IS-HMED Clinical System

SAP ERP Central Component
Release 6.0

Release Notes
## IS-HMED Clinical System

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38 IS-HMED  Clinical System

38.1 Important Activities

Use

*SAP ECC Industry Extension Healthcare 6.0* contains some changeovers on both an application and a technical level. Some of these changeovers will run automatically during the release change, others however will require reworking on your systems and possibly adjustments to your processes. The following summary contains the most important function areas where a check and possibly an adjustment to processes, customizing settings or customer-specific developments is required.

**Replacement of Service Scheduling**

The BAdI N1_SET_PLAN_TOOL for overriding OU parameter N1DISP replaces user exit SAPLN1LD_002. Check implementations of this exit and adjust them accordingly. User exit SAPLN1LD_001 expires with Release 6.00.

Three functions are replaced in the Service Facility/Outpatient Clinic view type (service scheduling, service scheduling with appointment and service scheduling with the planning grid DISL, DISK and PLTF). You therefore need to adjust your function variants.

You can find more information in the Replacement of Service Scheduling (Enhanced) release note.

**Document Categories for Intensive Care Documentation (N5*)**

The dialog applications of the following document categories will be deleted for the current release:
- N5ADMIN  Patient administration (function group N1ADMIN)
- N5APACHEII Intensive care documentation: LOD/APACHEII function group N1APACHEII)
- N5NEOPHYSI Intensive care documentation: Neo-physiology (function group N1NEOPHYSI)
- N5SAPSII Intensive care documentation: Physiological data (function group N1SAPSII)
- N5TISS28 Simplified therapeutic and intervention scoring system (function group N1TISS28)
- N5TRISS Entry of trauma patient (function group N1TRISS)

The function groups quoted in brackets are NOT available in *SAP ECC Industry Extension Healthcare 6.0*. In addition, the document categories have been given a deletion indicator to make them inaccessible for the user. We ask you to check whether you have imported these document categories on your test or production client (transaction N2T7, change document category). If you have one of these document categories on your client, we ask you to import BC Set ISH_N2_PMD_INTENSIV using transaction SCPR20 in order to transfer the deletion of the document categories onto your system.

**Effects on Data Transfer**

**Aspects of the Patient Organizer**

To continue using the existing aspects of the patient organizer, you have to execute report RN1UTP_CHANGE_NWPLACE_P01 after the upgrade. You can find more information in the Patient
38.2 Overview of the Most Important Improvements

Use

Entry of Medical Services
As of SAP ECC Industry Extension Healthcare 6.0 you can enter and process medical services using a new dialog. You can find more information in the Medical Service Entry (New) release note.

Patient Organizer
As of SAP ECC Industry Extension Healthcare 6.0 there are a few improvements available in the patient organizer. You can find more information in the release notes for Patient Organizer: Aspect Maintenance Function (New), Patient Organizer: Integration Treatment Pathways (New) and Patient Organizer: List/Detail Display, Problem Aspect (New).

Drug Events/Inpatient Nursing Services View Type
As of SAP ECC Industry Extension Healthcare 6.0 a new Drug Events/Inpatient Nursing Services view type is available instead of the nursing overview in the clinical work station. You can use this view type as part of nursing support together with Medication to display inpatient nursing services and drug events. You can find more information in the Drug Events/Inpatient Nursing Services View Type (New) release note.

Case Revision
As of SAP ECC Industry Extension Healthcare 6.0 there are a few new functions available for case revision. Consult the Case Revision (Modified) release note for more information.

Appointment Management
As of SAP ECC Industry Extension Healthcare 6.0 the following new functions are available:

- Collective processing in the planning grid enables you to select several appointments (multiple selection) and execute certain processing functions. You can find more information in the Planning Grid: Collective Processing (New) release note.

- In i.s.h.med appointment management you can now manage appointment plans in the system and release them in different stages. You can find more information in the Release-Information Appointment Plans - Plan Release (New) release note.

- In i.s.h.med appointment management you can save appointments which belong together (e.g. physiotherapy, treatment sequences) as an appointment series in the system. In addition to the separate display of appointments belonging to an appointment series, the system also provides extensive processing options. You can find more information in the Appointment Series (New) release note.
- The Comprehensive Planning (Multiappointment) function enables you to allocate appointments for several items of a clinical order in one planning operation while taking into account time dependencies. You can find more information in the Release-Information Comprehensive Planning - Multiappointment (New) release note.

As of SAP ECC Industry Extension Healthcare 6.0 the following functions have been modified or enhanced:

- Up to i.s.h.med Release 4.72 you could use the Use Appointment as Template function to copy patient data from an existing appointment into a new appointment. As of SAP ECC Industry Extension Healthcare 6.0 the system also transfers other data from the appointment. You can find more information in the Planning Grid: use Appointment as Template (Enhanced).

- The display of overlapping appointments (in terms of time) in the time grid of the planning grid has been changed so that all appointments can be displayed next to each other. The dialog box for showing all appointments that were previously not displayed has been replaced by a zoom function. You can find more information in the Planning Grid: Overlapping Appointments, Zoom Function (Modified) release note.

- The Surgery Appointment Planning view type in the clinical work station is now available to organizational units (OUs) which are not indicated as operating OUs. The new name of this view type is therefore Appointment Planning. New enhancements of this view type have been made in connection with this, such as the possibility to automatically update the planning grid's worklist, for example. You can find more information in the Appointment Planning View Type (Enhanced) release note.

- Service scheduling has been completely replaced by the planning grid and the appointment editor. You can find more information in the Replacement of Service Scheduling (Enhanced) release note.

Multiple Assignment of Building Units to Organizational Units

As of SAP ECC Industry Extension Healthcare 6.0, SAP Patient Management (IS-H) enables you to assign multiple building units to organizational units. You can find more information about the changes linked to this in i.s.h.med in the Multiple Assignment of Building Units to Organizational Units release note.

Clinical Order - Changes and Enhancements

You can find an overview of the changes and enhancements in the clinical order in the Clinical Order - Overview of Improvements and Changes release note.

Team Entry - Enhancement

As of SAP ECC Industry Extension Healthcare 6.0 the new Business Add-In (BAdI) N1_FCT_TEAM_SAVE is available which will run before you save the team. You can still make changes to the team with this BAdI.

Radiology - Changes to Data Model

As of SAP ECC Industry Extension Healthcare 6.0 more flexible Customizing is available to avoid functional restrictions. You can find more information in the Radiology (Enhanced) release note. You should particularly make note of the notes about data migration for table TN1AETITLE.

Surgery Evaluations

As of SAP ECC Industry Extension Healthcare 6.0 the following improvements exist:
- OR changeover times (RN2LOP01) new
- OR time stamp statistics (RN2LOP02) revised
- OR personnel obligations (RN2LOP03) new
- Utilizations statistics for operating rooms (RN2LOP05) revised

You can find more information in the Surgery Evaluations (Enhanced) release note.

38.3 IS-HMED-BD Extended Basic Data

38.3.1 Base Items (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0 (IS-H 600), base items are available for the SAP Ambulatory Care Management and Pathways components.

Base items enable you to process objects in the system. You can set a presetting for every object and define the action for initial and repeated execution. The actions available depend on the base item type, e.g. transaction, document or form printing.

The availability of base item types depends on the business functions activated, as explained in Base Item Types Available.

Base items consist of the following functions:

- Base item editor
  The base item editor allows you to create, edit and delete base items. You call it with transaction N2BASEITEM.

- Integration of customizing tools
  In addition to the base item editor, a function for editing base items has been integrated in the template management for SAP Ambulatory Care Management (transaction N2WLD) and in the processing of treatment pathways (transaction N2GD). You can call it in the left navigation tree with the Base Items pushbutton.

- Connection to the transport system
  Base items have a connection to the transport system for corrections. Depending on the client
settings, all changes made to base items are registered in a transport order.

**Base Item Types Available**

Base item types have been implemented for a multitude of objects in the system. These base item types are available in the components which use base items. To be able to use the following base item types you have to activate the **SAP Ambulatory Care Management (ISH_AMBULATORY)** or **Clinical Solution i.s.h.med (ISHMED_MAIN)** business functions.

- Execute customer-specific action (BAdI)
- Maintain diagnoses
- Maintain procedures
- Maintain administrative services
- Edit document
- Print form
- Enter problems
- Call transaction
- Display web address (URL)

You have to activate the **Clinical Solution i.s.h.med (ISHMED_MAIN)** business function to use the following base item types:

- Edit clinical order
- Assign treatment pathway
- Edit request
- Edit medical services

The following base item types are not available in the **Pathways** component:

- Maintain diagnoses
- Enter problem
- Maintain procedures
- Maintain administrative services
- Edit medical services
- Edit progress entry

The **Edit Request** base item type is not available in the **SAP Ambulatory Care Management** component.
38.3.2 Implementation Support (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the following reports are available for implementation support.

- RN2_DOKUMENT_OE_AENDERN
- RN2_DOKUMENT_ORGEINHEIT
- RN2_LEISTUNG_AUFGABEN
- RN2_MITARB_PLANSTELLE
- RN2_DOKUMENT_LEISTUNG

38.3.3 IS-HMED-BD-SM Clinical Service Master

38.3.3.1 Service Management: OPS Localization (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, a new OPS Localization indicator is available in the service master on the Other tab page. Using this indicator, you are able to define whether entry of a localization is obligatory when entering a service or a procedure.

The system executes the check for entry of a localization when services and procedures are entered directly e.g. as part of the clinical order or in the i.s.h.med service entry.

In addition, the system executes a check in the following situations:

- Explicit or implicit medical replacement of services
- Clearing replacement for service release (only in the country versions for Austria and Switzerland)
- Generation of case-related procedures for service release

If you have defined the localization as a required entry field in the service master, the system will also...
check the services or procedures which are subsequently generated for the existence of a localization in these situations.

This is particularly important during the generation of services and procedures for service release as this is a dialog step without dialogs. The system will therefore prevent service release and will issue an error message if the localization is missing.

**Effects on Existing Data**

If you have already entered a service and the system prevents the release of this service due to the lack of a localization, you have to select the service concerned and then enter the localization in the i.s.h.med service entry.

**Effects on Customizing**

An additional check of the OPS Localization indicator with the Loc in Request indicator has been implemented on the Med Indicator tab page in the service master. If the OPS Localization indicator has been set, the Loc in Request indicator cannot have the value "Entry not allowed".

You should be aware of the connectivity between requested services and services or procedures which can arise in further i.s.h.med processes. This means you should also set the OPS Localization indicator for the required entry of a localization in the service master of performable services from which procedures will be generated on release.

**See also**

This function has already been made available with Release 4.63B Add-On Support Package 25 and Release 4.72 Add-On Support Package 7.

You can find more information about the conditions for enhancing the service master with the OPS Localization indicator in the OPS Localization (New) release note for SAP Patient Managements (IS-H).

You should also be aware of note 808402 on this subject.

### 38.3.4 IS-HMED-BD-PD Parameterized Document Categories

#### 38.3.4.1 All document categories have to be generated (Enhanced)

**Use**

In SAP ECC Industry Extension Healthcare 6.0, changes have been made to parameterizable documentation (PMD) which means that you have to regenerate all your own document categories.

The further development of PMD takes place in Generator Version 2; all other release notes refer - unless marked otherwise - exclusively to Generator Version 2.

**Effects on Existing Data**

For document categories of Generator Version 1 it will suffice to generate the dialog application.

You also have to regenerate your own document categories of Generator Version 2.
38.3.4.2 'Enhanced Text' element type can be multiple (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, multiple structures can also contain elements of the Enhanced Text type.

The text is displayed in the table control; you can only edit it with the editor.

38.3.4.3 New and Enhanced API Methods (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the class CL_ISHMED_PMD_SERVICES contains new API methods.

- `api__add_button`: sets a button in the additional key bar.
- `api__disable_function`: deactivates a function of the GUI status or of the additional key bar
- `api__get_focus`: returns the focus
- `api__get_status`: returns the current document status
- `api__get_next_statuses`: returns the direct successor for a specified status
- `api__set_next_status`: sets the next directly specified status
- `api__list_message_number` and `api__list_message_text`: sets a message in the message list; E, W, I and S messages are permitted
- `api__set_service` and `api__get_service`: for interface-free communication with external programs
- `api__set_procmode_update`: sets the current document or external document to change mode
- `api__set_procmode_display (enhanced)`: sets the current or external document to display mode
- `api__sort`: sorts a multiple structure
- `api__undo`: reverses changes
- `api__mark_tabline` and `api__unmark_tabline`: (de)selects rows of a multiple structure
- `api__tabline_is_marked`: query row for selection status
- `api__writable_elements`: returns printable elements
- `api__write_elements`: prints elements

The methods are documented in the class `CL_ISHMED_PMD_SERVICES`.

### 38.3.4.4 Further Improvements to PMD (Enhanced)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0* the following enhancements exist in PMD:

*Dialog and Print Layout*

- Display field element type: Two dimensional layout
  If you select the two dimensional display for a display field outside of a multiple structure, the system displays the field in the screen as a fixed text (without a frame).

- Dynamic labeling of frames
  You can dynamically label simple structures and fixed texts which are displayed as a frame using a modification user exit. To do this you have to set the *By Modification User Exit* indicator in the *Labeling* field group.
  You can then enter the label in the `<pub__field_icon_text>` field in the modification user exit.
  You cannot set an icon. The system displays the frame without labels in the layout control.

- Integration of labels in multiple structures
  For a multiple structure you can select whether the label (as was previously the case) is to be displayed outside of the Table Control or whether it is to be integrated in the Table Control as a title.
  In this case, the position specifications for the label are irrelevant. The height should be at least 5.

- Dynamic supply of title elements with icon and text
  You can now also select the *Icon+Text (by modification user exit)* display for tab pages. In the user exit you have to supply the `<pub__field_icon>` and/or `<pub__field_icon_text>` variables.

- **Highlighted** display format for field labels by user exit
  If you set the `<pub__label_intense> = true` variable in the modification user exit, the system will display field labels or column headings as highlighted.

- Printing texts: Value under label
  For long texts and enhanced texts you can select on the *Print* tab page whether the text print is to
start under or next to the label.
Previously, printing next to the label was initiated by not entering a value for the paragraph format. This had the effect that all subsequent paragraphs were printed as a continuous text (i.e. without paragraph formatting).

Further User Exit Options

- Combo box proposal table with group indicators
In transaction N2KA you can enter any value in the Group for each combo box (box is case-sensitive). In the value selection user exit (see below) you can then, for example, design the OU-related value selection.

- Manipulation of the combo box selection by user exit
You can manipulate the value list before display using a value selection user exit. Before the user exit is called, the system fills the internal table pub_combo_values (structure n2pmdcombo). You can delete or add values from this table. The system then displays this table in the dialog. Combo box table N2KA remains unchanged.

- Own global data can also be instantiated
With Generator Version 2, the system holds all information for the document (data, dialog status etc) during the runtime in a PMD instance. In theory multiple documents (even from the same category) can therefore ‘live’ at the same time. This is however not supported by all applications at the moment. We recommend for a clean instantiation that you keep your own global data in the PMD instance.
To do this, set the also instantiate own data indicator in the PMD header data on the Generation tab page.
Then enter your INCLUDE for Data in the PMD header data on the User Exits tab page. This must only contain type and data declarations. Global data which has been defined in the INCLUDE for Routines is not instantiated.
You can then only access your instantiated data using the <pub__my> field symbol.

Dialog Functions

- In the standard status PMD_EDITOR, all processing functions for multiple structures have been moved to the Process -> Table submenu.

- Sort Tables (New Standard Function)
If you select a table column (click on the column heading) you can sort the multiple structure after this column in ascending or descending order.
Permitted sort columns are
- Simple field
- Combo box field
- Yes-no field
- Checkbox

Caution

Before sorting, the system deletes empty rows at the end of the table but retains embedded empty rows. As a result, sorting in descending and then ascending order can lead to a different result than a simple sort in ascending order.

If an external data module has been inserted in the multiple structure, the system cannot sort the
Handling warnings in the message list
The system checks the document before saving or releasing it. If only warnings occur and no errors, the system asks the user in the dialog if he/she still would like to save. This query only happens once, irrespective of the number of warnings.
Warnings are not interpreted as errors in the corresponding APIs, i.e. the system executes API__SAVE_WITH_COMMIT and API__RELEASE_WITH_COMMIT even though errors exist. If you wish to prevent this, you have to explicitly check beforehand using API__CHECK so that you can react to the warnings.

System Administration
- Tighter checks of system administration
  Some nonsensical parameter combinations are now registered as errors.
- Tighter screen checks in layout control possible
  The Tight Checks option has now been activated in the screen generator. This means that the base generator recognizes overlapping and touching fields. The messages come from the basic components and have the format Field xyz overlaps with other fields. As the PMD Generator cannot interpret the message text, it cannot exactly determine which document element is affected. You can now determine these screen fields before generating. To do this you can find the following functions under Tools:
- Layout control with screen check
- Layout control without screen check
If you receive an error message with screen check, you can determine the incorrect element without a screen check by its appearance.

38.3.4.5 External Data Module N0_Zeiten (Enhanced)

Use
For SAP ECC Industry Extension Healthcare 6.0, the external data module (EDM) has been modified as follows:
- The system rejects negative time differences. The plausibility checks now correspond to the behavior of time documentation.
- You can set a temporary case lock in the EDM.
- If you set the first time of the surgery with this EDM or change the statistics-relevant time, you can simultaneously change the start time of the surgery.
The system does not change the start time of the surgery in the standard system.

**Effects on Data Transfer**

Set case lock
- To set a case lock, set \( X \) in the **first** position of the parameter string of the N0_\_Zeiten external data module. You should ensure that no other module has already set a case lock.
- Change surgery start time
  - To achieve this system response
    - make sure that a case lock is set (e.g. in the parameter string of N0_\_Zeiten) and
    - set \( X \) in the **second** position of the parameter string of the N0_\_Zeiten external data module

You can change the parameters in the EDM or in the document category:
- Change in EDM
  - The settings in the EDM apply to all documents that it is integrated in.
- Change in document category
  - If you change the settings in the document category, you have to change the parameter string for all documentation elements where the EDM has been entered, except for **statistics-relevant time**. Set the interface version to **Version as of Release 304** and regenerate the document category.

**38.3.4.6 New Fields in System Administration (Enhanced)**

**Use**

As of **SAP ECC Industry Extension Healthcare 6.0** there is still only one field for the application in the general definitions.

In the header data for the parameterized document category (application PARAMDOKU) you can now enter, on the 'Header Data' tab page, formats for the **Display** and **Quick View** actions which deviate from the standard. The permitted formats are delivered; you can select them using the input help.
38.3.4.7 PMD: Delivery and Transport (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, parameterized medical documents are delivered using Business Configuration Sets (BC Sets).

These BC Sets must be activated individually using transaction SCPR20. You can also use this transaction to access the BC Set documentation which contains information about the content and use of these sets.

The following BC Sets are delivered with Release 6.0:
- ISH_N2_PMD_PERINAT: Documents for perinatal medicine
- ISH_N2_PMD_N4PVB: Nursing report document
- ISH_N2_PMD_RAD: Radiological sample documents
- ISH_N2_PMD_OPMUSTER: Surgery sample documents
- ISH_N2_PMD_LABOR: Lab / cumulative findings
- ISH_N2_PMD_DEMO: Different demo documents

For German users of SAP Ambulatory Care Management:
- ISH_N2_PMD_AMBKV: German PPA documents
- ISH_N2_PMD_AMBBG: German WCA documents

You can find more detailed instructions and information about BC Sets in the SAP library under Basis -> Customizing -> Business Configuration Sets.

38.3.4.8 PMD: Download and Upload Function (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 you can download the document category definition of PMDs as an XML file onto your PC from a source system and upload it into a target system for checking.

The following reports are available to you for this purpose:
- RN2DTDOWNLOAD downloads the definition data into an XML file. You need to enter the institution, the document category and the version, as well as the local file on the PC. We recommend that you use the name of the document category as the file name; the file name extension must be '.xml'. You can execute the program as a test run (i.e. without downloading the data).

- RN2DTUPLOAD imports the XML file into temporary tables and checks whether the definition data exists in the target system. The system displays the result of the check in a list.

It is planned that the upload function will be enhanced so that the checked definition data can also be saved in the target system.

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38.3.5 IS-HMED-BD-CWS Clinical Work Station

38.3.5.1 Appointment Planning View Type (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the Appointment Planning view type is available in the clinical work station in the clinical system (i.s.h.med). This view type replaces the Surgery Appointment Planning view type which was created exclusively for operating organizational units (OU) in Release 4.72.

The Appointment Planning view type is also available to organizational units which are not operating OUs.

You can use this view type to plan appointments using the planning grid irrespective of context, i.e. without a patient or service reference. You call the planning grid from a LaunchPad on the clinical work station.

Users in outpatient clinics and service facilities can use the planning grid as a central planning instrument. There is therefore no more need to continually toggle between the clinical work station and the planning grid.

The Appointment Planning view type is also equipped with the workpool refresh function. This means that the Refresh function not only updates the time grid's display but also the patient's appointment overview and the planning grid's worklist. You can perform the update manually or automatically using a time interval which you define. In both cases the system displays the current status of the appointment and service requests (with or without order item) without you having to leave the planning grid session.
38.4 IS-HMED-CP  Clinical Patient Management

38.4.1 This release note is relevant for the Austria country version only. Documentation is not available in English.

38.4.2 IS-HMED-CP-CR  Case Processing

38.4.2.1 Case Revision (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the following modifications are available in the area of case revision and are also valid for i.s.h.med:

- You can enter a comment for a reassignment procedure. This comment refers to the procedure itself and not to the individual objects involved in the reassignment process.

- The following functions are available in the case revision dialog:
  - Expand all
  - Collapse all
  - Select all
  - Deselect all

- The system indicates the canceled objects in the source case with an icon.

- Since Release 4.72, the system has created a log for the objects involved when reassigning a visit. As of SAP ECC Industry Extension Healthcare 6.0, you can evaluate the log using the report RNLCASREV.

SAP Patient Management (IS-H) enables you to reassign individual objects which are linked to a visit or a case. The clinical system i.s.h.med prevents the reassigning of the following individual objects:

- Medical services (i.s.h.med services)
  You cannot remove medical services from the whole context of the visit. You can however reassign the whole visit with all attached objects, which would therefore include the medical services.
- Services from SAP Patient Management (IS-H services) which are linked to medical services (e.g. services which have arisen through the replacement of services).
- Service-related procedures which are linked to medical services.
- Material that is linked to a medical service.

When you create using a template from IS-H, the system does not generally take into account i.s.h.med objects. This is basically not possible because the prerequisite for creating with a template is that all objects are to be created in initial status. You cannot therefore create a medical service when creating visits as you can no longer use the initial status of the service due to the link between the visit and the service.

In i.s.h.med, each selected object receives its own function (such as the possibility to use templates for medication orders in Medication, for example).

With the new Release, the system will take into account the new objects from the i.s.h.med Medication module when reassigning visits. This therefore concerns the medication orders and drug events. These objects will have the special feature that the system will only take them into account when reassigning the last visit of a case as they are purely case-related objects. The system does not cancel them and create them again, instead it changes the assignment to the case.

**Effects on Existing Data**

Authorization object **N_CASE_REV** also applies for the new objects. That means as soon as the general authorization to reassign exists, the system will not execute any more authorization checks on the individual object level.

**See also**

When you create with a template in SAP Patient Management (IS-H), the system generally does not take into account i.s.h.med objects. This is basically not possible because the prerequisite for creating with a template is that all objects are to be created in initial status. For example, if you create visits with a template, you cannot create a medical service as well because the medical service in i.s.h.med is only linked to a visit when it has been scheduled and therefore no longer has the initial status.

In i.s.h.med, selected objects will each receive their own function (such as the Copy Order function in Medication, for example).

38.5 IS-HMED-SM Service Management

38.5.1 Medical Service Entry (New)
Use

As of SAP ECC Industry Extension Healthcare 6.0 a new way of entering medical services is available. This new Medical Service Entry contains all functions required for processing medical services and in the future will replace the Service Entry and Subsequent Service Entry functions in i.s.h.med.

Note, that you use this function to enter performed or released medical services that you use the common service processing functions for, such as perform, replace, release, cancel, etc.

As part of SAP ECC Industry Extension Healthcare 6.0 you can use this function in SAP Ambulatory Care Management or as an implementation of Business Add-In (BAdI) N1_WP_LSTAMB in the Outpatient Clinic/Service Facility view type in the clinical work station in i.s.h.med.

To use the function in the Outpatient Clinic/Service Facility view type, you have to transfer the sample code from BAdI N1_WP_LSTAMB into the implementation of this BAdI and equip it with customer-specific data.

Components

You can use functions to switch on and off all interface components - apart from the entry table - of the new service entry in i.s.h.med. You can find these functions in the function bar of the entry table or in the application toolbar if you call the service entry directly from the clinical work station.

Entry Table

This component displays all medical services which have already been saved for this documenting case. In addition, the system also displays services of the patient which have not yet been assigned to a case (unperformed services from a clinical order).

Using filter criteria, you can restrict this amount of services even further, e.g. all services of the case, all services of current visit etc. You can also define new filters using layout maintenance functions.

You can also enter new services if there is a suitable case and a suitable visit in the context of the function. If you wish to switch the case of the patient or the visit when documenting the services in order to document further services, the relevant functions are available in the service entry.

The functions for processing a service are available in a function bar above the entry table. If you use the medical service entry as part of SAP Ambulatory Care Management, you can equip the function bar with a function variant so that only the functions are offered to the end user that he/she actually needs. The definition of the function variant takes place in the clinical work station.

Information for Services

You can display details for services. These are primarily documents for this service, the status history, administrative services to the medical service etc.

You can override this display with the BAdI N1_MEDSRV_INFO. This BAdI is equipped with a country version-dependent filter and thus permits international subsidiaries to make their own implementations. You can find more detailed information in the documentation for BAdI N1_MEDSRV_INFO.
Hit List

The service hit list appears after selection of the **New Services** function. In the hit list, the system displays all performable services of a service facility which are assigned using the range of services of an outpatient clinic or service facility. To optimize entry, the hit list is displayed as integrated. This enables you to enter new services and change existing services at the same time. A multiple selection is possible in the hit list. You can also transfer services to the entry table with a double-click.

In addition to the hit list, favorites are also available. These are services that you have defined as favorites as part of base item definition.

**Effects on Existing Data**

*Taking services from requests into account (N1BA)*

Note, that the new service entry does not display services which come from requests (N1BA). The system only takes into account services without a request and services from clinical orders.

*Presetting of requesting departmental and nursing organizational unit*

Presetting the requesting organizational units (OUs) of a service takes place according to the organizational unit-related settings in the parameters N1ANPOEL and N1ANFOEL.

Previously the *Manually Changed* indicator was always set by the system. This indicator prevented this presetting from being changed by service rules. The system does not set the *Manually Changed* indicator when presetting the requesting OUs anymore. This means the service rules can override this presetting again. Only when the user manually enters the requesting nursing or departmental OU does the system set the *Manually Changed* indicator meaning the subsequent processes cannot change these OUs. To provide a clearer overview, the relevant indicators have been entered in the column set of the entry table.

**Effects on Customizing**

**Settings**

You can define the following settings for calling the medical service entry:

- Properties: You define, for example, whether the integrated hit list is displayed immediately or whether detailed information for services is displayed immediately. You also define the layout and the function variant.

- Presettings: You can preset the requesting nursing, departmental and the performing OU. Furthermore you can define whether the system time or the visit time is entered.

- Hit list: You can make the settings for the hit list. You can also transfer the services you mainly use to the favorites by drag and drop. Note, that it only makes sense to define favorites if the performing OU is also preset, since only then are the services defined according to the range of services.

**Saving Settings in SAP Ambulatory Care Management**

You can save these settings as a base item as part of *SAP Ambulatory Care Management*. A service entry task thus has a setting above the base item which can always be activated when the task is called. In this way you can create a "Service Entry in Central Outpatient Clinic" task. If you activate this task the system automatically presets the performing organizational unit.

You can find more information in the *Base Items (Enhanced)* release note.
Saving settings in direct call from the Outpatient Clinic/Service Facility view type.

If you call the service entry directly from the Outpatient Clinic/Service Facility view type in the clinical work station, you can also define a presetting.

Define the settings for the medical service entry call in the Implementation Guide under Industry-Specific Component Clinical System -> Service Management -> Services -> Maintain Settings for Service Entry (transaction NICOMP CON) .

Select the value " " (blank character) as the object type and SAP_MEDSRV as the component. You can create your own character string as ID but should note that the key has to be in the customer namespace (<> S*). You can find more detailed documentation about the fields and their effects on the application in the implementation guide under "Maintain Settings for the Service Entry ".

If you now wish to use a configuration in your service entry, proceed as follows:

You create a new pushbutton in a function variant of the Outpatient Clinic/Service Facility view type and give it a corresponding function code. You then implement the BAdI N1_WP_LSTAMB and copy the sample code of this BADI into your implementation (IF_EX_N1_WP_LSTAMB-EXIT_FUNCTION). The example implementation is contained in the 'ZMEDSRVCHANGE' function code. You only have to replace the SAP_MEDSRV_000000000000000000001 configuration used in it with the identification of your configuration and the service entry with your individual configuration is ready for use.

38.5.2 IS-HMED-SM-CU        Care Unit Support

38.5.2.1 Clinical Work Station: Documents View Type (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the layout of the list around the MOVEMENTS and SERVICES fields has been enhanced. A document can now be assigned to several Movements or Services. The system displays several movements in the MOVEMENTS field and several services in the SERVICES field separated by a semicolon. These fields are characterized as hotspots; you thus branch to the display of the document management data to display the assignments.

The selection screen has been enhanced. You can select documents using the name of the user, who inserted the record.

The BADI ISHMED_WP_DOC has been made available as an enhancement:

  The method replaces SMOD enhancement N2WPDOC1.

- Method EXIT_DISPLAY: Change display of data
  The method replaces SMOD Enhancement N2WPDOC2.
- **Method CHANGE_SELECT_CRITERIA**: You can preset data in the selection screen and override the selection screen.

- **Method SELECTION**: Execute selection

**Effects on Customizing**

Transfer the code of SMOD enhancements N2WPDOC1 and N2WPDOC1 into BAdI methods EXIT_FUNCTION and EXIT_DISPLAY.

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**38.5.3 IS-HMED-SM-OC Outpatient Clinic Support**

**38.5.3.1 Outpatient Clinic: i.s.h.med Outpatient Clinic Module (Modified)**

**Use**

As of **SAP ECC Industry Extension Healthcare 6.0**, the i.s.h.med Outpatient Clinical module is now contained in the **SAP Ambulatory Care Management** component.

Read the **SAP Ambulatory Care Management (New)** release note for information about the design and the scope of functions, as well as the other release notes on this subject.

The further development of the i.s.h.med Outpatient Clinic module has been discontinued and licensing on the basis of SAP Patient Management (IS-H) and i.s.h.med is no longer possible.

An outpatient solution is available in **SAP Ambulatory Care Management** which you have to acquire using your own license.

As a user of the previous i.s.h.med Outpatient Clinic module you have the opportunity to upgrade to **SAP Ambulatory Care Management** so that you have access to the enhanced opportunities of the new outpatient clinic.

Even without the upgrade, as part of the maintenance agreements you will continue to receive full support and in particular the delivery of legal modifications with **SAP ECC Industry Extension Healthcare 6.0**.

Ask your sales partner for more information about the upgrade procedure.
38.5.4 IS-HMED-SM-SF  Service Facility Support

38.5.4.1 Material Consumption Documentation (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0 the following modifications in material consumption documentation are available:

Sort in Material Proposal

To override the default sorting by material number (ascending), you can use OU parameter N1MATSORT to sort the Material Number, Description, Quantity and Unit of Measure columns shown in both ascending and descending order.

Sorting occurs within a node shown in the material proposal e.g. in the service-related material proposal or in the range of materials.

New Fields in Material Consumption Documentation

The following new fields are available in the Enter Consumed Material screen enabling more specific documentation of material consumption:

- Serial number (20 digit): You can use this number outside of batch management for specifying vendor numbers etc.

- User-defined field (80 digit): You can use this field to document special features during consumption.

Release of Book Out from Warehouse Stock function

As of SAP ECC Industry Extension Healthcare 6.0 the Book Out from Warehouse Stock function is released. This function serves to book out material consumption from the storage location defined in the organizational unit (OU). You can find more information in the online documentation for material consumption documentation.

Note:

The new functions are only available to you for material consumption documentation with MM-Integration.
38.6 IS-HMED-DO Clinical Documentation

38.6.1 Obsolete ABAP Objects (Deleted)

Use

As announced with Release 4.72, the following ABAP objects have been deleted with SAP ECC Industry Extension Healthcare 6.0.

- Function module ISH_N2_CREATE_DOC_FROM_ARCHIVE
  Use BAPI_MEDDOC_CREATE_LINK instead.

- Function module ISH_N2_MEDICAL_DOCUMENT_RFC
  Use the BAPIs of the Medical Document business object (transaction BAPI, function group 1400) instead.

- Function module ISH_N2_DOCUMENT_BASE_RFC
  Use the BAPIs of the Medical Document business object (transaction BAPI, function group 1400) instead.

- Report RN2GET03
  Use report RN2GET02.

- Authorization object N_2KDOK_OE was replaced by authorization object N_2MEDOK with Release 3.04. Delete all authorizations for N_2KDOK_OE.

38.6.2 End of Maintenance for Obsolete ABAP Objects

Use

The following ABAP objects are obsolete and will no longer be maintained as of SAP ECC Industry Extension Healthcare 6.0. Note, that these objects will not be available with the next release.

- Function module ISH_N2_DOCUMENT_SELECT
  If you have used the module to select documents without a dialog, you (parameter SS_DYNPRO = 'NO'), you should now use function module ISH_N2_MEDDOC_GETLIST.
  If you have used the module to select a document from a list of documents in the dialog (parameter SS_DYNPRO = SPACE / 'YES'), you should now use function module ISH_N2_DOC_F4_DOC.

- Function module ISH_N2_MAP_BAPIRET_2_MESG
  Use the static method CL_ISHMED_DOC_MAP=>BAPIRET_2_MESG instead.
- Function module **ISH_N2_MAP_VCODE_2_METHOD**
  Use the static method CL_ISHMED_DOC_MAP=>VCODE_2_METHOD instead.

- Function module **ISH_N2_MAP_DOCDATA_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATA_2_DVSDATA instead.

- Function method **ISH_N2_MAP_DOCDATAIN_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATAIN_2_DVSDATA instead.

- Function module **ISH_N2_MAP_DOCDATAX_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATAX_2_DVSDATA instead.

- Function module **ISH_N2_MAP_DRAW_ETC_2_DOCDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DRAW_ETC_2_DOCDATA instead.

- Function module **ISH_N2_MAP_DRAW_ETC_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DRAW_ETC_2_DVSDATA instead.

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38.6.3 BAPI_MEDDOC_CREATE_LINK (enhanced)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0* you can create a version of a document.

Import parameter VERSION_CREATE must be set in the interface. In import structure DOCUMENTDATA_IN the complete document key (DOCUMENTTYPE, DOCUMENTNUMBER, DOCUMENTPART, DOCUMENTVERSION), from which a new version is to be created, must be given.

**See also**

You can find more information in the BAPI documentation.
38.6.4 DE, AT: i.s.h.med Gastroenterology Specialist Solution (New)

Use

This release note is relevant for the Germany / Austria country version only. Documentation is not available in English.

38.6.5 DE, AT: i.s.h.med Cardiology Specialist Solution (New)

Use

This release note is relevant for the Germany / Austria country version only. Documentation is not available in English.

38.6.6 i.s.h.med Connectivity: Document Communication (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, a new dispatch function for documents is available.

- Dispatch
  The function supports the following formats:
  - The system transfers WordContainer documents in the storage format
  - The system can transfer PMD documents in the following formats:
    PDF, corresponding to the print screen of the document
    XHTML (special form of HTML)
    Structured XML document
    A new XML dispatch format is used for dispatch. It is similar to the structured display format for PMD documents that has been available since Release 4.72.
    Together with the document content, the system transfers structured information about the patient, the dispatched document, the sender and recipient.
    The system transfers document contents and assignment information as XML documents.
    The transfer uses web services according to the SOAP standard (simple object access protocol).

- Receive
  On the recipient side, the system receives and checks the document contents. If they are complete and correct, the system creates a medical document immediately. The sending system is informed about the result of processing.
  Two new document applications exist for saving received XML and PDF documents. You can use these to receive, view and print documents. You cannot create any documents for the document applications.
  If a document does not contain a patient number, the system puts it in an inbox and you have to manually assign it using the patient name, sex and age.

Note
The new functions for cross-institution communication are only available if you have a license for the i.s.h.med Connectivity component.

38.6.7 IS-HMED-DO-DO Documents

38.6.7.1 Document List (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the document list (transactions N201, N202, N203, N204) will not be developed any further.

You can execute all document processing functions in the clinical work station in the Documents view type.

The document list will still be used to transfer findings from external subsystems so the above-mentioned transactions will continue to be used.

38.6.7.2 No Lock when Displaying a Document (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, a document is only exclusively locked when creating or changing a document (write protection).

Previously, a shared lock was set when displaying or printing. The idea behind this was that user cannot view a document while it is being changed as he/she could possible view obsolete data. This restrictive procedure often led to problems for the customer. For example, a radiologist could not process a findings document in the service facility because someone had opened it in the care unit to view it. It was therefore very time-consuming to finally get the document processed.
38.6.7.3 Document Processing: BAdIs (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the SAP enhancements for document processing are replaced by BAdIs. The old SAP enhancements will be deleted with the next release. The functionality is described in the documentation.

- Create document: BADI_ISHMED_DOC_CREATE
  - Enhancement component: N2DOKB04
    - BAdI method: DOC_SET_ADMIN_DATA
      - DOCPART_SET_ADMIN_DATA
        - DOCVERSION_SET_ADMIN_DATA
  - Enhancement component: N2DOKB01
    - BAdI method: CHECK_ADMIN_DATA

- Process document: BADI_ISHMED_DOC_PROC
  - Enhancement component: N2DOKB03
    - BAdI method: POST_PROCESSING

- Authorization checks: BADI_ISHMED_DOC_AUTHORITY
  - Enhancement component: N2DOKBER
    - BAdI method: CHECK

38.6.7.4 Document Processing: New Authorization (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, additional authorization checks are executed for medical documentation. Authorization object N_2MEDOK has been enhanced with three activities:

- A3: Change / Release Status
The authorization for switching the status was previously controlled using authorization object C_DRAW_TCS and thus using the Document Type criterion. For document types such as 'MED', which has many document categories assigned to it, this kind of department-specific control is not possible, e.g. a user could release the discharge summary of an external department. You can now prevent this with this activity.

You should note that by setting a status after the authorization check with N2_MEDOK, the system will check the authorization for C_DRAW_TCS.

This activity has already been delivered by patch in Release 4.72.

- A9: Send
  The system checks this new activity if a user wishes to transfer a document into another institution or into another system.

- 78: Assign
  If documents are received from another system, the patient number can sometimes be missing. Such documents then have to be assigned using the patient name and further information about a patient. The system checks this new Assign Document activity in this process.

See also

i.s.h.med Connectivity: Document Communication (New) release note.

38.6.7.5 Document Dispatch (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0 you can use organizational unit-related parameter N1GETPRN to control the time when the BAdI N1_DOC_PREPARE_PRINT for determining the printer is to be executed in document dispatch. Printer determination either occurs when you enter the recipient (default value) or when you dispatch the document.

38.6.7.6 Clinical Work Station: Documents View Type (Modified)

Use
As of SAP ECC Industry Extension Healthcare 6.0, the layout of the list around the MOVEMENTS and SERVICES fields has been enhanced. A document can now be assigned to several Movements or Services. The system displays several movements in the MOVEMENTS field and several services in the SERVICES field separated by a semicolon. These fields are characterized as hotspots; you thus branch to the display of the document management data to display the assignments.

The selection screen has been enhanced. You can select documents using the name of the user, who inserted the record.

The BADI ISHMD_WD_DOC has been made available as an enhancement:

  The method replaces SMOD enhancement N2WPDOC1.
- Method EXIT_DISPLAY: Change display of data
  The method replaces SMOD Enhancement N2WPDOC2.
- Method CHANGE_SELECT_CRITERIA: You can preset data in the selection screen and override the selection screen.
- Method SELECTION: Execute selection

Effects on Customizing

Transfer the code of SMOD enhancements N2WPDOC1 and N2WPDOC1 into BAdI methods EXIT_FUNCTION and EXIT_DISPLAY.

38.7 IS-HMED-CO Clinical Order

38.7.1 Clinical Order - Overview of Improvements and Modifications

Use

As of SAP ECC Industry Extension Healthcare 6.0 the following improvements are available in the clinical order:
- Copy clinical order types
- Transport connection for clinical order types
- Multiple cancellation of clinical orders / order items in the clinical work station
- Multiple print of clinical orders / order items in the clinical work station
- Change status of one or multiple order items in the clinical work station (example implementation in Business Add-In)
- Employee (physician) as order filler of clinical orders
- Order worklist for addressed employee (physician) in the clinical work station
- Collective order - entry of similar orders for multiple patients in one step
- Redesign of authorization concept for input screens and user status clinical order items for supporting more complex workflows
- Create admission / visit without an appointment
- Admission application component - new Case Type field
- Further improvements
  - New SET_SERVICE_2_CF method in the service component
  - Application of status-dependent screen modification on header components

You should note that a modified or enhanced system response exists for the user in the following areas:
- Order status and authorization concept
- Application of status-dependent screen modification on header component fields
- Transport connection for order types
- Order filler fields in order item row (icon with Addressed OU/Person quick info)
- Modified XML display of order and updated version of XSLT for creating HTML quick view

You can find more detailed information about these areas in the individual release notes for the clinical order.

38.7.2 Physician as Order Filler / Worklist for Addressed Physician (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the clinical order enables you to directly address an order item to a physician. In addition, you can configure a worklist for directly addressed physicians by using a selection criterion or filtering in views of the clinical work station.

You can thus address order items to all people who are registered as both employees and as business partners. Order filler fields are available in the order item line for this (icon with Addressed OU/Person quick info).

You can restrict this function to certain order types as well as to certain combinations of employees and organizational units.

Effects on Customizing

You have to define for each order type and addressed organizational unit whether a person is to be addressed directly. You do this on the Order Fillers tab page in Set Up Order Types for Clinical Order. You also define here whether the system is to take into account the employee-position assignment for the
design of input helps and for checking the order.

You can specify the addressed employee in the selection criteria in views of the Outpatient Clinic/Service Facility and Clinical Orders view type in the clinical work station. You can find the addressed employee in the field selection of the aforementioned view types.

38.7.3 Collective Order (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, a function for entering collective orders is available for the clinical order. You can use this to enter clinical orders for several patients in one step.

The collective order dialog largely resembles the usual dialog for the clinical order and has two modes:
- Collective mode: You enter data for all selected patients together in this mode.
- Specific mode: You only enter data for one selected patient in this mode.

You can create a collective order in many ways:
- By selecting several patients in the clinical work station and selecting the function for creating a clinical order
- From an existing order by adding further patients
- By starting the clinical order dialog and branching to collective mode

38.7.4 New Status and Authorization Concept in the Clinical Order (New)

Use

For SAP ECC Industry Extension Healthcare 6.0, the following redesign was performed for the status and authorization concept in particular regarding to the support of a sustainable work flow:
- Taking authorization object B_USERSTAT into account
- Taking the defined sequence of the individual status (user status) into account
- Checking of field properties (required entry field check) during a status change
- Saving of the clinical order during a status change and then reconstruction of the clinical order dialog according to the authorizations in the subsequent status
38.7.5 Clinical Order - Other (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the following modifications and enhancements are available in the clinical order.

XML Display of the Clinical Order/XSLT Transformation:
The XML display of the clinical order has been modified. The example style sheet for displaying the clinical order in HTML has therefore also been adapted. The current version of the style sheet is ISH_CORDER_STANDARD_REL600.

Case Type in Application Component for Admission Data:
A Case Type field has been added to the Admission Data application component. During an admission, the system uses the case type specified here for presetting in the Clinical Process Builder (transaction NV2000).

Order Type-Related Configurability of Clinical Application Components
You can configure standard and customer-specific application components for order types, as long as they have been intended for this. Once transferred to the type structure, configurable application components are indicated by a tool symbol on the Structuring tab page in the dialog for creating order types.

By clicking on the tool symbol you will access the component-specific configuration dialog.

The standard system currently does not offer any new configurable components of this kind. You can however implement this functionality for customer-specific application components.

New Times in "Component Methods"
New (technical) times are available for triggering the special methods of the clinical application components. These are represented by the constants CO_EVENT_STATUS_CHANGED, CO_EVENT_BEFORE_SAVE, CO_EVENT_BEFORE_COMMIT, CO_EVENT_AFTER_COMMIT of the IF_ISH_COMPONENT interface.

You therefore have to adjust customer-specific application components accordingly. Examples of how to implement are provided with the implementations of the corresponding methods of clinical application components in the standard system.

Status-Dependent Screen Modification for Header Component Fields
You can now also define the field properties of fields in header components as status-dependent in the order type definition.

A hierarchization is assigned to the field properties for header component fields internally; the following applies: MUSS before ANZEIGE before INAKTIV before KANN

Taking Deadline for Requests and Opening Times into Account in the Clinical Order
The system takes into account the following parameters which are optionally defined for planning objects in the clinical order:

- Opening times
- Break times
Deadline for services
You can find more details about the checks in the online documentation for the clinical order in SAP ECC Industry Extension Healthcare 6.0.

Taking the Performer's Service Quota into Account for the Initiator in the Clinical Order
The system takes into account the performer's defined service quotas in the clinical order.

38.7.6 Multiple Assignment of Building Units to Organizational Units (New)

Use
As of SAP ECC Industry Extension Healthcare 6.0 you can perform a multiple assignment of building units to organizational units.

The following information describes the effects on the individual areas and/or components of i.s.h.med.

Effects on i.s.h.med Basis / Appointment Management

- Time slot and planning authority
  A planning object of the Building Unit type can make different time slots available for different organizational units. You can thus allocate and change opening times, scheduling types and planning authorities for different performing organizational units.

- Planning grid
  The planning grid has been adjusted for planning and displaying appointments belonging to planning objects of the Building Unit type which are assigned to multiple organizational units. Essentially this uses the same concept that is used for people who are defined as planning objects in the system and are assigned to multiple organizational units ("shadow appointments").

- Appointment editor (SAP ECC Industry Extension Healthcare)
  If you enter a room, which has not been defined as a planning object in the system, for an appointment, the standard system response is to determine the planning object of the uniquely assignable organizational unit. This logic ceases to be unique when a room is assigned to multiple organizational units. In this case, the system provides an input help for the selection of the organizational unit.

- Open time slot search (SAP ECC Industry Extension Healthcare)
  The i.s.h.med open time slot search behaves in the same way as SAP Patient Management visit scheduling (IS-H). When selecting a room, the system provides an input help with all assignments of this room to organizational units.

Effects on i.s.h.med Basis /Clinical Order

- Appointment template (general)
  The input help of the Room field contains all primary and secondary room assignments for the OU of the appointment.

- Appointment template and range of services
  The system presets the OU of Appointment field with the organizational unit which the building unit is primarily assigned to according to the range of services.
- Clinical order and transport order
  In the Transport Order application component of the clinical order you can initiate the transport of a patient from one place, consisting of an organizational unit and a room, to another. If you enter a source OU (Pick Up From) and / or a destination OU (Bring To), the system determines the primary and secondary room assignments of this OU / these OUs for the room entry input helps.

- User exits and Business Add-Ins (BAdIs) in the clinical order
  Check all implemented BAdIs and user exits that you use in connection with the clinical order for their compatibility with the multiple assignment of building units to organizational units.

Effects on i.s.h.med Surgeries
The system does not support the multiple assignment of building units to organizational units for SAP ECC Industry Extension Healthcare 6.0 in the Surgeries component. The system thus prevents the multiple assignment on the master data level. An organizational unit of the Surgery type only permits primarily assigned building units.

Effects on i.s.h.med Patient Transport Service
When creating a transport order, the system determines the primary and secondary room assignments for the source OU (Pick Up From) and / or for the destination OU (Bring To) for the room entry input helps.

Effects on Customizing
You can enter the manage the multiple assignment of building units to organization units in transaction NB35.

See also
You can find more information in the release note for the Multiple Assignment of Building Units in Visit Scheduling (New) of SAP Patient Management.

38.7.7 Comprehensive Planning - Multiappointment (New)

Use
As of SAP ECC Industry Extension Healthcare 6.0 a new function is available for the comprehensive planning (multiappointment) of appointments in the clinical system's (i.s.h.med) appointment management.

The Comprehensive Planning (Multiappointment) function enables the user, when entering a clinical order, to allocate appointments for all surgery/treatment items in one planning operation. Comprehensive Planning supports the entry of clinical orders and the planning of order items from a central point. It is intended to provide support when creating and changing a clinical order.

You define the time sequence of the individual items and this forms the basis for Comprehensive Planning. You can define the settings (succeeding order type, minimum and maximum time interval) required for this in Customizing on the order type level.

When creating a clinical order, the system enters the order item's successor and any time dependencies in the appointment template. You can override the appointment template with manual entries at any time.

You can also define or change the sequence of order items directly in the clinical order without making
settings in Customizing.

The system saves appointments from *Comprehensive Planning* as an appointment series. Postprocessing functions are therefore available for an appointment series, albeit with certain restrictions. For example, the number of appointments for the series is predetermined by the number of order items you have planned. You cannot add or remove any appointments from the series.

The system does not take into account admission items for *Comprehensive Planning*.

**Effects on Customizing**

You define the dependencies of the order types in the Set Up Order Types for Clinical Orders IMG activity.

The system supports the dependencies between elemental order types and also between profile types and hybrids. You should note that only the definition of dependencies between nested profile types is not possible.

You can use organizational unit-related parameter (OU parameter) N1MAPPSDIA to control, for the clinical order's planning OU, whether the system displays the dialog for refining the search criteria for a comprehensive search.

You can use organization unit-related parameter (OU parameter) N1MAPPADEP to control, for the clinical order's planning OU, whether the system also saves the time dependencies, which were used as search criteria for *Comprehensive Planning*, in appointments.

The new input fields of the appointment template for defining dependencies are included in the interface of the BAdI for Controlling Appointment Templates. As long as you do not wish to override them for customer-specific purposes, you do not need to make any changes to the existing implementations.

**See also**

You can find more information about appointment series in the Appointment Series (New) release note.

**38.7.8 Replacement of Service Scheduling (Enhanced)**

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, service scheduling has been completely replaced by the planning grid and/or the Appointment Entry function. You can use the planning grid as a scheduling tool or alternatively the Appointment Entry function which the appointment editor calls as a scheduling tool.

Service scheduling was replaced by the planning grid for Release 4.72; as of Release 4.72 AOP 07 the Appointment Entry function has been available as a scheduling tool.

As of *SAP ECC Industry Extension Healthcare 6.0*, the replacement of service scheduling has been completed by the following additional functions:
- The hotspot on the *Time* column in the *Outpatient Clinic/Service Facility* view type in the clinical work station calls the planning grid or appointment entry depending on organizational unit-related parameter (OU parameter) N1DISP.

- The system assesses the *Appointment Entry* as a planning step and therefore checks the planning authority.

- You can call the *Appointment Entry* function with several selected services which can be for all orders, items or patients. In this case the system calls the appointment editor in a loop.

- The system takes into account all authorizations relating to appointment planning within the scope of the *Appointment Entry* function.

- Cyclical services function irrespective of the planning tool that you use (planning grid or appointment entry):
  - If you select an individual cyclical service, you can always plan an appointment for this separately.
  - If you select a master cyclical service, the behavior of the system depends on whether there are still unplanned individual cyclical services: If unplanned individual cyclical services exist, the system creates an appointment for all unplanned individual services. No cycle report appears. If no unplanned individual cyclical services exist, the system displays the cycle report. You can add new individual services and then allocate an appointment which is then valid for all individual services.

**Effects on Data Transfer**

During installation of *SAP ECC Industry Extension Healthcare 6.0* the system runs an XPRA which replaces all entries in OU parameter N1DISP of the value *Scheduling with Report* with *Appointment Entry*.

**Effects on Customizing**

OU parameter N1DISP defines the planning tool within the request confirmation and for the hotspot of the *Time* column in the *Outpatient Clinic/Service Facility* view type. The value *Scheduling with Report* is no longer available for *SAP ECC Industry Extension Healthcare 6.0*. The value *Short Scheduling* has been replaced by *Appointment Entry*.

You can use the BAdI for Controlling Planning Tool to adapt the behavior of this parameter for customer-specific purposes. This Business Add-In (BAdI) replaces the user exit SAPLN1LD_002. Check possible implementations of this exit and adapt it if necessary. The user exit SAPLN1LD_001 expires with *SAP ECC Industry Extension Healthcare 6.0*. 
38.7.9 IS-HMED-CO-BD Basic Data

38.7.9.1 Copy Clinical Order (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 you can create clinical order types by copying an existing order type. You can therefore configure and manage complex order types more easily.

Furthermore, you can use this function to perform manipulations on order types with existing movement data that was not possible before. To do that you copy an order type, remove a component, for example, and set the old order to inactive.

Effects on Customizing

In the overview screen for Set Up Order Types for Clinical Orders there is a pushbutton available with Copy Order Type quick info.

38.7.9.2 Transport of Clinical Order Types (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, clinical order types are connected to the transport system.

The transport of order types can occur in two different ways:
- The explicit transport of an order type from the overview screen to set up a clinical order type
- The automatic transport in the dialog for customizing order types (with the relevant system setting)

Note:

You have to synchronize the datasets of the source and the target system before the initial transport of clinical order types using the transport function. Synchronization report RN1_SYNC_CORDERTYPES is available for this purpose. You should also consult the documentation for this report.

38.7.10 IS-HMED-CO-MG Order Management

38.7.10.1 Multiple Cancellation / Print of Clinical Orders on the Clinical Work Station (New)

Use
As of *SAP ECC Industry Extension Healthcare 6.0* new functions for printing and canceling multiple selected clinical orders or order items are available in views of the following view types in the clinical work station:

- *Outpatient Clinic/Service Facility*
- *Clinical Orders*

### 38.7.10.2 Change Status of Order Items in the Clinical Work Station (New)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, the clinical order provides the opportunity to change the status of one or several clinical order items without calling the order dialog.

The *Set Subsequent Status* function is available for this. You also have the option to define function codes for making changes to a certain target status in views of the following view type in the clinical work station:

- *Outpatient Clinic/Service Facility*
- *Clinical Orders*

If you define the function codes for changes to a certain target status, you have to implement and activate them for customer-specific purposes. Business Add-In (BAdI) N1_WP_LSTAMB contains a sample implementation for this.

You can use the sample functionality displayed in the BAdI for changing the status of an order item (based on the use of the CHANGE_STATE method of the i.s.h.med CL_ISH_UTL_CORD utility class) in every user exit (except the ones of the clinical order itself as the system can access the item status in a different way there).

### 38.8 IS-HMED-MRO Medical Patient Data Organization

### 38.8.1 Patient Organizer: Aspect Maintenance Function (New)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, a new maintenance function is available for aspects of the patient organizer.

Previously, you could only create and manage aspects of the patient organizer in i.s.h.med for customer-specific purposes in Maintain Table Views (transaction SM30). Thanks to the integration of this maintenance function (transaction N2ASPECT_DEF) into the patient organizer and system
administration for tasks and situations (SAP Ambulatory Care Management component), you can now easily define your own aspects and make them available to your users.

You can find the maintenance functions at the following places in the system:

- Patient organizer:
  Settings Menu -> Manage Aspects
  Create/Change Aspects (transaction N2ASPECT_DEF)

- Template management for the SAP Ambulatory Care Management component.

You cannot change delivered aspects using the maintenance function. Instead, use the delivered aspects as copy templates for your own aspects.

You can transport these settings from a source system to a target system using the transport functions.

We recommend that you use the new maintenance function and not the Maintain Table Views function of transaction SM30.

**Manage Aspects**

This function assigns one or several aspects to a user. The function corresponds in its usage to the Manage Work Environment function from the clinical work station.

You define the sequence of the aspects by the priority of the assignment. You can delete an existing assignment at any time.

**Create/Change Aspects**

This function corresponds to transaction N2ASPECT_DEF.

The function is divided into the following areas:

- Aspect definition
  When you create a new aspect you define the name and the properties of the aspect. The design decides whether it is an aspect in a tree, list or time grid display. You can find more information in the Patient Organizer: List/Detail Display, Problem Aspect (New) release note.
  The aspect's mode defines the use as a standard aspect, as an outpatient clinic folder or as a patient daily schedule. You can also define whether the aspect is the primary display in the patient organizer, in the patient viewer or in both. You can find more information about the patient viewer in the Patient Viewer (New) release note for SAP Ambulatory Care Management.

  Regarding the contents, you define the aspects by the assignment of their views. The system only displays for each aspect the objects which are also contained in a view which has been assigned to the aspect.

- View definition
  You select from all object types which can be included in the patient organizer. Each object type contains an amount of views which have already been defined for this object type. You can create new views here.

  You should note that you can use the same view in different aspects. This offers you the comfort of only having to define the properties of elemental views once. However, a change to the view can have far-reaching consequences.

  The following properties are relevant for a view in the patient organizer:

  - Name of the view
    The name of the view is visible in the patient organizer as the name of the folder. You can issue variables for time node and case node names.
If this indicator is active, the system displays the folder as open when you call this aspect. Just as in views of the clinical work station, you can equip a view of the aspect with a selection variant. If you have not defined a selection variant for a view, the system displays all information objects which correspond to the structure.

Test Aspect

You can test the patient organizer with a certain aspect with this function. As a result you will see the current definition related to the medical history of a previously selected patient.

Effects on Existing Data

Using the maintenance function you can continue to use and manage all existing aspects which you have defined using transaction SM30. After importing *SAP ECC Industry Extension Healthcare 6.0*, you have to execute report RN1UTP_CHANGE_NWPLACE_P01 to update the existing aspects.

Effects on Customizing

In addition to field NWPLACE_P01-PODESIGN, there is the new field NWPLACE_P01-POMODE, which you can use to control the mode of the patient organizer (standard aspect, outpatient clinic folder or patient daily schedule).

38.8.2 Patient Organizer: Integration of Treatment Pathways (New)

Use

As of *SAP ECC Industry Extension Healthcare 6.0* the patient organizer displays patient pathways for the first time. The system displays all pathways belonging to the patient under one structure node in the corresponding aspects. A detail view is not possible in the patient organizer, however you can open the editing dialog for patient pathways and edit the selected pathway if necessary.

In addition, you can perform a classification of the treatment pathways. For example, you can classify the treatment pathways as follows:

- Treatment pathways for routine processes (e.g. gallstone examination and similar recurrent treatment processes)
- Treatment pathways for preventative programs (e.g. longer term vaccination programs such as tick vaccination etc)

You can find more information about treatment pathways for preventative programs in the *Treatment Pathways (Enhanced)* release note.

Selection report RN1PATORG_PATHWAY is available so that you can differentiate between treatment pathways for routine processes and those for preventative programs. You can use this report to select and display the data in such a way that the system displays treatment pathways for routine procedures under one structure node and treatment pathways for preventative programs under another structure node.
You should note that the treatment categories must correspond to a nomenclature that you have defined. For example, the treatment pathways for routine processes could start with the prefix "AA_". Treatment pathways for preventative programs could start with the prefix "Vacc_".

**Effects on Customizing**

The maintenance functions for aspects are available in the patient organizer using **Settings -> Manage Aspects -> Create/Change Aspects** (transaction N2ASPECT_DEF).

You can find more information about configuring aspect in the **Patient Organizer: Aspect Maintenance Function (New)** release note.

### 38.8.3 Patient Organizer: List/Detailed Display, Problem Aspect (New)

**Use**

As of **SAP ECC Industry Extension Healthcare 6.0** the following new options are now available in the patient organizer:

**List Display**

Previously, the system displayed the medical history in a tree structure. Starting from the patient, you could navigate to each object of the medical history in this structure.

As of **SAP ECC Industry Extension Healthcare 6.0**, a list display is now available. You can set for each aspect whether it is to be displayed in a tree or a list.

The list display has the following advantages:

- The layout of an aspect in a list offers more possibilities than the layout in a hierarchical display (filter criteria, sorting, etc).
- Lists require less space which then provides you with a more compact display of the medical record.
- You can get more selection options by using filter criteria that you define for each layout.

You should note that when defining list aspects that it does not make sense to include time, case or problem nodes. These nodes are hierarchy nodes and are not taken into account in a list display.

List aspects are primarily suitable for displaying compact aspects with only a few object types. You should continue to display large aspects with a lot of information in a hierarchical display.

**New Detailed Displays in the Patient Organizer**

As of **SAP ECC Industry Extension Healthcare 6.0**, new detailed displays exist for the following objects:

- Medical Services: **HTML display of medical services (SER_HTML)**
  Display of details for a medical service in HTML form. The system displays the reference to documents, the team documentation, the status log of the service and the administrative services assigned to a medical service which are created on service release.
  You should consult the **Medical Service Entry (New)** release note for more information about
this.

- Clinical order: Display of the clinical order in print view (CORDER_PRN)
  This display class has been modified so that the clinical order is displayed within the framework of the detailed display (inplace).

- HTML display of documents (DOC_PDF)
  This display class displays the document in a format that has been defined (PDF or XML) in the Display application in the document definition data (transaction N27).

Problem aspect
An aspect is available for SAP ECC Industry Extension Healthcare 6.0 which you can use to view the data for active and inactive medical problems of a patient. Medical problems contain the reason for the patient's visit to the outpatient clinic or hospital and serve to structure the medical record. A problem can be, for example, a risk factor or a syndrome.

In addition to displaying problems, you can also create new problems, assign objects to problems, move objects between problems as well as set problems to inactive. Use this aspect for central problem management.

You can find more information about the problem documentation in the Problem Documentation (New) release note in SAP Ambulatory Care Management.

38.9 IS-HMED-SC Planning

38.9.1 Planning Grid: Use Appointment as Template (Enhanced)

Use
As of SAP ECC Industry Extension Healthcare 6.0, the Use Appointment as Template function is available in an enhanced form.

You can use the Use Appointment as Template function to plan an appointment with the patient data of an existing appointment. As of SAP ECC Industry Extension Healthcare 6.0, the function features some new characteristics and capabilities:

- In addition to patient data, the system also copies appointment data (duration) and visit data (treatment category, comment, medical text, transport type, priority, visit type, reason for visit, referring physician).
- The system only copies the treating person and/or room if these attributes are not saved as planning objects in the template appointment.

- The transfer of the case depends on whether planning occurs with or without dialog or whether the BAdI for Changing an Appointment Template has been implemented.

- The system does not generally transfer the date, time, planning object and the scheduling type from the template appointment, instead they are taken from the point in the planning grid's time grid that you are planning the new appointment for.

- The system presets the status, notification of admission data and who last planned it (Last Planned By) in the same way as the Plan Appointment function.

- After copying (Use Appointment as Template), the appointment remains saved in temporary storage within a planning grid session. You can insert this appointment for as long and for as many times as you wish until you end your planning grid session or you use another appointment as a template. You cannot copy an appointment across several planning grid session or SAP GUI modes.

- The function is available in connection with the appointment search in the planning grid. You can also insert a template appointment in an appointment proposal. The attributes that you have entered as search criteria override the properties of the template appointment.

**Note:**

- If you call the planning grid using the Follow-Up Visit Appointment function, the system does not run the Business Add-In (BAdI) N1_APPOINTMENT for calculating the case when copying an appointment.

- The Use Appointment as Template function does not copy any dependent objects of an appointment (services, transport orders, etc).

- The Copy Appointment as Template function is not available if you call the planning grid as a subdialog and the calling program is responsible for the processing or saving of these appointments, for example during planning in the clinical order.

**Effects on Customizing**

You can define with organizational unit-related parameter (OU parameter) N1PGTMPL whether the insertion of a template appointment occurs with or without a processing dialog.

To adapt the data of a template appointment to customer-specific needs, a new BAdI for Changing an Appointment Template is available.

### 38.9.2 Planning Grid: Collective Processing (New)

**Use**

As of SAP ECC Industry Extension Healthcare 6.0 you can now select several appointments in the time grid and either move or cancel them as well as being able to change the team. Collective processing also supports the Display Appointment and Change Appointment functions. The system displays the selected appointments in a loop for this.
The option to make multiple selections for canceling has been available in the planning grid's appointment overview for a patient since the early releases. As part of collective processing you can now call the Move, Change/Display Team, or Change Appointments functions from the appointment overview of the patient.

Effects on Customizing

The *Move Block of Appointments* function, in the same way as the *Plan Appointment* function, checks organizational unit-related parameter N1PTBKED (OU parameter) for the relevant planning organizational unit (OU):

- If this OU parameter is set, the system will display a dialog to move a block of appointments when moving appointments.
- If this OU parameter is not set, the system will move the selected appointments without calling a dialog.

You can use the BAdI for Presetting Move Dialog During Collective Processing to implement customer-specific presettings for the *Move Block of Appointments* dialog.

38.9.3 Planning Grid: Overlapping Appointments, Zoom Function (Modified)

Use

As of *SAP ECC Industry Extension Healthcare 6.0*, the planning grid's time grid displays all planned appointments for a certain time.

Previously, the planning grid's time grid could only display up to three appointments which overlapped at any one time. If there were more, the system showed a button which indicated that more than three appointments were planned for a certain time. By clicking on the button (a triangle) the system would display the hidden appointments in a list in a dialog box.

As of *SAP ECC Industry Extension Healthcare 6.0*, the system displays all planned appointments for a certain time in the planning grid's time grid. The aforementioned button has been replaced by a zoom function.

If you double-click on a column heading in the time grid, the system will only display this column in the full width of the time grid. You can therefore simultaneously display several appointments which can take place at the same time.

You can toggle to the original display of the time grid by using a different button.
38.9.4 Multiple Assignment of Building Units to Organizational Units (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 you can perform a multiple assignment of building units to organizational units.

The following information describes the effects on the individual areas and/or components of i.s.h.med.

Effects on i.s.h.med Basis / Appointment Management

- Time slot and planning authority
  A planning object of the Building Unit type can make different time slots available for different organizational units. You can thus allocate and change opening times, scheduling types and planning authorities for different performing organizational units.

- Planning grid
  The planning grid has been adjusted for planning and displaying appointments belonging to planning objects of the Building Unit type which are assigned to multiple organizational units. Essentially this uses the same concept that is used for people who are defined as planning objects in the system and are assigned to multiple organizational units ("shadow appointments").

- Appointment editor (SAP ECC Industry Extension Healthcare)
  If you enter a room, which has not been defined as a planning object in the system, for an appointment, the standard system response is to determine the planning object of the uniquely assignable organizational unit. This logic ceases to be unique when a room is assigned to multiple organizational units. In this case, the system provides an input help for the selection of the organizational unit.

- Open time slot search (SAP ECC Industry Extension Healthcare)
  The i.s.h.med open time slot search behaves in the same way as SAP Patient Management visit scheduling (IS-H). When selecting a room, the system provides an input help with all assignments of this room to organizational units.

Effects on i.s.h.med Basis / Clinical Order

- Appointment template (general)
  The input help of the Room field contains all primary and secondary room assignments for the OU of the appointment.

- Appointment template and range of services
  The system presets the OU of Appointment field with the organizational unit which the building unit is primarily assigned to according to the range of services.

- Clinical order and transport order
  In the Transport Order application component of the clinical order you can initiate the transport of a patient from one place, consisting of an organizational unit and a room, to another. If you enter a source OU (Pick Up From) and / or a destination OU (Bring To), the system determines the primary and secondary room assignments of this OU / these OUs for the room entry input helps.

- User exits and Business Add-Ins (BAdIs) in the clinical order
  Check all implemented BAdIs and user exits that you use in connection with the clinical order for their compatibility with the multiple assignment of building units to organizational units.

Effects on i.s.h.med Surgeries
The system does **not** support the multiple assignment of building units to organizational units for **SAP ECC Industry Extension Healthcare 6.0** in the Surgeries component. The system thus prevents the multiple assignment on the master data level. An organizational unit of the Surgery type only permits primarily assigned building units.

**Effects on i.s.h.med Patient Transport Service**

When creating a transport order, the system determines the primary and secondary room assignments for the source OU (**Pick Up From**) and / or for the destination OU (**Bring To**) for the room entry input helps.

**Effects on Customizing**

You can enter the manage the multiple assignment of building units to organization units in transaction NB35.

**See also**

You can find more information in the release note for the Multiple Assignment of Building Units in Visit Scheduling (New) of SAP Patient Management.

### 38.9.5 Appointment Planning View Type (Enhanced)

**Use**

As of **SAP ECC Industry Extension Healthcare 6.0**, the **Appointment Planning** view type is available in the clinical work station in the clinical system (i.s.h.med). This view type replaces the **Surgery Appointment Planning** view type which was created exclusively for operating organizational units (OU) in Release 4.72.

The **Appointment Planning** view type is also available to organizational units which are not operating OUs.

You can use this view type to plan appointments using the planning grid irrespective of context, i.e. without a patient or service reference. You call the planning grid from a LaunchPad on the clinical work station.

Users in outpatient clinics and service facilities can use the planning grid as a central planning instrument. There is therefore no more need to continually toggle between the clinical work station and the planning grid.

The **Appointment Planning** view type is also equipped with the workpool refresh function. This means that the **Refresh** function not only updates the time grid's display but also the patient's appointment overview and the planning grid's worklist. You can perform the update manually or automatically using a time interval which you define. In both cases the system displays the current status of the appointment and service requests (with or without order item) without you having to leave the planning grid session.
38.9.6 Appointment Series (New)

Use

As of *SAP ECC Industry Extension Healthcare 6.0* you can display an appointment series in the clinical system's (i.s.h.med) appointment management.

An appointment series in the clinical system sense is a sequence of several appointments for one patient which belong together, e.g. physiotherapies with several treatment units, appointment sequences for pre-examinations and post-examinations relating to surgery etc.

The primary goal of an appointment series in i.s.h.med is to provide outpatient clinics with operational optimization for similar or associated appointments.

You can plan an appointment series which takes into account time-based dependencies (minimum and maximum interval between two appointments). In addition there are new functions available for you to use when processing an appointment series.

Create Appointment Series

The *Repeat Treatment Unit* and *Desired Treatment Unit* options of the appointment search are also available in i.s.h.med and serve to plan an appointment series.

Display / Change Appointment Series

The system presents the appointments of an appointment series in a dialog which resembles the time slot list. You can perform the following changes in processing mode:

- Changes to an appointment series:
  - Add new appointments to a series
  - Remove appointments from a series
  - Change time dependencies between successive appointments
  - Cancel all appointments of a series

- Check appointment series

- Changes to appointments
  - Move appointment
  - Display / change appointment
  - Cancel appointment

Indicate Appointment Series

The system indicates appointments which are part of an appointment series with a special icon in the different tools (ALV grids, tree display). There is not a separate indicator in the planning grid’s time grid.

Note:

- You can only create an appointment series for *Appointments Without Services*. 
- If you wish to create an appointment series whose appointments are linked to services of a clinical order, you can use the new Comprehensive Planning (Multiappointment) function. The system does not support an appointment series with other dependent objects e.g. transport orders.

Effects on Existing Data

The system saves an appointment series and the dependencies between appointments as a multiappointment in the SAP Patient Management sense (IS-H). That has the following effects on system response:

- The postprocessing functions are available if you create an appointment series with IS-H Visit Scheduling, for example.
- The order of the appointment series is defined by the time sequence of the treatment units. The system only supports time dependencies between one appointment and the following appointment.

Effects on Customizing

You have to define in message control whether the violation of time dependencies between two appointments leads to a warning or an error message.

See also

You can find more information in the Comprehensive Planning - Multiappointment (New) release note.

38.9.7 Comprehensive Planning - Multiappointment (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 a new function is available for the comprehensive planning (multiappointment) of appointments in the clinical system's (i.s.h.med) appointment management.

The Comprehensive Planning (Multiappointment) function enables the user, when entering a clinical order, to allocate appointments for all surgery/treatment items in one planning operation. Comprehensive Planning supports the entry of clinical orders and the planning of order items from a central point. It is intended to provide support when creating and changing a clinical order.

You define the time sequence of the individual items and this forms the basis for Comprehensive Planning. You can define the settings (succeeding order type, minimum and maximum time interval) required for this in Customizing on the order type level.

When creating a clinical order, the system enters the order item's successor and any time dependencies in the appointment template. You can override the appointment template with manual entries at any time.

You can also define or change the sequence of order items directly in the clinical order without making settings in Customizing.

The system saves appointments from Comprehensive Planning as an appointment series.
Postprocessing functions are therefore available for an appointment series, albeit with certain restrictions. For example, the number of appointments for the series is predetermined by the number of order items you have planned. You cannot add or remove any appointments from the series.

The system does not take into account admission items for Comprehensive Planning.

Effects on Customizing

You define the dependencies of the order types in the Set Up Order Types for Clinical Orders IMG activity.

The system supports the dependencies between elemental order types and also between profile types and hybrids. You should note that only the definition of dependencies between nested profile types is not possible.

You can use organizational unit-related parameter (OU parameter) N1MAPPSDIA to control, for the clinical order's planning OU, whether the system displays the dialog for refining the search criteria for a comprehensive search.

You can use organization unit-related parameter (OU parameter) N1MAPPADEP to control, for the clinical order's planning OU, whether the system also saves the time dependencies, which were used as search criteria for Comprehensive Planning, in appointments.

The new input fields of the appointment template for defining dependencies are included in the interface of the BAdI for Controlling Appointment Templates. As long as you do not wish to override them for customer-specific purposes, you do not need to make any changes to the existing implementations.

See also

You can find more information about appointment series in the Appointment Series (New) release note.

38.9.8 Replacement of Service Scheduling (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, service scheduling has been completely replaced by the planning grid and/or the Appointment Entry function. You can use the planning grid as a scheduling tool or alternatively the Appointment Entry function which the appointment editor calls as a scheduling tool.

Service scheduling was replaced by the planning grid for Release 4.72; as of Release 4.72 AOP 07 the Appointment Entry function has been available as a scheduling tool.

As of SAP ECC Industry Extension Healthcare 6.0, the replacement of service scheduling has been completed by the following additional functions:

- The hotspot on the Time column in the Outpatient Clinic/Service Facility view type in the clinical work station calls the planning grid or appointment entry depending on organizational unit-related parameter (OU parameter) N1DISP.
The system assesses the **Appointment Entry** as a planning step and therefore checks the planning authority.

You can call the **Appointment Entry** function with several selected services which can be for all orders, items or patients. In this case the system calls the appointment editor in a loop.

The system takes into account all authorizations relating to appointment planning within the scope of the **Appointment Entry** function.

Cyclical services function irrespective of the planning tool that you use (planning grid or appointment entry):
- If you select an individual cyclical service, you can always plan an appointment for this separately.
- If you select a master cyclical service, the behavior of the system depends on whether there are still unplanned individual cyclical services:
  - If unplanned individual cyclical services exist, the system creates an appointment for all unplanned individual services. No cycle report appears.
  - If no unplanned individual cyclical services exist, the system displays the cycle report. You can add new individual services and then allocate an appointment which is then valid for all individual services.

### Effects on Data Transfer

During installation of **SAP ECC Industry Extension Healthcare 6.0** the system runs an XPRA which replaces all entries in OU parameter N1DISP of the value **Scheduling with Report** with **Appointment Entry**.

### Effects on Customizing

OU parameter N1DISP defines the planning tool within the request confirmation and for the hotspot of the *Time* column in the *Outpatient Clinic/Service Facility* view type. The value **Scheduling with Report** is no longer available for **SAP ECC Industry Extension Healthcare 6.0**. The value **Short Scheduling** has been replaced by **Appointment Entry**.

You can use the **BAdI for Controlling Planning Tool** to adapt the behavior of this parameter for customer-specific purposes. This Business Add-In (BAdI) replaces the user exit SAPLN1LD_002. Check possible implementations of this exit and adapt it if necessary. The user exit SAPLN1LD_001 expires with **SAP ECC Industry Extension Healthcare 6.0**.

### 38.9.9 Appointment Plans - Plan Release (New)

**Use**

As of **SAP ECC Industry Extension Healthcare 6.0**, the **Release Plan** function is provided. You can call this function for releasing plans in the *Surgeries* (Srg) view type in the clinical work station and in
the planning grid.
In a multi-step planning process, you can release an appointment plan and subsequently make changes to this plan only if you have special authorization and specify change reasons. The system logs team- and appointment-related changes to an appointment plan, thus enabling each change to be tracked.

A released appointment plan always relates to a planning object and a time frame. The system highlights released plans in color.

The following appointments are excluded from the plan release:
- Admission appointments
- Emergency surgeries
- Canceled appointments
- Day-specific appointments
- Appointments for which planning is complete

Note:
The Release function provided up to now in the OR planning list (transaction code N1PN) is retained there.

Change Documents
The system writes change documents for defined properties of appointments and team members. You can call these functions from the Surgeries view type, from the planning grid, from the team entry dialog and from the release dialog.

Authorizations
The system checks the new authorization object N_APPLAN in functions in which the user makes planning-relevant changes.

The system checks the new authorization object N_1TEAM in functions in which the user makes changes to teams that are assigned to a service with an appointment in a released appointment plan.

Effects on Existing Data
The system only displays existing releases in the OR planning list (transaction code N1PN). Releases are still checked using the authorization object N_OPPLAN only in the OR planning list and in the OR schedule (transaction code N1PG).

Effects on Data Transfer
When you install SAP ECC Industry Extension Healthcare 6.0 the system runs an XPRA that sets an initial value for the new "reason for change" attribute in the tables for appointments and teams.

Effects on Customizing
You can or must make the following settings in Customizing:
- Maintenance view N1CSCHG: Customizing of a list of reasons for change
- Maintenance view N1RLST: Customizing of the release levels
- The organizational unit-related parameter (OU parameter) N1CSCHG enables you to control whether the user must specify a reason for change when he or she changes a released plan.

- The OU parameter N1CSCHGTXT enables you to control whether the user can enter the reason for change in free-text form or whether he or she must select it from the value help.

- The OU parameter N1CSCHGDEF specifies the reason for change that is logged by default when a change is made without a dialog.

- OU parameter N1RLSPDIA specifies whether the plan release is to be executed with or without a dialog.

In addition, the new Business Add-In (BAdI) N1APPLAN_CHECK enables you to run customer-specific checks when the release is called.

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38.10 IS-HMED-OR  Surgery System

38.10.1 IS-HMED-OR-PL  Surgery Planning

38.10.1.1 Appointment Plans - Plan Release (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the Release Plan function is provided. You can call this function for releasing plans in the Surgeries (Srg) view type in the clinical work station and in the planning grid.

In a multi-step planning process, you can release an appointment plan and subsequently make changes to this plan only if you have special authorization and specify change reasons. The system logs team- and appointment-related changes to an appointment plan, thus enabling each change to be tracked.

A released appointment plan always relates to a planning object and a time frame. The system highlights released plans in color.

The following appointments are excluded from the plan release:
- Admission appointments
- Emergency surgeries
- Canceled appointments
- Day-specific appointments
- Appointments for which planning is complete

Note:

The Release function provided up to now in the OR planning list (transaction code N1PN) is retained there.
Change Documents

The system writes change documents for defined properties of appointments and team members. You can call these functions from the Surgeries view type, from the planning grid, from the team entry dialog and from the release dialog.

Authorizations

The system checks the new authorization object N_APPLAN in functions in which the user makes planning-relevant changes.

The system checks the new authorization object N_ITEAM in functions in which the user makes changes to teams that are assigned to a service with an appointment in a released appointment plan.

Effects on Existing Data

The system only displays existing releases in the OR planning list (transaction code N1PN). Releases are still checked using the authorization object N_OPPLAN only in the OR planning list and in the OR schedule (transaction code N1PG).

Effects on Data Transfer

When you install SAP ECC Industry Extension Healthcare 6.0 the system runs an XPRA that sets an initial value for the new "reason for change" attribute in the tables for appointments and teams.

Effects on Customizing

You can or must make the following settings in Customizing:

- Maintenance view N1CSCHG: Customizing of a list of reasons for change
- Maintenance view N1RLST: Customizing of the release levels
- The organizational unit-related parameter (OU parameter) N1CSCHG enables you to control whether the user must specify a reason for change when he or she changes a released plan.
- The OU parameter N1CSCHGTXT enables you to control whether the user can enter the reason for change in free-text form or whether he or she must select it from the value help.
- The OU parameter N1CSCHGDEFT specifies the reason for change that is logged by default when a change is made without a dialog.
- OU parameter N1RLSPDIA specifies whether the plan release is to be executed with or without a dialog.

In addition, the new Business Add-In (BAdI) N1APPLAN_CHECK enables you to run customer-specific checks when the release is called.

38.10.2 IS-HMED-OR-PR OR Schedule / Service Management

38.10.2.1 Material Consumption Documentation (Modified)
Use

As of SAP ECC Industry Extension Healthcare 6.0 the following modifications in material consumption documentation are available:

Sort in Material Proposal

To override the default sorting by material number (ascending), you can use OU parameter N1MATSORT to sort the Material Number, Description, Quantity and Unit of Measure columns shown in both ascending and descending order.

Sorting occurs within a node shown in the material proposal e.g. in the service-related material proposal or in the range of materials.

New Fields in Material Consumption Documentation

The following new fields are available in the Enter Consumed Material screen enabling more specific documentation of material consumption:
- Serial number (20 digit): You can use this number outside of batch management for specifying vendor numbers etc.
- User-defined field (80 digit): You can use this field to document special features during consumption.

Release of Book Out from Warehouse Stock function

As of SAP ECC Industry Extension Healthcare 6.0 the Book Out from Warehouse Stock function is released. This function serves to book out material consumption from the storage location defined in the organizational unit (OU). You can find more information in the online documentation for material consumption documentation.

Note:
The new functions are only available to you for material consumption documentation with MM-Integration.

38.10.3 IS-HMED-OR-DO OR Documentation

38.10.3.1 Surgical Documentation (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0 the following modifications or functional enhancements are contained in surgical documentation:
**Required Entry of Localization Indicator for Procedures on Paired Organs**

Entering procedures without a localization will lead to an error message if the *Localization Oblig.* indicator for the procedure has been set in the service master.

You can find more information in the *OPS Localization (New)* release note.

**Support for Enhanced OPS 301 during Procedure Entry**

The procedure table has been enhanced with the *Off.OPS* (official OPS) and *CT* (charge type) columns. The *Charge Type* contains the value 80 if it is an unofficial procedure.

The *Official OPS* column displays whether an official procedure code has been assigned to the procedure.

You can find more information in the *DE: Procedure Entry - Support for Enhanced OPS 301 (New)* release note.

**Improved Call Options for the Procedure Hit List**

As of this release you can use the procedure hit list to code procedures for a requested surgery service or convert already existing procedures.

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**38.10.3.2 Surgery Sample Documents PMD Generator Version 2 (New)**

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, surgery sample documents are available as templates for your own document categories in a version for Generator Version 2 (PMD).

-  N0M_OPBE_2 - Sample surgery report
-  N0M_OPPR_2 - Sample surgery log
-  N0M_OPZU_2 - Sample additional document post-surgery request
-  N0M_PROB_2 - Surgery covering letter

**Detailed Information on New Sample Document Categories**

**N0M_OPBE_2 Surgery Report**

You enter long texts for indications, reports and recommendations in the surgery report. These long texts have been converted to the Enhanced Text text type so that they are suitable for dictation. An external data module presets the surgery team.
If a document is changed, the system generally refreshes the diagnoses, procedures, surgery times and the surgery team. The data saved in the document corresponds to the status of the surgical documentation at the time of the report entry or change. You can print the surgery report individually using a SAPscript form.

**N0M_OPPR_2 Surgery Log**

You use the surgery log to enter progress data and materials. The system saves diagnoses, procedures, surgery times, and the surgery team at the respective current status and refreshes them in change mode.

The following modifications have been made since the sample document for Generator Version 1:

- On the *Materials* tab page, the *Key* column has been removed from the tables for drainages, dressings/tamponades and consumed material. The name becomes an input field and receives a combo box from which you can select the materials. You have to maintain the entries you require in the document category. As you can only make entries of up to 60 characters in a combo box, the printing of names has been restricted to this length.

- The table for dialysates/drugs has been adapted for external data module N0_MEDIK.

- You can only release a surgery log when the data contained in the diagnoses, procedures, surgery times and surgery team agrees with the surgical documentation. If differences arise, you have to update the document (error message). This means that you have to create a new document version if the surgery log has already been released (subsequent entry of released surgical documentation). When you print the document, the system checks again that the data agrees. If differences exist, the system will print a message on the log.

  - If the surgical documentation or the surgery log has not yet been released, the system prints 'provisional surgery log' in the log header.

A request is required to preset the *Position* table in the surgery log. You have to create or maintain the surgery log from a work environment (clinical work station) so that the reference to the request exists.

**N0M_OPZU_2 Surgery Additional Document**

The surgery additional document contains the requests for post treatment care. The release of this document is not dependent on the remaining surgery documentation. Individual printing has been made possible with SAPscript forms.

**N0M_PROB_2 Surgery Covering Letter**

The covering letter is addressed to pathologists. You can enter information about preparations, diagnoses and questions in the covering letter.

This document category is called when you go to histological sample.

Individual printing has been made possible with SAPscript forms.

**Effects on Customizing**
Use of Sample Documents

You are not permitted to directly change the sample documents delivered or use them as live. You first need to create a copy before you use the sample documents with or without modifications in your system.

1. Adjustments Required in Includes

You have to adjust the document category name of the covering letter (form OP_DOCJUMP) in the subroutine pool for form routines belonging to the user exit of the surgery log (copy from N0M_OPGV2).

In this routine, you can also enter other document categories for covering letters which you can then navigate to from the surgery log.

2. Adjustments Required in Forms

In SAPscript forms, the table names appear for the field labels. You therefore have to copy the forms and adjust the names to the new table names of the copied document categories.

3. Requirements for Using External Data Module N0_MEDIK and N0_IMPLAN

The following requirements have to be met so that the external data module can correctly supply the data for the implant or medication table on the surgery log:

- You use material consumption documentation without MM integration, i.e. system parameter N1MMAKT has the value SPACE.
- Implants and drugs/dialysates are created as services in the formulary and they are assigned to service groups. The assignment type for service groups is entered as system parameter N1ZOTYP.
- OU parameters OP_IMPLAN and AN_MEDIKAM receive the name of the highest associated service group for implants or drugs/dialysates.

38.10.3.3 External Data Modules N0_MMINT and N0_MMINTV (Enhanced)

Use

For SAP ECC Industry Extension Healthcare 6.0, the Serial Number and Free Text for Material fields have been added to external data modules.

These external data modules supplement the application for material consumption documentation with MM integration so that you can enter material consumption within parameterized documents.

Material consumption documentation with MM integration was not completely released for the previous Release 4.72.
38.10.3.4 External Data Module in Surgery Context (Enhanced)

Use

For SAP ECC Industry Extension Healthcare 6.0, external data modules N0_IMPLAN and N0_MEDIK (material entry without MM integration) have been enhanced.

- The multiple selections have been improved. After a multiple selection, the system no longer automatically presets the columns exactly the same.
- Error handling has been adapted to the functions available under Generator Version 2.
- The N0_MEDIK external data module has been enhanced with the new Unit field (unit of measure of service, here materials).
- The programs have been adapted to Interface Version 3 (version as of Release 401).

Effects on System Administration

- To use the Unit entry, you have to use documentation element N0_MEDIEIN or refer to it in your alias.
- You should ensure that you have entered the correct interface version in the external data modules, otherwise program crashes can occur when you run the program. You then have to regenerate all affected document categories. It is not however necessary to change over to Generator Version 2 at the same time.

See also

- You can find examples of how to integrate external data modules in surgery sample document N0M_OPPR_2.

38.10.4 IS-HMED-OR-EV OR Evaluations

38.10.4.1 Surgery Evaluations (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0 the following new surgery evaluations exist:
1) Changeover Times RN2LOP01

OR changeover time statistics provide an overview of the changeover time between time stamps. The changeover time results from the period from the end time of one time stamp for a surgery until the start time of the time stamp for the next surgery.

You can determine changeover times for all time durations defined in Customizing (transaction N2ZP, column "Type" = D). The algorithm for the evaluation inverts these durations as a changeover time.

Taking Personnel Shift Times into account: The system displays changeover times from the start of a shift up to the first surgery within this shift, then from surgery to surgery and finally from the last surgery to the end of the shift. On-call shift has the special feature that it is cut at the 0:00 boundary, i.e. as of 0:00 a new on-call shift starts which belongs to the on-call shift of the next day.

You enter the "Regular Shift", "Late Shift" or "On-Call" personnel shift times and their inclusion for the evaluation on the evaluation selection screen and you can save them as variants. The changeover time is linked to the preceding surgery. The system determines where the changeover time belongs using the statistic-relevant time of the preceding surgery.

2) Time Stamp Statistics RN2LOP02

This enhanced report provides a detailed evaluation of surgery-relevant durations and the display of results according to different criteria. It has been enhanced with a few selection options (ICD, DRG, room, case type, and personnel shift time selections) and the display has been adjusted to accommodate this.

You can evaluate all durations defined in Customizing (transaction N2ZP, column "Type" = D).

You enter the "Regular Shift", "Late Shift" or "On-Call" personnel shift times and their inclusion for the evaluation on the evaluation selection screen and you can save them as variants. The statistics-relevant time of the surgery decides which shift a surgery belongs to.

3) Personnel Obligations RN2LOP03

Personnel obligations statistics provides an overview of cumulative personnel obligations relating to surgery time entry or relating to the times from the team entry.

If you take into account times from the Team Entry, the personnel minutes accumulate from the times that have been entered in the team table.

If you take into account the Surgery Time Entry, the system calculates the personnel minutes total by multiplying the selected duration by the number of people documented as being present for the selected tasks.

You enter the "Regular Shift", "Late Shift" or "On-Call" personnel shift times and their inclusion for the evaluation on the evaluation selection screen and you can save them as variants. The statistics-relevant time of the surgery decides which shift a surgery belongs to.

4) Utilization Statistics for Operating Rooms RN2LOP05
These statistics display the surgery durations relating to the opening times of the operating rooms or to the personnel shift times.

The user can select between the "Opening Times of Org/Build. Unit" and the "Personnel Shift Times" evaluation variants.

You enter the "Regular Shift", "Late Shift" or "On-Call" personnel shift times and their inclusion for the evaluation on the evaluation selection screen and you can save them as variants.

For the utilization statistics for operating rooms, the system cuts the durations - irrespective of the statistics-relevant time of the surgery - depending on the evaluation variant for normal time / remaining time or regular shift / late shift / on-call shift and distributes them to these time categories.

**Effects on System Administration**

To implement the aforementioned evaluations, you must first copy the associated display variant for each evaluation from client 0 to your production or test client. To do this you call report RKKBALVI in your target client. Enter the name of the evaluation. After execution, select Environment -> Import Layout. Enter client 000 as the source client. Select all listed standard layouts and select Layout -> Import.

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38.11 IS-HMED-NU  Nursing

38.11.1 IS-HMED-NU-SM  Nursing Service Management

38.11.1.1 Drug Events/Inpatient Nursing Services View Type (New)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, a new *Drug Events/Inpatient Nursing Services* view type is available in the clinical work station.

This ensures a joint view of drug events and nursing services belonging to a care unit.

The following possibilities are now available from the *Documentation of Nursing Services* view on the care unit:

**Selection options**

The *Nursing Service* tab page is now available which you can use to restrict the selection of nursing
services according to nursing organizational unit (OU) or departmental OU for a certain period. In addition, you can, for example, select using the following criteria:

- **Service/Service Group**: To make worklists available for certain employee groups, you can restrict them to certain services or service groups.

- **Cyclical Services**: By setting the indicator, master cyclical services and cyclical individual services will be highlighted in color in the view. The system will also display the master cyclical service in the overview if it is not displayed using the normal selection criteria. For example, if there is a cyclical individual service in the selection period or if a time from the cycle is calculated in the selection period due to the cycle rules.

The following further selection criteria are available to you on the **Patient** tab page:

- **Patient** (with multiple selection): You can use this to select several patients from the Occupancy view for example, and then call the **Drug Events/Inpatient Nursing Services** view. Alternatively you can move a patient to the view using drag and drop.

- **Case Type**: Restriction is only relevant for drug events as the case type for nursing services can only be inpatient.

- **Room** (multiple selection): You can implement room-related nursing service documentation with this. You should note that selection according to room always refers to the current occupancy situation of the associated care unit. You cannot view data regarding patients who were on the care unit at a date in the past.

You can carry out more restrictions when making selections by filtering the data in the layout.

**Layout List**

You can find the fields contained in the layout list for the inpatient nursing services under the **General Data**, **Patient Data** and **Service Data** column groupings.

The filling of the layout list is oriented towards the content of the **Outpatient Clinic/Service Facility** and **Occupancies** view types which already exist in the clinical work station. This also applies for the behavior of hotspots.

**Function List**

The function list contains general functions which you can use independently of a patient selection, such as **previous day**, **next day**, **case overview** etc.

In addition to the case overview and the patient organizer, all **nursing functions** relevant for nursing are available to you (such as):

- Nursing plan
- Nursing worklist
- Nursing report
- Patient outstanding items

In addition, **documentation functions** are available such as:

- Create document
- Create transport order
- Create clinical order
Furthermore, you also have all service processing functions relevant for nursing at your disposal, such as:

- Perform service
- Release service
- Enter service
- Team entry
- Change cycle

You should note the existence of a special feature relating to the performance or release of nursing services as part of the Drug Events/Inpatient Nursing Services view type. If you select several services with different service times and have set OU parameter N1ARERDT to "L", the services will be performed or released at the planned times. This means the service time does not automatically change to the time of the earliest service that you have selected.

You should note that you can only release services that you have planned in the future at the system time.

Effects on Existing Data

You should ensure that the selection of data only takes place using the selected criteria in the selection variant. This also means that all the user parameters that were used in the initial screen of the nursing overview cannot be used in the new view type (e.g. OEE, LS4 etc.).

The Nursing Overview function is available in the Occupancies, Arrivals and Departures view types. This function continues to branch to the nursing overview (transaction N1LP) in SAP ECC Industry Extension Healthcare 6.0.

If you only wish to use the new view type, you have to remove the function from the function lists and manage the relevant views in your work environments.

The aforementioned functions, selection option and layout list for nursing-relevant information are only available if you possess a license for the i.s.h.med Nursing component.

38.11.1.2 Nursing Report Entries (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0, you now have the option to create notes for entries in the nursing plan (problems, resources, targets and procedures).

The system saves these notes for the context of the relevant entry as part of the nursing plan.

You can create separate notes for entries which have been entered multiple times in the nursing plan (simultaneously in several blocks). To create these notes you can either use the hotspot on the icon in
front of every entry or you can select the menu item Documentation -> Nursing Report Entry.

The system will check for the existence of the nursing report the first time you call the function. If no nursing report exists, the system implicitly creates the nursing report when you create the first nursing report entry.

In the nursing report, there can only be one nursing report entry which is being modified for each entry in the nursing plan. As soon as the entry in the nursing report has been released, a new entry can be created. This means that several entries which have not yet been released can exist simultaneously (for different nursing plan entries) in the nursing report.

If you cancel a nursing plan entry, the system will set the deletion indicator for the assigned nursing report entries. You can then only display these entries in the nursing report.

You can also enter notes in the nursing worklist. The system displays procedures, which have been entered several times in the nursing plan, only once in the nursing worklist. Documentation of a note occurs therefore for the first procedure shown in the nursing plan.

You can also enter notes for other services in the nursing worklist. Documentation does not occur for each individual service but rather for the service code. This guarantees that you have an overview of all notes entered for this service code which extends over a longer time period and is not dependent on the current service being shown.

In the nursing overview or in the new Drug Events/Inpatient Nursing Services view type, the note function is not immediately available to you. Branch to the documentation in the nursing worklist of in the nursing plan.

Effects on Existing Data

As part of the enhancement of the nursing worklist with the icon for creating/changing a nursing report entry, the icons to display the existence of resources, problems and targets have been removed from the display.

See also

You can find more information about nursing report entries in the Nursing Report (Enhanced) release note.

38.11.1.3 General Changes to Nursing (Modified)

Use

As of SAP ECC Industry Extension Healthcare 6.0, the following modifications in Nursing are available.

Interpretation of the Public Holiday indicator in the cycle definition

Previously, the Public Holiday indicator was interpreted as follows:

- If you have not set the Public Holiday indicator, the system will not display any calculated times from the cycle for the public holidays (e.g. in the cycle report).
- If you have set the public holiday indicator, the system displays calculated times from the cycle for the public holidays. It does this even if the public holidays fall on weekdays which have not been selected in the cycle definition.
  Example: You have selected the Tuesday and Thursday in the cycle definition. The system calculates the times within the validity of the cycle also for a public holiday on Wednesday.

As of SAP ECC Industry Extension Healthcare 6.0 the system takes into account the weekday selection in the cycle definition when interpreting the Public Holiday indicator.

Only when a public holiday falls on a weekday that you have selected in the cycle definition (e.g. Tuesday) does the system calculate the times within the validity of the cycle for this public holiday as well. The exclusive calculation of times on public holidays without selecting a weekday is no longer possible.

If you have not set the Public Holiday indicator, the system will continue to not display any calculated times for public holidays from the cycle.

**Cycle functions for selected procedures**

As of SAP ECC Industry Extension Healthcare 6.0 you can call the processing functions (create, change, end, cancel, and display) for a cycle in the nursing worklist by selecting a procedure.

Previously, you could only call the cycle functions in the nursing worklist if you had selected an individual cyclical service.

**Effects on Existing Data**

Check your cycle master data in view of the modification to the Public Holiday indicator.

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### 38.11.2 IS-HMED-NU-DO Nursing Documentation

#### 38.11.2.1 Nursing Report (Enhanced)

**Use**

As of SAP ECC Industry Extension Healthcare 6.0, the nursing report supports the entry and editing of context-related nursing report entries.

If, for example, you edit the nursing plan, you can enter as many notes as you wish for problems, resources, targets and procedures. These notes are then saved in order of time in the nursing report as context-related nursing report entries. You can find more information about entering context-related nursing report entries in the Nursing Report Entries (New) release note.

When editing context-related nursing report entries, the same functions are available to you as in the nursing report. You can release and cancel these entries and receive record information.
You can only enter a new entry for a context if the last entry has been released.

*Interface Modification*

If the context of the nursing report is displayed (*NursRpType*), the nursing report is then edited or displayed as context-related.

For context-related entries, the context is displayed in the display part and is highlighted in color.

The employee responsible is displayed in the long form (name, first name).

*New/Modified Functions*

**Extras On/Extras Off (Pushbutton)**

Depending on the initial access to the nursing report, you can use the *Extras On/Extras Off* pushbutton to display nursing report entries with or without a context reference. The pushbutton is only visible if extras exist.

**Nursing Report with or without Context Reference -> Extras On**

The system displays:
- context-free nursing report entries
- all context-related nursing report entries

**Nursing Report without Context Reference -> Extras Off**

The system displays:
- context-free nursing report entries

**Nursing Report with Context Reference -> Extras Off**

The system displays:
- nursing report entries for the current context

**Display/Don’t Display Canceled Entries (Pushbutton)**

There is only one pushbutton with the function for showing/hiding canceled entries. The pushbutton is only visible if canceled entries exist.

*Configure Nursing Report*

Using report *RN2_PFLEGEBERICHT_CUSTOMIZING* you can define the display for when you open the nursing report. You can also define whether extras are to be displayed immediately.

*Form Enhancement*

The following characteristics have been added in form *N2PBFORM*:
- context-related information for an entry
- employee responsible in long form (name, first name)

*Configure Print Output*

When printing, you can define the print range of the nursing report in a selection dialog:
- with extras
- without extras
- with canceled entries
- without canceled entries

Effects on System Administration

The document category **N4PVB Version 001** and the associated form **N2PBFORM** for the nursing report contain all the necessary enhancements. Copy both of them into the clients in which you wish to use the nursing report.

38.11.2.2 Nursing Report in the Care Unit Work Station (Modified)

As of **SAP ECC Industry Extension Healthcare 6.0** there are changes to the **Nursing Report** function in the views for occupancies, arrivals and departures in the clinical work station.

- You can now select several nursing reports from your worklist and edit them one after another.
- You navigate between the nursing reports using the **Next Document / Previous Document** pushbuttons. If there is not a nursing report for a case, you can create one. After exiting the new nursing report, you can navigate using a query dialog to the next or to the previous document. You use the **Cancel** pushbutton to end the whole processing sequence.

This system response corresponds to the navigation between documents in the document list.

38.12 IS-HMED-PM Perinatal Medicine

38.12.1 IS-HMED-PM-BD Basic Perinatal Data

38.12.1.1 This release note is relevant for the Germany country version only. Documentation is not available in English.
38.12.2 IS-HMED-PM-DO  Perinatal Documentation

38.12.2.1 This release note is relevant for the Germany country version only. Documentation in English is not available.

38.12.2.2 This release note is relevant for the Germany country version only. Documentation is not available in English.

38.13 IS-HMED-RA  Radiology

38.13.1 IS-HMED-RA-BD  Basic Data

38.13.1.1 Radiology (Enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0, more flexible customizing is available for Radiology. The following changes have thus been made to the data model:

- Table TN1PACS
  The table key has been enhanced with the institution. You can therefore assign a PACS to multiple institutions within the same client.

- Table TN1AETITLE
  As it was previously not possible to assign a modality to different OUs, this table has been replaced by the two new tables N1AET and N1AETOUA. You manage the modalities in table N1AET. You enter and manage the assignment to one or several OUs in table N1AETOUA.

Report RN1AETITLE_MIGR is available for you to transfer and convert the data from table TN1AETITLE into tables N1AET and N1AETOUA.

Alternatively, you can enter the data manually into the new tables N1AET and N1AETOUA in order to assign a modality to several OUs, for example.

You should note that as of SAP ECC Industry Extension Healthcare 6.0, the system only evaluates the new tables. This means you have to enter entries into the new tables or execute the aforementioned report.
38.14 IS-HMED-ME Medication

38.14.1 i.s.h.med Medication (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 the new Medication module is available for comprehensive support of the medication process, from the order through to the documentation of the administration of the drug.

In order to be able to create and manage medication orders and medication events (administration, dispensing, prescription printing) you must define a drug master in the system. For this purpose support is available in the system when transferring external catalogs into formulary.

Within drug management in the system, you have numerous options for storing detailed values (e.g. treatment duration, individual dose, determination of agents, etc.). These values can then be used to preset in the ordering and administration of drugs.

When creating orders the user can use numerous search options in the drug master (e.g. by generic names, agents, etc.) and order templates are available. You can also implement clinical checks (e.g. contraindications) using various Business Add-Ins (BAdIs). You can integrate external databases (e.g. FDB First Database) for these clinical checks.

Using the flexible status concepts for medication orders and events, you can implement complex hospital-internal workflows. This is supported by corresponding view types in the clinical work station.

In drug administration you can document the preparation of compounds (infusions, ointments, powders), determine flow rates for infusions, document deviating administration etc..

In addition to the administration documentation it is also possible to document the dispensing of drugs and the printing of prescriptions.

As well as the complete integration in Materials Management (SAP MM) and Controlling (SAP IS-H CO) the module is also integrated into the functionality of SAP Patient Management (IS-H) and the clinical system (i.s.h.med). Separate pick and fill lists are available in the Medication module, for the management and issue of drugs from the pharmacy, in addition to those available in materials management.

Note:

The new functions for medication-relevant information are only available to you if you own a license for the i.s.h.med Medication module.

Effects on Customizing
In order to be able to use this function you must activate the business function Clinical Solution *i.s.h.med* (ISHMED_MAIN).

**See also**

You can find detailed information on the available functions in the corresponding release notes for the medication areas (e.g. medication order).

### 38.14.2 IS-HMED-ME-BD   Medication Master Data

#### 38.14.2.1 Medication: Drug Search (New)

**Use**

As of SAP ECC Industry Extension Healthcare 6.0 it is possible to search for drugs in the new Medication component.

The drug search is used when prescribing drugs and as an aid when preparing drugs.

**Drug Prescription**

The drug search is a comfortable way to search for drugs or order templates when prescribing drugs. Various information concerning the drugs can be called during the search. For example, you can use a customer enhancement (BAdI) to branch to the monograph.

The drug search supports the following criteria:

- Name of drug (brand name, generic name)
- Description
- Agent
- Drug type
- Drug category
- Order profile (e.g. classification scheme ATC)

The order template search has the following criteria:

- Name of drug (brand name, generic name)
- Description
- Agent
- Template
- Template group
- Organizational assignment
- Assignment to a diagnosis
- Assignment to a user
You must perform the following activities in order to be able to use the search:

1. Import a catalog into the base catalog. You can find further information on this in the release note Medication: Medication Master Data (New) and in SAP note number 852625.

2. Use drug management to create a formulary.

3. If necessary, create order templates, if you wish to use these.

**Prescribing Help**

A help function has been integrated in the documents for prescribing drugs (document category PPA Prescription N3KVMST16 and Private Prescription N3KVMSTPR).

This help function enables the search for drugs using the drug catalogs previously imported into the system, such as the Yellow or Red List.

Possible search criteria are, for example, the brand name of a drug, the generic name, or the agents.

Within the search dialog it is possible to view further information on the drug. This must either have been imported into the system or a corresponding customer enhancement (BAdI) must have been implemented.

In order to use this help you must first import the data of the preferred drug catalog into the system. You can find further information on this in SAP note number 852625.

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**38.14.2.2 Medication: Drug Master Data (New)**

**Use**

As of SAP ECC Industry Extension Healthcare 6.0 you now have the opportunity to enter and manage drugs and agents within the Medication component. Importing pre-made drugs and the agents contained in them from external catalogs is supported.

You cannot change the imported agents and their assignment to pre-made drugs in the dialog functions for the master data.

In addition to the drug properties, you can also store proposal values and other entries for input support and for checking dialog entries in drug management.

You also have the opportunity to connect a drug to an item in the material catalog and thus support the pharmacy. You can find information about the conditions for material integration in the documentation for the Medication component.
38.14.3 IS-HMED-ME-OR  Medication Order

38.14.3.1 Medication Order (New)

Use

As of SAP ECC Industry Extension Healthcare 6.0 it is possible, in the new Medication module, to create and manage medication orders.

The medication order is one of the central components of the Medication module. The ordering employee uses the order to determine the dose, the cycle, the ingredients, and the duration which should apply for the administration of a specific drug. An order is always case-related.

The user can create an order in the patient organizer and in views of the following view types in the Clinical Work Station:

- Occupancy view type
- Outpatient Clinic/Service Facility view type
- Medication Orders view type

If, for example, the user selects an entry in a view and thereby transfers the case and patient data to the order dialog, he either accesses the drug search or the order dialog directly. Otherwise the user will access the initial order screen where he can search for a patient.

You can find further information on the drug search in the release note Medication: Drug Search (New).

The order dialog is a collective dialog for creating any number of orders. You should note that the user can only create an order for an administrable drug. This drug can be composed of any number of ingredients.

You can find further information on drugs and ingredients in the release note Medication: Drug Master Data (New).

The order dialog consists of the following areas:

*Pushbutton Toolbar*

The pushbutton toolbar offers function buttons for the following functions:

- **Plan**: Activates the selected order or all orders and calls event generation.
- **Execute**: Activates the selected order or all orders and creates exactly one event at the start time of the order in ‘administered’ status and ends the order.

*Patient, Case Button*
The system displays information about the patient such as, for example, the patient name, patient number, case number, admission date, etc..

**Compressed Order Table**

The compressed order table contains a compressed display of the orders, i.e. one row with order data for each order. It contains the data which the system requires for processing an order for standard drugs.

In addition, the user can select an alternative drug instead of the originally ordered drug while retaining the entered dose.

**Enhanced View**

The user can call the enhanced view from the compressed order table. In the enhanced view he can enter additional information for the corresponding order on various tab pages. The enhanced view and therefore also the number and type of tab pages displayed depends on the drug category assigned.

The following **tab pages** are available for **all drugs** as standard:

- **Order** tab page: This tab page contains information such as the order ID, order type, order status, the employee responsible (EmR), validity and duration of the order.

- **Details** tab page: This tab page contains information such as, for example, the ordering organizational unit (OU), the treatment OU, the consultant of the order, the administration device, the dosage form of the drug, etc..

- **Event** tab page: This tab page contains information such as, for example, the fill source of the first event, preparation directions, the documenting OU of the event, etc.. This tab page also contains functions for activating the order and generating the events.

  The event table contains information such as, for example, the event number (event identification), planned start of the event, the fill source, the planned drug quantity, the container size of the drug, etc..

For **compounds** the additional **Ingredients** tab page is available as standard. Information such as, for example, the height and weight of the patient, the total dose for the patient, the recipe quantity of the administrable compound, etc..

For **infusions** and **dilutions** the following additional **tab pages** are available as standard:

- **Ingredients** tab page: This tab page contains information such as, for example, the infusion type of the order (conditional continuous, volume-based continuous, intermittent), quantity (volume) of the infusion, administration duration, the time for the flow rate, localization for medication etc..

- **Flow Rates** tab page: This tab page contains information on the flow rate such as, for example the administrable quantity, (volume), administration duration, active ingredient and its dose, etc..

  A flow rate table is available for entering further flow rates and its calculation in relation to the body weight and body surface area of the patient. Below the flow rate table you can find specific input fields for patient-controlled analgesia (PCA). These fields are used to determine the lock duration of the PCA and the number of permitted boli within a specific period of time.

For **nutritional solutions** (TPN) the following additional **tab pages** are available as standard:

- **Ingredients** tab page: The structure of this tab page is generally the same as the tab page for infusions/dilutions. You should note that the solution quantity is the quantity remaining when you subtract the volumes of the ingredients and additives from the ordered total volume of the nutritional solution. The total quantity of the ingredient volumes can be found below the ingredient table.
- **Additives** tab page: This tab page contains information on the weight of the patient, height of the patient and additive ingredients. The total quantity of the ingredient volumes can be found below the ingredient table.

The **ingredient table** is the same for the drug categories compound, infusion, dilution and nutritional solution and contains information on the drug and its ingredients, such as the mnemonic, drug description, active ingredient, calculation method, dose strength, total patient dose, quantity to be administered, etc.

With the business add-in (BAdI) for customer-specific control of the order dialog N1ME_DYNAM_SUBSCR you can design the dynamic screen areas below the compressed order table customer-specifically. This means you can define the sequence of screens and tab pages, the labels of the tab pages, the screen area opened when accessed, etc.. You can also add, replace or remove screen areas.

**Effects on Customizing**

In order to be able to use this function you must activate the business function Clinical Solution i.s.h.med (ISHMED_MAIN).

You must execute the following customizing activities for the medication order:

- Maintain Order Type
- Maintain Order Priority
- Maintain Order Status
- Maintain Localization for Medication
- Maintain Units

The following parameters are relevant to the order:

**Institution-related, time-independent parameters**

- N1MEICAL - Flow rate calculation for the infusion
- N1MECLLO - Active clinical checks
- N1MEIFRE - Standard cycle for continuous infusions
- N1MEOTYP - Order type for an order created in background when ad hoc event is created
- N1MERCEO - Reason for canceling events when ending an order
- N1MERCSCO - Reason for canceling events when suspending an order

**Institution-related, time-dependent parameters**

- N1ADRU - Unit of volume component of flow rate
- N1ADTIM - Time component of flow rate
- N1ADTIMU - Unit of time component of flow rate
- N1ADTM - Actual time/date presetting

**User parameters**

- N1ME_DEFOTYP - Standard order type for presetting order type
N1ME_NO_DRUG_SEL - No drug search, user directly accesses order dialog
N1ME_ORDGRI_OPENROW - Color of opened row in compressed order table

See also
You can find further information on medication in general and the management of medication orders in the release notes
- i.s.h.med Medication (New)
- Administration Functions for the Medication Order (New)
- Medication Orders View Type (New)

38.14.3.2 Administration Functions for the Medication Order (New)

Use
As of SAP ECC Industry Extension Healthcare 6.0 the new Medication module provides the possibility of creating and managing medication orders.

Administration functions for the order are available to the user in the views of the Medication Orders view type (order views) as well as in the order dialog. These functions can be used to map customer-specific workflows in both the inpatient and outpatient environments.

The flexible status concept of the order enables the implementation of different intermediate steps from the saved order through to the activated order depending on customer requirements. The system also offers a range of functions which directly access the order processing procedure. This means you can, for example, temporarily suspend an order and then resume the order at a later time, end an order early, or extend an order.

The following functions are available for managing and processing medication orders:

Activate Order function
This function is available to the user in the Medication Orders view type. The function activates a saved valid order with the internal status 'Active'. The system will automatically set any saved events of the order to the internal status 'Confirmed'.

Suspend Order Function
This function is available in the Medication Orders view type. The function suspends an active, valid order, i.e. sets the internal status 'Inactive'. The system cancels the events of the order which are in the future and have not yet been administered.

With the business add-in (BAdI) N1ME_CHANGE_SUSPORD you can customer-specifically override this function.

Resume Order Function
This function is available in the Medication Orders view type. The function resumes an inactive valid order, i.e. resets the internal status 'Active'. The system also calls event generation for this order.

**End Order Function**

This function is available in the Medication Orders view type. With this function the user can end an order before the actual end time of the period of validity. The system sets the status of the order to the internal status 'Ended' and cancels all future events of the order which have not yet been administered.

You can use BAdI N1ME_CHANGE_ENDORDER to customer-specifically influence this function.

**Cancel Order Function**

This function is available in the Medication Orders view type. The system cancels the order and all its dependent objects, such as events and preparations. You should only use this function in case of error.

**Create Order Template Function**

This function is available in the Medication Orders view type. The user can select different cases and patients in order to create templates or template groups for the order. The resulting order template transfers the order data without patient or movement-related data. The user can enhance and change the data in the order dialog.

Depending on whether the user selected one or more templates, he will access the following mode:

- Create individual template
- Create template group

A template can be used to quickly and easily create orders for therapy requirements which are needed often. You can group templates into template groups. If the user uses a template group for the order, all drugs of this template group are automatically ordered.

Within the framework of template groups you can use various transactions to assign order templates or groups to a diagnosis, an organizational unit or a user.

**Change Order Status Function**

This function is available in the Medication Orders view type for any orders with the internal status 'Saved'. This function is used to switch between the external status and the internal status 'Saved'. The internal order status 'Saved' is the only internal status which can have several external statuses assigned. This means the user can map specific work steps e.g., saved -> pending review -> reviewed.

You should note that, when selecting multiple orders, you can only enter one status to which all selected orders will be set.

You can use BAdI N1ME_CHANGE_MOSTATUS to customer-specifically influence this function.

**Assign/Undo Order Profile Function**

This function is available in the Medication Orders view type for any orders for a patient and in the order dialog for the corresponding order.

Order profiles are used to group several orders which are connected, for example, from a therapeutic point of view. You can assign orders to a profile and define the sequence of the individual orders. You can also enter sequence texts which you can display as information which should be taken into account in the order.

**Change Order Function**
This function is available in the *Medication Orders* view type for any orders of a case for patient.

**Display Order Function**

This function is available in the *Medication Orders* view type for any orders of a case for patient.

**Print Order Function**

This function is available in the order dialog and can either be called for an individual order (print details) or for several orders (print overview).

**Copy Order Function**

This function is available in the *Medication Orders* view type for an order. The system transfers the data of the order to be copied into the new order. However, the user must enter, for example, the patient number, the case number, and the employee responsible (EmR).

Once the necessary data has been entered, the user access the order dialog, where he can make changes to the copied order data.

You can use the BAdI N1ME_COPY_ORDER to customer-specifically influence this function.

**Extend Order Function**

This function is available in the *Medication Orders* view type for a valid order. The new end time of the period of validity results from the previous end time of the period of validity and the entered extension duration.

You can use BAdI N1ME_CHANGE_EXTEND to customer-specifically influence this function.

**Display Change Documents Function**

This function is available in the *Medication Orders* view type for an order. The system displays the change document information such as, for example, the change user, change date, name of changed field, etc.

**Display Status History Function**

This function is available in the *Medication Orders* view type for one order and can also optionally be called using a hotspot on the order status.

The system displays status history information such as, for example, the customer-specific status of the medication order, description of the status of the medication order, employee responsible for setting the status, date on which the status was set, etc.

**Confirm Changes Function**

This function is available in the *Medication Orders* view type for one order. It is used to confirm order changes and to reset the change indicator of the order.

You should note that the change indicator of the order is only set if a user other than the creation user makes changes to the order. As standard all changes to the order set the change indicator. You can use the BAdI N1ME_CHDVER_DETERMIN to override this behavior and, for example, only set the indicator for specific field changes.

Only the user who created the order and assigned the employee responsible can call the *Confirm Changes* function. The system displays information on the changed order such as, for example, the user name of the person who made the changes, the date of the changes, etc.

**Confirm Flow Rate Function**
This function is available in the *Medication Orders* view type for an order with flow rates. The function is used to confirm the flow rate changes and reset the change indicator of the flow rate.

You should note that the change indicator of the flow rate is only set if a user other than the creation user makes changes to the flow rate. As standard all changes to the flow rate from the order status 'Active' set the change indicator. You can use the BAdI NIME_NEWRVER_DETERMI to override this behavior and, for example, only set the indicator for specific flow rate changes.

Only the user who created the order, and therefore the flow rate, and assigned the employee responsible can call the *Confirm Flow Rate* function.

The system displays information on the changed/new flow rate such as, for example, the ID of the flow rate of the order, the user name of the person who made the changes, the change date, etc..

**Effects on Customizing**

In order to be able to use this function, you must activate the business function *Clinical Solution i.s.h.med* (ISHMED_MAIN).

**See also**

You can find further information on medication in general and on medication orders in the release note:

- *i.s.h.med Medication (New)*
- *Medication Order (New)*
- *Medication Orders View Type (New)*

### 38.14.3.3 Medication Orders View Type (New)

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0* the *Medication Orders* view type is available in the clinical work station.

The Medication Orders view type is a central tool for processing medication orders. It is available for viewing all order information at a glance and for calling all available administration functions. The *Create Order* function is available in several view types (e.g. *Occupancy, Outpatient Clinic/Service Facility* etc.). You can also call all order management functions within the order.

The following options are available in the *Medication Orders* view type for managing medication orders:

**Selection Options**

The following tab pages are available in the view for selecting data:

- *Order* tab page: This tab page contains, for example, the following selection fields:
  - Ordering OU: You can select several OUs in multiple selection. The system can also preset the OU from the work environment if the corresponding checkbox was set.
- Validity Date/Time From, Validity Date/Time To: You can use these criteria to select orders according to their period of validity, e.g. from 01.01./15:00 to 02.01./03:00
- Priority: You can use these criteria to select orders according to their priority.
- Purpose: You can use these criteria to select orders according to their purpose.
- Order Profile: You can use these criteria to restrict orders according to their assignment to an order profile.

Patient tab page: This tab page contains, for example, the following selection fields:

- Patient (with multiple selection): You can use this selection to select, for example, several patients in the Occupancy view and then call the view of the Medication Orders view type. The selected patients are then transferred and the corresponding orders displayed according to the remaining selection criteria. Alternatively, you can drag a patient into the view using Drag-and-Drop.
- Sex
- Case (with multiple selection): Same use as Patient
- Case Type: Here you can restrict according to the current case type of the patient.

Other Characteristics tab page: This tab page contains, for example, the following selection fields:

- Mnemonic: In a multiple selection, you can choose the mnemonic according to which the orders should be selected.
- Drug Category: In a multiple selection, you can choose the drug category according to which the orders (or their administrable drugs) should be selected.
- Display Controlled Drug checkbox: If you set this indicator only orders with a controlled drug as the administrable drug will be selected.
- First Event, Planned Date/Time From, Planned Date/Time To: You can use this criteria to select the first event after the planned time, i.e. for example, from 01.01./15:00 to 02.01./03:00.

Layout selection

The can find the fields required for the medication order in the layout selection in the following groups:

- Patient data
- Order data
- Event data
- Medication data
- Order profile data

The behavior of the hot spot is oriented towards the entries in the view types Outpatient Clinic/Service Facility and Occupancy view types in the clinical work station.

Function Selection

All functions relevant to order processing are available in the function selection e.g. Create Order, Change Order, Activate Order, Suspend Order, Resume Order, Print Prescription, etc..

You should note that the function selection does not contain any general functions which you can use
without selecting a patient. You must select at least one entry. The \textit{Create Order} function is an exception. If the user calls this function without having selected a patient, the initial order screen will appear where the user can search for a patient and case.

Other functions are also available which are not medication-specific, for example, the patient organizer, laboratory findings display, diagnosis display, and the case overview.

\textbf{Note:}

The above listed functions, selection options, and the layout selection for the medication-relevant information are only available to you if you have a license for the \textit{Medication} module.

\section*{Effects on Customizing}

In order to be able to use this function you must activate the business function \textit{Clinical Solution i.s.h.med} (ISHMED\_MAIN).

\section*{See also}

You can find further information on Medication in general and on the medication order in the release notes

- \textit{i.s.h.med Medication (New)}
- \textit{Medication Order (New)}
- \textit{Administration Functions for the Medication Order (New)}

\subsection*{38.14.3.4 Medication Event (New)}

\section*{Use}

As of \textit{SAP ECC Industry Extension Healthcare 6.0} the new Medication module provides the possibility of entering and managing medication events.

The medication event (event) is one of the central components of the Medication module. Drugs are administered and documented in the form of medication events (events) and are, in the following referred to as the 'electronic medical administration record' (eMAR).

As a rule, medication events result from a medication order and represent times at which something involving medication should be done, for example, the drug should be administered to a patient. These times result from the validity of the order (e.g. 10 days) and the cycle in use (e.g. twice daily). This results in the number of events (e.g. 20 events).

However, events do not only refer to the administration of a drug, but also to all necessary work steps which must be executed for an event, for example the preparation of the drugs. The user also documents these work steps using the event.

Events are created during the event generation of the medication order or can be created directly (ad hoc event). Event generation creates the events of the medication order, taking into account a series of order attributes as well as various generation types or the event generation horizon. Due to the different purposes of a medication order (administration, dispensing, print prescription), the events are also generated with different event types. The medication events have a flexible status profile, which is easy to use.
The user can call event generation for each order in the order dialog. In addition, the system can automatically call event generation in the Plan function. Alternatively, the report RN1ME_GENERATE_EVENTS is available which, for example, can run overnight in the background to generate events.

You can override event generation with the following Business Add-Ins (BAdIs) on a customer-specific basis:
- N1ME_EVENT_GENERATE
- N1_MEEVENT

The system differentiates between outpatient event generation (dispensing, print prescription) and inpatient event generation (administration).

During event generation, the system will take into account the different drug categories (e.g. standard drug, infusion, nutritional solution, etc.).

You can find further information on drug categories in the release note Medication: Drug Master Data (New).

**Event Generation for Standard Drugs and Compounds in Inpatient Orders**

Depending on the period of validity of the order and the cycle, the system determines the cycle times for the events. The event quantities result from the corresponding individual quantity or dose.

**Event Generation for Standard Drugs and Compounds in Outpatient Orders**

Unlike in an inpatient order, the system totals the cycle times and only displays one event here, which contains the total of the individual doses dispensed or printed in a prescription. However, in the case of an outpatient event repetitions are possible. These are events for the repeat dispensing of a drug or the printing of a duplicate prescription.

**Event Generation for PRN Medication of Standard Drugs**

PRN medication means that a drug is ordered when needed, e.g. 2 tablets 3 times daily on request. The patient can receive a maximum of 6 tablets on this day, however, only if he really needs them. The event generation for PRN orders is different to normal event generation in that one main PRN event is generated per day. This main event contains the total daily ration. Only when the drug is actually administered will the system create the actual administration event.

You can only create PRN orders for standard drugs and inpatient orders.

**Event Generation for Infusions/Dilutions/Nutritional Solutions**

You should note that only administration events can be generated in the standard event generation for infusions, nutritional solutions, and dilutions. The outpatient dispensing of an infusion or the printing of a prescription are not planned.

Event generation for infusions varies according to the following infusion types:
- Volume-based continuous infusion: This infusion is continuous, i.e. only one event is created for the entire order. The user documents the administration continually until the total volume is reached.
- Conditional continuous infusion: This infusion is continuous, i.e. only one event is created for the entire order. This event is then documented continually. Conditional means, in this case, that further infusion bags can be hung as required and the administration or hanging of further infusion bags does not stop until ordered by the physician.
- Periodical infusion: The logic used for event generation here corresponds to the event generation used for standard drugs.

**Effects on Customizing**

In order to be able to use this function, you must activate the business function *Clinical Solution i.s.h.med* (ISHMED_MAIN).

**See also**

You can find further information on medication and on medication events in the release notes:
- *i.s.h.med Medication (New)*
- *Administration Functions for Medication Events (New)*
- *Medication Event/Inpatient Nursing Services View Type (New)*

**38.14.3.5 Administration Functions for Medication Events (New)**

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0* the new Medication component provides the possibility of entering and managing medication events.

In views of the *Medication Events/Inpatient Nursing Services* view type (event views) in the clinical work station and in the administration dialog, administration functions for the medication events (events) are available to the user. These functions can be used to map customer-specific workflows in both the inpatient and the outpatient environments.

Thanks to the *flexible status concept* of the events you can implement various intermediate steps from the created to the documented event depending on the customer requirements. The system also offers a range of functions which directly access the event processing procedure e.g. prepare drug.

**Functions for Processing the Medication Event**

In views of the *Medication Events/Inpatient Nursing Services* in the clinical work station, for example, the following functions are available for processing medication events:

**Administer Drug Function**

This function is used to document events and can be called by the user any number of times for events of the Administration or Dispensing type from the internal status 'Confirmed'. The user access the eMAR dialog window which comprises the following components:

- Event table
- Drug category-specific documentation screen area (detail area)
- Screen area for employees responsible and witnesses
- Function toolbar

Event Table
The system displays all events which should be documented using the Administer Drug function in the event table. The event table contains information on the events such as, for example, the patient name, fill source of the drug to be administered, etc..

The user can use a pushbutton to open the screen area for the details of the corresponding event.

Drug Category-Specific Documentation Screen Area

The drug category-specific documentation screen area (detail area) is different depending on the drug category of the administrable drug which should be documented.

The Deviations tab page exists for all drugs and is used to document deviations or peculiarities in the administration or dispensing of drugs. For example, the user can enter here the administration text or the information that the drug was not administered or was administered later. On this tab page the user can use the Create Document function to create a document for the event.

In the case of standard drugs further fields are available to the user to document the scrap.

Depending on the drug category, the following detail areas are available:

- **Detail area for standard drugs, premade compounds, and compounds prepared using the preparation function.**

For standard drugs, premade compounds or prepared compounds the eMAR tab page exists and can be used to document details of the event. For example, the user can enter the administered quantity of the drug here, the date and the time of administration (or dispensing or prescription printout).

- **Detail area for compounds prepared at the organizational unit (OU)**

For compounds which are prepared at the OU (so-called unprepared compounds) there is a special version of the eMAR tab page. This specific tab page is only available for compounds which must be prepared directly before administration.

The preparation and administration are documented only for the relevant event. The system will therefore only display this specific version of the eMAR tab page, if the compound is ordered for each individual dose. If the compound is ordered for the total order or is prepared using the Prepare Event function, the system will display the eMAR tab page for standard drugs (see above).

You should note that for this drug category, the system does not display the administrable drug but the ingredients of the drug.

- **Detail area for infusions, dilutions and nutritional solutions**

The detail area for infusions, dilutions and nutritional solutions consists of specific fields e.g. infusion type, concentration (dose of active ingredient per 1 ml of infusion) and the following tab pages:

  - **eMAR tab page**
    This tab page is used to document the details of the event. For example, the user can enter the hung preparations (infusion bags), the administration quantity, administration date and time, etc..
    In addition, this tab page provides functions with which the user can document a new infusion bag or flow rates.

  - **Flow Rate Changes** tab page
    On this tab page the user can document the details of the flow rate. He can enter, for example, a flow rate, the duration of the flow rate, etc..
    Other functions are also available with which the user can, for example, create a new flow rate or
remove flow rates.

Employee Responsible and Witness Area

In this area the user enters the following information:

- Administrating Employee: The employee responsible for documenting the event.
- Witnessing Employee (Checked By): Specifies the employee who witnesses the administration/dispensing/printing of the prescription.

Function Toolbar

The following functions are available in the function toolbar:

**Administer Function**

With this function the user can document all events of the event table as administered. The system will perform all necessary checks, such as whether the witness to the administration is missing.

**Set Status Function**

This function can be used to set all or only specific events of the event table to a specific status value. You should note that the status can only be set for events which already have the internal status 'Confirmed' or 'In Processing'.

**Check Function**

This function checks all events which are in the event table.

**Save in Current Status Function**

This function saves all events in their current status.

**Cancel/> Function**

This function cancels the event documentation without changes.

**Quick Administration Function**

You can use this function to administer any number of standard drugs and premade compounds without a detailed eMAR dialog.

If you can only enter information such as time differences and reasons, dose differences, scrap and/or other peculiarities during administration you must always use the detailed event documentation (eMAR dialog window).

If one of the selected events cannot be administered using quick administration, for example, because the lab values for this order have not been flagged as checked by the administrating employee, the system will cancel the function. In case of error the system will also not document the other events as administered.

You can use the business add-in (BAdI) N1ME_ADMIN_EV_SIMPLE to customer-specifically override the quick administration.
End Event Function

The user can call this function for events from the internal status 'Administered'. The function internally sets the event status to 'Ended'. As soon as an event has the status 'Ended', the user can no longer change or subsequently document the event.

Cancel Event Function

The user can use this function to cancel any number of events. All dependent objects, such as, for example preparations, will also be canceled.

Print Prescription Function

This function can be used for print prescription events. You should note that currently only prescriptions for standard drugs and premade compounds can be printed.

Display Change Documents Function

This function is available in the Medication Events/Inpatient Nursing Services view type in the clinical work station for one event. The system displays information or changes to the event, for example, user name of changing user, date of change, etc..

Display Status History Function

This function is available in the Medication Events/Inpatient Nursing Services view type in the clinical work station for one event and can also optionally be called using a hot spot. The system displays information on the status history such as, for example, the description of the status, the date the status was set, etc..

Create Ad Hoc Event Function

An ad hoc event is indicated by the fact that the administration is documented first without an existing order. The system creates the order in the background with the 'Ended' status, i.e. the user can not create further events for this order.

The user can only create ad hoc events for standard drugs and premade infusions which can be found in the fill source (stockroom) of the relevant OU.

Create Document Function

This function can be used to create a document for the selected event.

Change Event Status Function

This function can be used to toggle between the customer-specifically assigned status to the internal status 'In Processing'. The user can also change the internal status from 'Confirmed' to 'In Processing'.

Effects on Customizing

In order to be able to use this function you must activate the business function Clinical Solution.
i.s.h.med (ISHMED_MAIN).

See also
You can find further information on Medication in the release notes:
- i.s.h.med Medication (New)
- Medication Event (New)
- Medication Events/Inpatient Nursing Services View Type (New)

38.14.3.6 Medication Events/Inpatient Nursing Services View Type (New)

Use
As of SAP ECC Industry Extension Healthcare 6.0 the new Medication Events/Inpatient Nursing Services view type is available in the clinical work station.

As well as the medication events, inpatient nursing services have also been integrated into this view type of the clinical work station. This guarantees a joint view of the medication events and inpatient nursing services of a care unit.

You can also use this view type to manage the medication events of an outpatient clinic. In this case, the inpatient nursing services cannot be displayed or edited.

The following options for documenting medication events are available:

Selection Options
The following tab pages are available for selecting medication events:

Event Tab Page
On this tab page you can select, for example, according to the following criteria:
- Documenting OU (multiple selection): You can select the nursing OUs (care units). The work environment can also preset the OU if the corresponding checkbox is set.
- Administration route (multiple selection)
- Planned Date/Time From, Planned Date/Time To: You can use this criterion to select events according to your planned time, for example, from 01.01./15:00 to 02.01./03:00
- Display Ad Hoc Events: You can use this checkbox to display only ad hoc events.
- Event status: Only the statuses used in the Medication are available. As different external statuses can be maintained for each event type, you must indicate which status belongs to which event type (administration, dispensing, print prescription).

Order Tab Page
On this tab page you can select, for example, according to the following criteria:
- Ordering OU (multiple selection): You can select the nursing OUs. The work environment can also preset the OU if the corresponding checkbox is set.
- Validity Date/Time From, Validity Date/Time To: You can use this criterion to select orders according to their period of validity, e.g. from 01.01./15:00 to 02.01./03:00.
- Priority of orders
- Purpose of orders
- Order status: You can also restrict the events to be selected using the status of the assigned order.

**Patient Tab Page**

On this tab page you can select, for example, according to the following criteria:

- Patient (multiple selection): You can use this selection to select, for example, several patients from the Occupancy view and then call the Medication Events/Inpatient Nursing Services view. Alternatively, you can drag a patient to the view using Drag&Drop.
- Case (multiple selection): Same use as patient
- Room (multiple selection): This restriction is only sensible in connection with a selected care unit (inpatient OU). You can use this to implement a room-specific medication event documentation. You should note that selecting by room always refers to the actual occupancy situation of the corresponding care unit. It is not possible to view data concerning patients who were in the care unit in the past.

**Other Characteristics Tab Page**

On this tab page you can select, for example, according to the following criteria:

- Mnemonic (multiple selection): You can select mnemonics to be used to restrict the events.
- Fill source (multiple selection): The system displays the events restricted by fill source.
- Drug category (multiple selection): The system displays the events or their administrable drug restricted according to the drug categories.
- Display Psychotropic checkbox: If you set this indicator the system will only select events with a psychotropic drug as the administrable drug.

**Layout Selection**

You can find the fields for the medication events in the layout selection under the column groupings General Data, Patient Data, Order Data, Event Data, Drug Data and Order Profile Data.

The behavior of hot spots is oriented towards the existing view types Outpatient Clinic/Service Facility and Occupancy in the clinical work station.

**Function Selection**

General functions, which you can use regardless of whether you selected a patient, are also available in the function selection, for example, Previous Day, Next Day, Case Overview etc..

All functions relevant for event documentation are also available, for example:

- Administer
- Quick Administration
- Prepare Event
- Create Ad Hoc Event
The following functions used in connection with inpatient nursing services are also available:
- Create Document
- Create Transport Order
- Enter Vital Signs

The above-mentioned functions, selection possibilities, and the layout selection for medication-relevant information are only available if you have a license for the i.s.h.med Medication module.

Effects on Customizing
In order to be able to use this function you must activate the business function Clinical Solution i.s.h.med (ISHMED_MAIN).

See also
You can find further information on Medication and on the Medication Events/Inpatient Nursing Services view type, in relation to nursing services, in the release notes
- i.s.h.med Medication (New)
- Medication Event (New)
- Administration Functions for Medication Events (New)
- Medication Events/Inpatient Nursing Services View Type (New)

38.14.3.7 Integration of Medication in the Patient Organizer (New)

Use
As of SAP ECC Industry Extension Healthcare 6.0 a new Medication aspect is available in the patient organizer. In addition the medication orders are integrated into the time-specific aspects, e.g. Day, Month, Quarter.

Medication Aspect
In the Medication aspect the patient organizer displays the medication orders (orders) of the patient and the corresponding medication events (events) in the graphical display. For each order of the patient, the system displays the order description and the status of the order (in parentheses). The order description is composed of the drug name, the cycle, and the administration route. You can override the order description using the Business Add-In (BAdI) ISHMED_ME_ORDERDESCR.

The order status is used to color the order, e.g. white for saved orders, yellow for active orders, etc.. You should note that the aspect does not display ended and canceled orders.

To create orders in the Medication aspect, the Create Order function is available to the user.

The system displays the events of the order on the time axis adjacent to the corresponding order
according to the following rules:

- As the period the system selects the first day of an event of the displayed order. The last event is displayed as the last day.

- As long as the events have not yet been administered, the system displays the planned time and the ‘N’ icon. Once the event has been administered, the system will display the administration time and the ‘Y’ icon.

- Infusions: The system displays planned infusions with a green bar. Once the infusion has been administered and the total volume of the infusion documented, the system will display the infusion with a blue bar.

From this display the user can toggle directly to the display mode of the event. However, it is not possible to document administration here.

**Integration of Medication Order in a temporal Aspect**

The temporal aspects of the patient organizer can now also contain medication orders. The system will sort the orders in the display according to the creation time in the displayed data.

**Displayed Order Data:**

- Order description: Consists of drug name, cycle, and administration route. You can override the description with the BAdI ISHMED_ME_ORDERDESCR.

- Date: Creation date of order

- Time: Creation time of order

- OU: Ordering organizational unit

- EmR: Ordering employee

- Status: Status of order (hot spot for calling status history for this order)

- Case: Case number

- Supplementary description: Description of the order

**Functions Available for the Medication Order:**

- Hot spot on the order: Display print form of order or call the change mode of the order

- Create order: Call order dialog for creating one or more new orders

- Change order: Call order dialog for this order in change mode

- Display order: Call order dialog for this order in display mode

- Cancel order: Call cancellation dialog for this order

- Print order: Call detailed printout for this order

**Effects on Customizing**

In order to be able to use this function you must activate the business function Clinical Solution i.s.h.med (ISHMED_MAIN).

Assign the Medication aspect (aspect SAP40) to the relevant users. To do this you should use the new maintenance function for aspects in the patient organizer (transaction N2ASPECT_DEF).
See also

You can find further information on the Medication module and the medication orders and events in the release notes
- i.s.h.med Medication (New)
- Medication Order (New)
- Medication Event (New)

You can find further information on the maintenance of aspects in the release notes Patient Organizer: Maintenance Function of Aspects (New).

38.15 IS-HMED-CM          Extended Communication

38.15.1 Obsolete ABAP Objects (Deleted)

Use

As announced with Release 4.72, the following ABAP objects have been deleted with SAP ECC Industry Extension Healthcare 6.0.

- Function module ISH_N2_CREATE_DOC_FROM_ARCHIVE
  Use BAPI_MEDDOC_CREATE_LINK instead.
- Function module ISH_N2_MEDICAL_DOCUMENT_RFC
  Use the BAPIs of the Medical Document business object (transaction BAPI, function group 1400) instead.
- Function module ISH_N2_DOCUMENT_BASE_RFC
  Use the BAPIs of the Medical Document business object (transaction BAPI, function group 1400) instead.
- Report RN2GET03
  Use report RN2GET02.
- Authorization object N_2KDOK_OE was replaced by authorization object N_2MEDOK with Release 3.04. Delete all authorizations for N_2KDOK_OE.
38.15.2 End of Maintenance for Obsolete ABAP Objects

Use

The following ABAP objects are obsolete and will no longer be maintained as of SAP ECC Industry Extension Healthcare 6.0. Note, that these objects will not be available with the next release.

- Function module **ISH_N2_DOCUMENT_SELECT**
  If you have used the module to select documents without a dialog, you (parameter SS_DYNPRO = 'NO'), you should now use function module ISH_N2_MEDDOC_GETLIST.
  If you have used the module to select a document from a list of documents in the dialog (parameter SS_DYNPRO = SPACE / 'YES'), you should now use function module ISH_N2_DOC_F4_DOC.

- Function module **ISH_N2_MAP_BAPIRET_2_MESG**
  Use the static method CL_ISHMED_DOC_MAP=>BAPIRET_2_MESG instead.

- Function module **ISH_N2_MAP_VCODE_2_METHOD**
  Use the static method CL_ISHMED_DOC_MAP=>VCODE_2_METHOD instead.

- Function module **ISH_N2_MAP_DOCDATA_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATA_2_DVSDATA instead.

- Function method **ISH_N2_MAP_DOCDATAIN_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATAIN_2_DVSDATA instead.

- Function module **ISH_N2_MAP_DOCDATAX_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DOCDATAX_2_DVSDATA instead.

- Function module **ISH_N2_MAP_DRAW_ETC_2_DOCDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DRAW_ETC_2_DOCDATA instead.

- Function module **ISH_N2_MAP_DRAW_ETC_2_DVSDATA**
  Use the static method CL_ISHMED_DOC_MAP=>DRAW_ETC_2_DVSDATA instead.

38.15.3 BAPI_MEDDOC_CREATE_LINK (enhanced)

Use

As of SAP ECC Industry Extension Healthcare 6.0 you can create a version of a document.

Import parameter VERSION_CREATE must be set in the interface. In import structure DOCUMENTDATA_IN the complete document key (DOCUMENTTYPE, DOCUMENTNUMBER, DOCUMENTPART, DOCUMENTVERSION), from which a new version is to be created, must be given.
38.16 IS-HMED-PW Pathways

38.16.1 Treatment Pathways: Base Items (Enhanced)

Use

For SAP ECC Industry Extension Healthcare 6.0, the base items have been completely revised. They are now more effective, more flexible, and are used in several components, such as Pathways and SAP Ambulatory Care Management.

As part of the revision, the following changes have been made:

- No Document List for Document base item type
  The Display Document List action has been removed from the Document base item type. The document list is no longer supported, as described in the Document List (Modified) release note.

- Availability of new base item types
  A range of new base item types are possible with the availability of SAP ECC Industry Extension Healthcare 6.0. You can find more information about this point in the Base Items (Enhanced) release note.

- BAdI type base item distributed to several base item types
  The BAdI type base item has been distributed to the Transaction and Treatment Pathway type base items for user field actions N2_DO_TCODE and N2_DO_ASSIGN which were delivered with Release 4.72.

- Revision of system administration
  System administration (transaction N2GD) has been revised for the processing of base items. The maintenance screens for the different base item types have been revised and standardized. The navigation tree with all base items has been enhanced with a grouping level. In addition to a grouping according to the base item type, the user can create their own grouping characteristic.
  The test function for base items has been removed. To test the correctness of a base item, you can assign a base item with status inactive to a treatment pathway on a client with a Test role. When you activate the treatment pathway, the system checks whether all assigned base items have an active status.

- Graphic input help for base items
  The input help for base items now allows selection which takes into account groups which exist in
system administration. The display borders the system administration navigation tree.

- No user-defined Smart Form templates for base items
  You can no longer define your own Smart Forms as a template for printing or for screen display. Templates for printing and the screen view are available for the **BAdI, Document, Request, Transaction** and **Treatment Pathway** type base items.

**Effects on Data Transfer**

Base items which were created under Release 4.72 are migrated for an upgrade with the XPRA RN2UX_600_PW_BASEITEMS.

The results of base items which were created under Release 4.72 are migrated for an upgrade with the XPRA RN2UX_600_PW_RESULTS.

**Effects on Customizing**

To use this function you have to activate the **Clinical Solution i.s.h.med (ISHMED_MAIN)** business function.

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### 38.16.2 Treatment Pathways: Base Item BAdIs (Modified)

**Use**

For **SAP ECC Industry Extension Healthcare 6.0**, the interfaces of base item BAdIs and their technology has been changed.

- Changeover to new BAdI technology
  The BAdIs implemented for Release 4.72 have been converted from classic BAdIs to BAdIs within the enhancement framework.
  You can normally migrate the created implementation without any problems. You can find more information about this in the documentation for the **Enhancement Framework**.

- Change to BAdI of the **Document** base item type
  The interface of the BAdI BADI_ISHMED_BASEITEM_DOCUMENT (old ISHMED_GL_ACT_DOC) has been equipped with methods which can be executed before and after the initial or repeated execution of the base item.
  Data transfer now occurs primarily using the context. The previous parameters are however still supplied. You can find more about the context in the IF_EX_ISHMED_GL_ACT_DOC and IF_ISHMED_GENERAL_CTX interfaces.

- Change to BAdI of the **Request** base item type
  The interface of the BAdI BADI_ISHMED_BIX_REQUEST (old ISHMED_GL_ACT_REQ) has been equipped with methods which can be executed before and after the initial or repeated execution of the base item.
  Data transfer now occurs primarily using the context. The previous parameters are however still supplied. You can find more about the context in the IF_EX_ISHMED_GL_ACT_REQ and
IF_ISHMED_GENERAL_CTX interfaces.

- Change to BAdI of the *Form Printing* base item type
  The interfaces of the BAdI in the ES_ISH_BASEITEM_PRINT enhancement spot have been equipped with methods which can be executed before and after the initial or repeated execution of the base item.
  Data transfer now occurs primarily using the context. The previous parameters are however still supplied. You can find more about the context in the interfaces of the BAdI and IF_ISHMED_GENERAL_CTX.

- Change to BAdI of *BAdI* base item type
  The interface of the BAdI BADI_ISHMED_GL_ACT_BADI (old ISHMED_GL_ACT_BADI) has been equipped with methods which can be executed before and after the initial or repeated execution of the base item.
  Data transfer now occurs primarily using the context. The previous parameters are still supplied. You can find more about the context in the IF_EX_ISHMED_GL_ACT_BADI and IF_ISHMED_GENERAL_CTX interfaces.

**Effects on Customizing**

To use this function you have to activate the *Clinical Solution i.s.h.med (ISHMED_MAIN)* business function.

**38.16.3 Treatment Pathways (Enhanced)**

**Use**

As of *SAP ECC Industry Extension Healthcare 6.0*, the Pathways module features some new enhancements.

- **Treatment Pause item type**
  A new item type is available in pathways which allows the modeling of treatment interruptions for an unspecified time, e.g. the unplannable period between preadmission and inpatient treatment.
  The system initially only calculates the planning data of a pathway up to the pause item; after the completion of all steps, the system will not display any further open steps to the user. If the patient is admitted to a care unit, it will be clear that an inactive pathway exists; by processing the pause item the system calculates the further steps of the pathway.

- **Insert module**
  Modules are treatment pathways which can be inserted into other treatment pathways as copies. You are therefore able to define standard sequences of processing steps and quickly transfer them into the treatment pathways.

- **Copy item**
  Within the treatment pathway being processed, you can copy items of the action, decision and
patient merge type. The system does not however not copy the connectors.

- New version of graphic editor
To model pathways with the graphic editor, you have to use editor version 1.1.0. This version cannot be delivered directly but it is ready for download on the FTP server of the GSD. Availability via the i.s.h.med Web site and the GSD Web site is currently being prepared. If you should require the new editor version but cannot find it on the Web site, contact Friedrich König and quote your license key for i.s.h.med PATHWAYS, GSD (mail: fkoenig@gsd-berlin.de Tel. 0049 (0)30-38370276). We will then transfer the access data for the FTP server to you.

- Enhanced base item type
A few new base item types are available for use in i.s.h.med PATHWAYS. In addition, technical adjustments have been made which can influence the function of your implemented pathways. For more information, read the release notes for
- Base Items (Enhanced)
- Treatment Pathway: Base Items (Enhanced)
- Treatment Pathways: Base Item BADIs (Modified)

- Treatment pathways in the patient organizer
In the patient organizer, the system displays patient pathways (treatment pathways assigned to the patient) in suitable aspects under the new treatment pathway structure node. A detail view in the patient organizer is not possible, you can however open the processing dialog for patient pathways by clicking on a patient pathway and then edit the selected pathway. You can use selection report RN1PATORG_PATHWAY to select treatment pathways using criteria for the names of treatment pathways and to display them in different nodes in the patient organizer. This enables you to display treatment pathways for preventative programs separately in the patient organizer. If you wish to execute vaccination programs for example, you can create treatment pathways for them. To display these treatment pathways in a different node to the treatment pathway that you use every day (e.g. outpatient admission), use selection report RN1PATORG_PATHWAY.
You should note that you have to differentiate between the treatment pathways by using the appropriate nomenclature. This nomenclature ensures that you can select the preventative programs in selection report RN1PATORG_PATHWAY.
To display patient pathways in the patient organizer, read the Patient Organizer: Integration of Treatment Pathways (New)

Effects on Customizing
To use base item types within the Pathways module, you have to activate the Clinical Solution i.s.h.med (ISHMED_MAIN) business function.