C
Mouseless Model Keyboard Mappings

This appendix lists information for the Mouseless Model, including the following:

- Resource mappings for the Mouseless Model key bindings.
- Semantic actions for the Mouseless Model.
- SunView1 to Mouseless Model keyboard command mappings.

C.1 Mouseless Model Resources

Each action's mapping is determined by the value of a resource. The name of the resource is:

`OpenWindows.KeyboardCommand.`*`XViewSemanticAction`*

XViewSemanticAction is the name of the XView semantic action, without the `ACTION_` prefix. For the resource names, the underscore naming paradigm is changed to the capitalized paradigm (see example). Each value for a resource has the form:

`mapping[,mapping...]`

and each mapping is of the form:

KeysymName[+*Modifier* . . .]

In other words, each mapping is separated by a comma, and if the keysym is modified, then each modifier is separated by a plus sign. A modifier is either "Shift," "Ctrl," "Alt," or "Meta." Note that when giving alphabetic characters as keysyms, the case of the KeysymName is pertinent. For uppercase characters, use the uppercase alpha keysym, for example "L", instead of the lowercase with a "Shift" modifier. When an alphabetic character is not modified by shift, then use the lowercase alpha keysym (e.g., l+Meta). Unmodified ASCII keyboard commands should not be listed.

C.1.1 SunView1 Mappings

The following keyboard mappings are always loaded regardless of the setting of `OpenWindows.KeyboardCommands`.

C.1.1.1 Keyboard core functions

```
OpenWindows.KeyboardCommand.Stop: L1
OpenWindows.KeyboardCommand.Again: a+Meta,a+Ctrl+Meta,L2
OpenWindows.KeyboardCommand.Props: L3
OpenWindows.KeyboardCommand.Undo: u+Meta,L4
OpenWindows.KeyboardCommand.Copy: c+Meta,L6
OpenWindows.KeyboardCommand.Paste: v+Meta,L8
OpenWindows.KeyboardCommand.FindForward: f+Meta,L9
OpenWindows.KeyboardCommand.FindBackward: F+Meta,L9+Shift
OpenWindows.KeyboardCommand.Cut: x+Meta,L10
OpenWindows.KeyboardCommand.Help: Help
OpenWindows.KeyboardCommand.MoreHelp: Help+Shift
OpenWindows.KeyboardCommand.TextHelp: Help+Ctrl
OpenWindows.KeyboardCommand.MoreTextHelp: Help+Shift+Ctrl
OpenWindows.KeyboardCommand.DefaultAction: Return+Meta
OpenWindows.KeyboardCommand.CopyThenPaste: p+Meta
OpenWindows.KeyboardCommand.Translate: R2
```

C.1.1.2 Local navigation commands

```
OpenWindows.KeyboardCommand.Up: p+Ctrl,N+Ctrl,Up,R8,Up+Shift
OpenWindows.KeyboardCommand.Down: n+Ctrl,P+Ctrl,Down,R14,Down+Shift
OpenWindows.KeyboardCommand.Left: b+Ctrl,F+Ctrl,Left,R10,Left+Shift
OpenWindows.KeyboardCommand.Right: f+Ctrl,B+Ctrl,Right,R12,Right+Shift
OpenWindows.KeyboardCommand.JumpLeft: comma+Ctrl,greater+Ctrl
OpenWindows.KeyboardCommand.JumpRight: period+Ctrl
OpenWindows.KeyboardCommand.GoPageBackward: R9
OpenWindows.KeyboardCommand.GoPageForward: R15
OpenWindows.KeyboardCommand.GoWordForward: slash+Ctrl,less+Ctrl
OpenWindows.KeyboardCommand.LineStart: a+Ctrl,E+Ctrl
OpenWindows.KeyboardCommand.LineEnd: e+Ctrl,A+Ctrl
OpenWindows.KeyboardCommand.GoLineForward: apostrophe+Ctrl,R11
OpenWindows.KeyboardCommand.DataStart: Home,R7,Return+Shift+Ctrl,Home+Shift
OpenWindows.KeyboardCommand.DataEnd: End,R13,Return+Ctrl,End+Shift
```

C.1.1.3 Text editing commands

```
OpenWindows.KeyboardCommand.SelectFieldForward: Tab+Ctrl
OpenWindows.KeyboardCommand.SelectFieldBackward: Tab+Shift+Ctrl
OpenWindows.KeyboardCommand.EraseCharBackward: Delete,BackSpace
OpenWindows.KeyboardCommand.EraseCharForward: Delete+Shift,BackSpace+Shift
OpenWindows.KeyboardCommand.EraseWordBackward: w+Ctrl
OpenWindows.KeyboardCommand.EraseWordForward: W+Ctrl
OpenWindows.KeyboardCommand.EraseLineBackward: u+Ctrl
OpenWindows.KeyboardCommand.EraseLineEnd: U+Ctrl
OpenWindows.KeyboardCommand.MatchDelimiter: d+Meta
```

```
OpenWindows.KeyboardCommand.Empty: e+Meta,e+Ctrl+Meta
OpenWindows.KeyboardCommand.IncludeFile: i+Meta
OpenWindows.KeyboardCommand.Insert: Insert
OpenWindows.KeyboardCommand.Load: l+Meta
OpenWindows.KeyboardCommand.Store: s+Meta
```

C.1.2 Basic Mappings

When the `OpenWindows.KeyboardCommands` resource is set to Basic *or* Full, the following keyboard mappings are loaded.

C.1.2.1 Local navigation commands

```
OpenWindows.KeyboardCommand.Up: Up
OpenWindows.KeyboardCommand.Down: Down
OpenWindows.KeyboardCommand.Left: Left
OpenWindows.KeyboardCommand.Right: Right
OpenWindows.KeyboardCommand.JumpUp: Up+Ctrl
OpenWindows.KeyboardCommand.JumpDown: Down+Ctrl
OpenWindows.KeyboardCommand.JumpLeft: Left+Ctrl
OpenWindows.KeyboardCommand.JumpRight: Right+Ctrl
OpenWindows.KeyboardCommand.PaneUp: R9
OpenWindows.KeyboardCommand.PaneDown: R15
OpenWindows.KeyboardCommand.PaneLeft: R9+Ctrl
OpenWindows.KeyboardCommand.PaneRight: R15+Ctrl
OpenWindows.KeyboardCommand.RowStart: Home,R7
OpenWindows.KeyboardCommand.RowEnd: End,R13
OpenWindows.KeyboardCommand.DataStart: Home+Ctrl,R7+Ctrl
OpenWindows.KeyboardCommand.DataEnd: End+Ctrl,R13+Ctrl
```

C.1.2.2 Text editing commands

```
OpenWindows.KeyboardCommand.SelectUp: Up+Shift
OpenWindows.KeyboardCommand.SelectDown: Down+Shift
OpenWindows.KeyboardCommand.SelectLeft: Left+Shift
OpenWindows.KeyboardCommand.SelectRight: Right+Shift
OpenWindows.KeyboardCommand.SelectJumpUp: Up+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectJumpDown: Down+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectJumpLeft: Left+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectJumpRight: Right+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectRowStart: Home+Shift,R7+Shift
OpenWindows.KeyboardCommand.SelectRowEnd: End+Shift,R13+Shift
OpenWindows.KeyboardCommand.SelectPaneUp: R9+Shift
OpenWindows.KeyboardCommand.SelectPaneDown: R15+Shift
OpenWindows.KeyboardCommand.SelectPaneLeft: R9+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectPaneRight: R15+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectDataStart: Home+Shift+Ctrl,R7+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectDataEnd: End+Shift+Ctrl,R13+Shift+Ctrl
OpenWindows.KeyboardCommand.SelectAll: End+Shift+Meta
OpenWindows.KeyboardCommand.SelectNextField: Tab+Meta
OpenWindows.KeyboardCommand.SelectPreviousField: Tab+Shift+Meta
OpenWindows.KeyboardCommand.ScrollUp: Up+Alt
```

```
OpenWindows.KeyboardCommand.ScrollDown: Down+Alt
OpenWindows.KeyboardCommand.ScrollLeft: Left+Alt
OpenWindows.KeyboardCommand.ScrollRight: Right+Alt
OpenWindows.KeyboardCommand.ScrollJumpUp: Up+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollJumpDown: Down+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollJumpLeft: Left+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollJumpRight: Right+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollRowStart: Home+Alt,R7+Alt
OpenWindows.KeyboardCommand.ScrollRowEnd: End+Alt,R13+Alt
OpenWindows.KeyboardCommand.ScrollPaneUp: R9+Alt
OpenWindows.KeyboardCommand.ScrollPaneDown: R15+Alt
OpenWindows.KeyboardCommand.ScrollPaneLeft: R9+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollPaneRight: R15+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollDataStart: Home+Alt+Ctrl,R7+Alt+Ctrl
OpenWindows.KeyboardCommand.ScrollDataEnd: End+Alt+Ctrl,R13+Alt+Ctrl
OpenWindows.KeyboardCommand.EraseCharBackward: Delete,BackSpace
OpenWindows.KeyboardCommand.EraseCharForward: Delete+Shift,BackSpace+Shift
OpenWindows.KeyboardCommand.EraseLine: Delete+Meta,BackSpace+Meta
```

C.1.3 Full Mouseless Mappings

When the `OpenWindows.KeyboardCommands` resource is set to Full, the following keyboard mappings are loaded.

C.1.3.1 Keyboard core functions

```
OpenWindows.KeyboardCommand.Adjust: Insert+Alt
OpenWindows.KeyboardCommand.Menu: space+Alt
OpenWindows.KeyboardCommand.InputFocusHelp: question+Ctrl
OpenWindows.KeyboardCommand.QuoteNextKey: q+Alt
OpenWindows.KeyboardCommand.SuspendMouseless: z+Alt
OpenWindows.KeyboardCommand.ResumeMouseless: Z+Alt
OpenWindows.KeyboardCommand.JumpMouseToInputFocus: j+Alt
```

C.1.3.2 Global navigation commands

```
OpenWindows.KeyboardCommand.NextElement: Tab+Ctrl
OpenWindows.KeyboardCommand.PreviousElement: Tab+Shift+Ctrl
OpenWindows.KeyboardCommand.NextPane: a+Alt
OpenWindows.KeyboardCommand.PreviousPane: A+Alt
```

C.1.3.3 Miscellaneous navigation commands

```
OpenWindows.KeyboardCommand.PanelStart: bracketleft+Ctrl
OpenWindows.KeyboardCommand.PanelEnd: bracketright+Ctrl
OpenWindows.KeyboardCommand.VerticalScrollbarMenu: v+Alt
OpenWindows.KeyboardCommand.HorizontalScrollbarMenu: h+Alt
OpenWindows.KeyboardCommand.PaneBackground: b+Alt
```

C.2 Mouseless Model Keyboard Semantic Actions

The following semantic actions are defined to support the Mouseless Model.

```
#define ACTION_ACCELERATOR                  (XVIEW_FIRST+74)     /* 31818 */
#define ACTION_DELETE_SELECTION             (XVIEW_FIRST+75)     /* 31819 */
#define ACTION_ERASE_LINE                   (XVIEW_FIRST+76)     /* 31820 */
#define ACTION_HORIZONTAL_SCROLLBAR_MENU    (XVIEW_FIRST+77)     /* 31821 */
#define ACTION_INPUT_FOCUS_HELP             (XVIEW_FIRST+78)     /* 31822 */
#define ACTION_JUMP_DOWN                    (XVIEW_FIRST+79)     /* 31823 */
#define ACTION_JUMP_MOUSE_TO_INPUT_FOCUS    (XVIEW_FIRST+80)     /* 31824 */
#define ACTION_JUMP_UP                      (XVIEW_FIRST+81)     /* 31825 */
#define ACTION_MORE_HELP                    (XVIEW_FIRST+82)     /* 31826 */
#define ACTION_MORE_TEXT_HELP               (XVIEW_FIRST+83)     /* 31827 */
#define ACTION_NEXT_ELEMENT                 (XVIEW_FIRST+84)     /* 31828 */
#define ACTION_NEXT_PANE                    (XVIEW_FIRST+85)     /* 31829 */
#define ACTION_PANE_BACKGROUND              (XVIEW_FIRST+86)     /* 31830 */
#define ACTION_PANE_LEFT                    (XVIEW_FIRST+87)     /* 31831 */
#define ACTION_PANE_RIGHT                   (XVIEW_FIRST+88)     /* 31832 */
#define ACTION_PANEL_START                  (XVIEW_FIRST+89)     /* 31833 */
#define ACTION_PANEL_END                    (XVIEW_FIRST+90)     /* 31834 */
#define ACTION_PREVIOUS_ELEMENT             (XVIEW_FIRST+91)     /* 31835 */
#define ACTION_PREVIOUS_PANE                (XVIEW_FIRST+92)     /* 31836 */
#define ACTION_QUOTE_NEXT_KEY               (XVIEW_FIRST+93)     /* 31837 */
#define ACTION_RESUME_MOUSELESS             (XVIEW_FIRST+94)     /* 31838 */
#define ACTION_SCROLL_DATA_END              (XVIEW_FIRST+95)     /* 31839 */
#define ACTION_SCROLL_DATA_START            (XVIEW_FIRST+96)     /* 31840 */
#define ACTION_SCROLL_DOWN                  (XVIEW_FIRST+97)     /* 31841 */
#define ACTION_SCROLL_JUMP_DOWN             (XVIEW_FIRST+98)     /* 31842 */
#define ACTION_SCROLL_JUMP_LEFT             (XVIEW_FIRST+99)     /* 31843 */
#define ACTION_SCROLL_JUMP_RIGHT            (XVIEW_FIRST+100)    /* 31844 */
#define ACTION_SCROLL_JUMP_UP               (XVIEW_FIRST+101)    /* 31845 */
#define ACTION_SCROLL_LEFT                  (XVIEW_FIRST+102)    /* 31846 */
#define ACTION_SCROLL_LINE_END              (XVIEW_FIRST+103)    /* 31847 */
#define ACTION_SCROLL_LINE_START            (XVIEW_FIRST+104)    /* 31848 */
#define ACTION_SCROLL_RIGHT                 (XVIEW_FIRST+105)    /* 31849 */
#define ACTION_SCROLL_PANE_DOWN             (XVIEW_FIRST+106)    /* 31850 */
#define ACTION_SCROLL_PANE_LEFT             (XVIEW_FIRST+107)    /* 31851 */
#define ACTION_SCROLL_PANE_RIGHT            (XVIEW_FIRST+108)    /* 31852 */
```

```
#define ACTION_SCROLL_PANE_UP             (XVIEW_FIRST+109)    /* 31853 */
#define ACTION_SCROLL_UP                  (XVIEW_FIRST+110)    /* 31854 */
#define ACTION_SELECT_ALL                 (XVIEW_FIRST+111)    /* 31855 */
#define ACTION_SELECT_DATA_END            (XVIEW_FIRST+112)    /* 31856 */
#define ACTION_SELECT_DATA_START          (XVIEW_FIRST+113)    /* 31857 */
#define ACTION_SELECT_DOWN                (XVIEW_FIRST+114)    /* 31858 */
#define ACTION_SELECT_JUMP_DOWN           (XVIEW_FIRST+115)    /* 31859 */
#define ACTION_SELECT_JUMP_LEFT           (XVIEW_FIRST+116)    /* 31860 */
#define ACTION_SELECT_JUMP_RIGHT          (XVIEW_FIRST+117)    /* 31861 */
#define ACTION_SELECT_JUMP_UP             (XVIEW_FIRST+118)    /* 31862 */
#define ACTION_SELECT_LEFT                (XVIEW_FIRST+119)    /* 31863 */
#define ACTION_SELECT_LINE_END            (XVIEW_FIRST+120)    /* 31864 */
#define ACTION_SELECT_LINE_START          (XVIEW_FIRST+121)    /* 31865 */
#define ACTION_SELECT_RIGHT               (XVIEW_FIRST+122)    /* 31866 */
#define ACTION_SELECT_PANE_DOWN           (XVIEW_FIRST+123)    /* 31867 */
#define ACTION_SELECT_PANE_LEFT           (XVIEW_FIRST+124)    /* 31868 */
#define ACTION_SELECT_PANE_RIGHT          (XVIEW_FIRST+125)    /* 31869 */
#define ACTION_SELECT_PANE_UP             (XVIEW_FIRST+126)    /* 31870 */
#define ACTION_SELECT_UP                  (XVIEW_FIRST+127)    /* 31871 */
#define ACTION_SUSPEND_MOUSELESS          (XVIEW_FIRST+128)    /* 31872 */
#define ACTION_TEXT_HELP                  (XVIEW_FIRST+129)    /* 31873 */
#define ACTION_TRANSLATE                  (XVIEW_FIRST+130)    /* 31874 */
#define ACTION_VERTICAL_SCROLLBAR_MENU    (XVIEW_FIRST+131)    /* 31875 */
```

C.3 SunView1 Mappings for the Mouseless Model

The following mappings are defined to map SunView1 keyboard commands to the Mouseless Model keyboard semantic actions. This section covers the SunView1 keyboard commands that have the same function in both SunView1 and in the XView Mouseless Model.

```
#define ACTION_CANCEL                  ACTION_STOP
#define ACTION_DATA_END                ACTION_GO_DOCUMENT_END
#define ACTION_DATA_START              ACTION_GO_DOCUMENT_START
#define ACTION_DEFAULT_ACTION          ACTION_DO_IT
#define ACTION_DOWN                    ACTION_GO_COLUMN_FORWARD
#define ACTION_JUMP_LEFT               ACTION_GO_WORD_BACKWARD
#define ACTION_JUMP_RIGHT              ACTION_GO_WORD_END
#define ACTION_LEFT                    ACTION_GO_CHAR_BACKWARD
#define ACTION_LINE_END                ACTION_ROW_END
#define ACTION_LINE_START              ACTION_ROW_START
#define ACTION_PANE_DOWN               ACTION_GO_PAGE_FORWARD
#define ACTION_PANE_UP                 ACTION_GO_PAGE_BACKWARD
#define ACTION_PARAGRAPH_DOWN          ACTION_JUMP_DOWN
#define ACTION_PARAGRAPH_UP            ACTION_JUMP_UP
#define ACTION_RIGHT                   ACTION_GO_CHAR_FORWARD
#define ACTION_ROW_END                 ACTION_GO_LINE_END
```

```
#define ACTION_ROW_START                  ACTION_GO_LINE_BACKWARD
#define ACTION_SCROLL_CHAR_BACKWARD       ACTION_SCROLL_LEFT
#define ACTION_SCROLL_CHAR_FORWARD        ACTION_SCROLL_RIGHT
#define ACTION_SCROLL_COLUMN_BACKWARD     ACTION_SCROLL_UP
#define ACTION_SCROLL_COLUMN_FORWARD      ACTION_SCROLL_DOWN
#define ACTION_SCROLL_DOCUMENT_END        ACTION_SCROLL_DATA_END
#define ACTION_SCROLL_DOCUMENT_START      ACTION_SCROLL_DATA_START
#define ACTION_SCROLL_ROW_END             ACTION_SCROLL_LINE_END
#define ACTION_SCROLL_ROW_START           ACTION_SCROLL_LINE_START
#define ACTION_SCROLL_PARAGRAPH_DOWN      ACTION_SCROLL_JUMP_DOWN
#define ACTION_SCROLL_PARAGRAPH_UP        ACTION_SCROLL_JUMP_UP
#define ACTION_SCROLL_WORD_BACKWARD       ACTION_SCROLL_JUMP_LEFT
#define ACTION_SCROLL_WORD_END            ACTION_SCROLL_JUMP_RIGHT
#define ACTION_SELECT_CHAR_BACKWARD       ACTION_SELECT_LEFT
#define ACTION_SELECT_CHAR_FORWARD        ACTION_SELECT_RIGHT
#define ACTION_SELECT_COLUMN_BACKWARD     ACTION_SELECT_UP
#define ACTION_SELECT_COLUMN_FORWARD      ACTION_SELECT_DOWN
#define ACTION_SELECT_DOCUMENT_END        ACTION_SELECT_DATA_END
#define ACTION_SELECT_DOCUMENT_START      ACTION_SELECT_DATA_START
#define ACTION_SELECT_NEXT_FIELD          ACTION_SELECT_FIELD_FORWARD
#define ACTION_SELECT_PREVIOUS_FIELD      ACTION_SELECT_FIELD_BACKWARD
#define ACTION_SELECT_ROW_END             ACTION_SELECT_LINE_END
#define ACTION_SELECT_ROW_START           ACTION_SELECT_LINE_START
#define ACTION_SELECT_PARAGRAPH_DOWN      ACTION_SELECT_JUMP_DOWN
#define ACTION_SELECT_PARAGRAPH_UP        ACTION_SELECT_JUMP_UP
#define ACTION_SELECT_WORD_BACKWARD       ACTION_SELECT_JUMP_LEFT
#define ACTION_SELECT_WORD_END            ACTION_SELECT_JUMP_RIGHT
#define ACTION_UP                         ACTION_GO_COLUMN_BACKWARD
```