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SAP® ERP HCM Processes and Forms
Contents at a Glance

1  HCM Processes and Forms: A Guided Tour ............................................. 21
2  Building Blocks of HCM Processes and Forms .................................. 33
3  Integrating HCM Processes and Forms into Business Processes .......... 49
4  HCM Processes and Forms Projects ..................................................... 63
5  Getting Started .................................................................................. 73
6  Process Design .................................................................................. 97
7  Designing Adobe Forms ................................................................. 169
8  Designing FPM Forms ...................................................................... 199
9  Workflow in HCM Processes and Forms ............................................ 225
10 User Interface Integration ................................................................. 257
11 Securing Your HCM Processes and Forms ....................................... 285
12 HCM Processes and Forms Administration ....................................... 297
13 Other Use Cases for HCM Processes and Forms ................................ 309
14 Resources ......................................................................................... 321
A  SAP Delivered Example Forms ......................................................... 329
B  Generic Services ................................................................................. 333
C  The Authors ...................................................................................... 335
Contents

Acknowledgments ........................................................................................................... 15
Introduction ...................................................................................................................... 17

1 HCM Processes and Forms: A Guided Tour ............................................................... 21

1.1 The Origin of HCM Processes and Forms ............................................................. 21
  1.1.1 Personnel Change Requests ............................................................................ 21
  1.1.2 The Move to HCM Processes and Forms ...................................................... 22

1.2 Description of an HCM Process ............................................................................ 23

1.3 Process Initiation .................................................................................................... 24
  1.3.1 Employee Self-Service (ESS) ......................................................................... 24
  1.3.2 Manager Self-Service (MSS) ......................................................................... 25
  1.3.3 HR Administrator (HRA) ............................................................................. 26
  1.3.4 Exchange Infrastructure (XI) Initiation ......................................................... 27

1.4 Form Validation ....................................................................................................... 27

1.5 Workflow ................................................................................................................ 28
  1.5.1 Agent Determination and Routing .................................................................. 28

1.6 Approvals ................................................................................................................ 29

1.7 Backend Updates ................................................................................................... 30

1.8 Process Tracking .................................................................................................... 31

1.9 Summary ................................................................................................................ 32

2 Building Blocks of HCM Processes and Forms ......................................................... 33

2.1 Overview ................................................................................................................ 33

2.2 Processes ................................................................................................................ 34
  2.2.1 Process Customizing ....................................................................................... 35
  2.2.2 Process Structure ............................................................................................ 36

2.3 Scenarios ................................................................................................................ 37
  2.3.1 Scenario Steps ................................................................................................ 38

2.4 Forms ...................................................................................................................... 39
  2.4.1 Adobe Interactive Forms ................................................................................ 41
  2.4.2 FPM Forms .................................................................................................... 41
  2.4.3 Which Form Should We Use? ....................................................................... 43

2.5 Workflow ................................................................................................................ 44
2.6 Backend Services ................................................................. 45
  2.6.1 Delivered Backend Services ........................................ 45
  2.6.2 Generic Services ............................................................ 47
2.7 Summary ................................................................................ 48

3 Integrating HCM Processes and Forms into Business Processes ........................................ 49

  3.1 Business Objectives .............................................................. 49
    3.1.1 Process Efficiency ........................................................ 50
    3.1.2 Recasting HR: Paper Pusher to Business Partner .......... 50
    3.1.3 Data Quality ............................................................... 50
    3.1.4 Process Consistency .................................................... 50
    3.1.5 Clarity ....................................................................... 51
  3.2 Barriers to Use of HCM Processes and Forms .......................... 51
    3.2.1 Manager Impatience with HR .................................... 51
    3.2.2 The Legacy of Paper-Based Processes ....................... 51
    3.2.3 HR Administrators as Gatekeepers .............................. 52
  3.3 Design Guidelines for Overcoming Obstacles .......................... 53
    3.3.1 80/20 Rule ................................................................. 53
    3.3.2 Have a Safety Valve ................................................... 54
    3.3.3 KICS – Keep It Consistent, Stupid .............................. 55
    3.3.4 Simplify Language on Forms ..................................... 56
    3.3.5 Provide the Right Level of Help Text ............................ 56
  3.4 Interaction with Existing Dynamic Actions .............................. 57
    3.4.1 Limitations of Dynamic Actions ................................. 58
    3.4.2 Current Landscape ..................................................... 58
    3.4.3 The Alternative to Dynamic Actions ............................ 59
    3.4.4 Options for Dealing with Existing Dynamic Actions ...... 60
    3.4.5 Migrating to the Decoupled Framework ...................... 61
  3.5 Summary ................................................................................ 62

4 HCM Processes and Forms Projects ............................................. 63

  4.1 Considerations before Starting HCM Processes and Forms Projects ........................................ 63
    4.1.1 ASAP Methodology: Great for Payroll, Not Forms .......... 63
    4.1.2 Why HCM Processes and Projects Are Different .......... 64
4.2 High-Level Project Plan ............................................................... 64
  4.2.1 Project Preparation ........................................................ 64
  4.2.2 Blueprint/Realization and Feedback Loops ..................... 66
4.3 Testing .................................................................................... 69
4.4 Piloting ................................................................................... 70
  4.4.1 Benefits of a Piloting Phase ............................................ 71
  4.4.2 Considerations for a pilot project ................................. 71
4.5 Rollout and Go-Live Support ....................................................... 71
  4.5.1 The “Hypercare” Window .............................................. 72
4.6 Summary .................................................................................... 72

5 Getting Started ......................................................................... 73
  5.1 Overview .................................................................................... 73
  5.2 New Client Setup ........................................................................ 74
    5.2.1 Business Functions ......................................................... 74
    5.2.2 User Interface Activation ................................................ 76
    5.2.3 Reference Number Ranges ............................................. 77
  5.3 Records Management/Case Management Setup .......................... 79
    5.3.1 Records Management .................................................... 80
    5.3.2 Case Management ........................................................ 81
  5.4 Process Status Setup ................................................................... 84
  5.5 Workflow Setup .......................................................................... 86
    5.5.1 Cross-Process Workflow Event Linkage Activation .......... 86
    5.5.2 Setting HCM Processes and Forms–Specific Tasks as
          General .......................................................................... 89
  5.6 Sample Processes ........................................................................ 91
  5.7 Summary .................................................................................... 94

6 Process Design .......................................................................... 97
  6.1 Overview .................................................................................... 97
  6.2 Initial Process Configuration Steps .............................................. 98
    6.2.1 Process Validity .............................................................. 100
    6.2.2 Processes for Multiple Employees ................................. 103
    6.2.3 Workflow Template Assignment .................................... 104
    6.2.4 Process Initiator Roles .................................................... 105
    6.2.5 Process Groups ............................................................. 107
Contents

9 Workflow in HCM Processes and Forms .............................................. 225

9.1 Workflow Background .................................................................. 225
9.1.1 Benefits of SAP Business Workflow ..................................... 226
9.1.2 Basic Workflow Concepts ..................................................... 228
9.2 Workflow in HCM Processes and Forms ...................................... 231
9.2.1 HCM Processes and Forms Workflow Parameters ............... 232
9.2.2 Delivered SAP Tasks for HCM Processes and Forms .......... 238
9.2.3 Workflow Templates ............................................................ 244
9.2.4 Agents in HCM Processes and Forms ................................. 251
9.2.5 Relationship between Workflow And Processes ............... 255
9.3 Summary .................................................................................... 256

10 User Interface Integration ........................................................... 257

10.1 Available Options for HCM Processes and Forms UI ............... 258
10.1.1 Roles within the SAP NetWeaver Portal ............................. 258
10.1.2 Roles within the SAP NetWeaver Business Client .............. 260
10.2 Enhancement Package 4 ............................................................ 261
10.2.1 The “Magic” of the Start Application ................................. 262
10.2.2 Employee Self-Service (ESS) ............................................. 264
10.2.3 Manager Self-Service ....................................................... 267
10.2.4 HR Administrator ............................................................ 268
10.3 Enhancement Package 5 ............................................................ 271
10.3.1 Web Dynpro for ABAP Employee Self-Service Role ........... 272
10.3.2 Embedded Org Chart Visualization .................................... 273
10.3.3 Manager Self-Service Add-On ......................................... 275
10.4 Enhancement Package 6 and HR Renewal 1.0 ............................ 276
10.5 Inbox Options ............................................................................ 276
10.5.1 Universal Worklist (UWL) ............................................... 277
10.5.2 POWL Inbox .................................................................. 279
10.6 A Tale of Two Start Applications .............................................. 280
10.6.1 ASR_PROCESS_EXECUTE_FPM ..................................... 280
10.6.2 ASR_PROCESS_EXECUTE_OVP ..................................... 282
10.7 Summary .................................................................................... 283
11 Securing Your HCM Processes and Forms ................................. 285

11.1 Introduction ........................................................................... 285
11.2 Your Starting Point—Example Delivered Roles ......................... 286
  11.2.1 Considerations for Using SAP-Delivered Roles .................... 286
11.3 Designating Use of New Authorization Methods ......................... 287
  11.3.1 Options for Designation of Authorization Methods .............. 287
  11.3.2 Designating Use of New Authorization Globally ............... 287
11.4 New Authorization Object P_ASRCONT ..................................... 288
  11.4.1 Content Groups .............................................................. 289
  11.4.2 Setting Up Process Groups and Scenario Groups ............. 291
  11.4.3 Attachment Types .......................................................... 293
11.5 New HR Forms Authorizations: To Use or Not To Use? .............. 293
11.6 Alternative Authorization Method: HRASR00AUTH_CHECK
  BADI .......................................................................................... 294
11.7 Guidelines for Use of HCM Forms Authorizations ....................... 294
  11.7.1 Start by Asking Questions during Blueprinting ................ 295
11.8 Recommendations .................................................................... 295
11.9 Summary ................................................................................... 296

12 HCM Processes and Forms Administration .............................. 297

12.1 SAP Case Management (Transaction “SCASE”) ......................... 297
  12.1.1 Anatomy of SCASE ......................................................... 298
  12.1.2 Case Searching and Viewing Results ............................... 299
  12.1.3 History Section ............................................................... 305
12.2 Records Management (Transaction ORGANIZER) ....................... 305
12.3 Other Administrative Tools ....................................................... 307
  12.3.1 Workflow Troubleshooting: Work Item Analysis ............. 307
  12.3.2 HR Administrator’s Workbench ...................................... 307
12.4 Summary ................................................................................... 308

13 Other Use Cases for HCM Processes and Forms .......................... 309

13.1 Multilingual Forms .................................................................. 309
  13.1.1 Implementation Impacts .................................................. 310
  13.1.2 HCM Processes and Forms Translation How-To ............... 311
13.2 Delivering HCM Processes and Forms to Mobile Devices .......... 317
Now that we have briefly reviewed the capabilities of the HCM Processes and Forms toolset, it makes sense to spend some time describing the business objectives to be met with the toolset and some design guidelines to meet these objectives.

3 Integrating HCM Processes and Forms into Business Processes

This chapter delves into the business objectives to be met by HCM Processes and Forms and how the right design can make the difference between achieving business objectives and falling short. As discussed in the previous chapter, HCM Processes and Forms is a toolset of rich functionality that enables collaboration between employees, managers, and HR administrators in HR processes. However, just having the right toolset is not enough. Your processes must be designed to fit within the cultural, technical, and resource restrictions of your organization.

In this chapter, you'll learn about the business objectives, common barriers that stand in the way of your objectives, and how to design to overcome the barriers. We'll also take time to discuss a special design consideration, Dynamic Actions, and how their existence impacts the overall picture of HCM form design.

3.1 Business Objectives

Organizations often undertake an HCM Processes and Forms implementation under the banner of “modernization.” Moving work online has become an obvious tactic for improving HR operations. But modernization is not in and of itself a business objective. Below is our summary of the real business objectives that can and should be achieved by an HCM Processes and Forms project (in order of priority).
3.1.1 Process Efficiency

Organizations are in constant pursuit of increased speed of data processing. Getting an employee on-boarded or their promotion completed in a timely manner is an obvious business imperative. This can pose a challenge for some organizations, especially those still tied to paper-based processes. The other aspect of process efficiency is the idea of taking less time from administrative staff, which ultimately results in labor cost savings.

3.1.2 Recasting HR: Paper Pusher to Business Partner

A less obvious but in our view more important benefit of process automation freeing up HR time is the opportunity to pursue more strategic agenda items. For decades HR was too busy just managing payroll and benefits to think about doing anything else. Now, HR is slowly shedding its image as a collection of “payroll trolls.” This is being replaced with image of HR as a capable partner to core business operations. Freed of the responsibilities of intensively manual paper processes, HR can devote time to its core purpose: ensuring that the organization’s workforce is capable of supporting the strategic objectives of the business.

3.1.3 Data Quality

Capturing the transaction at the source reduces the opportunity for the data to be mistranslated. Any child who has played the classic game of telephone understands that the more times a message is related, the more opportunities there are for the message to change. The cost of bad data quality can range from the low end of simple rework and off-cycle paychecks all the way to losing a key employee once he discovers that he has been underpaid for a year.

3.1.4 Process Consistency

The purpose of approvals is to ensure that company policies are being followed with respect to the decisions made by managers. As many organizations can attest, the lack of consistency in pay/promotion practices can be the basis of litigation or fines from government agencies. In the United States, pay equity is becoming an increased point of emphasis for the Office of Federal Contract Compliance Programs, which has regulatory power over most U.S. companies running SAP systems.
### 3.1.5 Clarity

The HCM Processes and Forms toolset also provides views that allow all participants to know where a given transaction is within the process. This clarity has several benefits:

- Provides comfort on the part of the initiator that the process is on track
- Prevents unresponsive participants within the process to blame missing paperwork and so on to mask their own lack of diligence
- Increases process measurability overall to allow for tracking of progress over time

### 3.2 Barriers to Use of HCM Processes and Forms

As some companies can attest, the above objectives can sometimes go unmet. As SAP practitioners, we can state without hesitation that achieving the objectives of HCM Processes and Forms implementations is often more challenging than other SAP HR projects. Now that we have looked at the key business objectives, let’s look at some of the most common barriers we have encountered during HCM Processes and Forms implementations and some approaches to overcome these barriers.

#### 3.2.1 Manager Impatience with HR

One observation to be made by anyone who has worked in a large organization is that managers typically have little time or patience for any task that they see as not central to their operational goals. This is often the case with personnel transactions. Managers are notorious for having little patience to fill in forms. HR groups can often lack the clout necessary to get managers to try out the new forms.

#### 3.2.2 The Legacy of Paper-Based Processes

The efficient flow of personnel transaction requests has been a goal of HR systems since before the onset of computers. However, until the advent of web-enabled systems, paper-based processes ruled the day. Consider a typical example:

- Manager dictates to his secretary a request to give a subordinate a raise.
- The administrative assistant types up the request.
Through intra-office mail or fax, the request goes to the administrative assistant of the manager's boss. That boss signs the request and, for good measure, tells the administrative assistant to walk over to the accountant's office to get another signature. The request is sent to the payroll department, again through intra-office mail or fax. The change is added to the ledger or mainframe to be reflected in the next payroll run.

It is easy to see the inefficiency and points of failure of the above example:

- Slow speed of intra-office mail
- Risk of inaccurate dictation
- Ability of paper to become lost
- No proactive ability to enforce business rules, ensuring that the raise amount or number of approvals meets with company policies

What is less apparent are the advantages that the paper-based process enjoys. Paper-based processes are flexible: If an extra approval needs to be added to the process, no programming is required—just more footwork on the part of the administrator. Moreover, one division/location of a company can readily deploy a different approval process from the rest of the organization at the whim of the head of said division. The lasting legacy is that that the current generation of company leaders became first-time managers when the idea of standardized processes was not the norm, and therefore those leaders are used to this level of flexibility.

### 3.2.3 HR Administrators as Gatekeepers

For individuals who see serving as gatekeeper for individual processes as their primary avenue for adding value to the organization, an implementation of HCM Processes and Forms can be threatening. When properly implemented, HCM Processes and Forms can systemize company policy, reducing the role for HR administrator discretion on an individual transaction basis. In our experience, threatened HR administrators often share their concerns with the line managers they support, which bolsters any existing resistance on the part of the line managers.
3.3  Design Guidelines for Overcoming Obstacles

This section describes elements to include within your design to increase your chances of success. Please note that these are elements of the end-state design. In Chapter 4 we will discuss techniques for the project itself that also aid in overcoming obstacles.

3.3.1  80/20 Rule

The definition of the 80/20 rule is that 20% of scenarios yield 80% percent of the volume (Figure 3.1). In the case of HCM Processes and Forms, the percentage may actually be more like 90/10. The problems occur when the design team attempts to make input forms handle all possible exceptions within scenarios. This results in two major issues:

- Form design becomes much more complex. Complexity results in more development time, more latent bugs, and increased time to test.
- Form complexity reduces usability and therefore decreases adoption.

![Figure 3.1 80-20 Rule](image)

Having the design team understand this concept can be very difficult in some circumstances. Forms projects are typically funded out of HR. Because of this, the team can feel obligated to ensure that the HR needs are served by providing automated solutions to unique scenarios. This is further exacerbated by the fact that the person whose life would be made easier by instituting the automation may be sitting in on the design decision meeting. It is often difficult make the case to
that person that saving him a few hours a week may not outweigh the long-term company-wide cost of overall decreased flexibility and reduced usability.

### 3.3.2 Have a Safety Valve

The corollary to enforcing the 80/20 rule is that the design must provide a simple way to handle the exceptions—a “safety valve,” a way to handle the other 20% of transactions that do not fit the pattern. The options for the safety valve are as follows.

**Option 1: Handle Exceptions Outside of the HCM Processes and Forms Environment**

It should be made clear at the outset of the design process that the objective should not be to handle all business processes through HCM Processes and Forms. In our experience most companies simply do not find it practical to use a forms-based approach for company reorganizations or mass promotions in conjunction with the annual merit process.

It can also be prudent to handle other exceptions outside of HCM Processes and Forms. Possible criteria for this approach are:

- Some of the data required for the business rules resides outside of the SAP HCM environment.
- The business rules change often.
- The business rules are localized.
- The change occurs infrequently, so it is impractical to invest in automation.

In this scenario, it may make sense to have the initiator of the change email directly to an administrative specialist, who then inputs the required change via PA30/PA40. In those cases, use of the document upload capability within PA30 can provide the necessary audit trail.

**Option 2: Create a Follow-Up Step within the HCM Process**

Consider the scenario where the initiator of the process is a line manager. In this scenario 90% of the time, the change can go straight through based on the user's input. However, in 10% of the scenarios additional follow-up is required. An additional conditional step can be added within the workflow to cause the form
that would otherwise automatically become activated in the system to stop with an HR administrator. The HR administrator would then apply the more complex business rules or insight. The change could then either be input into the form or manually input into SAP HR.

### 3.3.3 KICS – Keep It Consistent, Stupid

The phrase “Keep it simple, stupid,” or KISS, has been a design principle for a number of years. In our experience a more important acronym on many projects may be KICS, or “Keep it consistent, stupid.” In many organizations the approvals process and business rules can vary widely from one part of the organization to another. Sometimes the change is for a legitimate purpose; the approvals process in place for promotions for a manager in charge of a group of engineers may legitimately differ from those for a convenience store manager giving promotions to clerks. However, in our experience, often, the primary variance can be because Joe is in charge of division A and he likes to approve every last dime, while Sue is in charge of division B and she believes more in empowerment.

Variations in processes present significant challenges. On a technical level, maintaining multiple versions of forms for different areas of the company increases code complexity. On a support level, differing job aids may have to be written, maintained, and presented to the user depending on location.

#### Combating Unnecessary Inconsistency

The most effective way to combat unnecessary inconsistency, in our experience, is the top-down approach. If your project can influence executive leadership to mandate “one company, one process,” the issue can be quickly resolved. But often the cause of the inconsistency is that two leaders of different business units differ in philosophy, and the HR group often lacks the necessary clout to influence the top level of management to champion consistency. It is at this point that a data-driven argument can carry the day. We have found that pulling together the following information can aid in conversations with higher-level managers:

- Incremental development costs due to complexity
- Higher support costs due to complexity
- Higher effort for testing due to complexity
To combat the need for numerous levels of approvals, the team should rightly be able to argue that the new HCM process provides increased visibility to the employee transactions within the company. Reports and notifications can be delivered to organizational leaders to keep them apprised of the activity within their area. The team should not be shy about promising liberal notifications. Notifications are fairly easy to develop and are much less effort to support and to test.

### 3.3.4 Simplify Language on Forms

HR users who work with the SAP system on a daily basis can lose sight of the fact that much of the description and labeling that come with the product is less than intuitive to uninitiated users. *Employee group* and *personnel area* do not have the same connotation to a line manager, and it is unreasonable to expect a line manager to take the time to learn what these and other HR-specific terms mean. Table 3.1 lists some key SAP terms and how these can be translated into terms that a manager can more readily comprehend. Note that since the use of the SAP values are unique at each client’s organization, the table is provided as an example only.

<table>
<thead>
<tr>
<th>SAP Term</th>
<th>Translation For Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee group</td>
<td>Full time/part time</td>
</tr>
<tr>
<td>Personnel area</td>
<td>Work location</td>
</tr>
<tr>
<td>Organizational unit</td>
<td>Department</td>
</tr>
<tr>
<td>Pay scale</td>
<td>Pay level</td>
</tr>
</tbody>
</table>

*Table 3.1*  Translations for Common SAP Terms

### 3.3.5 Provide the Right Level of Help Text

If the HCM Processes and Forms are delivered through the SAP portal, numerous opportunities exist to integrate content. Depending on design, content can be added above, below, left, and right of the HCM forms windows (we will discuss the portal in greater detail in Chapter 10). Given the capabilities, well-meaning HR designers can become overzealous in providing help text to managers. Figure 3.2 shows what can happen when content creation goes too far. The result is a page that can be overwhelming to the manager, which will reduce the adoption of the forms.
Recognizing the Limitations of What Can Be Expected from Line Managers: The Water Bill Test

It is our experience that if providing extensive guidance to managers is required, then there is an issue with design. Either the instructions are being “over-explained” or the form itself is too complex. If the issue is the former, working with a focus group should help fine-tune the guidance. If the problem is the latter, some design elements may need to be rethought. It is at this point that we would introduce an effective test for form design: the water bill test. On average, a manager will fill in an HR form once a month and expects to spend five minutes or less doing so. This is on par with the frequency and amount of time most people spend reviewing and paying their water bill. Therefore, a good rule of thumb is that your form should be no more complex than a water bill.

3.4 Interaction with Existing Dynamic Actions

At this point we need to shift gears to address an important design issue that deals with backend processing rather than frontend design. Since the earliest versions of
SAP HR, SAP has provided a toolset called Dynamic Actions. The purpose of Dynamic Actions was to provide a way to automate the processing of one infotype based on the values of another. Dynamic Actions were widely adopted in HR implementations in large part because users could make updates without programming knowledge. For example, a user can use a Dynamic Action entry to automatically create a new home work tax area entry when an employee's home address changes. We will review the limitations of using Dynamic Actions, the alternatives and options for working with existing Dynamic Actions, and how to conduct dual maintenance and utilize the decoupled infotype framework.

### 3.4.1 Limitations of Dynamic Actions

In earlier versions of SAP HR, there were fundamentally only two ways to make employee data updates: having a live user making updates through the Windows graphical user interface (GUI) or through a background process. It was widely understood that live user sessions used Dynamic Actions, while background processing did not use Dynamic Actions.

As SAP began to add new methods for making updates to employee data such as Employee Self-Service (ESS) and Manager Self-Service (MSS), they made the conscious decision to limit the use of Dynamic Actions to only foreground processing through the Windows GUI. They did not relent on this restriction when HCM Processes and Forms was created; Dynamic Actions are not called within HCM Processes and Forms.

The reason for this limitation is that Dynamic Actions are built into the core of the personnel maintenance transaction (PA30) itself. Dynamic Actions were created before all of today's current user interface possibilities were imagined. Figure 3.3 shows how in this model the business logic is buried within the user interface. That's not good.

### 3.4.2 Current Landscape

While the fact that Dynamic Actions were not accessible outside of the Windows GUI was documented in some of the SAP materials, this limitation was not widely disseminated within the SAP community. Therefore, the reliance on Dynamic Actions has continued unabated.
When we visit clients looking to implement HCM Processes and Forms, we seldom encounter clients that are not heavily relying on Dynamic Actions as part of their processing. Our clients are almost always surprised that their investment in Dynamic Actions does not translate into HCM Processes and Forms.

### The Future of Dynamic Actions

As of the time of this writing, there is no official word from SAP about an alternative to Dynamic Actions that can be utilized within HCM Processes and Forms. However, from discussions we have had with SAP, they are aware of the dilemma faced by many customers and are working on a long-term solution. Stay tuned.

### 3.4.3 The Alternative to Dynamic Actions

SAP has delivered a new approach for handling dynamic logic using something called the decoupled infotype framework. The idea behind the decoupled infotype framework is that the business logic should be the same regardless of the user interface, as illustrated in Figure 3.4.

While a detailed discussion of implementation of the decoupled infotype framework is beyond the scope of this book, we will attempt to provide a summary of the concepts and skill sets required.

![PA30 Logic Diagram](image-url)
Integrating HCM Processes and Forms into Business Processes

What It Is

The decoupled infotype framework enables the company to implement specialized processing utilizing ABAP classes. The benefit of classes is that they are designed to handle simple or complex logic. If the organization employs a standard SAP system, the methods can be left as-is. However, where necessary, the organization can override the logic provided by SAP with their own. And the decoupled infotype framework can be called from all existing user interfaces: Windows GUI, ESS, MSS, and most important for us, HCM Processes and Forms.

3.4.4 Options for Dealing with Existing Dynamic Actions

Existing Dynamic Actions embody key processing logic and therefore need to be accounted for as part of the HCM Processes and Forms implementation. The following are the options for dealing with Dynamic Actions.

Dual Maintenance

In this approach, if a requirement relates to both HCM Processes and Forms and traditional transactions, both the Dynamic Actions table and the decoupled infotype framework are simultaneously maintained. The benefit of this approach is that the short-term risk to current GUI-based processes is mitigated, as there is minimal change to the way current transactions behave. The obvious downside is that it locks the support team into maintaining business logic in two different ways in
different locations. This doubles testing requirements and increases the possibility of inconsistent results.

**Calling Dynamic Actions from the Decoupled Infotype Framework**

This approach is the “have your cake and eat it too” approach. The development is created to call the Dynamic Actions table within the decoupled infotype framework. While this idea is promising in concept, in reality it is problematic. The standard decoupled framework enables companies to use the framework on the infotypes only where it is necessary to do so. In order to ensure that the Dynamic Actions table is called in all cases, this requires a customer-specific decoupled infotype class to be called for all infotypes, which is often impractical.

### 3.4.5 Migrating to the Decoupled Framework

Our recommended approach is to migrate away from Dynamic Actions and on to the decoupled infotype framework. For existing clients, this is a major undertaking. Therefore, we recommend a phased approach for migration:

- **Phase 0**
  - If new infotype requirements are identified, they should utilize the new framework.

- **Phase 1**
  - Migrate infotypes directly updated through ESS to use the decoupled infotype framework.
    - Address (IT6)
    - Personal Data (IT2)
    - Bank Details (IT9)
    - Work Tax (210)-US

- **Phase 2**
  - Transition all remaining infotypes aside from IT0 (Actions) or IT1 (Organizational Assignment).

- **Phase 3**
  - Migration of Infotypes IT0 and IT1.

Migrating away from Dynamic Actions is a little like updating a plumbing system. Doing the work can be time-consuming, with little immediate positive feedback. However, over time your outcomes will be improved.
3.5 Summary

In this chapter, we discussed business objectives, common barriers that stand in the way of your objectives, and how to design to overcome the barriers to an HCM Processes and Forms implementation. Some take-aways for this chapter should be the following:

- A well-designed HCM Processes and Forms project should always begin with an acknowledgment that managers view HR processes with skepticism. The impact should be that additional effort is expended to ensure that the forms are intuitive.

- Aiming for a consistent process design is perhaps the most important step in the development of HCM Processes and Forms. This can often be one of the most difficult challenges facing any implementation. Consistency requires that the group work toward a design that can result in process and culture changes within areas of the company. This type of change can be one the most difficult within the organization, particularly if some parts of the organization have come to be part of the whole through an acquisition.

- The design time should be heavily biased toward consistency. However, there can be valid reasons for handling the same business processes differently.

- It is essential to provide the right level of help to managers while they are filling in HR transactions. Too little help can leave managers feeling isolated. Too much help can overwhelm the manager and make him seek ways to avoid completing the form.

- Dynamic Actions present unique challenges to project teams because they are typically already embedded in the HR design. Because they are a form of business logic and they are not accessible for form processing, the team must determine how to handle them. We recommend migrating away from Dynamic Actions toward business logic accessible from both HCM Processes and Forms and legacy HR business processing.

Now that we have talked about process design, in the next chapter we will talk about how to actually formulate your design and implement it through a well-planned project.
Index

A

Access, 192
Action menu item, 220
Activity, 230
Additional information links, 197, 313
Administrative group, 253
Administrative services, 1, 34
Adobe Designer, 315
Adobe Document Services, 41, 76, 77
Adobe Forms, 319
Adobe Interactive Forms, 5, 22, 36, 39, 41, 169
Adobe Livecycle Designer, 139, 170, 172, 185
Data and hierarchy view, 171
Data binding, 181
Data View palette, 172, 183
Default binding, 182
Events, 186
FormCalc, 185
Form design area, 177
Form design view, 171
Hierarchy palette, 172
Linking data to the form, 178
Menu bar/toolbar, 171
Object library, 171
Object Library, 174
Object palette, 171, 174
Object palette, 182, 183
Script Editor, 171, 185
Subforms, 194
Agent determination, 28
Agentfinder, 251
Agents, 231, 247, 251
Alignment, 215
Alignment, 220
Anchor, 80, 81
Anchor number, 114
Application type, 103
APPLICATION_TYPE, 280, 282
approvals, 29
Approvals with edit capability, 242
Approve form, 239
ASAP, 63, 68
ASR
ASRERRAGENTS, 254
ASR_EXECUTE_3_STEP, 281
ASR_EXECUTE_4_STEP, 281
ASR_EXECUTE_4_STEP_PA_CE, 281
ASR_EXECUTE_5_STEP_PA, 281
ASR_EXECUTE_5_STEP_PD, 281
ASRGroup, 253
ASRManager, 253
ASROrgObject, 253
ASRPayrAdmin, 253
ASRPersAdmin, 253
ASR_PROCESS_EXECUTE_FPM, 280
asr_process_execute_ovp, 276
ASR_PROCESS_EXECUTE_OVP, 282
ASR_SPS_CASE, 305
ASR_SPS_CASE, 302, 303
ASRTTimeAdmin, 253
Attachments, 305
Attachments transfer, 152
Attachment type, 158, 313
Attributes of Element panel, 209
Authorizations, 235
Activities checked by P_ASRCONT, 289
Activity Type, 289
Alternatives, 294
Application, 285
Based on Process/Scenario Group, 292
Content, 285
HCM Forms, 294
P_ASRCONT, 293, 294

B

BACK_BUTTON_VISIBLE, 235
Backend services, 45, 126, 129
Backend updates, 30
Index

Background, 230
Back to author, 240, 242, 243, 255
Barriers
  Workflow, 51
Binding, 179
Blueprinting, 66
Business functions, 74
Business objectives, 49
Business status, 84, 237, 313
BUSINESS_STATUS, 237
Business Workflow for HCM Processes and Forms, 44

C

Calling back to the SAP server, 191
Case
  search profile, 83
  type, 82, 83
Case Management, 79, 81
  case IDs, 79
Change form, 122
Check mandatory, 207
Chief relationship, 253
Chris Solomon, 323
Collision, 108
  check, 36, 107, 117, 118
  container, 302
  inbound, 111
  outbound, 111
Column count, 217
Common SAP Terms, 56
Component configurations, 201
Composite forms, 206
Condition, 230
Conditional checks, 188
Container operation, 230
Context menu ID, 207
COUNTRYGROUPING, 280

D

Data binding, 117, 118
Data collision, 235
Data container, 302
Data element, 131, 140
Data view palette, 174
Date2Num, 193
Date calculation, 191
Deadline monitoring, 227
Decoupled Infotype, 60
Framework, 46
  Dynamic Actions Interaction, 61
  Migration, 61
Deep-copy, 206
Default binding, 175
Default value, 117, 131, 143
  type, 134, 137
Dependent objects, 98
Design Time, 7, 22, 24, 39, 91, 94, 97, 98, 170, 180
Design view, 177
Development, 68
Dialog tasks, 230
Digital Personnel File, 36, 41, 80, 267, 268, 305
Display form, 123
Display preview, 122
Display the key, 216
Display type dependent properties, 210
Do not tolerate errors, 235
Draft, 235, 245
DRAFT_BUTTON_VISIBLE, 240
Draft for process start, 244, 245
Dropdown, 215
Dynamic Actions, 57, 58
  Alternatives, 59
  Dual Maintenance, 60
  Limitations, 58

E

Edit form, 241, 242, 243, 248
Effective date, 120
Element, 210
Element section, 210
Embedded Org Chart Visualization, 273
Employee group, 56
Index

Employee Information, 271
Employee Self-Service, 24, 58, 258, 264
  Web Dynpro for ABAP, 272
Enhancement Package 4, 261
Enhancement Package 5, 271
Enhancement Package 6, 43, 276
Error category, 157
Error handling, 36
Error Type
  Authorization, 238
  Collision, 238
  Customizing, 238
Event linkage, 86, 87
Events, 86
Exceptions, 54
Existing assignment for service field?, 131
Expert Parameter, 236
  SEND_EXPERT_IF_INCONSISTENT, 236
  Send to expert, 235
  Tolerate error messages, 236
Explanation, 220
Explanation document, 221

F

Fast data entry, 103
Feedback loops, 66, 67, 68
Field
  attribute, 104, 117
  group name, 143
  groups, 143
  groups and operations, 144
  name, 131, 140
  sequence, 104, 119
Filter method, 215
Flexible User Interface Design, 199
  General settings, 206
Floorplan Manager, 40
Focus group, 67
Follow-up activities, 250
Formatted text view, 219
formattedValue, 192
FormCalc, 177, 186, 188
Form Completion, 263
Form definition, 121
Form scenario, 37, 114, 232
  check utility, 161
  customizing check, 161
  fields, 116
  group, 114
  stage, 120
form_scenario_stage, 195, 196
Form scenario stage, 39
Form screen, 180
Form Submission, 263
Formula, 154
Form Validation, 263, 271
Forward
  process start with errors, 250
Forward to expert, 236
FPM, 323
FPM Form Builder, 199
  Attributes of element, 205
  Checkbox, 217
  Context menu schema, 205
  General settings, 204
  Preview panel, 209
  Preview panel, 205
  Quickview schema panel, 205
  Repository panel, 205
  Toolbar, 204
  UIBB schema, 205
FPM-based form, 276
FPM event ID, 215
FPM_FGL2_EXPLANATION, 208
FPM_FGL2_FORMATTED_TEXT_VIEW, 208
FPM_FGL2_TEXT_VIEW, 208
frequency restrictions, 36, 111
Fundamental feasibility, 68

G

Generic services, 47, 127, 137, 139,142
  fields, 140
getDisplayedItem, 193
Go-live, 72
Google, 321
Group attributes, 222
Groupings, 221, 222
Group title, 223
H

HasValue, 192
HCM
  Offline Forms, 319
HCM Mobile
  integrated development environment, 318
  Kairos, 318
  Mobile Workplace, 318
  SAP Gateway, 317
  Sky Mobile, 318
HCM Processes and Forms
  architecture, 33
HCM process testing, 160
HCM Workflow
  Form, 232
    FORM_SCENARIO_STAGE, 233
    SEND_VARIATION, 233
Hidden fields, 195
Hiding form elements, 189
Hierarchy and Data View palette, 172
Hierarchy palette, 195, 173
HR Administrative Services, 21
HR Administrator, 106, 259, 268
HR Administrator's Workbench
  HRASRPROCESS_UTILITY, 307
HRASR_CURRENT_NOTE, 208
HRASR_DT, 203, 213, 214
HRASR_PREVIOUS_NOTES, 208
HRASRPROCESS_UTILITY, 307
HR Expert Online, 325
HR Renewal 1.0, 75, 276
Hypercare, 72

I

inbox, 261, 277
Incorrect customizing, 235
Infotype, 130, 132, 140
  operations, 128
    operations screen, 131
  version, 130
INITIATOR_ROLE, 280, 282
Initiator roles, 105, 106, 121, 260
Input field, 215
Input help, 117, 118

Internet Communication Framework, 77
Internet Explorer 7, 200
ISR, 179
  isr_event, 195
  isr_form_view, 195
  isr_mode, 195
  ISR Native Controls library, 176
  isr_page, 195
  ISR scenario, 37, 114, 179
  ISR scenario fields, 195

J

JavaScript, 177, 185, 186, 188

L

Layout, 206
Lead object, 46
Lead object id, 121, 134, 135
Linked objects, 301
Livecycle Designer, 123
Localization, 72

M

Making form elements display-only, 190
Manager level, 253
Manager Self-Service, 58, 267
Manager Self-Service, 257, 258
Manager Self-Service Add-On, 275
Mass start, 103
  query, 103
Media Library, 324
Menu bar/toolbar, 172
Message mapping, 156
Multilingual Forms
  Process description, 312
Mobile
  HCM, 317
    integrated development environment, 318
  Kairos, 318
  Mobile Workplace, 318
  SAP Gateway, 317
  Sky Mobile, 318
Multilingual Forms, 309
  Configuration, 312
Field names, 312
FPM Form, 316
Implementation Plan, 311
Key Drivers, 309
Languages, 310
Login language, 312
Message mapping, 312
Process name, 312
Scenario name, 312
Scenario steps, 312
Supported languages, 312
Translations of development texts, 311
Multiple condition, 230
Multiple form scenarios, 147
  for a single process, 149
Multiple initiators, 147, 150

NetWeaver Portal, 257
New field?, 130
No automatic event, 207
NOTIFY_VIA_EMAIL, 237
Num2Date, 193

Object abbr., 134
Object group, 106
Object identifier, 132, 140
Object ID fieldname, 134
OBJECT_MEM_ID, 280, 283
Object reference, 189
Object Selection, 262
Object text fieldname, 134
Object type, 134
  description, 136
OBJECT_TYPE, 280, 283
Operation, 132, 134, 140, 143
  exclusion, 131, 140
Organizational unit, 253
Other attributes, 153

Page Builder, 41, 122
PA processes, 103, 263
Parking lot, 67
Password, 215
PD objects, 134, 136
PD process, 103, 134, 135, 263
pernr, 121
PERNR_MEM_ID, 281, 283
Personal Object Worklist, 261, 277
personnel area, 56
Personnel Change Requests, 21, 179
PFTC, 248
Piloting, 70
Portal, 257, 258
  roles, 259
Position, 210
Position section, 211
POWL, 261
POWL inbox, 277, 279
Presence, 175, 192
Preview panel, 209, 212, 221
Preview PDF view, 178
Process
  80/20 Rule, 53
  Clarity, 51
  configuration, 98
  consistency, 50
  creation, 98
  customizing, 35
  customizing check, 161
  design, 97
  Design Guidelines, 53
  groups, 107, 109
  mass start, 103
  object, 82
  reference number, 78, 120
  Sample processes, 91
  status, 84
  testing, 163
  testing utility, 164
  top-down approach, 55
  tracking, 31
  type, 103, 104
  validity, 100
  withdrawal, 36
PROCESS, 281, 283
Process Cancellation
   IF_NO_SAVE, 235
   Withdraw, 235
Process Efficiency, 50
PROCESS_GROUP, 281, 283
Process Groups and Scenario Group
   Authorizations
      Conflicts, 290
      Setup, 291
Processing state, 240, 242, 243, 244
Processing status, 84, 237, 238
Process initiation, 24, 264, 267
Process object, 255
Processor role, 156
Process search, 299
Process Selection, 262
Process Tracking, 31, 266, 268
PROCSTATE, 237
Program management, 72
Project preparation, 64
Projects, 63
Propose UI text fieldname, 139

Q

Questionnaire, 65, 121
Quick help, 220
Quickview ID, 220

R

rawValue, 192
Realization, 66
Record index, 140
Records Management, 79, 80, 305
   Transaction Organizer, 305
Reference number, 77
Related Object ID fieldname, 136
Relations, 135
Relationship, 137
   sign, 137
Repository panel, 208
Reserved fields, 120, 121
Right, 193
Roadmap, 266
Role
   portal, 258
   SAP NetWeaver Business Client, 260
Role assignment, 106
Rollout, 71
Row count, 217
rpasr_check_process, 162
Rule description, 134
Rule field, 132, 134, 137
Rule Formula, 153
Rules, 153, 251

S

Sandbox, 68
SAP Community Network, 319 321, 322
SAP Help Portal, 323
SAP NetWeaver Business Client, 42, 105, 257
SAP Notes, 324
   PA-AS, 325
SAP_PA, 45, 129
SAP_PD, 46, 133, 135
SAP_PT, 47, 129
SAP Records Management
   SAP NetWeaver Folders Management, 80
SAP Service Marketplace, 323
SAP Sybase Unwired Platform, 317
SAP User Groups, 325
Save as draft, 242
SAVE_DRAFT_BUTTON_VISIBLE, 235
Save form with error handling, 244
SCASE
   Data container, 298
   History of past searches, 298
   Process steps, 298
Scenario object, 82
   search, 299
   steps, 38, 123, 134
SCN, 322, 323
Screen structure, 130, 135
   type, 130
Script Editor, 156,176, 181
   Events
      enter, 187
      exit, 187
Script Editor (Cont.)

form ready, 188
initialize, 187
Null check, 190
Value assignment, 190

Scripting, 184, 188
Search Criteria, 299
Object key, 300
Process initiator, 300
Process Status, 299
Process type, 299
Reference number, 300
Scenario step, 300
Scenario type, 300
Scenario version, 300
Start date, 300
Status of step, 300

Search helps, 214
Secondary object, 135
SECONDARY_OBJ_ID, 135
selectedIndex, 192
Semantic color, 220
SEND_EXPERT_IF_INCONSISTENT, 235, 238, 250
Send to expert, 244, 250
Send variant, 103
Send Variation, 233
SEND_VARIATION, 238
Sequence no., 132
Service fields, 128, 129, 131, 140
S_MGRSPOSITIONS, 141
Standard library, 175
Start Application, 262, 266
Start configurator, 202
Start object type, 103
Step-dependent, 123, 125
Step object, 82
Steps, 230, 302, 303
Step search, 299
Subrule, 251, 252
Substitution, 227
Substr, 193
Subtype, 132, 140
Suggest values, 215
Suppress save, 233

SWI2_FREQOne, 307
Sybase Unwired Platform (SUP), 317, 318

T

Target language, 315
Tasks, 89
Termination
  Example of, 153
  sample process, 146
  US, 146
Testing, 69, 163
  Unit Testing, 163
  planning phase, 69
Text field, 139
Text structure, 139
Text view, 219
design, 220
layout, 220
Text wrapping, 218
Tolerate errors, 233
Tool tip, 211
Top-down approach, 137
Transaction Codes
  HRASRA, 105
  HRASRB, 105
  HRASRC, 105
  HRASR_CHK_FSCN_CUST, 161
  HRASR_CHK_PROC_CUST, 161
  HRASRD, 105
  HRASR_DT, 97, 312
  HRASR_DT in German, 312
  HRASR_GS_INFO, 144
  HRASR_TEST_PROCESS, 164
  HREICA, 105
  SCASE, 297
  SE63, 221
  SE80, 201
  SCASE, 298
  SCASE, Anatomy, 298
  SWI2_FREQ, 307
  V_5ASRATTACHMENT, 313
  V_5ASRBSTATUS, 313
  V_5ASRLINK, 313
Index

Transferring, 130
  attachments, 152
  fields between form scenarios, 151
Tutorial, 323

U

UIBB schema, 207, 222
UI element width, 215
UI text fieldname, 139
Universal Worklist 30, 259, 277, 316
User acceptance testing (UAT), 70
USER_EVENT_CHECK, 215
USER_EVENT_INITIALIZE, 215
User Interface 76, 257

V

Validity period, 36, 104
Value help, 131, 143
Version, 232

W

Web Dynpro for ABAP, 40, 318
Web Dynpro Native, 176
WI_ID, 283
Withdraw process, 242
  WITHDRAW_PROCESS_BUTTON_VISIBLE, 235
  WITHOUT_START_OBJECT, 281
Workflow, 28, 44, 85, 86
Workflow Concepts
  Agency rule, 231
  Agent, 231
  Containers, 229
  Event, 229
  Inbox, 231
  Step, 230
  Tasks, 230
  Work item, 231
Workflow Inbox, 235, 245
Workflow log, 228
Workflow notifications, 316
Workflow template, 36, 229
  assignment, 104, 105
  forward process start with errors, 244
Work item, 247
Work Overview, 269
Workshop, 66
Wrapping, 220

X

XI, 27
XML, 313
XML Source view, 177