# Time sheets Add-On Solution

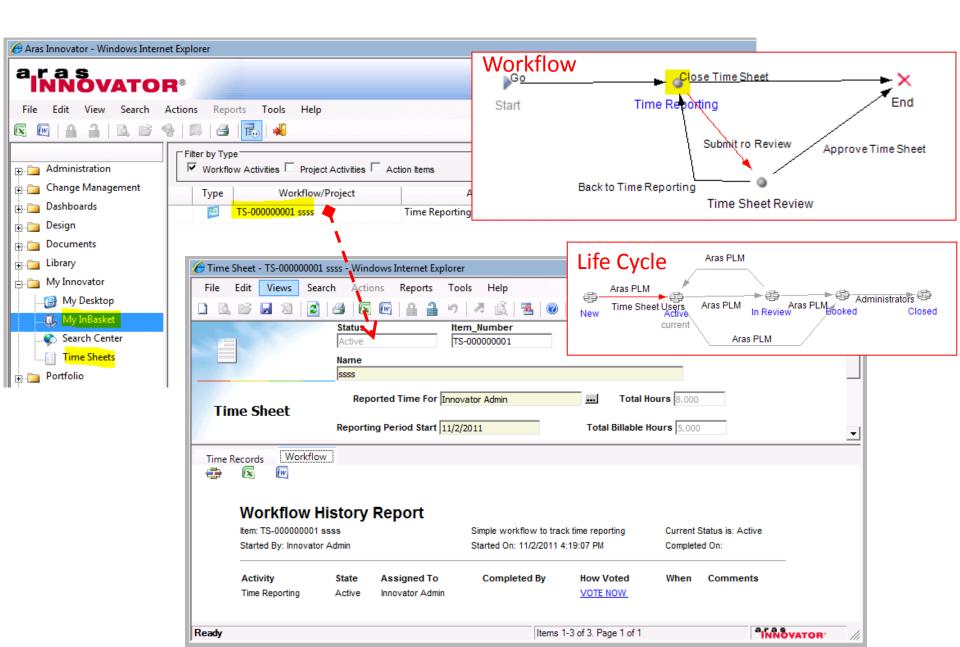
Concepts

## Highlights

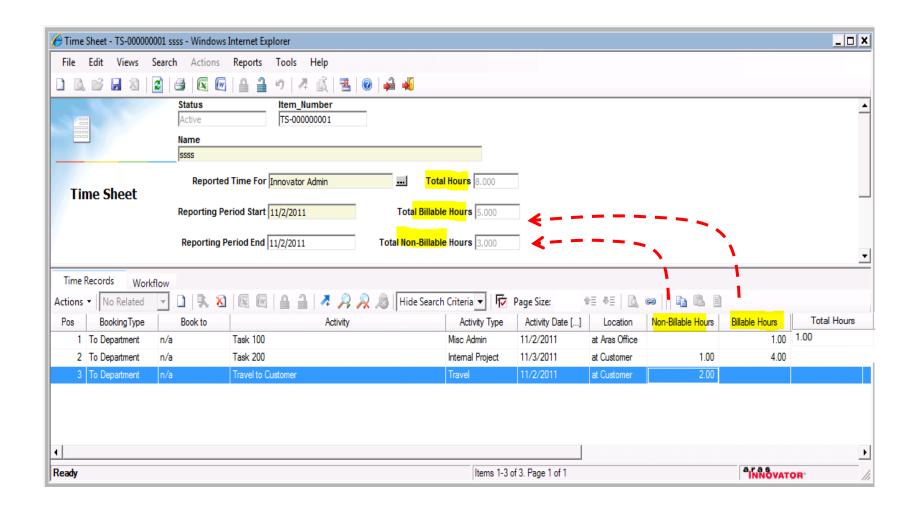
- Time Sheet Positions (relationship) are used to enter Activity descriptions, a date and the hours worked
- TimeSheet Report presents a summary of all recorded hours.
- Workflow drives the life cycle of a time sheet. Owner can submit it to review. WF activity will show in inBasekt of "Owner" and "Reviewers"
- Auto creation of regular (ie. Weekly) time sheets for a defined list of users (members of Identity: "Time Sheet Auto Create Weekly"
  - Aras Innovator Service must be configured to trigger method "Time Sheet AutoCreate Weekly" i.e. every Sunday. Method can be run manually by Administrators, as well

## Installation

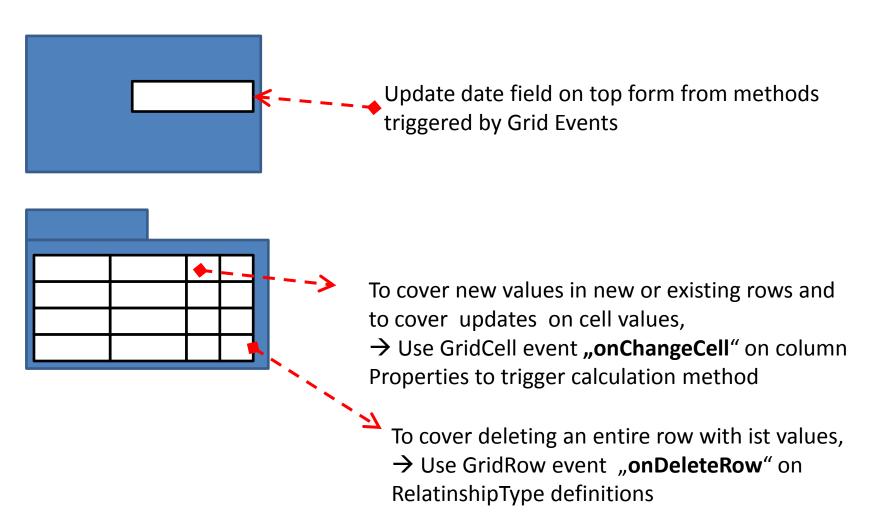
- Use the PackageImportExportUtilities to import the package "Simple Time Sheet vX-X"
- Extract package to directory accessible to the import tool.
- Start the import tool, enter the URL to your Aras environment, and log on with "admin".
- There are 2 import steps to run. Find the manifest file in folder "import1", and "import2" in the directory to which the package got extracted.
  - → You MUST use the "Merge" option.



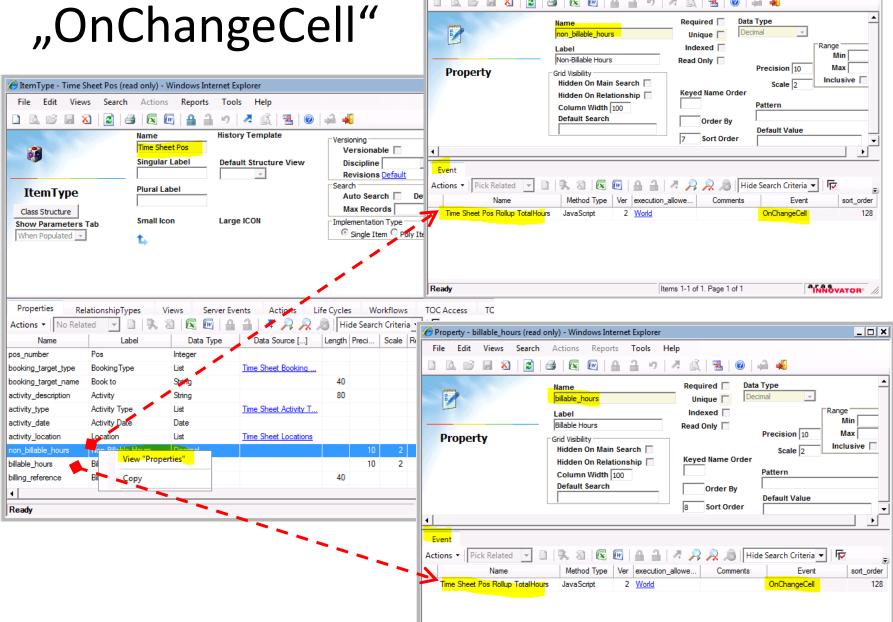
# Sample Solution – Time Sheet



# Using Grid Events to calculate values from a relationship grid







🄗 Property - non-billable-hours (read only) - Windows Internet Explorer

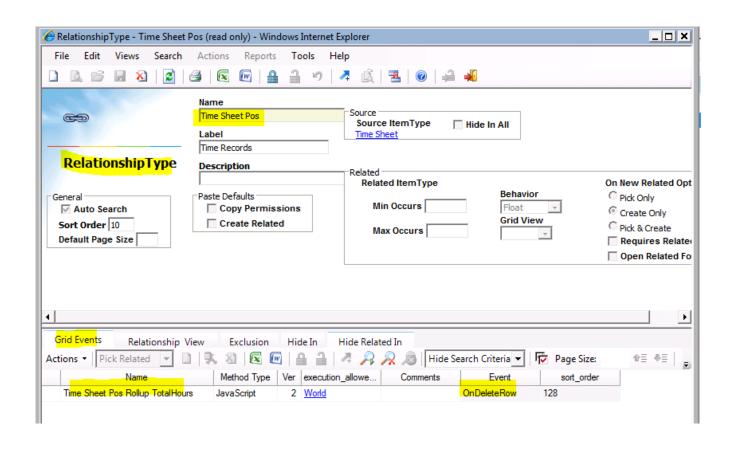
Actions Reports

Tools

Search

Views

### GridRow Event – OnDeleteRow



#### JS-Method (1): Time Sheet Pos Rollup TotalHours

```
//
// Grid Event: OnChangeCell, OnDeleteRow
// ItemType: Time Sheet Pos (relationship grid)
// Properties: billable hours, non billable hours
// easiest approach is to clear and refresh the field every change
var inn = parent.thisItem.getInnovator();
var cntx = inn.getI18NSessionContext():
var gridRelationshipName = "Time Sheet Pos";
var billableHours = 0.0;
var nonBillableHours = 0.0:
var totalHours = 0.0;
var totalBillableHours = 0.0;
var totalNonBillableHours = 0.0;
var NumStr = "";
var thisRow;
// now query the DOM to get the values
// if standard grid argument "propertyName" is not set, then this method was called from onDeleteRow
if (typeof(propertyName) == "undefined" || propertyName === "") {
// get current totals
 NumStr = top.aras.getItemProperty(top.frames[1].document.item,"total_billable_hours","");
if (NumStr===""){NumStr="0";}
 totalBillableHours = parseFloat(NumStr);
 NumStr = top.aras.getItemProperty(top.frames[1].document.item,"total non billable hours","");
if (NumStr===""){NumStr="0";}
 totalNonBillableHours = parseFloat(NumStr);
 thisRow = parent.thisItem.getItemsByXPath("Relationships/Item[@type="" + gridRelationshipName + "' and @id="" + relationshipID + "']");
// get the values of deleted row (to be subtracted)
 NumStr = thisRow.getProperty("billable_hours","0.0");
totalBillableHours -= parseFloat(cntx.ConvertFromNeutral(NumStr, "decimal", ""));
 NumStr = thisRow.getProperty("non billable hours","0.0");
totalNonBillableHours -= parseFloat(cntx.ConvertFromNeutral(NumStr,"decimal",""));
else
// on Cell Change recalculate all totals
totalBillableHours = 0.0;
totalNonBillableHours = 0.0;
//debugger;
var relRows = parent.thisItem.getItemsByXPath("Relationships/Item[@type="" + gridRelationshipName + "']");
```

#### JS-Method (2): Time Sheet Pos Rollup TotalHours

```
// loop through all positions and calculate toal of billable of non-billable hours
for (var i=0; i< relRows.getItemCount(); i++) {
  thisRow= relRows.getItemByIndex(i);
  var thisRowID = thisRow.getID();
  // do not calculated values of rows marked as deleted
  if (thisRow.getAttribute("action","") !== "delete") {
  // calculate with new values or get old values
  NumStr = thisRow.getProperty("billable_hours","");
  if (NumStr===""){NumStr="0";}
  billableHours=parseFloat(cntx.ConvertFromNeutral(NumStr,"decimal",""));
  billableHours = billableHours.toFixed(2):
  NumStr = thisRow.getProperty("non_billable_hours","");
  if (NumStr===""){NumStr="0";}
  nonBillableHours=parseFloat(cntx.ConvertFromNeutral(NumStr,"decimal",""));
  nonBillableHours = nonBillableHours.toFixed(2);
  // build column sums
  totalBillableHours += parseFloat(billableHours);
  totalNonBillableHours += parseFloat(nonBillableHours);
  // build sum on selected row and display on grid
  if (relationshipID == thisRowID)
                       totalHours = parseFloat(billableHours) + parseFloat(nonBillableHours);
    NumStr = cntx.ConvertFromNeutral(totalHours.toFixed(2).toString(),"decimal","");
                       // set num value in context
    thisRow.setProperty("total_hours",NumStr);
    // display num value immediately on grid in locale specific number format
                       // #9 is column number on the grid (starting at 0)
    gridApplet.cells(thisRowID,9).SetValue(NumStr);
// set new totals on top form
NumStr = cntx.ConvertFromNeutral(totalBillableHours.toFixed(2).toString(),"decimal","");
top.frames[1].handleItemChange("total_billable_hours",NumStr);
NumStr = cntx.ConvertFromNeutral(totalNonBillableHours.toFixed(2).toString(),"decimal","");
top.frames[1].handleItemChange("total non billable hours", NumStr);
totalHours = totalBillableHours + totalNonBillableHours:
NumStr = cntx.ConvertFromNeutral(totalHours.toFixed(2).toString(),"decimal","");
top.frames[1].handleItemChange("total hours".NumStr):
```

## Data Model & Life Cycle

