

@A+

//==== Business-Control =====

//

// Prozedur BA1_Planung_Walzen (BSP)

// OHNE E_R_G

// Info

//

//

// 25.06.2018 AH Erstellung der Prozedur

// 16.07.2018 AH Umbau auf Pool

// 22.10.2018 AH Erweiterungen

// 16.04.2019 AH Umsortieren in Planung ist temporär

// 08.11.2019 AH "Teilungszeit" ausgebaut

// 08.11.2019 AH neue Spalten für Termine (Proj.1994/239)

// 05.04.2022 AH ERX

//

// Subprozeduren

// SUB Start();

//

//

// BAG.P.Plan.StartInfo # aPlanname; Format 2019/4/1

//

//=====

@I:Def_Global

@I:Def_Rights

@I:Def_BAG

define begin

cDebug : (gUsername='AHx')

cModulName : 'vonSC_BagPlanWalzen'

cJIT : '#AUTOJIT#'

cTitle : 'Walzenplanung'

cMenuName : 'BA1.Feinplanung'

cMDI : gMdiMath

cDLPlan : \$dl.Plan

cDLPool : \$dl.Pool

cDLPoolName : 'dl.Pool'

cDLPlanName : 'dl.Plan'

cDLPoolFilter : \$dl.PoolFilter

c_Vorwalzen : 'VORWAL'

cRuesten : 15

// cTeilen : 5

cKeinKal : 'KEIN KALENDER'

cClmReclId : 1

cClmFolge : 2

cClmStatus : 3

cClmTlg : 4
cClmDau : 5
cClmDau2 : 6
cClmDauSum : 7
cClmStart : 8
cClmEnde : 9
cClmProg : 10
cClmGuete : 11
cClmFest : 12
cClmBAG : 13
cClmStich : 14
cClmVon : 15
cClmBis : 16
cClmInputD : 17
cClmOutputD : 18
cClmOutputDTol : 19
cClmInputB : 20
cClmBTol : 21
cClmRinge : 22
cClmGew : 23
cClmTerminW : 24
cClmTerminZ : 25
cClmCustom : 26
end;

declare StartInner();

```
declare _702NachDI(aDL :int; aTxt : int; alstPlan : logic);
```

```
declare _Vorherigeswalzen(aTxt : int; aSet : logic; aPos : int; var aVon : int) : int
```

```
declare _FolgendesWalzen(aTxt : int; aSet : logic; aPos : int; var aVon : int) : int
```

```
declare _Recalc(aDat : date; aTim : time; aMitDauer : logic)
```

```
//=====
```

```
// Start
```

```
// Call SFX_Planung_Walzen:Start
```

```
//=====
```

```
sub Start();
```

```
begin
```

```
if (cMDI<>0) then begin
```

```
    Lib_guiCom:ReOpenMDI(cMDI);
```

```
    RETURN;
```

```
end;
```

```
RecBufClear(998);
```

```
Sel.Art.von.ArtNr # '50';
```

```
Sel.BAG.Res.Gruppe # 3;
```

```
Sel.BAG.Res.Nummer # 3;
```

```
Sel.von.Datum # today;
```

```
Sel.bis.Datum # today;
```

```
Sel.Bis.Datum->vmDayModify(31*6);
```

```
if (cDebug) then begin
```

```
    Sel.BAG.Res.Gruppe # 1;
```

```
    Sel.BAG.Res.Nummer # 1;
```

```
// gSelected # 1;

// StartInner();

// RETURN;

end;

cMDI # Lib_GuiCom:AddChildWindow(gMDI,'BA1.Planung.Walzen.Sel',here+':StartInner', true);

Lib_GuiCom:RunChildWindow(cMDI);

end;
```

```
//=====

// StartInner

//

//=====
```

```
sub StartInner();

local begin

    Erx      : int;

    vSel      : int;

    vSelName  : alpha;

    vQ        : alpha(4000);

    vQ2       : alpha(4000);

    vDIPlan   : int;

    vDIPool   : int;

    vHdl      : int;

    vTxt      : int;

    vI,vJ,vK  : int;
```

```

vTree    : int;

vItem    : int;

vSortkey : alpha;

vDat     : date;

vTim     : time;

vPlanName : alpha;

end;

begin

    vPlanName # Sel.Art.Bis.ArtNr;


    if (gSelected=0) then RETURN;

    gSelected # 0;

    if (cMDI<>0) then RETURN;


    // Dialog starten...

    cMDI # Lib_GuiCom:OpenMdi(gFrmMain, 'BA1.Planung.Walzen', _WinAddHidden);

    VarInstance(WindowBonus,cnvIA(cMDI->wpcustom));

    vDIPool # Winsearch(cMDI, cDIPoolName);

    vDIPlan # Winsearch(cMDI, cDIPlanName);

    vTxt # TextOpen(16);


    // ALTE PLANUNG GGF FÜLLEN-----

    if (vPlanname<>") then begin

        if (lib_Strings:Strings_Count(vPlanname,'/)=0) then

```

```

vPlanname # vPlanname + '/'1';

if (lib_Strings:Strings_Count(vPlanname,'/')=1) then begin

  vDat # today;

  vPlanname # aint(vDat->vpYear)+'/'+vPlanname;

end;


vQ # "";

Lib_Sel:QAlpha( var vQ, 'BAG.P.Plan.StartInfo', '=^', vPlanname);


// Selektion aufbauen...

vSel # SelCreate(702, 8); // nach STARTTERMIN

// vSel->SelAddSortFld( FldInfoByName( 'BAG.P.Reihenfolge', _fldSbrNumber ), FldInfoByName( 'BAG.P.

Erx # vSel->SelDefQuery("", vQ);

if (Erx != 0) then Lib_Sel:QError(vSel);


// speichern, starten und Name merken...

vSelName # Lib_Sel:SaveRun(var vSel,0,n);


// Positionen mit Planungslock versehen...

FOR Erx # RecRead(702,vSel,_RecFirst)
LOOP Erx # RecRead(702,vSel,_RecNext)

WHILE (Erx<=_rLocked) do begin

  if (vDat=0.0.0) then begin

    vDat # BAG.P.Plan.StartDat;

    vTim # BAG.P.Plan.StartZeit;

  end;

```

```

    _702NachDI(vDIPlan, vTxt, true);

END;

SelClose(vSel);

SelDelete(702, vSelName);

end; // Planung füllen


// POOL FÜLLEN-----

vQ # "";

if (cDebug) then begin

    Lib_Sel:QInt( var vQ, 'BAG.P.Nummer', '=', 1514);

    Lib_Sel:QAlpha( var vQ, 'BAG.P.Aktion', '>', '0');

    Lib_Sel:QAlpha( var vQ, 'BAG.P.Aktion', '!=', c_BAG_VSB);

    Lib_Sel:QInt( var vQ, 'BAG.P.Reihenfolge', '=', 0);

end

else begin

    if ( Sel.BAG.Res.Gruppe != 0 ) then

        Lib_Sel:QInt( var vQ, 'BAG.P.Ressource.Grp', '=', Sel.BAG.Res.Gruppe );

    if ( Sel.BAG.Res.Nummer != 0 ) then

        Lib_Sel:QInt( var vQ, 'BAG.P.Ressource', '=', Sel.BAG.Res.Nummer );

//    Lib_Sel:QDate( var vQ, 'BAG.P.Plan.StartDat', '>=', Sel.von.Datum);

    Lib_Sel:QDate( var vQ, 'BAG.P.Plan.StartDat', '<=', Sel.bis.Datum);

    Lib_Sel:QDate( var vQ, 'BAG.P.Fertig.Dat', '=', 0.0.0 );

//    vQ # vQ + ' AND !BAG.P.ExternYN';

vQ2 # "";

```



```

Lib_Sel:QAlpha( var vQ2, 'BAG.P.Aktion', '=', c_BAG_Walz);

Lib_Sel:QAlpha( var vQ2, 'BAG.P.Aktion', '=', c_VorWalzen,'OR');

vQ # vQ + ' AND ('+vQ2+');


if (Sel.Art.von.ArtNr<>") then begin

    vQ2 # "";

    Lib_Sel:QAlpha( var vQ2, 'BAG.P.Zusatz', '=', " );

    Lib_Sel:QAlpha( var vQ2, 'BAG.P.Zusatz', '=', '*'+Sel.Art.Von.ArtNr+'*', 'OR');

    vQ2 # '(' + vQ2 + ')';

    vQ # vQ + ' AND '+vQ2;

end;

Lib_Sel:QInt( var vQ, 'BAG.P.Reihenfolge', '=', 0);

end;


vQ2 # "";

Lib_Sel:QAlpha( var vQ2, 'BAG.Löschmarker', '=', " );

Lib_Sel:QLogic( var vQ2, 'BAG.VorlageYN', false);

vQ # vQ + ' AND ( LinkCount(Kopf) > 0) ';


// Selektion aufbauen...

vSel # SelCreate(702, 6); // nach LEVEL


// Verknüpfen mit BAG Kopfdaten

vSel->SelAddLink("", 700, 702, 1, 'Kopf');


// nach Level sortieren...

```

```

// vSel->SelAddSortFld(1, 17, _KeyFldAttrUpperCase | _KeyFldAttrReverse );

Erx # vSel->SelDefQuery("", vQ);

Erx # vSel->SelDefQuery('Kopf', vQ2 );

if (Erx != 0) then Lib_Sel:QError(vSel);


// speichern, starten und Name merken...

vSelName # Lib_Sel:SaveRun(var vSel,0,n);


vTree # CteOpen(_CteTreeCI); // Rambaum anlegen


// Positionen mit Planungslock versehen...

FOR Erx # RecRead(702,vSel,_RecFirst)

LOOP Erx # RecRead(702,vSel,_RecNext)

WHILE (Erx<=_rLocked) do begin

    vSortkey # "";

    FOR Erx # RecLink(701,702,2,_recFirst) // Input loopen

    LOOP Erx # RecLink(701,702,2,_recNext)

    WHILE (Erx<=_rLocked) do begin

        if ((BAG.IO.Materialtyp=c_IO_Mat) or

            (BAG.IO.Materialtyp=c_IO_Theo) or

            (BAG.IO.Materialtyp=c_IO_BAG)) and (BAG.IO.VonFertigmeld=0) then begin

//      if (cDebug) then

//          vSortKey # cnvAI(BAG.P.Nummer,_FmtNumLeadZero|_fmtNumNoGroup,0,10)+cnvAi(BAG.P.Positi

//      else

            vSortKey # cnvai(BAG.P.Reihenfolge,_FmtNumLeadZero|_FmtNumNoGroup,0,10)+'|'+cnvAF(9999.

//          vSortKey # cnvAF(9999.0 - BAG.IO.Breite,_FmtNumLeadZero|_fmtNumNoGroup,0,2,10)+cnvAF(9

```

```

    BREAK;

end;

END;

Sort_ItemAdd(vTree,vSortKey,702,RecInfo(702,_RecId));

END;

//  RecRead(702,1,_recLock);

//  BAG.P.PlanLock.UsrID # gUserID;

//  BA1_P_Data:Replace(_recUnlock,'MAN');

FOR  vItem # Sort_ItemFirst(vTree) // RAMBAUM

loop  vItem # Sort_ItemNext(vTree,vItem)

WHILE (vItem != 0) DO BEGIN

    RecRead(cnvIA(vItem->spCustom), 0, 0, vItem->spID); // Datensatz holen

    _702NachDI(vDIPool, vTxt, false);

END;

CteClear(vTree, true);

CteClose(vTree);

SelClose(vSel);

SelDelete(702, vSelName);


TextClose(vTxt);


// Vorbelegungen

vHdl # Winsearch(cMDI, 'lbNr');

vHdl->wpCustom # vPlanname;

```

```

vHdl # Winsearch(cMDI, 'edRuestzeit');

vHdl->wpCaptionInt # cRuesten;

// vHdl # Winsearch(cMDI, 'edTelungszeit');

// vHdl->wpCaptionInt # cTeilen;

vHdl # Winsearch(cMDI, 'lb.Ressource');

Rso.Gruppe # Sel.BAG.Res.Gruppe;

Rso.Nummer # Sel.BAG.Res.Nummer;

Erx # RecRead(160,1,0); // Ressource holen

if (Erx>_rLocked) then ReCbufClear(160);

vHdl->wpcaption # aint(Rso.Gruppe)+'/'+aint(Rso.Nummer)+' '+Rso.Stichwort;

vHdl # Winsearch(cMDI, 'lb.Programm');

vHdl->wpCaption # Sel.Art.von.ArtNr;

vHdl # Winsearch(cMDI, 'lb.Datumstext');

vHdl->wpCaption # cnvad(Sel.von.Datum)+' - '+cnvad(Sel.bis.Datum);


if (vDat=0.0.0) then begin

    vDat # today;

    vTim # 6:0;

end;


vHdl # WinSearch(cMDI, 'edDatum');

vHdl->wpCaptiondate # vDat;

vHdl # WinSearch(cMDI, 'edZeit');

vHdl->wpCaptionTime # vTim;


vHdl # WinSearch(cMDI, 'lbText');

```

```

vTxt # TextOpen(20);

vHdl->wpCustom # aint(vTxt);


// Kalender bauen

// TextAddLine(vTxt,'KALENDERGRUPPE '+aint(Rso.Gruppe));

BA1_Planung_Sub:KTextBuild(vTxt, Rso.Gruppe, vDat);

// TextWrite(vTxt, 'd:\debug\debug2.txt',_TextExtern);

// _Recalc(vDat, vTim, false);


// Anzeigen

vDLPool->wpCurrentInt # 0;

if (vPlanname="") then

    gTitle # 'NEUE '+cTitle

else

    gTitle # cTitle + ' '+vPlanname;


cMDI->wpCaption # gTitle;

cMDI->WinUpdate(_WinUpdOn);

// gMdiWorkbench->Winfocusset(false);

cMDI->Winfocusset(true);

end;


//=====

//=====

sub _AbleDrucken(aAble : logic);

```

local begin

vl : int;

vHdl2 : int;

end

begin

vHdl2 # Winsearch(gMDI, 'btDruck');

if (vHdl2<>0) then begin

vHdl2->wpDisabled # !aAble;

if (aAble) then vHdl2->wpStyleButton # _WinStyleButtonTBar

else vHdl2->wpStyleButton # _WinStyleButtonNormal;

end;

vHdl2 # Winsearch(gMDI, 'btDruck1');

if (vHdl2<>0) then begin

vHdl2->wpDisabled # !aAble;

if (aAble) then vHdl2->wpStyleButton # _WinStyleButtonTBar

else vHdl2->wpStyleButton # _WinStyleButtonNormal;

end;

vHdl2 # Winsearch(gMDI, 'btDruckAlle');

if (vHdl2<>0) then begin

vHdl2->wpDisabled # !aAble;

if (aAble) then vHdl2->wpStyleButton # _WinStyleButtonTBar

else vHdl2->wpStyleButton # _WinStyleButtonNormal;

end;

end;

```
//=====

//=====

sub _SetSum(

    aAnz    : int;

    aDau    : int;

    aGew    : int;

)

local begin

    vAnzHdl : int;

    vDauHdl : int;

    vGewHdl : int;

    vT      : int;

    vH      : int;

end;

begin

    vAnzHdl # WinSearch(cMDI, 'lb.Summe.Anz');

    vDauHdl # WinSearch(cMDI, 'lb.Summe.Dauer');

    vGewHdl # WinSearch(cMDI, 'lb.Summe.Gew');


    vAnzHdl->wpCaption # aint(aAnz);

    vDauHdl->wpCUSTOM  # aint(aDau);

    vGewHdl->wpCaption # cnvai(aGew);


    vT # aDau / (24 * 60);

    aDau # aDau - (vT * 24 * 60);
```

```
vH # aDau / 60;

aDau # aDau - (vH * 60);

vDauHdl # WinSearch(cMDI, 'lb.Summe.Tag');

vDauHdl->wpCaption # aint(vT);

vDauHdl # WinSearch(cMDI, 'lb.Summe.H');

vDauHdl->wpCaption # aint(vH);

vDauHdl # WinSearch(cMDI, 'lb.Summe.min');

vDauHdl->wpCaption # aint(aDau);

end;
```

```
//=====
```

```
//=====
```

```
sub _AddSum(
```

```
    aAnz    : int;
```

```
    aDauer  : int;
```

```
    aGew    : int;
```

```
)
```

```
local begin
```

```
    vAnz    : int;
```

```
    vDau    : int;
```

```
    vGew    : int;
```

```
    vAnzHdl : int;
```

```
    vDauHdl : int;
```

```
    vGewHdl : int;
```

```
    vT      : int;
```



```

vH      : int;

end;

begin

vAnzHdl # WinSearch(cMDI, 'lb.Summe.Anz');

vDauHdl # WinSearch(cMDI, 'lb.Summe.Dauer');

vGewHdl # WinSearch(cMDI, 'lb.Summe.Gew');


vAnz # cnvia(vAnzHdl->wpCaption) + aAnz;

vDau # cnvia(vDauHdl->wpCUSTOM) + aDauer;

vGew # cnvia(vGewHdl->wpCaption) + aGew;


vAnzHdl->wpCaption # aint(vAnz);

vDauHdl->wpCUSTOM # aint(vDau);

vGewHdl->wpCaption # cnvai(vGew);


vT # vDau / (24 * 60);

vDau # vDau - (vT * 24 * 60);

vH # vDau / 60;

vDau # vDau - (vH * 60);

vDauHdl # WinSearch(cMDI, 'lb.Summe.Tag');

vDauHdl->wpCaption # aint(vT);

vDauHdl # WinSearch(cMDI, 'lb.Summe.H');

vDauHdl->wpCaption # aint(vH);

vDauHdl # WinSearch(cMDI, 'lb.Summe.min');

vDauHdl->wpCaption # aint(vDau);

end;

```

```
//=====
```

```
//=====
```

```
sub _Recalc(
```

```
    aDat    : date;
```

```
    aTim    : time;
```

```
    aMitDauer : logic;
```

```
)
```

```
local begin
```

```
    vl    : int;
```

```
    vA,vB : alpha;
```

```
    vDat1 : date;
```

```
    vTim1 : time;
```

```
    vDat2 : date;
```

```
    vTim2 : time;
```

```
    vDau  : int;
```

```
    vDau2 : int;
```

```
    vTlg  : int;
```

```
    vHdl  : int;
```

```
    vTxt  : int;
```

```
    vTlgM : int;
```

```
    vGew  : int;
```

```
    vSDau : int;
```

```
    vSGew : int;
```

```
    vSAnz : int;
```

end;

begin

// vTlgM # \$edTelungszeit->wpCaptionint;

vHdl # WinSearch(cMDI, 'lbText');

vTxt # cnvia(vHdl->wpCustom);

vDat1 # aDat;

vTim1 # aTim;

FOR vl # 1

LOOP inc(vl)

WHILE (vl<=WinLstDatLineInfo(cDLPlan, _WinLstDatInfoCount)) do begin

WinLstCellGet(cDLPlan, vTlg , cClmTlg, vl);

WinLstCellGet(cDLPlan, vDau , cClmDau, vl);

WinLstCellGet(cDLPlan, vDau2, cClmDau2, vl);

WinLstCellGet(cDLPlan, vGew , cClmGew, vl);

if (aMitDauer) then begin

vDau2 # 0;

if (vl=1) then vDau2 # \$edRuestzeit->wpCaptionint;

vDau2 # vDau2 + (vTlg * vTlgM);

WinLstCellSet(cDLPlan, vDau2, cClmDau2, vl);

WinLstCellSet(cDLPlan, vDau2+vDau, cClmDauSum, vl);

end;

if (BA1_Planung_Subst:KTextFind(vTxt, var vDat1, var vTim1, vDau + vDau2, var vDat2, var vTim2)) then

```

vA # cnvad(vDat1)+' '+cnvat(vTim1);

vB # cnvad(vDat2)+' '+cnvat(vTim2);

end

else begin

vA # cKeinKal;

vB # cKeinKal;

vDat2 # vDat1;

vTim2 # vTim1;

Lib_Berechnungen:TerminModify(var vDat2, var vTim2, cnvfi(vDau + vDau2));

end;

WinLstCellSet(cDLPlan, vA, cClmStart, vl);

WinLstCellSet(cDLPlan, vB, cClmEnde, vl);


vSGew # vSGEw + vGew;

vSAnz # vSAnz + 1;

vSDau # vSDAu + vDau+vDau2;


// Ende vom Vorgänger ist Srart vom nächsten...

vDat1 # vDat2;

vTim1 # vTim2;

END;


_SetSum(vSAnz, vSDau, vSGew);

end;

```

```
//=====
```

```
//=====
```

```
sub _VorherigesWalzen(
```

```
    aTxt    : int;
```

```
    aSet    : logic;
```

```
    aPos    : int;  // Start 0
```

```
    var aVon : int;  // start 0
```

```
) : int;
```

```
local begin
```

```
    Erx     : int;
```

```
    v702    : int;
```

```
    vVor    : int;
```

```
    vA      : alpha;
```

```
end;
```

```
begin
```

```
//if (BAG.P.Nummer=1514) and (BAG.P.Position>4) then debug('_sucheVG KEY702');
```

```
    if (BAG.P.Aktion<>C_BAG_Walz) then begin
```

```
//debug('ENDE');
```

```
        RETURN 0;
```

```
    end;
```

```
    if (aSet=false) then aVon # aVon + 1;
```

```
//debug('aVon : '+aint(aVon));
```

```

v702 # RekSave(702);

FOR Erx # RecLink(701,v702,2,_recFirst)  // Input loopen
LOOP Erx # RecLink(701,v702,2,_recNext)

WHILE (Erx<=_rLocked) do begin

    if (BAG.IO.Materialtyp<>c_IO_BAG) then CYCLE;

    Erx # RecLink(702, 701,2,_RecFirst);  // VonPos holen

    if (Erx<=_rLocked) and ((BAG.P.Aktion=C_BAG_Walz) or (BAG.P.Aktion='VORWAL')) then begin

        vVor # 1 + _VorherigesWalzen(aTxt, aSet, aPos-1, var aVon);

//debug('bekomme : '+aint(vVor));

        end;

        BREAK;

    END;

    RekRestore(v702);

    if (aSet) then begin

        vA # 'BA'+aint(BAG.P.nummer)+'/'+aint(BAG.P.Position)+'|'+aint(aPos)+' / '+aint(aVon);

//debug(vA);

        TextAddLine(aTxt,vA);

        end;

    RETURN vVor;

end;

```

```
//=====
```

```
//=====
```

```

sub _FolgendesWalzen(

    aTxt    : int;

    aSet    : logic;

    aPos    : int;  // Start 0

    var aVon : int;  // start 0

) : int;

local begin

    Erx    : int;

    v702 : int;

    vNF    : int;

    vA     : alpha;

end;

begin

    //if (BAG.P.Nummer=1514) and (BAG.P.Position>4) then debug('_sucheNF KEY702');

    if (BAG.P.Aktion<>C_BAG_Walz) then begin

        //debug('ENDE');

        RETURN 0;

    end;

    v702 # RekSave(702);

    FOR Erx # RecLink(701,v702,3,_recFirst)  // Output loopen

    LOOP Erx # RecLink(701,v702,3,_recNext)

    WHILE (Erx<=_rLocked) do begin

        if (BAG.IO.Materialtyp<>c_IO_BAG) then CYCLE;

```

```

if (BAG.IO.NachBAG=BAG.P.Nummer) then begin

    Erx # RecLink(702, 701,4,_RecFirst);    // NachPos holen

    if (Erx<=_rLocked) and ((BAG.P.Aktion=C_BAG_Walz) or (BAG.P.Aktion=c_Vorwalzen)) then begin

        if (aSet=false) then

            aVon # aVon + 1;

            vNF # 1 + _FolgendesWalzen(aTxt, aSet, aPos+1, var aVon);

//debug('bekomme : '+aint(vVor));

        end;

    end;

    BREAK;

END;

RekRestore(v702);


if (aSet) then begin

    vA # 'BA'+aint(BAG.P.nummer)+'/'+aint(BAG.P.Position)+'|'+aint(aPos)+' / '+aint(aVon);

//debug(vA);

    TextAddLine(aTxt,vA);

    end;


    RETURN vNF;

end;


//=====

//=====

sub _702NachDL(

```



```
aDL      : int;

aTxt      : int;

alstPlan  : logic;

);

local begin

    Erx      : int;

    vGuete    : alpha;

    vFest     : alpha;

    vGew      : int;

    vStich    : alpha;

    vStatus   : alpha;

    vVon      : alpha;

    vBis      : alpha;

    vInputD   : float;

    vInputB   : float;

    vOutputD  : float;

    vTlg      : int;

    vDauer    : int;

    vDauer2   : int;

    vX        : float;

    vZeile    : int;

    vI        : int;

    vA        : alpha;

    vGes      : int;

    vVor, vNach : int;

    vStart    : alpha;
```

```

vEnde    : alpha;

vRinge   : int;

vCustom  : alpha;

vBTol    : alpha;

vOutputDTol : alpha;

vTerm    : date;

vTermText : alpha;

vTerm2    : date;

vTerm2Text : alpha;

vTerm3    : date;

vKW, vJahr : word;


end;

begin


// "Stiche" suchen

vI # TextSearch(aTxt, 1, 1, _TextSearchCI, 'BA'+aint(BAG.P.Nummer)+'/'+aint(BAG.P.Position));

if (vI>0) then begin

    vA # TextLineRead(aTxt, vI, 0);

    vStich # Str_Token(vA, '|',2);

end

else begin

    // Vorherige Walzen suchen:

    vVor # _VorherigesWalzen(aTxt, false, 0, var vGes);

    vNach # _FolgendesWalzen(aTxt, false, 0, var vGes);

    _VorherigesWalzen(aTxt, true, vVor+1, var vGes);

```

```

_FolgendesWalzen(aTxt, true, vVor+1, var vGes);

if (vGes>0) then begin
    vStich # aint(vVor+1)+' / '+aint(vGes);
end;

end;

vStatus # Str_Token(BA1_Planung_Subs:GetStatus(aTxt),'|',2);


vTlg # -1;


FOR Erx # RecLink(701,702,2,_recFirst)  // Input loopen
LOOP Erx # RecLink(701,702,2,_recNext)
WHILE (Erx<=_rLocked) do begin
    if ((BAG.IO.Materialtyp=c_IO_Mat) or
        (BAG.IO.Materialtyp=c_IO_Theo) or
        (BAG.IO.Materialtyp=c_IO_BAG)) and (BAG.IO.VonFertigmeld=0) then begin
        vGuete # "BAG.IO.Güte";
        vInputD # BAG.IO.Dicke;
        vInputB # BAG.IO.Breite;

        if (vTlg=-1) then
            vTlg # BAG.IO.Teilungen;
        if (vTlg<>BAG.IO.Teilungen) then
            vTlg # -2;

        RecBufClear(200);
    end;
end;

```

```

BA1_Planung_Sub: Get701Mat();

vX # 0.0;

if (Mat.Analysennummer<>0) then begin
    Lys.Analysenr # Mat.Analysennummer;
    Erx # RecReaD(231,1,0);
    if (Erx<=_rLocked) then
        vX # Lys.Zugfestigkeit;
    end;
    if (vFest<>"") then
        vFest # vFest + '/';

    vFest # StrCut(vFest + anum(vX,3),1,80);
    vGew # vGew + cnvif(BAG.IO.Plan.Out.GewN);
    vRinge # vRinge + BAG.IO.Plan.Out.Stk;
end;

END;

Erx # RecLink(703,702,4,_recFirsT); // Fertigung holen

vOutputD # BAG.F.Dicke;
vOutputDTol # BAG.F.DickenTol;
vBTol # BAG.F.BreitenTol; // !!!!

vDauer # cnvif(BAG.P.Plan.Dauer);

vDauer2 # BA1_Planung_Sub: GetSonderDauer();

```

vDauer # vDauer - vDauer2;

if (alstPlan) then begin

 _AddSum(1, vDauer, vGew);

end;

vStart # cnvad(BAG.P.Plan.StartDat)+' '+cnvat(BAG.P.Plan.StartZeit);

vEnde # cnvad(BAG.P.Plan.EndDat)+' '+cnvat(BAG.P.Plan.EndZeit);

if (BAG.P.Fenster.MinDat>0.0.0) then

 vVon # cnvad(BAG.P.Fenster.MinDat)+' '+cnvat(BAG.P.Fenster.MinZe);

// 20.12.2018 : nicht Fenster, sondern Termin laut JIT

// if (BAG.P.Fenster.MaxDat>0.0.0) then

// vBis # cnvad(BAG.P.Fenster.MaxDat)+' '+cnvat(BAG.P.Fenster.MaxZe);

vBis # vStart;

RecLink(700,702,1,_recFirst); // Kopf holen, 20.08.2020 AH

BA1_Planung_Sub:FindeKommissionsTermine(var vTerm, var vTerm2, var vTerm3);

if (vTerm<>0.0.0) then begin

 Lib_Berechnungen:KW_Aus_Datum(vTerm, var vKW, var vJahr);

 vTermText # aint(vKW)+'/'+aint(vJahr);

end;

if (vTerm2<>0.0.0) then begin

 Lib_Berechnungen:KW_Aus_Datum(vTerm2, var vKW, var vJahr);

 vTerm2Text # aint(vKW)+'/'+aint(vJahr);

end;

aDL->WinLstDatLineAdd(RecInfo(702,_recId)); // NEUE ZEILE

vZeile # _WinLstDatLineLast;

aDL->WinLstCellSet(vStatus, cClmStatus ,vZeile);

aDL->WinLstCellSet(vTlg, cClmTlg ,vZeile);

aDL->WinLstCellSet(vDauer, cClmDau ,vZeile);

aDL->WinLstCellSet(vDauer2, cClmDau2 ,vZeile);

aDL->WinLstCellSet(vDauer2+vDauer, cClmDauSum ,vZeile);

aDL->WinLstCellSet(vStart, cClmStart ,vZeile);

aDL->WinLstCellSet(vEnde, cClmEnde ,vZeile);

aDL->WinLstCellSet(BAG.P.Zusatz, cClmProg ,vZeile);

aDL->WinLstCellSet(vGuete, cClmGuete ,vZeile);

aDL->WinLstCellSet(vFest, cClmFest ,vZeile);

aDL->WinLstCellSet(aint(BAG.P.Nummer)+'/'+aint(BAG.P.Position), cClmBag, vZeile);

aDL->WinLstCellSet(vStich, cClmStich ,vZeile);

aDL->WinLstCellSet(vVon, cClmVon ,vZeile);

aDL->WinLstCellSet(vBis, cClmBis ,vZeile);

aDL->WinLstCellSet(vInputD, cClmInputD ,vZeile);

aDL->WinLstCellSet(vOutputD, cClmOutputD ,vZeile);

aDL->WinLstCellSet(vOutputDTol, cClmOutputDTol,vZeile);

aDL->WinLstCellSet(vInputB, cClmInputB ,vZeile);

aDL->WinLstCellSet(vBTol, cClmBTol ,vZeile);

```

aDL->WinLstCellSet(vRinge,      cClmRinge  ,vZeile);

aDL->WinLstCellSet(vGew,        cClmGew    ,vZeile);


aDL->WinLstCellSet(vTerm2Text,   cClmTerminW ,vZeile);
aDL->WinLstCellSet(vTermText,    cClmTerminZ ,vZeile);


vCustom # cnvaf(10000.0-vInputB,_FmtNumLeadZero|_FmtNumNoGroup,0,3,10);
vCustom # vCustom + cnvaf(10000.0-vInputD,_FmtNumLeadZero|_FmtNumNoGroup,0,3,10);
aDL->WinLstCellSet(vCustom,      cClmCustom  ,vZeile);

end;


//=====

//=====

sub _FindePlanname(aName : alpha) : alpha
local begin

  Erx      : int;

  vA       : alpha;

  vDat     : date;

  vKW      : word;

  vJahr    : word;

  vI       : int;

end;

begin

//debugx(aName);

```

```

// neuen Namen suchen...

if (aName='') then begin

    // 1. Eintrag bestimmt den Namen

    WinLstCellGet(cDLPlan, vA, cCImStart, 1);

    if (vA='') then RETURN "";

    vDat # cnvda(Str_Token(vA,' ',1));

    if (vDat=0.0.0) then RETURN "";

    Lib_Berechnungen:KW_aus_Datum(vDat, var vKW, var vJahr);


    Erx # _rOK;

    FOR vl # 1

    LOOP inc(vl);

    WHILE (Erx<=_rMultikey) do begin

        if (vl=100) then RETURN "";

        aName # aint(vJahr)+'/'+aint(vKW)+'/'+aint(vl);

        RecBufClear(702);

        BAG.P.Plan.StartInfo # aName;

        Erx # RecRead(702,10,0); // BA-Position mit diesem Namen suchen

//debugx('Suche '+aName+' = Erx');

        END;

    end;


//debugx('neuer Name:'+aName);

    RETURN aName;

end;

```



```
//=====

//=====

sub SaveAll(aPlanname : alpha) : logic
local begin

    Erx    : int;

    vl     : int;

    vID    : int;

    vTlg   : int;

    vFolge : int;

    vDau   : int;

    vDau2  : int;

    vA,vB  : alpha;

    vDat   : date;

    vTim   : time;

    vTxt   : int;

    vRTF   : int;

    vCT1   : caltime;

    vCT2   : caltime;

end;

begin

    if ($btRefresh2->wpVisible) then begin

        Msg(99,'Bitte zuerst einen REFRESH durchführen!',0,0,0);

        RETURN false;

    end;

end;
```

```
if (aPlanname='') and (WinLstDatLineInfo(cDLPlan, _WinLstDatInfoCount)<=0) then begin
```

```
    Msg(99,'Keine Einträge vorhanden! ',0,0,0);
```

```
    RETURN false;
```

```
end;
```

```
vTxt # TextOpen(16);
```

```
// ABHÄNGIGKEITEN PRÜFEN -----
```

```
if (BA1_Planung_Subs:CheckAbhaenigkeiten(cMDI, cDLPlanName, vTxt, cCImStart, cCImEnde, cCImBA
```

```
    TextClose(vTxt);
```

```
    RETURN false;
```

```
end;
```

```
// KONFLIKTE FINDEN -----
```

```
if (BA1_Planung_Subs:CheckKonflikte(cMDI, cDLPlanName, vTxt, cCImStart, cCImEnde, cCImBAG)=fals
```

```
    TextClose(vTxt);
```

```
    RETURN false;
```

```
end;
```

```
aPlanname # _FindePlanname(aPlanname);
```

```
TextClose(vTxt);
```

// VERBUCHEN -----

TRANSON;

// Einträge mit RF löschen, wenn in Pool oder Filter -----

FOR vI # 1

LOOP inc(vI)

WHILE (vI<=WinLstDatLineInfo(cDLPool, _WinLstDatInfoCount)) do begin

WinLstCellGet(cDLPool, vID , cCImRecId, vI);

WinLstCellGet(cDLPool, vFolge,cCImFolge, vI);

if (vFolge=0) then CYCLE;

Erx # RecRead(702, 0,_recId,vID);

If (Erx<>_rOK) then begin

TRANSBRK;

WinLstCellGet(cDLPool, vA, cCImBAG, vI);

Msg(99,'BA '+vA+' kann nicht verändert werden!',0,0,0);

RETURN false;

end;

// ÄNDERN....

PtD_Main:Memorize(702);

RecRead(702,1,_RecLock);

// BAG.P.Plan.StartInfo # ";

if (BAG.P.Plan.StartInfo<>cJIT) then BAG.P.Plan.StartInfo # " ; // 19.12.2018

BAG.P.Reihenfolge # 0;

Erx # RekReplace(702);

```

if (Erx=_rOK) then

    PtD_Main:Forget(702)

else

    PtD_Main:Memorize(702);

END;


FOR vI # 1

LOOP inc(vI)

WHILE (vI<=WinLstDatLineInfo(cDLPoolFilter, _WinLstDatInfoCount)) do begin

    WinLstCellGet(cDLPoolFilter, vID , cCImRecId, vI);

    WinLstCellGet(cDLPoolFilter, vFolge,cCImFolge, vI);

    if (vFolge=0) then CYCLE;


    Erx # RecRead(702, 0,_recId,vID);

    If (Erx<>_rOK) then begin

        TRANSBRK;

        WinLstCellGet(cDLPoolFilter, vA, cCImBAG, vI);

        Msg(99,'BA '+vA+' kann nicht verändert werden!',0,0,0);

        RETURN false;

    end;


    // ÄNDERN....

    PtD_Main:Memorize(702);

    RecRead(702,1,_RecLock);

//   BAG.P.Plan.StartInfo # ";

    if (BAG.P.Plan.StartInfo<>cJIT) then BAG.P.Plan.StartInfo # "; // 19.12.2018

```

```
BAG.P.Reihenfolge    # 0;

BAG.P.Plan.ManuellYN # n;

Erx # RekReplace(702);

if (Erx=_rOK) then

    PtD_Main:Forget(702)

else

    PtD_Main:Memorize(702);

END;
```

```
// PLANUNG -----
```

```
FOR vI # 1
```

```
LOOP inc(vI)
```

```
WHILE (vI<=WinLstDatLineInfo(cDLPlan, _WinLstDatInfoCount)) do begin
```

```
    WinLstCellGet(cDLPlan, vID , cCImRecId, vI);
```

```
    WinLstCellGet(cDLPlan, vTIg , cCImTIg, vI);
```

```
    WinLstCellGet(cDLPlan, vDau , cCImDau, vI);
```

```
    WinLstCellGet(cDLPlan, vDau2, cCImDau2, vI);
```

```
    WinLstCellGet(cDLPlan, vA,   cCImStart, vI);
```

```
    WinLstCellGet(cDLPlan, vB,   cCImEnde, vI);
```

```
Erx # RecRead(702, 0,_recId,vID);
```

```
If (Erx<>_rOK) then begin
```

```
    TRANSBRK;
```

```
    WinLstCellGet(cDLPlan, vA,   cCImBAG, vI);
```

```
Msg(99,'BA '+vA+' kann nicht verändert werden!',0,0,0);
```

```
RETURN false;
```

```
end;
```

```
If (vA=cKeinKal) or (vB=cKeinKal) then begin
```

```
TRANSBRK;
```

```
Msg(99,'Bitte Ressourcen-Kalender erst richtig ausfüllen!',0,0,0);
```

```
RETURN false;
```

```
end;
```

```
// ÄNDERN....
```

```
PtD_Main:Memorize(702);
```

```
RecRead(702,1,_RecLock);
```

```
vDat # cnvda(Str_Token(vA,' ',1));
```

```
vTim # cnvta(Str_Token(vA,' ',2));
```

```
BAG.P.Plan.StartDat # vDat;
```

```
//Lib_Debug:Protokoll('!BSP_Log_Komisch', 'Set BA-Termin '+aint(BAG.P.Nummer)+'/'+aint(BAG.P.Position
```

```
BAG.P.Plan.StartZeit # vTim;
```

```
BAG.P.Plan.Dauer # cnvfi(vDau + vDau2);
```

```
vDat # cnvda(Str_Token(vB,' ',1));
```

```
vTim # cnvta(Str_Token(vB,' ',2));
```

```
BAG.P.Plan.EndDat # vDat;
```

```
BAG.P.Plan.EndZeit # vTim;
```

```
BAG.P.Plan.StartInfo # aPlanname;
```

```
BAG.P.Reihenfolge # vl;
```

```
BAG.P.Plan.ManuellYN # y;
```

```

if (BAG.P.Plan.StartInfo=cJIT) then BAG.P.Plan.StartInfo # "; // 19.12.2018

Erx # RekReplace(702);

if (Erx=_rOK) then

    PtD_Main:Forget(702)

else

    PtD_Main:Memorize(702);

BA1_Planung_Sub:SetSonderDauer(", vDau2);

//debugx('save KEY702 mit Erx');

FOR Erx # RecLink(701,702,2,_recFirst)  // Input loopen
LOOP Erx # RecLink(701,702,2,_recNext)
WHILE (Erx<=_rLocked) do begin

    if (BAG.IO.Teilungen=vTLG) then CYCLE;  // 29.10.2019

    if ((BAG.IO.Materialtyp=c_IO_Mat) or
        (BAG.IO.Materialtyp=c_IO_Theo) or
        (BAG.IO.Materialtyp=c_IO_BAG)) and (BAG.IO.VonFertigmeld=0) then begin

        Erx # RecRead(701,1,_recLock);

        BAG.IO.Teilungen    # vTlg;

        BAG.IO.AutoTeilungYN # false;

        Erx # BA1_IO_Data:Replace(_recUnlock,'MAN');

        if (Erx<>_rOK) then begin

```

```

TRANSBRK;

WinLstCellGet(cDLPlan, vA, cCImBAG, vl);

Msg(99,'BA '+vA+' : Einsatz kann nicht verändert werden!',0,0,0);

RETURN false;

end;

// Output aktualisieren

if (BA1_F_Data:UpdateOutput(701,n)=false) then begin

    TRANSBRK;

    vA # gTitle;

    gTitle # 'BA '+aint(BAG.P.Nummer)+'/'+aint(BAG.P.Position);

    Error(701010,"");

    ErrorOutput;

    gTitle # vA;

    ErrorOutput;

    RETURN false;

end;

// alle Fertigungen neu errechnen

if ("BAG.P.Typ.1In-1OutYN") or

    ("BAG.P.Typ.1In-yOutYN") then

    BA1_P_Data:ErrechnePlanmengen();

end;

END; // Input

END;

```


TRANSOFF;

Msg(99,'Erfolgreich als Planung '+aPlanname+' gespeichert!',0,0,0);

\$bt.Save->wpcustom # "; // Änderung vermerken

_AbleDrucken(true);

RETURN true;

end;

//=====

//=====

sub _SavenMussSein()

begin

\$bt.Save->wpcustom # 'change'; // Änderung vermerken

_AbleDrucken(false);

end;

//=====

//=====

sub _RefreshMussSein(aDL : int)

begin

if (aDL=cDIPool) then RETURN;

```
_SavenMussSein();  
$btRefresh2->wpVisible # true;  
end;
```

```
//=====
```

```
//=====
```

```
sub RefreshTermine()
```

```
local begin
```

```
    vHdl : int;
```

```
    vDat : date;
```

```
    vTim : time;
```

```
    vTxt : int;
```

```
end;
```

```
begin
```

```
    WinLayer(_WinLayerStart, gFrmMain, 20000, 'Berechne...', _WinLayerDarken);
```

```
    vHdl # WinSearch(cMDI, 'edDatum');
```

```
    vDat # vHdl->wpCaptiondate;
```

```
    vHdl->wpColBkg # _WinColWindow;
```

```
    vHdl # WinSearch(cMDI, 'edZeit');
```

```
    vTim # vHdl->wpCaptionTime;
```

```

// Zeiten erstellen...

vHdl # WinSearch(cMDI, 'lbText');

vTxt # cnvia(vHdl->wpCustom);

BA1_Planung_Sub:KTextBuild(vTxt, Rso.Gruppe, vDat);


// neu einplanen...

cDLPlan->wpAutoUpdate # false;

_Recalc(vDat, vTim, true);

cDLPlan->Winupdate(_WinUpdOn, _WinLstFromTop| _WinLstPosSelected);


cDLPlan->winFocusset(true);


$btRefresh2->wpVisible # false;


WinLayer(_WinLayerEnd);


end;


//=====
//=====

sub _IsFiltered(aStatus : alpha) : logic
begin

if (StrFind(aStatus,'bereit',1)>0) then

RETURN ($cb.Filter.Bereit->wpCheckState=_WinStateChkChecked);

```

```

if (StrFind(aStatus,'warte',1)>0) then

    RETURN ($cb.Filter.Theo->wpCheckState=_WinStateChkChecked);

if (StrFind(aStatus,'fertig',1)>0) then

    RETURN ($cb.Filter.Erledigt->wpCheckState=_WinStateChkChecked);


    RETURN ($cb.Filter.Zum->wpCheckState=_WinStateChkChecked);

end;


//=====

//=====

sub RefreshFilter()

local begin

    vI   : int;

    vA   : alpha;

    vOK  : logic;

end;

begin

    WinLayer(_WinLayerStart, gFrmMain, 20000, 'Filterung...', _WinLayerDarken);

    cDLPool->wpAutoUpdate # false;


    // Pool in Ablage schieben...

    FOR vI # 1

    LOOP inc(vI)

    WHILE (vI<=WinLstDatLineInfo(cDLPool, _WinLstDatInfoCount)) do begin

```

```

WinLstCellGet(cDLPool, vA , cCImStatus, vI);

if (_IsFiltered(vA)=false) then CYCLE;

// in ABLAGE schieben...

Lib_DataList:Move(cDLPool, vI, cDIPoolFilter, 1);

//cDLPlan->WinLstDatLineRemove( vI);

dec(vI);

END;


// Ablage in Pool schieben...

FOR vI # 1

LOOP inc(vI)

WHILE (vI<=WinLstDatLineInfo(cDLPoolFilter, _WinLstDatInfoCount)) do begin

WinLstCellGet(cDLPoolFilter, vA , cCImStatus, vI);

if (_IsFiltered(vA)) then CYCLE;

// in POOL schieben...

Lib_DataList:Move(cDLPoolFilter, vI, cDIPool, 1);

dec(vI);

END;


cDLPool->WinUpdate( _winUpdOn, _winLstPosTop);

WinLayer(_WinLayerEnd);


end;

```

```
//=====
```

```
// EvtInit
```

```
//      Initialisieren der Applikation
```

```
//=====
```

```
sub EvtInit (
```

```
    aEvt    : event;
```

```
): logic
```

```
begin
```

```
    gTitle    # Translate( cTitle );
```

```
    gMenuName  # cMenuName;
```

```
    gMenuEvtProc # here+':EvtMenuCommand';
```

```
    Mode      # c_modeEdList;
```

```
// App_Main:EvtInit( aEvt );
```

```
    Lib_GuiCom:RecallList(cDLPlan, cTitle);    // Usersettings holen
```

```
    Lib_GuiCom:RecallList(cDLPool, cTitle);    // Usersettings holen
```

```
    Lib_GuiCom:RecallList(cDLPlan, cTitle);    // Usersettings holen DOPPELT weil sonst clmSTATUS nicht
```

```
    Lib_GuiCom:RecallList(cDLPool, cTitle);    // Usersettings holen
```

```
    App_Main:EvtInit( aEvt );
```

```
end;
```

```
//=====
```

```
//=====
```

```
sub StartEdit()
```

```
begin
```

```
Lib_DataList:StartListEdit(cDLPlan, c_ModeEdListEdit, 0, _winLstEditClearChanged );
```

```
end;
```

```
//=====
```

```
//=====
```

```
sub _Resort(
```

```
    aDL : int;
```

```
    aCIm : int)
```

```
local begin
```

```
    Erx    : int;
```

```
    vI    : int;
```

```
    vB,vD : float;
```

```
    vA    : alpha;
```

```
    vID   : int;
```

```
    vTree : int;
```

```
    vItem : int;
```

```
    vTxt  : int;
```

```
end;
```

```
begin
```

```
// 16.04.2019 AH: Planung temporär umsortieren - NICHT permanent
```

```
if (aDL<>cDLPool) then begin
```

```
    Winupdate(aDL,_winupdoFF);
```

```
    vTree # CteOpen(_CteTree);
```

```
    FOR vI # 1
```

```
        LOOP inc(vI)
```

```

WHILE (vI<=WinLstDatLineInfo(aDL, _WinLstDatInfoCount)) do begin

    WinLstCellGet(aDL, vID, cCImRecID, vI);

    WinLstCellGet(aDL, vB, cCImInputB, vI);

    WinLstCellGet(aDL, vD, cCImInputD, vI);


    //Erx # RecRead(702, 0, _recID, vID); // BA-Pos holen

    vA # cnvaf(10000.0 - vB,_FmtNumLeadZero|_FmtNumNoGroup,0,3,10);

    vA # vA + cnvaf(10000.0 - vD,_FmtNumLeadZero|_FmtNumNoGroup,0,3,10);


    vTree->CteInsertItem(vA + '|' + aint(vID), vID, vA);

END;


aDL->WinLstDatLineRemove(_WinLstDatLineAll);

vTxt # TextOpen(20);

FOR vItem # vTree->CteRead(_cteFirst );

LOOP vItem # vTree->CteRead(_cteNext, vItem );

WHILE ( vItem != 0 ) DO BEGIN

    vID # vItem->spID;

    Erx # RecRead(702, 0, _recID, vID); // BA-Pos holen

    _702NachDI(aDL, vTxt, false);

END;

TextClose(vTxt);

CteClear(vTree, true);

CteClose(vTree);

winupdate(aDL,_WinupdOn);

RETURN;

```


end;

Winupdate(aDL,_winupdoFF);

aCIm->wpCImSortFlags # _WinCImSortFlagsAutoActive|_WinCImSortFlagsAutoSelected;

winupdate(aDL,_WinupdSort);

winupdate(aDL,_WinupdOn);

// Winupdate(aDL, _Winupdon|_winupdSort, _WinLstFromFirst);

// aCIm->wpCImSortFlags # 0;

RETURN;

end;

//=====

// RecDel

// Satz soll gelöscht werden

//=====

sub RecDel()

local begin

vID : int;

vDau : int;

vGew : int;

vHdl : int;

vltem : int;

vNr : int;

end;

begin

if (Msg(99,'Sollen die markierten Einträge wieder in den Pool gesetzt werden?','_WinIcoQuestion','_WinDia

REPEAT

vHdl # cDLPlan->wpSelData;

if (vHdl<>0) then begin

vHdl # vHdl->wpData(_WinSelDataCteTree);

if (vHdl<>0) then begin

vltem # vHdl->CteRead(_CteFirst);

// LOOP vltem # vHdl->CteRead(_CteNext, vltem);

// WHILE (vltem<>0) do begin

//debugx(aint(vltem->spid)+' '+vltem->spName+' : '+vltem->spCustom);

if (vltem>0) then begin

vNr # vltem->spID;

WinLstCellGet(cDLPlan, vID , cCImReclId, vNr);

WinLstCellGet(cDLPlan, vDau , cCImDau, vNr);

WinLstCellGet(cDLPlan, vGew , cCImGew, vNr);

_AddSum(-1, -vDau, -vGew);

// cDLPlan->WinLstDatLineRemove(vNr);

Lib_DataList:Move(cDLPlan, vNr, cDLPool, 1);

CYCLE;

end;

end;

```

end;

BREAK;

UNTIL (1=1);


cDLPlan->WinMsdInsert(cDLPlan->wpCurrentInt);

cDLPlan->WinUpdate( _winUpdOn, _winLstPosTop );


 RefreshMussSein(cDLPlan);

end;


//=====

//=====

sub EvtChanged(

    aEvt          : event;    // Ereignis

) : logic;

begin

 RefreshMussSein(cDLPlan);

 RETURN(true);

end;


//=====

// EvtMenuCommand

//      Fokus vom Objekt wegbewegen

//=====

```

```

sub EvtMenuCommand (

    aEvt      : event;

    aMenuItem : int;

) : logic

local begin

    Erx      : int;

    vHdl : int;

    vID  : int;

end;

begin

    if (aMenuItem->wpName='Mnu.ZumBA') then begin

        vHdl # WinfoGet();

        if (vHdl=cDLPlan) or (vHdl=cDLPool) then begin

            if (vHdl->wpCurrentInt>0) then begin

                WinLstCellGet(vHdl, vID, cCImRecID, vHdl->wpCurrentInt);

                Erx # RecRead(702, 0, _recID, vID); // BA-Pos holen

                if (Erx<=_rLocked) then begin

                    Erx # RecLink(700,702,1,_recFirst); // BA holen

                    gMDI # Lib_GuiCom:AddChildWindow(gMDI,'BA1.Combo.Verwaltung'," ,y);

                    VarInstance(WindowBonus,cnvIA(gMDI->wpcustom));

                    w_Command # 'REPOS';

                    w_Cmd_Para # AInt(vID);

                    Lib_GuiCom:RunChildWindow(gMDI);

                    RETURN true;

                end;

            end;

        end;

    end;

end;

```

```

    end;

end;

end;

if (aMenuItem->wpName='Mnu.DL.Refresh') then begin
    if (aEvt:Obj=cDLPlan) then
        RefreshTermine()
    else //if (aEvt:Obj=cDLPool) then
        RefreshFilter()
    RETURN true;
end;

if (aMenuItem->wpName='Mnu.DL.Delete') then begin
    vHdl # WinfoGet();
    if (vHdl=cDLPlan) then
        RecDel();
    RETURN true;
end;

RETURN Lib_Datalist:EvtMenuCommand( aEvt, aMenuItem );

end;

//=====

// EvtLstDataInit

```

```

//

//=====

sub EvtLstDataInit (
    aEvt      : event;
    ald       : int;
) : logic

local begin

    vA  : alpha;

    vHdl : int;

end;

begin

    Lib_DataList:EvtLstDataInit(aEvt, ald);

    aEvt:Obj->WinLstCellSet(ald, cClmFolge, ald); // lfd. Zeilennummer

    // Status...

    vHdl # Winsearch(aEvt:obj, 'clmStatus');

    WinLstCellGet(aEvt:Obj, vA , cClmStatus, ald);

    if (StrFind(vA,'bereit',1)>0) then

        vHdl->wpClmColBkg # _WinColLightGray

    else if (StrFind(vA,'warte',1)>0) then

        vHdl->wpClmColBkg # _WinColLightYellow

    else if (StrFind(vA,'fertig',1)>0) then

        vHdl->wpClmColBkg # RGB(200,255,200)

    else

        vHdl->wpClmColBkg # RGB(200,200,255);

```

```

// Termin...

vHdl # Winsearch(aEvt:obj, 'clmTerminende');

WinLstCellGet(aEvt:Obj, vA , cClmStart, ald);

if (vA=cKeinKal) then

    vHdl->wpClmColBkg # _WinColLightRed;

WinLstCellGet(aEvt:Obj, vA , cClmEnde, ald);

if (vA=cKeinKal) then

    vHdl->wpClmColBkg # _WinColLightRed;

end;

```

```

//=====

```

```

// EvtLstEditCommit

```

```

//

```

```

//=====

```

```

sub EvtLstEditCommit (

```

```

    aEvt      : event;

```

```

    aColumn   : int;

```

```

    aKey      : int;

```

```

    aFocusObject : int;

```

```

) : logic

```

```

local begin

```

```

    Erx      : int;

```

```

    vA       : alpha(1000);

```

```

    vHdl     : int;

```

```

vI,vJ : int;

vDau : int;

vMax : int;

end;

begin

// 18.12.2018 AH: Sofort Editieren vom Programm

if (aColumn->wpname='clmProgramm') then begin

    WinLstCellGet(aEvt:Obj, vI, cCImRecId, _WinLstDatLineCurrent);

    vHdl # Wininfo(aEvt:obj,_WinLstEditObject);

    vA # vHdl->wpcaption;

    Erx # RecRead(702, 0,_recId,vI);

    if (Erx<=_rLocked) then begin

        PtD_Main:Memorize(702);

        RecRead(702,1,_RecLock);

        BAG.P.Zusatz # StrCut(vA,1,32);

        Erx # RekReplace(702);

        if (Erx=_rOK) then

            PtD_Main:Forget(702)

        else

            PtD_Main:Memorize(702);

    end;

    Lib_Datalist:EvtLstEditCommit(aEvt, aColumn, aKey, aFocusObject);

    RETURN true;

end;

```



```

if (aColumn->wpname='clmFolge') then begin

  WinLstCellGet(aEvt:Obj, vI, cClmFolge, _WinLstDatLineCurrent);

  vHdl # Wininfo(aEvt:obj,_WinLstEditObject);

  vI # vHdl->wpcaptionInt;

  vMax # aEvt:Obj->WinLstDatLineInfo(_WinLstDatInfoCount);

  if (vI<0) then vI # 1

  else if (vI>vMax) then vI # vMax;

  vHdl->wpCaptionInt # vI;

  vJ # aEvt:Obj->wpCurrentInt;


  if (vI<>vJ) then begin

    aEvt:Obj->wpCurrentInt # 0;

    Lib_DataList:Move(aEvt:Obj, vJ, aEvt:obj, vI);

//    WinFocusSet($edRuestzeit, true);

//Winupdate(aEvt:obj, _WinUpdOn, _WinLstRecDoSelect);

//    _move(aEvt:obj, vJ, vI);

//    aEvt:Obj->wpautoupdate # false;

    aEvt:Obj->wpMultiselect # false;

    aEvt:Obj->wpCurrentInt # vI;

//aEvt:Obj->WinMsdInsert(vI);

    aEvt:Obj->wpMultiselect # true;

    aEvt:Obj->WinMsdInsert(vI);


//debugx('sel:'+aint(vI));

//winFocusset(aEvT:Obj, true);

//    Winupdate(aEvt:obj, _WinUpdOn, _WinLstPosSelected);// _WinLstRecDoSelect);

```

```

//  aEvt:Obj->wpautoupdate # true;

//  aEvt:obj->wpColFocusBkg  # "Set.Col.RList.Cursor";

    _RefreshMussSein(aEvt:obj);

    RETURN true;

end;

end;


if (aColumn->wpname='clmDauer') then begin

    WinLstCellGet(aEvt:Obj, vDau, cClmDau, _WinLstDatLineCurrent);

    vHdl # Wininfo(aEvt:obj,_WinLstEditObject);

    vDau # (vHdl->wpcaptionInt) - vDau; // Delta

    _AddSum(0, vDau, 0);

end;


Lib_Datalist:EvtLstEditCommit(aEvt, aColumn, aKey, aFocusObject);


    _RefreshMussSein(aEvt:obj);


    RETURN true;

end;

```

```

//=====

// EvtClose

//      Schliessen eines Fensters

//=====

```

```

sub EvtClose (

    aEvt      : event;

) : logic

local begin

    vHdl      : int;

    vl        : int;

    vAnz      : int;

    v703      : int;

end;

begin

    if ($bt.Save->wpcustom<>") then begin

        if (Msg(99,'Alle Änderungen verwerfen?','_WinIcoQuestion','_WinDialogOkCancel,2) <> _Winidok) then R

    end;

    // Aufräumen...

    vHdl # WinSearch(cMDI, 'lbText');

    TextClose(cnvia(vHdl->wpCustom))

    Lib_GuiCom:RememberList(cDLPlan, cTitle);

    Lib_GuiCom:RememberList(cDLPool, cTitle);

    Lib_GuiCom:RememberWindow(aEvt:obj);

    RETURN true;

end;

```

```

//=====

// EvtClicked

//

//=====

sub EvtClicked (
    aEvt      : event
) : logic
local begin

    vColumn    : int;
    vColType    : int;

end;

begin

case ( aEvt:obj->wpName ) of

    'btDruck1' : begin

        BA1_Planung_Sub:Druck1($dl.Plan);

    end;

    'btDruckAlle' : begin

        BA1_Planung_Sub:DruckAll($dl.Plan);

    end;

    'btRefresh', 'btRefresh2' :

        RefreshTermine();

    'bt.RefreshFilter' :

```

```
RefreshFilter();
```

```
'bt.Save' : begin
```

```
if (SaveAll($lbNr->wpCustom)) then begin
```

```
gMDI->winclose();
```

```
gSelected # 1;
```

```
StartInner();
```

```
end;
```

```
end;
```

```
end;
```

```
end;
```

```
//=====
```

```
//=====
```

```
sub EvtMouseItem(
```

```
aEvt      : event;    // Ereignis
```

```
aButton   : int;      // Maustaste
```

```
aHitTest  : int;      // Hittest-Code
```

```
altem     : handle;   // Spalte oder Gantt-Intervall
```

```
aID       : bigint;   // RecID bei RecList / Zelle bei GanttGraph / Druckobjekt bei PrtJobPreview
```

```
) : logic;
```

```
local begin
```

```
Erx      : int;
```

```
vID      : int;
```

```
vA       : alpha;
```

```

end;

begin

/**

// Doppelklick?

// if ((aButton & _WinMouseDouble)>0) then begin

// end;

if ( ald > 0 ) and ( altem > 0 ) and ( aButton = _winMouseLeft | _winMouseDouble ) then begin

// if ( altem->wpCustom != '_SKIP' ) then begin

// end;


WinLstCellGet(aEvt:Obj, vID, cClnRecID, aID);

Erx # RecRead(702, 0, _recID, vID); // BA-Pos holen


Erx # RecLink(700,702,1,_recFirst); // BA holen

gMDI # Lib_GuiCom:AddChildWindow(gMDI,'BA1.Combo.Verwaltung','',y);

//debugx('set repos');

VarInstance(WindowBonus,cnvIA(gMDI->wpcustom));

w_Command # 'REPOS';

w_Cmd_Para # AInt(vID);


Lib_GuiCom:RunChildWindow(gMDI);

RETURN true;

end;

**/

// JumpTo

if (aButton = _winMousemiddle ) and ( aHitTest = _winHitLstView ) then begin

```

```

if (aID=0) or (altem=0) then RETURN true;

if (altem->wpname='clmBAG') then begin

    WinLstCellGet(aEvt:Obj, vA, cClmBAG, aID);

    BAG.Nummer # cnvia(Str_Token(vA,'/',1));

    BAG.P.Nummer   # BAG.Nummer;

    BAG.P.Position # cnvia(Str_Token(vA,'/',2));

    Erx # RecRead(700,1,0);

    if (Erx>_rMultikey) then RETURN true;

    Erx # RecRead(702,1,0);

    if (Erx>_rMultikey) then RETURN true;

    gMDI # Lib_GuiCom:AddChildWindow(gMDI,'BA1.Combo.Verwaltung','',y);

    Lib_GuiCom:RunChildWindow(gMDI);

end

RETURN true;

end;

if (aHitTest=_winHitLstHeader) and (aEvt:Obj<>0) and (aEvt:Obj<>cDLPool) and (altem<>0) and (altem->wpname='clmBAG') then

    if (Msg(99,'Reihenfolge wirklich umsortieren?','_WinIcoQuestion, _WinDialogYesNo,2)=_WinIdYes) then

        _Resort(aEvt:Obj, Winsearch(aEvt:Obj, 'clmCustom'));

        RETURN false;

    end;

end;

end;

if (aHitTest=_winHitLstHeader) and (aEvt:Obj<>0) and (aEvt:Obj=cDLPool) and (altem<>0) and (altem->wpname='clmBAG') then

    if (Msg(99,'Reihenfolge wirklich umsortieren?','_WinIcoQuestion, _WinDialogYesNo,2)=_WinIdYes) then

        _Resort(aEvt:Obj, Winsearch(aEvt:Obj, 'clmCustom'));

    end;

end;

```

```

    RETURN true;

end;

end;

RETURN Lib_Datalist:EvtMouseItem(aEvt, aButton, aHitTest, altem, aID);

end;

//=====

//=====

sub EvtKeyItem(

    aEvt          : event;    // Ereignis

    aKey          : int;      // Taste

    aID           : bigint;   // RecID bei RecList, Node-Deskriptor bei TreeView, Focus-Objekt bei Frame

) : logic;

begin

    // DELETE nur in Planung

    if ( aKey = _WinKeyDelete) then begin

        if (aEvt:Obj=cDLPlan) then

            RecDel();

        end;

    // EDIT nur in Planung...

    if (aKey = _WinKeyTab) or ( aKey = _winKeyReturn ) then begin

        if (aEvt:Obj=cDLPlan) then

```



```

    RETURN Lib_DataList:EvtKeyItem(aEvt, aKey, aID);

end;


RETURN true;

end;


//=====

//=====

sub EvtDragInit(

    aEvt          : event;   // Ereignis

    aDataObject   : handle;  // Drag-Datenobjekt

    aEffect       : int;     // Rückgabe der erlaubten Effekte (_WinDropEffectNone = Cancel)

    aMouseBtn     : int;     // Verwendete Maustasten (optional)

    aDataPlace    : handle;

) : logic;

begin

    BA1_Planung_Sub:EvtDragInit(aEvt, aDataObject, var aEffect, aMouseBtn, aDataPlace, cModulName);

    RETURN true;

end;


//=====

// EvtDrop

//=====

```

```

sub EvtDrop(

    aEvt          : event;  // Ereignis

    aDataObject   : handle; // Drag-Datenobjekt

    aDataPlace    : handle; // DropPlace-Objekt

    aEffect       : int;    // Eingabe: vom Benutzer gewählter Effekt, Ausgabe: durchgeführter Effekt

    aMouseBtn     : int;    // Verwendete Maustasten

) : logic;

local begin

    vData      : int;

    vltem      : int;

    vLine      : int;

    vPlace     : int;

    vA         : alpha;

    vVon, vNach : int;

    vMin       : int;

    vI         : int;

    vID        : int;

    vRunter    : logic;

    vPre,vPost : int;

    vAnz       : int;

    vDL1, vDL2 : int;

    vDau, vDau2 : int;

    vGew       : int;

end;

begin

```

```

//vHdl # cDL;

// vDL1 # aEvt:Obj;

if (aDataObject->wpFormatEnum(_WinDropDataUser)) then begin
  if (aDataObject->wpname=cModulName) then begin
    vDL1 # cnvia(aDataObject->wpcustom);
    vDL2 # aEvt:Obj;
    aEffect # _WinDropEffectCopy | _WinDropEffectMove;
    vData # aDataObject->wpData(_WinDropDataUser);
    vData # vData->wpData;
    if (vData=0) then RETURN false;

    vLine # aDataPlace->wpArgInt(0);
    vPlace # aDataPlace->wpDropPlace;

    // Einfügeposition.
    case vPlace of
      _WinDropPlaceAppend : begin
        inc(vLine);//vA # 'NACH';// inc(vLine);
      end;
    end;

    // if (vPlace=_WinDropPlaceThis) => Maus AUF einem Eintrag
    vDL1->winupdate(_winupdoft);
    if (vDL1<>vDL2) then
      vDL2->winupdate(_winupdoft);
  end;
end;

```

```

vMin # 32000;

FOR vItem # vData->CteRead(_CteFirst)
LOOP vItem # vData->CteRead(_CteNext, vItem)
WHILE (vItem<>0) do begin

    vVon # vItem->spid;

    vNach # vLine;

//debugx(aint(vVon)+' nach '+aint(vNach));

    if (vDL1=vDL2) then begin
        if (vVon=vNach) then CYCLE;

        vRunter # vVon<vNach;

        if (vRunter) then begin
//            if (vPlace=_WinDropPlaceThis) then

                vVon # vVon - vPre;

                vNach # vNach - 1;          // wegen REMOVE

            end

        else begin

            vNach # vNach + vPost;

        end;

        if (vNach=0) then CYCLE;

    end

else begin // Pool <-> Plan oder Plan <-> Pool

    vVon # vVon - vPre;

end;

```

```
WinLstCellGet(vDL1, vDau , cCImDau, vVon);  
WinLstCellGet(vDL1, vDau2, cCImDau2, vVon);  
WinLstCellGet(vDL1, vGew , cCImGew, vVon);
```

```
//debugx(aint(vVon)+' nach '+aint(vNach));
```

```
Lib_DataList:Move(vDL1, vVon, vDL2, vNach);
```

```
if (vDL1=vDL2) then begin
```

```
  if (vRunter) then
```

```
    inc(vPre)
```

```
  else
```

```
    inc(vPost);
```

```
end
```

```
else begin  // Pool <-> Plan
```

```
  inc(vPre);
```

```
  if (vDL1=cDIPool) then
```

```
    _AddSum(1, vDau, vGew);
```

```
  else
```

```
    _AddSum(-1, -vDau, -vGew);
```

```
end;
```

```
//debugx(' '+aint(vVon)+' nach '+aint(vNach));
```

```
END;
```

```
_RefreshMussSein(vDL1);
```

```
vDL1->WinUpdate(_WinUpdOn, _WinLstFromTop);
```

```
vDL1->WinUpdate(_WinUpdSort);
```

```
if (vDL1<>vDL2) then begin  
    _RefreshMussSein(vDL2);  
    vDL2->WinUpdate(_WinUpdOn, _WinLstFromTop);  
    vDL2->WinUpdate(_WinUpdSort);  
  
    end;  
  
    end;  
  
end;
```

```
RETURN(true);  
  
end;
```

```
//=====
```

```
//=====
```

```
//=====
```

```
//=====
```