelectionOwner(selection=PRIMARY)
if (owner != Window) Failure
```

---

[1] [illegible]

[illegible] SetSelectionOwner [illegible]

Responsibilities of the Selection Owner

[illegible] Selection-Request [illegible]

```
SelectionRequest
```

[illegible] None [illegible]

$ [illegible]

[illegible] CurrentTime

[illegible] SetSelectionOwner [illegible] SelectionRequest [illegible] SelectionNotify [illegible] None [illegible] SendEvent [illegible]

[illegible]

[illegible] None [illegible]

[illegible] SelectionRequest [illegible]

[illegible] None [illegible]

[illegible]

[illegible] SelectionRequest [illegible]

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SelectionNotify

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3□947□□□□□None

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[illegible] `PropertyNotify` [illegible] `SelectionNotify` [illegible] `Selection-Notify` [illegible]

[illegible] `SelectionClear` [illegible]

```
SelectionClear
```

[illegible]

[illegible] `SetSelectionOwner` [illegible]

[illegible]

[illegible]

Giving Up Selection Ownership

[illegible]

Voluntarily Giving Up Selection Ownership

[illegible] `SetSelectionOwner` [illegible] `None` [illegible]

[illegible] `SetSelectionOwner` [illegible] `None` [illegible]

Forcibly Giving Up Selection Ownership

[illegible] `SetSelectionOwner` [illegible]

[illegible]

`SelectionClear` [illegible] `SelectionClear` [illegible]

[illegible] `SetSelectionOwner` [illegible]

Requesting a Selection

[illegible] `ConvertSelection` [illegible]

`ConvertSelection`

[illegible]

[illegible] `None`

[illegible]

[illegible] `CurrentTime`

[illegible] `CurrentTime` [illegible]

[illegible]

[illegible] `CurrentTime` [illegible] `ConvertSelection` [illegible]

[illegible] `ConvertSelection` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

 ConvertSelection H ####)

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##-H+,$H)
##D+ConvertSelectionH

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##,##)5-++,+-)
,,+

R H None+ ##$)+ConvertSelection
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R 7-,$ConvertSelectionH-##$)None+
$,4,$)##
)+#

4+ConvertSelectionHSelectionNotify-
,8+SelectionNotify#+
,7-

4H,)$$)-)
ConvertSelectionH

:+##$)None,+4,)
-+,-##
,)# $ ++,#,
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:+##$)None##-DH
--4+,,+)##$
GetPropertyH-,++-3

```
GetProperty
```

3:>7

3947

3947AnyPropertyType

%% & 3"9'

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N

#3947None

+)3V!&K' W

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3A:4+:>4&A:4+:>4KA:4+:>4'

GetProperty   + , #### $)
,#$SelectionNotifyC,
H-+-$+-#,--
 # $)   AnyPropertyType GetProperty

[illegible]

[illegible] `SelectionNotify` [illegible] `SetProperty` [illegible] `True` [illegible]

[illegible]

[illegible] `SelectionNotify` [illegible] `DeleteProperty` [illegible] `GetProperty` [illegible]

Large Data Transfers

[illegible]

- [illegible]
- [illegible] `Alloc` [illegible] `ChangeProperty` [illegible]

[illegible]

[illegible]

- [illegible]
- [illegible] `SetSelectionOwner` [illegible] `Alloc` [illegible] `XSetErrorHandler` [illegible]
- [illegible] `Alloc` [illegible] `SelectionNotify` [illegible]
- [illegible] `ChangeProperty (mode==Append)` [illegible] `Alloc` [illegible]
- [illegible] `Alloc` [illegible] `ConvertSelection` [illegible]

- [illegible] GetProperty [illegible]

[illegible]

[illegible]

Use of Selection Atoms

[illegible]

Selection Atoms

[illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

The PRIMARY Selection

[illegible]

The SECONDARY Selection

[illegible]

- [illegible]
- [illegible]

The CLIPBOARD Selection

[illegible]

- [illegible]

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R :++,H-#,$,,#+)),#+,-$$,+,#

4-##,-+-,$

"-$#+)),#H,+"A:*C79,-

6D,#-,,,$,#$-+"A:*C79,),)$#,,)#)+##4,),+,##H++)),#+-3

R :-#+"A:*C79,)),#,$

R :+,.,,,)-+,#03

R 7,,+,+))--$))#SelectionClear

R 9)#-#+"A:*C79,$)))#

R #,$-,H))#+)#+4))#$,-+"A:*C79,,4:649*:+,++)))#,-,,#,,H+))#-.+D)#E$##*#*#0

R :#H+"A:*C79,-

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Target Atoms

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9**A6P*:"4	9**A6P*:"4	Y Z
C9"@B7=>	*:6A	9+#D
C:49*	C:49*	9+)#:
"599"46P*7:4:7>	*9>	4+\,
"A9	464	.P"A9*#0
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"7A79*	"7A79*	9+\,)#:
"7A=>P>=C6	*9>	4\,))
"7*7=>P464	"7*7=>P464	")#4D
6A646	>=AA	.6A6460
99CA6	99CA6	9+-:
6>"9*=A946P*74":*4	4:>B	Y'Z9##D5
6>"9*=A946P*74":*4P :>46"59>B6	4:>B	Y'Z9##D5
8:A6P>96	464	4+#)+++
876B7=>	*:6A	9+#D
574P>96	464	.P"A:6>4P9"5:>6 *#0
:>64P*7*64?	>=AA	.:>64P*7*64?0
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[illegible] `ConvertSelection` [illegible] `SelectionRequest` [illegible] `None` [illegible]

[illegible] `SelectionRequest (target==MULTIPLE)` [illegible] `None` [illegible] `SelectionRequest` [illegible]

[illegible] `SelectionNotify` [illegible]

[illegible] `None` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] `GetSelectionOwner` [illegible]

Selection Targets with Side Effects

[illegible]

[illegible] `InternAtom` [illegible]

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R [illegible]

R [illegible]

[illegible]

[illegible] `ConvertSelection` [illegible]

[illegible]

DELETE

[illegible]

INSERT_SELECTION

[illegible]

INSERT_PROPERTY

[illegible]

Use of Selection Properties

[illegible] `None` [illegible] `ConvertSelection` [illegible]

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- [illegible] PropertyNotify [illegible]

[illegible]

- [illegible] SelectionNotify [illegible]
- [illegible]
  - [illegible] GetProperty [illegible] True [illegible]
  - [illegible] PropertyNotify [illegible] NewValue [illegible]
- [illegible] PropertyNotify [illegible]
- [illegible]

[illegible]

DRAWABLE Properties

[illegible] GetGeometry [illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

SPAN Properties

[illegible]

Manager Selections

[illegible]

[illegible]

[illegible]

[illegible] GetSelectionOwner [illegible]

[illegible] SubstructureRedirect [illegible]

[illegible]

[illegible]

[illegible] StructureNotify [illegible] GetSelectionOwner [illegible] StructureNotify [illegible] GetSelectionOwner [illegible] StructureNotify [illegible]

[illegible] ClientMessage [illegible] SendEvent [illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

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3	`ClientMessage`
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" -- --- #,+,)$,+ `StructureNotify` ## # -- - ,+ ## #9>9B6`ClientMessage`

Chapter 3. Peer-to-Peer Communication by Means of Cut Buffers

[illegible]

[illegible] `ChangeProperty` [illegible]

[illegible] `RotateProperties` [illegible] `ChangeProperty` [illegible] `Replace` [illegible]

[illegible] `GetProperty` [illegible]

[illegible] `RotateProperties` [illegible]

[illegible]

Chapter 4. Client-to-Window-Manager Communication

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Client's Actions

[illegible]

- [illegible]
- [illegible]

- [illegible]

Creating a Top-Level Window

[illegible] False [illegible]

[illegible]

```
win = XCreateSimpleWindow(dpy, DefaultRootWindow(dpy), xsh.x, xsh.y,
     xsh.width, xsh.height, bw, bd, bg);
```

[illegible]

```
win = XCreateSimpleWindow(dpy, RootWindow(dpy, screen), xsh.x, xsh.y,
     xsh.width, xsh.height, bw, bd, bg);
```

[illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

Client Properties

[illegible]

[illegible]

[illegible] Replace [illegible] Replace [illegible] ChangeProperty [illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

WM_NAME Property

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

WM_ICON_NAME Property

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`USSize`		=□□□□□#□,□+□□□□-□□□□□□□□□$□□
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`PMaxSize`	'	*□□$□□)□□#□,□+□□□□)□D□)□)□□□E□
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[illegible]	[illegible]	[illegible]
PAspect	[illegible]	[illegible]
PBaseSize	[illegible]	[illegible]
PWinGravity	[illegible]	[illegible]

[illegible] USPosition [illegible] USSize [illegible] PPosition [illegible] PSize [illegible]

[illegible]

[illegible] Unmap [illegible] NorthWest [illegible] North [illegible] NorthEast [illegible] West [illegible] Center [illegible] East [illegible] SouthWest [illegible] South [illegible] SouthEast [illegible]

[illegible] Static [illegible] NorthWest [illegible] NorthEast [illegible] SouthWest [illegible] SouthEast [illegible] North [illegible] South [illegible] East [illegible] West [illegible] Center [illegible]

[illegible]

```
width = base_width + ( i x width_inc )

height = base_height + ( j x height_inc )
```

[illegible]

[illegible]

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WM_HINTS Property

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[illegible] `UrgencyHint` [illegible] `UrgencyHint` [illegible]

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WM_CLASS Property

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WM_TRANSIENT_FOR Property

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WM_PROTOCOLS Property

[illegible]

[illegible] `ClientMessage` [illegible]

[illegible]

[illegible]

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[illegible]

WM_COLORMAP_WINDOWS Property

[illegible]

WM_CLIENT_MACHINE Property

[illegible]

Window Manager Properties

[illegible]

WM_STATE Property

[illegible]

[illegible] `xprop` [illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
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[illegible] `NormalState` [illegible] `IconicState` [illegible]

[illegible] `WithdrawnState` [illegible]

[illegible] `None` [illegible]

WM_ICON_SIZE Property

[illegible]

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Changing Window State

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- [illegible] `NormalState` [illegible]
- `IconicState` [illegible]
- `WithdrawnState` [illegible]

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- [illegible] `NormalState` [illegible]
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- [illegible] `ClientMessage` [illegible]
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[illegible] `StructureNotify` [illegible] `MapNotify` [illegible]

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:+[illegible]+[illegible])[illegible]>[illegible])[illegible]:,[illegible],[illegible],[illegible] `ClientMessage` [illegible]-[illegible]3

R [illegible]-[illegible]XX[illegible]-[illegible]-[illegible],[illegible]+[illegible]

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[illegible] `SendEvent` [illegible] `UnmapNotify` [illegible]

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[illegible] `VisibilityChange` [illegible] `VisibilityNotify` [illegible] `VisibilityNotify` [illegible]

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Configuring the Window

[illegible] `ConfigureWindow` [illegible]

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[illegible] `ConfigureRequest` [illegible]

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Changing Window Attributes

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Input Focus

[illegible]

- [illegible] `xicad` [illegible]

- [illegible] `PointerRoot` [illegible]

- [illegible] `PointerRoot` [illegible]

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R `ButtonPress`

R `ButtonRelease`

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[illegible] `CurrentTime` [illegible] `SetInputFocus` [illegible]

[illegible]

[illegible]

[illegible] `SetInputFocus` [illegible]

- `Parent` [illegible]
- `PointerRoot` [illegible]
- `None` [illegible] `None` [illegible]

[illegible] `PointerRoot` [illegible] `None` [illegible]

[illegible]

[illegible] `SetInputFocus` [illegible] `Parent` [illegible]

[illegible]

[illegible]

[illegible]

Colormaps

[illegible]

`CopyFromParent`

`BlackPixel` `WhitePixel`

`VisibilityChange`

[illegible] `InstallColormap` [illegible]

[illegible] `SendEvent` [illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible] `ClientMessage` [illegible]	[illegible]
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[illegible] `InstallColormap` [illegible] `SendEvent` [illegible] `InstallColormap` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Icons

[illegible]

[illegible]

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[illegible] `Pixmap` [illegible]

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[illegible] `InputOutput` [illegible]

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- [illegible] `ResizeRedirect` [illegible]
- [illegible]
- [illegible]
- [illegible] `Exposure` [illegible]

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Pop-up Windows

[illegible]

- [illegible]
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- [illegible]

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[illegible]

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Window Groups

[illegible]

[illegible]

[illegible]

[illegible]

Client Responses to Window Manager Actions

[illegible]

Reparenting

[illegible]

[illegible] `QueryTree` [illegible] `CreateWindow` [illegible]

[illegible] `ConfigureWindow` [illegible]

[illegible]

- [illegible] ConfigureWindow [illegible]
- [illegible] GetGeometry [illegible]
- [illegible] ParentRelative [illegible]
- [illegible] None [illegible]

[illegible] StructureNotify [illegible] ReparentNotify [illegible]

[illegible]

Redirection of Operations

[illegible]

[illegible] MapWindow [illegible] ConfigureWindow [illegible] CirculateWindow [illegible]

[illegible]

[illegible] MapWindow [illegible] PolyLine [illegible]

```
MapWindow A
PolyLine A GC <point> <point> ...
```

[illegible] Expose [illegible][1]

[illegible] ConfigureWindow [illegible]

---

[1] [illegible] Always [illegible]

```
ConfigureWindow width=N height=M
<output assuming window is N by M>
```

[illegible] StructureNotify [illegible] ConfigureNotify [illegible]

[illegible]

```
MapWindow B
SetInputFocus B
```

[illegible] MapWindow [illegible] SetInputFocus [illegible] VisibilityChange [illegible] SetInputFocus [illegible] VisibilityNotify [illegible]

[illegible] SetInputFocus [illegible] VisibilityNotify [illegible]

[illegible] ResizeRequest [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Window Move

[illegible] ConfigureNotify [illegible]

[illegible] `ConfigureNotify` [illegible]

[illegible] `SendEvent` [illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Window Resize

[illegible] `StructureNotify` [illegible] `ConfigureNotify` [illegible]

[illegible]

Iconify and Deiconify

[illegible]

[illegible] `StructureNotify` [illegible] `UnmapNotify` [illegible] `MapNotify` [illegible]

Colormap Change

[illegible] `ColormapNotify` [illegible] `ColormapNotify` [illegible]

Input Focus

[illegible] `FocusChange` [illegible] `FocusIn` [illegible] `FocusOut` [illegible]

- [illegible] True [illegible]

- [illegible] False [illegible]

- [illegible]

[illegible]

[illegible] SetInputFocus [illegible]

```
SetInputFocus
```

[illegible]

[illegible]

- [illegible] SetInputFocus [illegible] FocusIn [illegible] EnterNotify [illegible] CurrentTime [illegible]

- [illegible] SetInputFocus [illegible] Parent [illegible]

ClientMessage Events

[illegible] ClientMessage [illegible]

[illegible] ClientMessage [illegible] ClientMessage [illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

[illegible]

[illegible] SendEvent [illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Window Deletion

[illegible] `ClientMessage` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] `DestroyWindow` [illegible]

[illegible]

Redirecting Requests

[illegible] `SubstructureRedirect` [illegible] `ResizeRedirect` [illegible]

[illegible]

[illegible] `SubstructureRedirect` [illegible] `ResizeRedirect` [illegible]

[illegible] ResizeRedirect [illegible] ResizeRequest [illegible]

[illegible]

[illegible] ResizeRequest [illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

Communication with the Window Manager by Means of Selections

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible] tionOwner [illegible]

Summary of Window Manager Property Types

[illegible]

	!		
P"A9	4:>B	&	P"A9*#
P"A:6>4P9"5:>6	464	b	P"A:6>4P9"5:>6 *#
P"7A79*P:>7	:>7	'	P"7A79*P:>7 *#
P5:>4	P5:>4	'	P5:>4*#
P:"7>P>96	464	b	P:"7>P>96*#
P:"7>P:L6	P:"7>P:L6	'	P:"7>P:L6*#
P>96	464	b	P>96*#
P>79AP5:>4	P:L6P5:>4	'	P>79AP5:>4 *#
P*747"7A	947	'	P*747"7A*#
P4946	P4946	'	P4946*#
P49>:6>4P87	:>7	'	P49>:6>4P87 *#

Chapter 5. Session Management and Additional Inter-Client Exchanges

[illegible]

Client Support for Session Management

[illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

- [illegible]
- [illegible]
- [illegible]

Window Manager Support for Session Management

[illegible]

Support for ICE Client Rendezvous

[illegible]

[illegible] `ClientMessage` [illegible]

Chapter 6. Manipulation of Shared Resources

[illegible]

The Input Focus

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] `True` [illegible]

[illegible] `False` [illegible]

[illegible] `SetInputFocus` [illegible] `CurrentTime` [illegible]

The Pointer

[illegible]

[illegible]

[illegible]

[illegible] `WarpPointer` [illegible]

Grabs

[illegible]

```
pointer/keyboard-mode == Synchronous
```

AllowEvents

```
mode == ReplayPointer/Keyboard
```

[illegible]

[illegible]

[illegible]

Colormaps

[illegible] DirectColor [illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	b
[illegible]	[illegible]	b
[illegible]	[illegible]	b
[illegible]	[illegible]	b
[illegible]	[illegible]	b
[illegible]	[illegible]	b
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible] KillClient [illegible] FreeColormap [illegible]

[illegible]

[illegible]

[illegible]

The Keyboard Mapping

[illegible] `GetKeyboardMapping` [illegible]

[illegible] `ChangeKeyboardMapping` [illegible]

[illegible] `ChangeKeyboardMapping` [illegible]

[illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible] `ChangeKeyboardMapping` [illegible] `ChangeKeyboardMapping` [illegible]

[illegible] `MappingNotify` [illegible]

[illegible]

[illegible] `MappingNotify` [illegible]

The Modifier Mapping

[illegible]

[illegible] `GetModifierMapping` [illegible] `SetModifierMapping` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] `SetModifierMapping` [illegible] `Busy` [illegible]

[illegible]

[illegible]

[illegible] `xmodmap` [illegible]

[illegible] `SetModifierMapping` [illegible] `MappingNotify` [illegible] `GetModifierMap-`

`ping`[illegible]H[illegible],[illegible]-[illegible])[illegible]##[illegible]$[illegible]+[illegible])[illegible]+[illegible]$[illegible],[illegible])[illegible]+[illegible]

>[illegible]`GrabServer`[illegible]H[illegible])[illegible])[illegible]`GetModifierMapping`[illegible]`SetModifierMapping`[illegible]#[illegible],[illegible])[illegible],[illegible]

Chapter 7. Device Color Characterization

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

XYZ <-> RGB Conversion Matrices

[illegible]

[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	:>4'	[illegible]
[illegible]	:>4'	b
[illegible]	:>4'	b
[illegible]	:>4'	b
[illegible]	:>4'	b
[illegible]	:>4'	b
[illegible]	:>4'	b
[illegible]	:>4'	b

Intensity (dA RGB Value Conversion

[illegible]

```
0      RGB value/RGB intensity level pairs
1      RGB intensity ramp
```

[illegible]

[illegible]

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Chapter 8. Conclusion

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The X Registry

[illegible] `ClientMessage` [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Appendix A. Revision History

[illegible]

The X11R2 Draft

[illegible]

The July 27, 1988, Draft

[illegible]

- [illegible] `None` [illegible] `ConvertSelection` [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

The Public Review Drafts

[illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible]

Version 1.0, July 1989

[illegible]

- [illegible]

- [illegible]

- [illegible]

- [illegible] `ClientMessage` [illegible]

- [illegible] ConfigureNotify [illegible]
- [illegible] ConfigureWindow [illegible]
- [illegible]
- [illegible] ConfigureNotify [illegible]
- [illegible]
- [illegible]

Version 1.1

[illegible]

- [illegible]
- [illegible]
- [illegible]

Public Review Draft, December 1993

[illegible]

- [illegible]
- [illegible]
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- [illegible]
- [illegible]
- [illegible]
- [illegible] StaticGravity [illegible] CenterGravity [illegible]

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Version 2.0, April 1994

[illegible]

- [illegible]
- [illegible]
- [illegible] `CurrentTime` [illegible]
- [illegible] `VisibleHint` [illegible] `Urgency-Hint` [illegible]
- [illegible]

Appendix B. Suggested Protocol Revisions

[illegible]

- [illegible] `GetSelectionOwner` [illegible]
- [illegible]
- [illegible] `FocusIn` [illegible]
- [illegible] `InstallColormap` [illegible] `InstallColormap`, `UninstallColormap`, `ListInstalledColormaps` [illegible] `ColormapNotify` [illegible]
- [illegible]
- [illegible]

Appendix C. Obsolete Session Manager Conventions

[illegible]

Properties

[illegible]

[illegible]

WM_COMMAND Property

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

WM_CLIENT_MACHINE Property

[illegible]

Termination

[illegible]

[illegible]

Client Responses to Session Manager Actions

[illegible]

- [illegible]

- [illegible]

Saving Client State

[illegible] `ClientMessage` [illegible]

[illegible] `PropertyNotify` [illegible]

[illegible]

[illegible]

[illegible]

- [illegible]

- [illegible]

  - [illegible]

  - [illegible]

[illegible][1]

Window Deletion

[illegible]

Summary of Session Manager Property Types

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	b	[illegible]
[illegible]	[illegible]	b	[illegible]
[illegible]	[illegible]	'	[illegible]

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[1] [illegible]