

# 가

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가	1
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# 가

on\_useraction, on\_prekeydown, on\_keydown, on\_itemselchange, on\_itemeditshow,  
on\_itemeditcomplete, on\_begindrag

on\_enddrag, on\_dropcomplete, on\_headerclick, on\_headerdblclick, on\_itemclick, on\_itemmousedown,  
on\_itemdblclick , on\_itembtnclick,

on\_itempopbtnclick, on\_itemvaluechange, on\_itemvaluechanged, on\_itemeditvalidation,  
on\_headercheckclick, on\_headerrclick, on\_statitemclick,

on\_statitemdblclick, on\_checkrowclick, on\_checkrowchange, on\_rclick, on\_mousein, on\_mouseout,  
on\_mousedown, on\_click, on\_selectblock,

on\_sortcomplete, on\_filtercomplete, on\_fileloadstart, on\_fileload, on\_filesavestart, on\_filesave,  
on\_precontextmenu, on\_columnwidthchange,

on\_columnmove, on\_paste, on\_pastecomplete, on\_focusin, on\_focusout, on\_validation, on\_vscroll,  
on\_hscroll, on\_dropfiles가 .

: /HTML5/COMPONENT/GRID/grid\_event

- [grid\\_event.xml](#)
- [grid\\_event.js](#)
- [grid\\_event.css](#)

```

////////////////////////////////////
////////
//
////////////////////////////////////
////////

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nActionType
 * @param {string} strActionParam

```

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```

*/
function grd_on_useraction(objInst, nActionType, strActionParam)
{
    factory.consoleprint("on_useraction> Start");
    factory.consoleprint("on_useraction> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_useraction> nActionType = " + nActionType);
    factory.consoleprint("on_useraction> strActionParam = " +
strActionParam);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} keycode
 * @param {boolean} bctrlndown CTRL
 * @param {boolean} bshiftdown SHIFT
 * @param {boolean} baltdown ALT
 * @param {boolean} bnumpadkey
 * @param {boolean} bediting
 * @param {number} nRow          (Zero-Based)
 * @param {number} nColumn      (Zero-Based)
 *
 * @returns {number}
 * 0 -
 * 1 -
 */
function grd_on_prekeydown(objInst, keycode, bctrlndown, bshiftdown,
baltdown, bnumpadkey, bediting, nRow, nColumn)
{
    factory.consoleprint("on_prekeydown> Start");
    factory.consoleprint("on_prekeydown> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_prekeydown> keycode = " + keycode);
    factory.consoleprint("on_prekeydown> bctrlndown = " + bctrlndown);
    factory.consoleprint("on_prekeydown> bshiftdown = " + bshiftdown);
    factory.consoleprint("on_prekeydown> baltdown = " + baltdown);
    factory.consoleprint("on_prekeydown> bnumpadkey = " + bnumpadkey);
    factory.consoleprint("on_prekeydown> bediting = " + bediting);
    factory.consoleprint("on_prekeydown> nRow = " + nRow);
    factory.consoleprint("on_prekeydown> nColumn = " + nColumn);

    return 0;
}

/**
 *
 *
 *
 * @param {Object} objInst
 * @param {number} keycode

```

```

* @param {boolean} bctrlldown CTRL
* @param {boolean} bshiftdown SHIFT
* @param {boolean} baltdown ALT
* @param {boolean} bnumpadkey
* @param {boolean} bediting
* @param {number} nRow (Zero-Based)
* @param {number} nColumn (Zero-Based)
*
* @returns {number}
* 0 - KeyDown ( )
* 1 - KeyDown
*/
function grd_on_keydown(objInst, keycode, bctrlldown, bshiftdown, baltdown,
bnumpadkey, bediting, nRow, nColumn)
{
    factory.consoleprint("on_keydown> Start");
    factory.consoleprint("on_keydown> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_keydown> keycode = " + keycode);
    factory.consoleprint("on_keydown> bctrlldown = " + bctrlldown);
    factory.consoleprint("on_keydown> bshiftdown = " + bshiftdown);
    factory.consoleprint("on_keydown> baltdown = " + baltdown);
    factory.consoleprint("on_keydown> bnumpadkey = " + bnumpadkey);
    factory.consoleprint("on_keydown> bediting = " + bediting);
    factory.consoleprint("on_keydown> nRow = " + nRow);
    factory.consoleprint("on_keydown> nColumn = " + nColumn);

    return 0;
}

/**
*
*
* @param {Object} objInst
* @param {number} nPrevSelectRow (Zero-Based)
* @param {number} nPrevSelectColumn (Zero-Based)
* @param {number} nCurSelectRow (Zero-Based)
* @param {number} nCurSelectColumn (Zero-Based)
*/
function grd_on_itemselchange(objInst, nPrevSelectRow, nPrevSelectColumn,
nCurSelectRow, nCurSelectColumn)
{
    factory.consoleprint("on_itemselchange> Start");
    factory.consoleprint("on_itemselchange> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemselchange> nPrevSelectRow = " +
nPrevSelectRow);
    factory.consoleprint("on_itemselchange> nPrevSelectColumn = " +
nPrevSelectColumn);
    factory.consoleprint("on_itemselchange> nCurSelectRow = " +
nCurSelectColumn);
}

```

```

    factory.consoleprint("on_itemselectchange> nCurSelectColumn = " +
nCurSelectColumn);
}

/**
 *          가      /
 *
 * @param {Object} objInst
 * @param {number} nRow      (Zero-Based)
 * @param {number} nColumn   (Zero-Based)
 * @param {boolean} bShowEdit /
 */
function grd_on_itemeditshow(objInst, nRow, nColumn, bShowEdit)
{
    factory.consoleprint("on_itemeditshow> Start");
    factory.consoleprint("on_itemeditshow> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemeditshow> nRow = " + nRow);
    factory.consoleprint("on_itemeditshow> nColumn = " + nColumn);
    factory.consoleprint("on_itemeditshow> bShowEdit = " + bShowEdit);
}

function grd_on_itemeditcomplete(objInst, nRow, nColumn, strPrevItemText)
{

    return 1;
}

/**
 *          draggable      true      ,
 *          가          .
 *
 * @param {Object} objInst
 * @param {number} nDragRow      (Zero-Based)
 * @param {number} nDragColumn   (Zero-Based)
 *
 * @returns {number}
 * 1 -      (      )
 * -
 */
function grd_on_begindrag(objInst, nDragRow, nDragColumn)
{
    factory.consoleprint("on_begindrag> Start");
    factory.consoleprint("on_begindrag> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_begindrag> nDragRow = " + nDragRow);
    factory.consoleprint("on_begindrag> nDragColumn = " + nDragColumn);

    return 1;
}

```

```

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nDragRow (Zero-Based)
 * @param {number} nDropRow (Zero-Based)
 * @param {number} nDragColumn (Zero-Based)
 * @param {number} nDropColumn (Zero-Based)
 */
function grd_on_enddrag(objInst, nDragRow, nDropRow, nDragColumn,
nDropColumn)
{
    factory.consoleprint("on_begindrag> Start");
    factory.consoleprint("on_begindrag> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_begindrag> nDragRow = " + nDragRow);
    factory.consoleprint("on_begindrag> nDropRow = " + nDropRow);
    factory.consoleprint("on_begindrag> nDragColumn = " + nDragColumn);
    factory.consoleprint("on_begindrag> nDropColumn = " + nDropColumn);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {Object} src_screeninst 가
 * @param {Object} src_objinst
 */
function grd_on_dropcomplete(objInst, src_screeninst, src_objinst)
{
    factory.consoleprint("on_dropcomplete> Start");
    factory.consoleprint("on_dropcomplete> Grid Object Name = " +
objInst.getname());
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nHeaderRow (Zero-Based)
 * @param {number} nHeaderCol (Zero-Based)
 */
function grd_on_headerclick(objInst, nHeaderRow, nHeaderCol)
{
    factory.consoleprint("on_headerclick> Start");
    factory.consoleprint("on_headerclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_headerclick> nHeaderRow = " + nHeaderRow);
    factory.consoleprint("on_headerclick> nHeaderCol = " + nHeaderCol);
}

```

```
/**
 *
 *
 * @param {Object} objInst
 * @param {number} nHeaderRow          (Zero-Based)
 * @param {number} nHeaderCol         (Zero-Based)
 */
function grd_on_headerdblclick(objInst, nHeaderRow, nHeaderCol)
{
    factory.consoleprint("on_headerdblclick> Start");
    factory.consoleprint("on_headerdblclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_headerdblclick> nHeaderRow = " + nHeaderRow);
    factory.consoleprint("on_headerdblclick> nHeaderCol = " + nHeaderCol);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nClickRow          (Zero-Based)
 * @param {number} nClickColumn       (Zero-Based)
 * @param {boolean} bBtnClick         input_type      /      /
 *
 * @param {number} nImgIndex          input_type      image      ,
 * @param {string} strImageUrl        input_type      image      ,      URL
 */
function grd_on_itemclick(objInst, nClickRow, nClickColumn, bBtnClick,
nImgIndex, strImageUrl)
{
    factory.consoleprint("on_itemclick> Start");
    factory.consoleprint("on_itemclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemclick> nClickRow = " + nClickRow);
    factory.consoleprint("on_itemclick> nClickColumn = " + nClickColumn);
    factory.consoleprint("on_itemclick> bBtnClick = " + bBtnClick);
    factory.consoleprint("on_itemclick> nImgIndex = " + nImgIndex);
    factory.consoleprint("on_itemclick> strImageUrl = " + strImageUrl);
}

/**
 *
 *
 *
 *
 * @param {Object} objInst
 * @param {number} nRow                (Zero-Based)
 * @param {number} nColumn            (Zero-Based)
 */
function grd_on_itemmousedown(objInst, nRow, nColumn)
{
    factory.consoleprint("on_itemmousedown> Start");
    factory.consoleprint("on_itemmousedown> Grid Object Name = " +
```



```

objInst.getname());
    factory.consoleprint("on_itemmousedown> nRow = " + nRow);
    factory.consoleprint("on_itemmousedown> nColumn = " + nColumn);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nClickRow          (Zero-Based)
 * @param {number} nClickColumn      (Zero-Based)
 * @param {boolean} bBtnClick        input_type      /      /
 *
 * @param {number} nImgIndex         input_type      image      ,
 * @param {string} strImageUrl       input_type      image      ,          URL
 */
function grd_on_itemdblclick(objInst, nDbClickRow, nDbClickColumn,
bBtnClick, nImgIndex, strImageUrl)
{
    factory.consoleprint("on_itemdblclick> Start");
    factory.consoleprint("on_itemdblclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemdblclick> nDbClickRow = " + nDbClickRow);
    factory.consoleprint("on_itemdblclick> nDbClickColumn = " +
nDbClickColumn);
    factory.consoleprint("on_itemdblclick> bBtnClick = " + bBtnClick);
    factory.consoleprint("on_itemdblclick> nImgIndex = " + nImgIndex);
    factory.consoleprint("on_itemdblclick> strImageUrl = " + strImageUrl);
}

/**
 *
 *      /      (input_type)      ,
 *      editable      가 true      가      .
 *
 * @param {Object} objInst
 * @param {number} nClickRow          (Zero-Based)
 * @param {number} nClickColumn      (Zero-Based)
 */
function grd_on_itembtnclick(objInst, nClickRow, nClickColumn)
{
    factory.consoleprint("on_itembtnclick> Start");
    factory.consoleprint("on_itembtnclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itembtnclick> nClickRow = " + nClickRow);
    factory.consoleprint("on_itembtnclick> nClickColumn = " + nClickColumn);
}

/**
 *
 *      /      editbox_popbtnshow      true      ,
 *      editable      가 true      가      .

```

```

*
* @param {Object} objInst
* @param {number} nClickRow          (Zero-Based)
* @param {number} nClickColumn      (Zero-Based)
* @param {string} strItemText      (      )
*/
function grd_on_itepopbtnclick(objInst, nClickRow, nClickColumn,
strItemText)
{
    factory.consoleprint("on_itepopbtnclick> Start");
    factory.consoleprint("on_itepopbtnclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itepopbtnclick> nClickRow = " + nClickRow);
    factory.consoleprint("on_itepopbtnclick> nClickColumn = " +
nClickColumn);
    factory.consoleprint("on_itepopbtnclick> strItemText = " +
strItemText);
}

/**
*
*          가          .
*
* @param {Object} objInst
* @param {number} nRow          (Zero-Based)
* @param {number} nColumn      (Zero-Based)
* @param {string} strEditingText
*/
function grd_on_itemvaluechange(objInst, nRow, nColumn, strEditingText)
{
    factory.consoleprint("on_itemvaluechange> Start");
    factory.consoleprint("on_itemvaluechange> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemvaluechange> nRow = " + nRow);
    factory.consoleprint("on_itemvaluechange> nColumn = " + nColumn);
    factory.consoleprint("on_itemvaluechange> strEditingText = " +
strEditingText);
}

/**
*
*          가          .
*
* @param {Object} objInst
* @param {number} nRow          (Zero-Based)
* @param {number} nColumn      (Zero-Based)
* @param {string} strPrevItemText
* @param {string} strItemText
*/
function grd_on_itemvaluechanged(objInst, nRow, nColumn, strPrevItemText,
strItemText)
{

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```

    factory.consoleprint("on_itemvaluechanged> Start");
    factory.consoleprint("on_itemvaluechanged> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemvaluechanged> nRow = " + nRow);
    factory.consoleprint("on_itemvaluechanged> nColumn = " + nColumn);
    factory.consoleprint("on_itemvaluechanged> strPrevItemText = " +
strPrevItemText);
    factory.consoleprint("on_itemvaluechanged> strItemText = " +
strItemText);
}

/**
 *
 *          가          .
 *
 * @param {Object} objInst
 * @param {number} nRow          (Zero-Based)
 * @param {number} nColumn          (Zero-Based)
 * @param {string} strItemText
 *
 * @returns {number}
 * 0 -
 * 1 -          ,          가          (          )
 * 2 -          ,          가
 */
function grd_on_itemeditvalidation(objInst, nRow, nColumn, strItemText)
{
    factory.consoleprint("on_itemeditvalidation> Start");
    factory.consoleprint("on_itemeditvalidation> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_itemeditvalidation> nRow = " + nRow);
    factory.consoleprint("on_itemeditvalidation> nColumn = " + nColumn);
    factory.consoleprint("on_itemeditvalidation> strItemText = " +
strItemText);

    return 1;
}

/**
 *
 *          checkbox_show          true          가          ,
 *          가          가          가          .
 *
 * @param {Object} objInst
 * @param {number} nHeaderRow          (Zero-Based)
 * @param {number} nHeaderCol          (Zero-Based)
 * @param {string} bChecked
 */
function grd_on_headercheckclick(objInst, nHeaderRow, nHeaderCol, bChecked)
{
    factory.consoleprint("on_headercheckclick> Start");
    factory.consoleprint("on_headercheckclick> Grid Object Name = " +

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```

objInst.getname());
    factory.consoleprint("on_headercheckclick> nRow = " + nRow);
    factory.consoleprint("on_headercheckclick> nColumn = " + nColumn);
    factory.consoleprint("on_headercheckclick> strItemText = " +
strItemText);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nHeaderRow          (Zero-Based)
 * @param {number} nHeaderCol         (Zero-Based)
 */
function grd_on_headerrclick(objInst, nHeaderRow, nHeaderCol)
{
    factory.consoleprint("on_headerrclick> Start");
    factory.consoleprint("on_headerrclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_headerrclick> nRow = " + nRow);
    factory.consoleprint("on_headerrclick> nColumn = " + nColumn);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nStatRowFlag        (0 -          , 1 -          )
 * @param {number} nStatColumnFlag     (0 -          , 1 -          )
 * @param {number} nRow                (Zero-Based)
 * @param {number} nColumn             (Zero-Based)
 */
function grd_on_statitemclick(objInst, nStatRowFlag, nStatColumnFlag, nRow,
nColumn)
{
    factory.consoleprint("on_statitemclick> Start");
    factory.consoleprint("on_statitemclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_statitemclick> nStatRowFlag = " +
nStatRowFlag);
    factory.consoleprint("on_statitemclick> nStatColumnFlag = " +
nStatColumnFlag);
    factory.consoleprint("on_statitemclick> nRow = " + nRow);
    factory.consoleprint("on_statitemclick> nColumn = " + nColumn);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nStatRowFlag        (0 -          , 1 -          )

```

```

* @param {number} nStatColumnFlag          (0 -          , 1 -          )
* @param {number} nRow                    (Zero-Based)
* @param {number} nColumn                  (Zero-Based)
*/
function grd_on_statitemdblclick(objInst, nStatRowFlag, nStatColumnFlag,
nRow, nColumn)
{
    factory.consoleprint("on_statitemdblclick> Start");
    factory.consoleprint("on_statitemdblclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_statitemdblclick> nStatRowFlag = " +
nStatRowFlag);
    factory.consoleprint("on_statitemdblclick> nStatColumnFlag = " +
nStatColumnFlag);
    factory.consoleprint("on_statitemdblclick> nRow = " + nRow);
    factory.consoleprint("on_statitemdblclick> nColumn = " + nColumn);
}

/**
*
*
* @param {Object} objInst
* @param {number} nRow          (Zero-Based)
* @param {number} bCheckedRow
*/
function grd_on_checkrowclick(objInst, nRow, bCheckedRow)
{
    factory.consoleprint("on_checkrowclick> Start");
    factory.consoleprint("on_checkrowclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_checkrowclick> nRow = " + nRow);
    factory.consoleprint("on_checkrowclick> bCheckedRow = " + bCheckedRow);
}

/**
*
*
* @param {Object} objInst
* @param {number} nRow          (Zero-Based)
* @param {number} nCheckState  (0 -          , 1 -          , 2 -          )
*/
function grd_on_checkrowchange(objInst, nRow, nCheckState)
{
    factory.consoleprint("on_checkrowchange> Start");
    factory.consoleprint("on_checkrowchange> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_checkrowchange> nRow = " + nRow);
    factory.consoleprint("on_checkrowchange> nCheckState = " + nCheckState);
}

/**

```

```

*
*
* @param {Object} objInst
* @param {number} nXPoint          x
* @param {number} nYPoint          y
* @param {number} nPageXPoint      x
* @param {number} nPageYPoint      y
*/
function grd_on_rclick(objInst, nXPoint, nYPoint, nPageXPoint, nPageYPoint)
{
    var mouse_event_pos_info;

    factory.consoleprint("on_rclick> Start");
    factory.consoleprint("on_rclick> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_rclick> nXPoint = " + nXPoint);
    factory.consoleprint("on_rclick> nYPoint = " + nYPoint);
    factory.consoleprint("on_rclick> nPageXPoint = " + nPageXPoint);
    factory.consoleprint("on_rclick> nPageYPoint = " + nPageYPoint);

    // mouse_event_pos_info          getmouseeventpos API

    mouse_event_pos_info = factory.getmouseeventpos();
}

/**
*
*
* @param {Object} objInst
*/
function grd_on_mousein(objInst)
{
    var mouse_event_pos_info;

    factory.consoleprint("on_mousein> Start");
    factory.consoleprint("on_mousein> Grid Object Name = " +
objInst.getname());

    // mouse_event_pos_info          getmouseeventpos API

    mouse_event_pos_info = factory.getmouseeventpos();
}

/**
*
*
* @param {Object} objInst
*/
function grd_on_mouseout(objInst)
{
    var mouse_event_pos_info;

```

```

    factory.consoleprint("on_mouseout> Start");
    factory.consoleprint("on_mouseout> Grid Object Name = " +
objInst.getname());

    // mouse_event_pos_info                getmouseeventpos API

    mouse_event_pos_info = factory.getmouseeventpos();
}

/**
 *
 *
 * @param {Object} objInst
 */
function grd_on_mousedown(objInst)
{
    var mouse_event_pos_info;

    factory.consoleprint("on_mousedown> Start");
    factory.consoleprint("on_mousedown> Grid Object Name = " +
objInst.getname());

    // mouse_event_pos_info                getmouseeventpos API

    mouse_event_pos_info = factory.getmouseeventpos();
}

/**
 *
 *
 * @param {Object} objInst
 */
function grd_on_click(objInst)
{
    var mouse_event_pos_info;

    factory.consoleprint("on_click> Start");
    factory.consoleprint("on_click> Grid Object Name = " +
objInst.getname());

    // mouse_event_pos_info                getmouseeventpos API

    mouse_event_pos_info = factory.getmouseeventpos();
}

/**
 *
 *
 * use_selectblock      true      ,      가      가      .
 *
 * @param {Object} objInst
 * @param {number} nSelectStat      (1 -      )
 * @param {number} nStartRow      (Zero-Based)

```

```

* @param {number} nStartColumn          (Zero-Based)
* @param {number} nEndRow                (Zero-Based)
* @param {number} nEndColumn            (Zero-Based)
* @param {number} nSumValue
* @param {number} nAvgValue
* @param {number} nCount
* @param {number} nMinValue
* @param {number} nMaxValue
*/
function grd_on_selectblock(objInst, nSelectStat, nStartRow, nStartColumn,
nEndRow, nEndColumn, nSumValue, nAvgValue, nCount, nMinValue, nMaxValue)
{
    factory.consoleprint("on_selectblock> Start");
    factory.consoleprint("on_selectblock> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_selectblock> nSelectStat = " + nSelectStat);
    factory.consoleprint("on_selectblock> nStartRow = " + nStartRow);
    factory.consoleprint("on_selectblock> nStartColumn = " + nStartColumn);
    factory.consoleprint("on_selectblock> nEndRow = " + nEndRow);
    factory.consoleprint("on_selectblock> nEndColumn = " + nEndColumn);
    factory.consoleprint("on_selectblock> nSumValue = " + nSumValue);
    factory.consoleprint("on_selectblock> nAvgValue = " + nAvgValue);
    factory.consoleprint("on_selectblock> nCount = " + nCount);
    factory.consoleprint("on_selectblock> nMinValue = " + nMinValue);
    factory.consoleprint("on_selectblock> nMaxValue = " + nMaxValue);
}

/**
*
*
* @param {Object} objInst
* @param {number} nSortStartTime
*/
function grd_on_sortcomplete(objInst, nSortStartTime)
{
    var sort_end_time;

    sort_end_time = factory.gettickcount();

    factory.consoleprint("on_sortcomplete> Start");
    factory.consoleprint("on_sortcomplete> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_sortcomplete> nSortStartTime = " +
nSortStartTime);
    factory.consoleprint("on_sortcomplete> nSortEndTime = " +
sort_end_time);
    factory.consoleprint("on_sortcomplete> nSortTime = " + (sort_end_time -
nSortStartTime));
}

/**

```



```
*
*
* @param {Object} objInst
*/
function grd_on_filtercomplete(objInst)
{
    factory.consoleprint("on_filtercomplete> Start");
    factory.consoleprint("on_filtercomplete> Grid Object Name = " +
objInst.getname());
}

/**
*
*
* @param {Object} objInst
* @param {string} strFileName
*/
function grd_on_fileloadstart(objInst, strFileName)
{
    factory.consoleprint("on_fileloadstart> Start");
    factory.consoleprint("on_fileloadstart> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_fileloadstart> strFileName = " + strFileName);
}

/**
*
*
* @param {Object} objInst
* @param {string} nResult          (0:      , 1:      )
* @param {string} strCode
* @param {string} strMsg
* @param {number} nLoadStartTime
* @param {number} nStartRowIndex
* @param {number} nEndRowIndex
*/
function grd_on_fileload(objInst, nResult, strCode, strMsg, strFileName,
nLoadStartTime, nStartRowIndex, nEndRowIndex)
{
    var load_end_time;

    load_end_time = factory.gettickcount();

    factory.consoleprint("on_fileload> Start");
    factory.consoleprint("on_fileload> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_fileload> nResult = " + nResult);
    factory.consoleprint("on_fileload> strCode = " + strCode);
    factory.consoleprint("on_fileload> strMsg = " + strMsg);
    factory.consoleprint("on_fileload> nLoadStartTime = " + nLoadStartTime);
    factory.consoleprint("on_fileload> nStartRowIndex = " + nStartRowIndex);
}
```

```

    factory.consoleprint("on_fileload> nEndRowIndex = " + nEndRowIndex);

    factory.consoleprint("on_fileload> nLoadEndTime = " + load_end_time);
    factory.consoleprint("on_fileload> nLoadTime = " + (load_end_time -
nLoadStartTime));
}

/**
 *
 *
 * @param {Object} objInst
 * @param {string} strFileName
 */
function grd_on_filesavestart(objInst, strFileName)
{
    factory.consoleprint("on_filesavestart> Start");
    factory.consoleprint("on_filesavestart> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_filesavestart> strFileName = " + strFileName);
}

/**
 *
 *
 * @param {Object} objInst
 * @param {string} nResult          (1          ,          )
 * @param {string} strCode
 * @param {string} strMsg
 * @param {number} strFileName
 * @param {number} nSaveStartTime
 * @param {number} nSaveEndTime
 */
function grd_on_filesave(objInst, nResult, strCode, strMsg, strFileName,
nSaveStartTime, nSaveEndTime)
{
    factory.consoleprint("on_filesave> Start");
    factory.consoleprint("on_filesave> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_filesave> nResult = " + nResult);
    factory.consoleprint("on_filesave> strCode = " + strCode);
    factory.consoleprint("on_filesave> strMsg = " + strMsg);
    factory.consoleprint("on_filesave> nSaveStartTime = " + nSaveStartTime);
    factory.consoleprint("on_filesave> nSaveEndTime = " + nSaveEndTime);
    factory.consoleprint("on_filesave> nSaveTime = " + (nSaveEndTime -
nSaveStartTime));
}

/**
 *
 *
 * @param {Object} objInst

```

```

*
* @returns {number}
* 1 - ( )
* -
*/
function grd_on_precontextmenu(objInst)
{
    factory.consoleprint("on_precontextmenu> Start");
    factory.consoleprint("on_precontextmenu> Grid Object Name = " +
objInst.getname());

    return 1;
}

/**
*
*
* @param {Object} objInst
* @param {number} nColumn (Zero-Based)
*/
function grd_on_columnwidthchange(objInst, nColumn)
{
    factory.consoleprint("on_columnwidthchange> Start");
    factory.consoleprint("on_columnwidthchange> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_columnwidthchange> nColumn = " + nColumn);
}

/**
*
*
* @param {Object} objInst
* @param {number} nSrcColumn (Zero-Based)
* @param {number} nDstColumn (Zero-Based)
*/
function grd_on_columnmove(objInst, nSrcColumn, nDstColumn)
{
    factory.consoleprint("on_columnmove> Start");
    factory.consoleprint("on_columnmove> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_columnmove> nSrcColumn = " + nSrcColumn);
    factory.consoleprint("on_columnmove> nDstColumn = " + nDstColumn);
}

/**
*
*
* @param {Object} objInst
* @param {string} strPasteValue
* @param {number} nRow (Zero-Based)
* @param {number} nColumn (Zero-Based)
*

```

```

* @returns {number}
* 1 -      (      )
* 0 -
*/
function grd_on_paste(objInst, strPasteValue, nRow, nColumn)
{
    factory.consoleprint("on_paste> Start");
    factory.consoleprint("on_paste> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_paste> strPasteValue = " + strPasteValue);
    factory.consoleprint("on_paste> nRow = " + nRow);
    factory.consoleprint("on_paste> nColumn = " + nColumn);

    return 1;
}

/**
*
*
* @param {Object} objInst
* @param {number} nRow      (Zero-Based)
* @param {number} nColumn   (Zero-Based)
* @param {boolean} bLastPaste
*/
function grd_on_pastecomplete(objInst, strPasteValue, nRow, nColumn,
bLastPaste)
{
    factory.consoleprint("on_pastecomplete> Start");
    factory.consoleprint("on_pastecomplete> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_pastecomplete> nRow = " + nRow);
    factory.consoleprint("on_pastecomplete> nColumn = " + nColumn);
    factory.consoleprint("on_pastecomplete> bLastPaste = " + bLastPaste);
}

/**
*
*
* @param {Object} objInst
*/
function grd_on_focusin(objInst)
{
    factory.consoleprint("on_focusin> Start");
    factory.consoleprint("on_focusin> Grid Object Name = " +
objInst.getname());
}

/**
*
*
* @param {Object} objInst
*/

```

```

function grd_on_focusout(objInst)
{
    factory.consoleprint("on_focusout> Start");
    factory.consoleprint("on_focusout> Grid Object Name = " +
objInst.getname());
}

/**
 *
 *          (          checktranmapinputdata          )          가
 *
 *
 * @param {Object} objInst
 * @param {number} nRow          (Zero-Based)
 * @param {number} nColumn          (Zero-Based)
 * @param {string} strItemText
 *
 * @returns {number}
 * 1 -          (          )
 * 0 -
 */
function grd_on_validation(objInst, nRow, nColumn, strItemText)
{
    factory.consoleprint("on_validation> Start");
    factory.consoleprint("on_validation> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_validation> nRow = " + nRow);
    factory.consoleprint("on_validation> nColumn = " + nColumn);
    factory.consoleprint("on_validation> strItemText = " + strItemText);

    return 1;
}

/**
 *
 *
 * @param {Object} objInst
 * @param {number} nScrollPos          (Zero-Based)
 * @param {number} nPrevScrollPos          (Zero-Based)
 * @param {number} nSBCode
 * @param {string} bSBMax
 */
function grd_on_vscroll(objInst, nScrollPos, nPrevScrollPos, nSBCode,
bSBMax)
{
    factory.consoleprint("on_vscroll> Start");
    factory.consoleprint("on_vscroll> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_vscroll> nScrollPos = " + nScrollPos);
    factory.consoleprint("on_vscroll> nPrevScrollPos = " + nPrevScrollPos);
    factory.consoleprint("on_vscroll> nSBCode = " + nSBCode);
    factory.consoleprint("on_vscroll> bSBMax = " + bSBMax);
}

```

```

}

/**
 *
 * @param {Object} objInst
 * @param {number} nScrollPos          (Zero-Based)
 * @param {number} nPrevScrollPos      (Zero-Based)
 * @param {number} nSBCode
 * @param {string} bSBMax
 */
function grd_on_hscroll(objInst, nScrollPos, nPrevScrollPos, nSBCode,
bSBMax)
{
    factory.consoleprint("on_hscroll> Start");
    factory.consoleprint("on_hscroll> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_hscroll> nScrollPos = " + nScrollPos);
    factory.consoleprint("on_hscroll> nPrevScrollPos = " + nPrevScrollPos);
    factory.consoleprint("on_hscroll> nSBCode = " + nSBCode);
    factory.consoleprint("on_hscroll> bSBMax = " + bSBMax);
}

/**
 *
 *      accept_dropfiles      true      ,
 *                               가      .
 *
 * @param {Object} objInst
 * @param {Array} arrayDropFiles      HTML File
 * @param {number} nDropFileCount
 */
function grd_on_dropfiles(objInst, arrayDropFiles, nDropFileCount)
{
    var i;

    factory.consoleprint("on_dropfiles> Start");
    factory.consoleprint("on_dropfiles> Grid Object Name = " +
objInst.getname());
    factory.consoleprint("on_dropfiles> nDropFileCount = " +
nDropFileCount);

    for (i = 0; i < nDropFileCount; i++) {
        factory.consoleprint("on_dropfiles> " + i + " : " +
arrayDropFiles[i].name);
    }
}

////////////////////////////////////
/////
//
////////////////////////////////////

```

```
/////
```

```
function btn_test_on_mouseup(objInst)
{
    grd.setitemtext(0, 0, grd.getitemtext(0, 0) + "_1");
}
```

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