Use industry templates for advanced case management, Part 2: Introducing the Auto Claims Management sample solution template for IBM Case Manager

Building an auto claims solution with IBM Case Manager

Skill Level: Intermediate

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IBM® Case Manager provides the platform and tools for the business analyst to define and implement a new generation of case management solutions. To accelerate the development of solutions in particular industries, IBM Case Manager supports the notion of a solution template: a collection of case management assets that can be customized and extended to build a complete solution. To help illustrate the value of solution templates and the abilities of IBM Case Manager, IBM has provided two sample solution templates that can be used as learning tools for new users of the platform. This tutorial introduces one of those templates — Auto Claims Management — from the insurance services industry. Gain an understanding of what a template is, and learn about the assets delivered in this sample template, as well as instructions on how to deploy it.)

Section 1. Before you start

Introduction

Case management is a critical function for virtually every business. The ability to efficiently process cases has impact on the top and bottom lines, could have regulatory implications, and most importantly, is critical to maintaining customer satisfaction and loyalty. Effectively implementing a case management solution that meets today's requirements requires a broad platform that brings together a range of capabilities, including content management, business process management, business rules, collaboration, and analytics. The solution needs to integrate seamlessly with existing infrastructure, leveraging those assets to provide complete, consistent context to case workers in a user interface tailored to how and where they work.

IBM Case Manager provides the platform and tools for the business analyst to define and implement this new generation of case management solutions. To accelerate the development of solutions in particular industries, IBM Case Manager supports the notion of a solution template, which is a collection of case management assets that can be customized and extended to build a complete solution. To help illustrate the value of solution templates and the abilities of IBM Case Manager, IBM has provided two sample solution templates that can be used as learning tools for new users of the platform. This tutorial introduces one of those templates — Auto Claims Management — from the insurance services industry. After reading this tutorial, you will have an understanding of what a template is, and you will understand the assets delivered in this sample template, as well as instructions on how to deploy it.)

Prerequisites

This tutorial is intended to supplement your knowledge of IBM Case Manager by providing a deeper understanding of how to build and deploy a solution. As a result, this tutorial assumes at least a beginning level of familiarity with IBM Case Manager and the IBM Case Manager Builder, as well as the IBM FileNet® P8 Platform and tools. Readers should have IBM Case Manager installed and have some experience working with the tools to build a case management solution. For more information about IBM Case Manager, including a guided tour, see Resources.

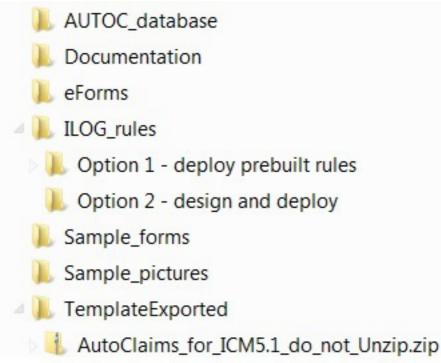
Target audience

This tutorial is targeted at business analysts and information technology personnel looking to supplement their understanding of IBM Case Manager, eForm authoring, and their use of business rules with an understanding of templates and some concrete examples of building particular assets.

Deploying the sample template

Included with this tutorial is a ZIP file containing the artifacts of the solution (see Download). When you are ready to deploy the solution, open the file and extract the contents onto your local file system. You will see the following directory structure:

Figure 1. Contents of ZIP file



The Documentation folder contains a document named Deploying the Auto Claim Management Template - IBM Case Manager 5.1.pdf. This document contains the detailed instructions for deploying the sample template, creating a solution from it, deploying the solution, and running it. The folder also contains a demo script that will guide you through the solution and help you become familiar with the assets.

The steps to deploy the template and then create a solution from it are straightforward. It should take you no more than a couple of hours to deploy the template. While it is not a prerequisite to reading the tutorial, you may wish to deploy the solution before you read the tutorial so that you can directly reference the code as particular topics are discussed.

Section 2. Introduction to IBM Case Manager and the

solution templates

Overview of IBM Case Manager

There are many types of case management applications. For the purposes of this tutorial, let's focus on case management solutions that are more human-centric in nature and require the coordination of different services throughout an organization, such as health, legal, or financial, in order to provide a business service for a customer or party. Typically, this includes creating a case file and following a process (or collection of processes) to ensure the delivery of the business service. Case-related information is used by case managers or members of a case team who collaborate to resolve and close a case. After the case is completed, information about the case is typically retained for compliance or in support of longer-term business processes.

These case management scenarios require highly collaborative, dynamic, and event-driven work. Often, cases and the processes that support them can have significant life cycles, and can be closed, suspended, and reopened.

An example case management solution is auto claims management in insurance services. In this scenario, a customer calls in to file a claim, and a case is opened to track this claim. Resolving the claim requires collaborative work between multiple teams, inside and outside of the organization. There are regulatory and company service-level agreements (SLAs) that dictate timelines and interactions with the customer.

Delivering this type of solution requires the effective integration and leveraging of a broad set of capabilities as illustrated in Figure 2.

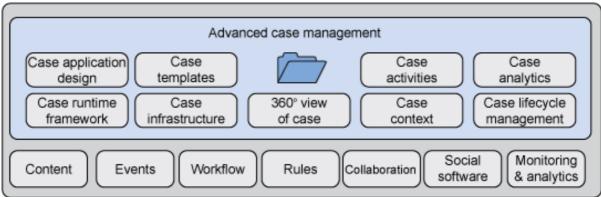


Figure 2. Artifacts in advanced case management

Case content must be gathered and maintained in a single, secure location and

passed seamlessly between all individuals working on the case. Context must be complete and consistent across all users. Events, business rules, and workflow help to automate elements of the process to reduce errors, ease the burden on the user, and increase efficiency. Efficient collaboration between team members is critical. Providing transparency into the process is important, not only for operational purposes but also for assessing the impact of the solution on the overall business.

IBM Case Manager provides a platform that leverages capabilities from across IBM Software Group to deliver the advanced requirements needed to drive better case outcomes. The platform combines enterprise content management and business process management, along with integrated rules, events, collaboration, and analytics to deliver a comprehensive case management product. On top of this platform, IBM Case Manager provides a set of tooling that enables business analysts to quickly define solutions, and then collaborate with customers and IT to deliver them.

Case management solution templates

There are case management solutions in virtually every industry. Figure 3 illustrates some of these case management solutions.



Figure 3. Different types of cases across industries

Most of these case types are vertical in nature, solving a specific problem in a specific industry. But some are more horizontal, addressing a challenge that occurs in many industries.

To aid in the deployment and delivery of these solutions, IBM Case Manager supports the notion of a *solution template*. A solution template contains case management assets that are applicable to a particular business problem, and can be easily customized and extended to deliver a complete solution.

To illustrate the concept of a template and demonstrate how the features of IBM Case Manager can be used to deliver a solution, IBM has provided two sample solution templates coincident with the first release of the product. The first sample is Credit Card Dispute Management in financial services. This template is discussed in Part 1 of this series.

The second template is Auto Claims Management in the insurance industry. The remainder of this tutorial introduces this template and the assets it contains, and describes some details of how the template was built. Finally, this tutorial shows you how to create a template and how you can deploy the Auto Claims Management template in your environment.

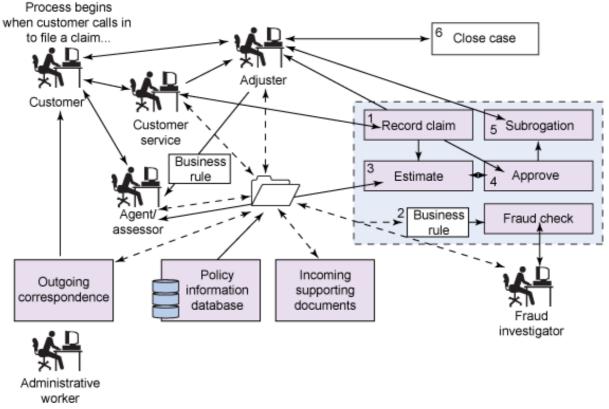
Auto claims management

Successfully managing auto claims requires efficient interactions among customers, damage assessors, medical and legal experts, and the insurance company. The expertise required for a claim will vary, depending on the details of the claim. Most insurance companies have well-defined processes for auto claims. Errors or inefficiencies in the interactions among experts, customers, and the insurance company can result in additional costs, delays, and unresolved claims disputes.

IBM Case Manager provides capabilities that allow collaboration and flexibility in the business process, while recording the events. The Auto Claims Sample Solution Template is a good starting point for building your Auto Claims solution.

The diagram in Figure 4 provides a high-level view of the case flow.

Figure 4. High-level process flow for managing an auto claim



The process typically starts with a customer involved in an accident calling the insurance company. A customer service representative takes the call and works with the customer to complete a First Notice of Loss (FNOL) form. In addition to details about the customer and the accident, the form will allow the customer service representative to specify additional steps, such as whether a rental car is required, or whether a third party might be responsible for part or all of the damage. If the customer has any supporting documents, such as pictures or the police report, she will send those in, and the customer service representative will include those with the case.

At this point, a claims adjuster takes ownership of the case and works with third-party agents to gather estimates and arrange repairs. She will also approve the claim and work with other insurance companies, if necessary, to pay for the repairs.

Underlying this process are workflows and rules systems that route work and inspect the case data to determine if particular steps need to be taken, such as a fraud investigation.

Section 3. Implementing the Auto Claims Management

template

IBM Case Manager enables the business analyst to design, build, test, and deploy a solution using a tool called IBM Case Manager Builder. The Case Manager Builder provides an easy-to-use environment that allows the analyst to describe the solution using familiar terminology, while abstracting away the underlying complexities of the technical implementation. (Throughout this tutorial, you will see numerous screenshots of the Case Builder tool.)

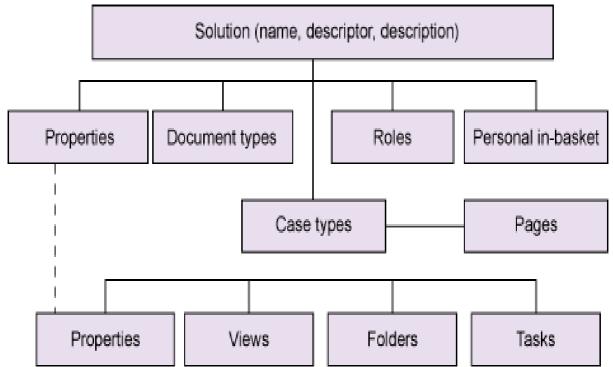
In describing the implementation of the Auto Claims Management sample, this tutorial starts with the assets defined using the Case Builder tool. It then describes some places where we extended the template using the IBM FileNet P8 Process Designer and discusses how we implemented two rules that we built with ILOG® JRules.

Finally, the tutorial inspects some UI assets contained in the template.

The object model

The artifacts of a case management solution are organized into an object model, as illustrated in Figure 5.

Figure 5. The IBM Case Manager object model



Each solution includes a unique, user-provided descriptor that will be used as a prefix on all assets within the solution. The solution also contains one or more properties, document types, roles, and case types. Document types, properties, and roles are defined at the solution level and are used across the defined case types. There is one personal in-basket defined for all users of the solution.

Within a case type are properties, case property views, folders, and tasks. All properties defined at the case-type level are mapped up to the solution level so they can be reused in other case types. Case types also contain user pages. These pages can be customized, and new pages can be created to meet the needs of the case workers.

Case Builder artifacts for the Auto Claims sample template

This section discusses all of the assets defined and implemented using the IBM Case Manager Builder tool. Collectively, they provide the definition and high-level structure of the template.

Properties

There are a significant number of properties defined in the template. Most of them are self-explanatory; they store and display details about the customer's policy and the claim being worked. Figure 6 shows the details defined for three types of properties.

*Name:	Type:		Description:		
Arrange Rental Car	Boolean	-	True if policy includes the arrangement of a rental car	ОК	Cancel
✓ Define Property Values					
This property can have:					
Default value:		*Un	ique Identifier		
True 🔽 False		AC_	ArrangeRentalCar		
*Name:	Type:		Description:		
Book Value	Float	-	The day value of the vehicle before the loss	ОК	Cancel
This property can have: • A single value		Mini	mum value: Maximum value:		
C Multiple values					
Default value:			ique Identifier		
0		AC_	BookValue		
			Desertation		
*Name:	Type:	Cont.	Description:		
Claim Status	String	-	Current status of the claim	ОК	Cancel
- Define Property Values					
This property can have:	*Maxin	num len	ath:	Choice list	
A single value	64			None	-
C Multiple values					_
Default value:	*Uniou	ldenti	fler		
		laimSta			

Figure 6. Details of three types of properties

Other properties help drive the solution in a variety of ways:

- Setting a precondition for a task Note that a property can be used as a precondition for the instantiation of a new task. In the Auto Claims sample, there are a number of Boolean properties that the case workers can set to start new tasks. When the case worker sets one of them to true, a new work stream is created to complete that piece of work. As an example, when the claims adjuster sets the Boolean property Request Estimate to TRUE, the *create estimate* task will automatically start, since Request Estimate = TRUE is a precondition for that task.
- Specifying the purpose of a work item The property Work Item is used to indicate what the purpose of each work item is in a case worker's inbox.

• Indicating the current state of the case — The property Claim Status is used to indicate the case's current state.

Roles and in-baskets

There are a number of roles defined for the solution. See Table 1 for a list of them.

Table 1. Roles used in the Auto Claims template

Role name	Description
CSR	Customer service representative
Adjuster	Claims adjuster
Agent	Third-party investigating/assessing damage
Supervisor	Supervisor for team of adjusters
Recovery Expert	Expert for recovering the cost of losses
Fraud Investigator	Investigates potential fraud cases
Administrative Clerk	Performs back-office activities, like assisting with the generation of letters

As Figure 7 shows, each role has an associated in-basket.

		D - (- 'I -		_	
Figure	1.	Details	OT	а	role

Role	Descr	iption:	
SR	Cust	omer Service Rep	OK Cance
In-basket General	In-basket Filters	R	
* In-basket name:	De	scription:	
CSR	CS	R	
Name	Sortable	Sort Default	Sort Order
		-	
Date Assigned		e	Descending 💌
Date Assigned Work Item		œ	Descending 💌
		e	Descending 💌
Work Item		© 0	Descending 💌
Work Item Policy Number			Descending -

In addition, the template defines a simple personal inbox for handling work items

directed at individuals or workgroups.

Document types

Throughout the auto claims process, there are documents that may be included with the case. Figure 8 shows that properties can be assigned to describe the document type.

Figure 8. Details of a document type

BM. Case Manager Builder			
Manage Solutions \ Auto Claims			
Auto Claims Solution for managing auto is Solution prefix AC Created by paula Created on February 10, 201	2 the documents that belong to a case.	You can provide additiona	il information
Properties Roles Document Types	Personal In-basket Case Type		
Add Document Type •	Add Property OK		
Court Appearance Order	Name: ^	Type:	Description:
Police Report	Date Received	DateTime	Date and time the policy holder or related driver first
Witness Statement	Policy Last Name	String	The last name of the policy holder
Adjudication Report	Policy Number	String	The policy number for which the loss was filed
P Form of Arbitration			

Table 2 lists the document types that categorize these documents.

Table 2. Document types used in the Auto Claims template

Document type	Description/Notes
FNOL	First Notice of Loss (PDF version only)
Police report	
Witness statement	
Adjudication report	Report of the decisions made in the legal adjudication process
Form of arbitration	
Expertise form	A form that an external specialist can provide to indicate his qualifications
Subrogation form	Agreement when multiple parties share liability for a loss
Proposal of liability share	
Piece of evidence	Example: Photos taken at the scene of the loss
Medical report	
Note lawyer	
Correspondence	

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Claim form	The claim form that the claimant has downloaded
	and filled out

Case types

There are three case types defined within the template. The first is *general claim,* which defines the processes for simple claims with material damage only (approximately 80 percent of all claims). This is the case type discussed in detail in this tutorial and that has been implemented with a set of tasks.

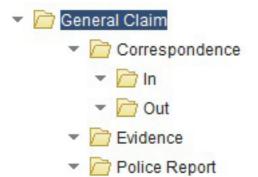
The two other case types, *claim including bodily injury* and *major loss claim*, are provided solely for the purpose to illustrate that the case worker who initiates the case has a choice to select different claim types. IBM Case Manager offers the capability to define multiple case types, which may involve different roles, different tasks, and different UIs for the execution of these tasks.

As an example, when the company receives a bodily injury claim, the claims adjuster will be the central figure in the case and will ask numerous questions during the process. The claims adjuster will be surrounded by legal and medical specialists. There will be hospital and other medical bills (consider the ambulance ride and emergency room visit).

Other types of auto claims that may require a different case type are property damage claims, windshield claims, or third-party insurance claims, where the claimant is not the policy holder, but somebody filing a claim against the policy holder.

The general claim case type case structure

Figure 9. Folder structure for the general claim case type



During the execution of the claims process, documents are being added to the case and organized into a folder structure. For this template, three folders have been created:

- Correspondence To capture all correspondence with the customer and other third parties.
- Evidence To capture pictures the customer has taken of the scene of the accident and potential additional evidence material gathered by the agent who assesses and estimates the damage or the claims adjuster.
- Police report To file the police report.

Properties displayed in views

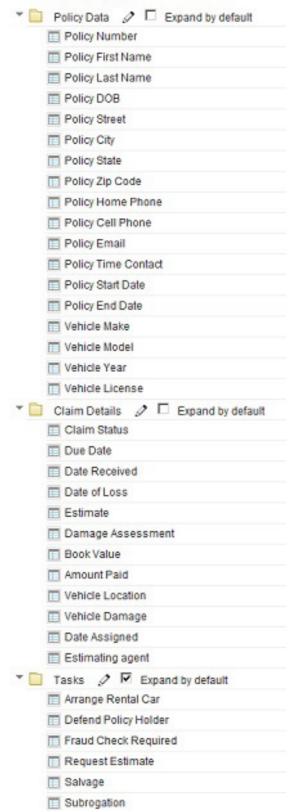
To help organize the case information for the case worker, the Case Builder allows the business analyst to create a view of the properties in the case. For the Auto Claims template, the case information is organized into three groups:

- Policy details, which includes information such as policy number, name, address, cars insured, etc.
- Claim details, which includes properties about the claim itself.
- Tasks work actions that the case worker can initiate as he learns more about the case.

Figure 10 shows the data view with each group expanded.

Figure 10. The views of the properties in the general claim case type

No ungrouped properties are in this view.



Introducing the Auto Claims Management sample solution template for IBM Case Manager © Copyright IBM Corporation 2011, 2012. All rights reserved. The general claim case type contains a number of tasks, as shown in Figure 11.



	equired tasks				
	Record Claim Records details when claim is received Precondition: Case Start Set: <none></none>	•	Close Case Is executed when all claim tasks are completed Precondition: Case Start Set: «None>		
Op	ptional tasks				
	Arrange a Rental Car Execute if covered under policy		Create Estimate Damage estimation and review		Defend Customer Defend customer against claim from third party
h	Precondition: Property: Arrange Rental Car = True	¢	Precondition: Property: Request Estimate = True	da .	Precondition: Property: Defend Policy Holder =
_	Set «None»		Set: <none></none>		Set: «None»
	Evaluate Potential Fraud		Salvage Vehicle Executed for Total Loss		Subrogation Arbitration Executed if third party has or shares
1	profile required fraud check Precondition: Property: Fraud Check Required =	4	Precondition: Property: Salvage = True	4	responsibility for damage Precondition: Property: Subrogation = True
	Set <none></none>		Set: «None>		Set: «None>
Us	ser-created tasks				
-	Involve Expert		Request Letter		Review Case
2	Special request	a	Letter to customer or third party	*	
	Set <none></none>		Set: «None>		Set: <none></none>

For Auto Claims, there are two required tasks: record claim and close case. Within the *record claim* task, the CSR gathers all the information required to process the claim. Depending on the information gathered in the *record claim* task, a number of other optional tasks will be instantiated.

All of the optional tasks in the Auto Claims template are automatic, instantiated when certain preconditions are met. The preconditions can be set programmatically in a workflow or by a background process, such as an ILOG rules system. They can also be set manually by the case worker.

There are two user-created tasks defined in the template. Request letter enables a

case worker to request a particular type of letter be sent. *Involve recovery expert* would be invoked by the claims adjuster when additional assistance from this role is required to resolve the claim.

Section 4. Using the Process Designer

Extending the template using Process Designer

As the business analyst is implementing the solution, there will be instances where he will need to use Process Designer to implement additional required features. For this template, we have used Process Designer to integrate an eForm into the UI. Also, Process Designer is used to integrate ILOG JRules into the solution, which is discussed in more detail later in this tutorial.

Opening a solution in Process Designer

It is common to use functions or system fields to set values for case properties. To accomplish this, you must step outside of the Case Builder to work in Process Designer. Fortunately, there is good integration between these tools to make this transition seamless.

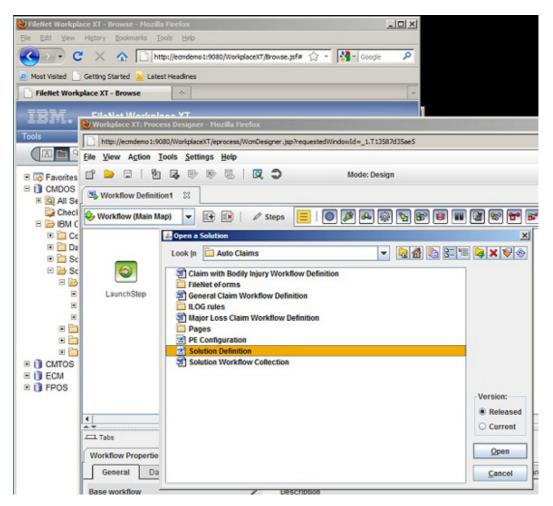
There are a few things you should be aware of as you move between Case Builder and Process Designer:

- Before opening a solution in Process Designer, make sure you have saved and closed the solution in Case Builder. You are likely to overwrite changes if both tools have the solution open. Make sure your solution doesn't appear as "checked out" before opening it in Process Designer.
- When opening the solution in Process Designer, make sure you use the File > Solution > Edit menu option.
 Figure 12. Editing a Case Manager Solution in Process Designer

	http://cm-soldemo1.usca.ibm.com:9080)/Workpl	aceXT/eprocess/WcmDesigne
<u>F</u> ile	<u>View Action Tools Settings</u>	<u>H</u> elp	
T	New	Ctrl-N	
	Open	Ctrl-O	
	Close		
III	Save	Ctrl-S	
	Save As		
	Solution	•	Edit
-	FileNet	•	<u>S</u> ave
	Insert	•	Save And Close
	Export to Self-Contained XPDL		Close

Navigate to the **Solution** directory, and select the **Solution Definition** file (shown in Figure 13) so the entire context of the process aspects of the solution is provided to Process Designer.

Figure 13. Editing a Case Manager Solution in Process Designer



- Case properties are referenced by their symbolic names in Process Designer. This is actually true anywhere outside of Case Builder. As an example, if your Auto Claims solution has a solution identifier of "AC," then all properties, document types, roles, etc. will have a prefix of "AC_." The symbolic name of a PolicyNumber property defined in Case Builder would be AC_PolicyNumber (note the case-sensitivity and removal of spaces).
- Case properties, case instance properties, and workflow data fields are different entities. As described earlier, when a case type is defined in Case Builder, it is modeled as a case folder in the FileNet P8 Content Engine. When you define a property within a case type, it is modeled as a property of the case folder. This is where property values for a case instance are persisted. Workflow data fields must be initialized with the case data properties. Case Builder does this for you automatically, but when you are using Process Designer to create steps, you must do this manually.

Let's look at an example.

Figure 14 shows the last three steps of the *record claim* task after importing the solution into Process Designer. It shows the step where the CSR completes the set of data for the execution of the claim case, a system step in which ILOG is invoked as a web service, and the step where the claims adjuster takes ownership of the claim. The field assignment is executed before the claims adjuster executes the last step.



Figure 14. Copying a property value to a case property

Complete Data Set (add docs) iLog Fraud Rule Take Ownership

20202								
🖉 Ta	ake Ownership	2						
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Af	ter Completion							
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		E CocoEoldor M	Claim Ctatua		AC Claim	Ctatua		

Our goal is to instantiate the *evaluate potential fraud* task, based on the outcome of a rule executed by ILOG. We created the *evaluate potential fraud* task as an automatic task and gave it the following precondition:

AC_FraudCheckRequired = TRUE

When working in the Process Designer, the case property AC_FraudCheckRequired is available as the following, since case properties persist as properties of a case folder:

F_CaseFolder.AC_FraudCheckRequired

So we need to set the value of the case	property	'
-----------------------------------------	----------	---

F_CaseFolder.AC_FraudCheckRequired by using the following assignment:

F_CaseFolder.AC_FraudCheckRequired= AC_FraudCheckRequired

(Refer to Figure 14.)

Extending Auto Claims in Process Designer setting in-basket properties

Within Auto Claims, the customer service in-basket looks like Figure 15.

Figure 15. The columns of the CSR in-basket

baskets				
CSR(1) Personal				
Ref + No Shir is social				
em 1-1				Pevicus N
Policy Number	Policy Last Name	A Due Date	Claim Status	Work item
P00001	Johnson	Jan 2, 2011 1158 39 AM	Claim Received	Complete Data Set (Record Claim)

within Process Designer on a step-by-step basis. To see how this is done, consider the *create estimate* task flow.

Figure 16. Assigning property values in Process Designer

Workplace XT: Process Designer - Mozilla Firefox		2012
http://ecndemo1:9080/WorkplaceXT/eprocess/WonDesigner.jsp/requi	estedWindowId=_1.T13587d35ae5	☆
le View Action Tools Settings Help		
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The *review estimate* step is selected, and we are looking at the assignments that occur after the step is completed. The work item property is highlighted (note the symbolic name is used: AC_WorkItem). In this example, we are updating the value of the work item property, based on the case worker's response when completing the step *review estimate*:

If(F_Response="2nd opinion", "Damage Estimation Request", "Initiate Repair")

Section 5. ILOG JRules system

Integrating the ILOG JRules system

Two simple ILOG JRules rules have been implemented for demonstrative purposes:

• Instantiate a task, based on the outcome of a rule

After the CSR has recorded the data for the claim, an ILOG rule will start an *evaluate potential fraud* task, based on the data given by the customer and data imported from the policy database.

The Auto Claim sample solution implements an example scenario where the company wants to execute a standard fraud investigation task when a young person files a claim for a new car of a certain brand. The rule for this scenario is shown in Listing 1.

Listing 1. The business rule that instantiates the evaluate potential fraud task

```
definitions
    set 'Lower Limit Estimate' to 4999;
    set 'Upper Limit Policy Start Date' to 01/01/2008;
if
    all of the following conditions are true:
        - 'Estimate' is more than 'Lower Limit Estimate'
        - 'Policy Start Date' is after 'Upper Limit Policy Start Date',
then
    print "Evaluate for fraud";
    set 'Is Fraud Check Required' to true;
else
    print "Do not evaluate";
    set 'Is Fraud Check Required' to false;
```

After the CSR has collected all data and has submitted the task to the claim adjuster, in the background, this rule has been executed to determine if this type of claim should undergo a standard fraud check. If so, then ILOG will launch the *evaluate potential fraud* task, and the claim adjuster may decide to put the *record claim* task on hold, awaiting the outcome of the fraud check.

• Rule-based case assignment

ILOG JRules is used to help the CSR select an agent who can estimate the cost to repair the damage. In real life, this will be somebody located near the site of the accident, has knowledge of the type of vehicle that needs to be inspected, and is available to take on this job (based on the number of items in the agent's queue).

The Auto Claim sample assumes that there are two agents. One of them inspects cars of Japanese make, while the other inspects all other cars. The rule for this scenario is shown in Listing 2.

Listing 2. The business rule used to assign a task to an agent

```
definitions
    set 'ACM Auto List 1' to {"Honda", "Toyota", "Mazda", "Acura", "Lexus"}'
if
    'Vehicle Make' is one of 'ACM Auto List 1'
then
    print "Japanese car";
    set 'Agent for Estimate' to "sroth';
else
    print "not a Japanese car";
    set 'Agent for Estimate' to "sfranks";
```

With the integration into ACM, 'Agent for Estimate' will add one user to the workgroup Agents. This user will then execute the *estimate* task.

When building a case management solution, the integration of ILOG JRules is achieved the same way it is done using BPM: by using ILOG as a web service. In addition, we use assignments to pass the values provided by ILOG back to the case properties. As discussed in a previous section, in case of the ILOG fraud rule, ILOG fills the AC_FraudCheckRequired property, which we pass back to the case property F_CaseFolder.AC_FraudCheckRequired.

The case property F_CaseFolder.AC_FraudCheckRequired is a precondition for the *evaluate potential fraud* task. Therefore, that task will start if ILOG sets the case property to TRUE.

Figure 17. Adding the agent to the Agents workgroup

Launchotep 1000 selects Agent (2] Agents team 2 (1] Reject (1] Reject (2] Accept Assign Request Estimate Pre	Real AC_CreateEstimate	X					
LaunchStep ILOG selects Agent \$[2] Agents team 2 \$[2] Agents team 2 \$[1] Reject \$[1] Reject \$[2] Accept Assign Request Estimate Provided and Provided Agents (Provided Agents) (Pro	🗞 Workflow (Main Map)		Steps 📃	0 🎉 📣	\$	¥) B° (8) III (1 🕏
Assign Request Estimate Pro	LaunchStep	ILOG selects Agent		Assign	se la	[1] 2nd	Ré
Tabs te X Yerepare Estimate X Antilate Repair X ILOG selects Agent X General Routing Custom Attributes Simulation Description Step Name Assign Assignment Parameters Name Agents AgentsTeam1						¥ ♥ ▲ Accer	t
te X Seassign X Prepare Estimate X Initiate Repair X ILOG selects Agent X General Routing Custom Attributes Simulation Description Step Name Assign Assignment Parameters Name Agents AgentsTeam1			\square		Req		
General Routing Custom Attributes Simulation Description Step Name Assign Assignment Parameters Name Agents	· ·		Assign			uest Estimate	Pre
Step Name Assign Assignment Parameters Name Agents AgentsTeam1	▲.★		Assign			uest Estimate	Pre
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Agents AgentsTeam1	Tabs te 🛛 🎽 Reassign General Routing	ස 🤗 Prepare Estim	Assign Nate 업 은	Initiate Repair	×	uest Estimate	Pre
Agents AgentsTeam1	Tabs te 🛛 🎾 Reassign General Routing Step Name	ස 🤗 Prepare Estim	Assign Nate 업 은	Initiate Repair	×	uest Estimate	Pre
Agents AgentsTeam1	Tabs te 23 Seneral Routing Step Name Assign	Custom Attributes	Assign Nate 업 은	Initiate Repair	×	uest Estimate	Pre
	Tabs te 23 Seneral Routing Step Name Assign	Custom Attributes	Assign Nate 업 은	Initiate Repair	×	uest Estimate	Pre
	Tabs Tabs Tabs General Routing Step Name Assign Assignment Parameters	Custom Attributes	Assign Nate 업 은	Initiate Repair	×	uest Estimate	Pre

In the *create estimate* task, we use ILOG to select an agent to prepare the estimate, based on the make of the vehicle. ILOG fills a workflow parameter agent in the system step *ILOG selects agent*, which we then use to determine which user(s) will be in the Agents workgroup, by copying the users from a pre-defined group. We could also have used the Agents [1]=Agent assignment to assign the user to the Agents workgroup. This requires that the ILOG rule output is the correct user name, instead of a variable that routes the work.

We then allow the claims adjuster to reassign the work to a different agent in the *Reassign* step in case the agent cannot do the damage estimation after all.

The UI assets

Customizing the Work Details page using an eForm

In release 5.1, IBM Case Manager supports IBM Forms, as well as FileNet eForms. In the Auto Claims template we use FileNet eForms.

Within the Auto Claims template, eForms are used to provide case workers with a consolidated view of the properties of the case. It provides flexibility in building a UI consistent with the company's branding and is most convenient for the case worker.

eForms can also be used to provide a stateful view of the properties of the case as the case moves through different steps and among workers. Figure 18 shows the user interface for the customer service representative as he gathers the initial details about the case.

Work Work	Details Form 💌			-	
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wnexts					Complete Save Clos
Form				Claim Information	*)_
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14100 2 0 70	wel Sufety First	Fir	st Notice of Loss	Dummary Documents History	
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- Charlen -			Today 🖂	Berro 1 - 12	Previous Next
Claimant is submit	ino this claim as:	Palicy holder		Today	2483042
Name of person re		Carly Johnson		a Record Claim	91 TB PM
Contact Phone:		9491112224		Tesh storted	peule
Loss Informatio				Cicce Case	01.16 PM
Date-of Loss	2/17/2012	Time: 1235		Task ready	paula
	Avoided stract on the road an			Fecord Claim	01.16 PM
Facts of Accident				Task ready	paula
Intersection/Street	Marguerteriterite provy	City: Massion V	alo State CA	5ubrogation Arbitration	01.16 PM
Police Department	Mission Viejo	Police Report Nr:		Task created	pa.46
				Salvage Vehicle	01.16.74
Policy Details				Task created	pada
Policy Number:	p00001	DOB	4441992	Evaluate Potential Fraud	át ná Au
Home Phone:	9491112224	Cell Phone:	9491112221	Test created	pada
Last Name:	Johnson	First Name:	Carly		
Steet.Address:	123 Main Street	Grane an	To Pade Anna	Defend Customer Task created	01.10 PM
City: Email:	Costa Mesa oustomer@ecm.ibm.iocal	State: CA Time to Contact	Zip Code: 92992 evening		
Insured Since:	11/2011	Expiration Date:	1/10912	Create Estimate	\$1.19.PM
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				Berris 1 - 10	Previous Next

Figure 18. The UI of the Auto Claims sample solution

This is a customized Work Details eForm page. The widget on the left is an eForm, which replaces the Case Data widget. The CSR can enter the policy number or the customer's phone number, and the eForm will then populate some fields of the customer information by querying a database. The CSR can continue to fill out more details of the claim.

Integrating FileNet eForms with IBM Case Manager is easy. eForm fields and case properties can simply be mapped using the symbolic name of the case property as the eForm field name. We only map a subset of the eForm fields with case Manager

properties, as illustrated in Figure 19. The eForm policies that are used in P8 BPM are not used in IBM Case Manager.

Figure 19. The FileNet eForms Designer application

		mage	
մասիսութ	² 1 ⁴ 1 ⁴ 1.		1ปในมาปมายใ
		E in	st Notice of Loss
	avel Safety First	Date Received:	1:AC_DateReceived
		Date Received.	Today ing
- Claimant			Today piga
Claimant is submitt	ing this claim as:	3:PersonReporting	Role
Name of person re	porting claim:	4:PersonReporting	
Contact Phone:		5:PersonReporting	hone
Loss Informatio	n 6:AC_DateOfLoss	Time: 7:TimeOfL	
Date of Loss.	6AC_DateOfLoss	Time: 7:TimeOfL	.0SS
Facts of Accident:	8:FactsOfAccident		
Intersection/Street	i 91 ossi ocStreet	City: 10 LossLo	cCity State: 11:Ld
	12 PoliceDepartment	Summer Summe	13 PoliceReportNr
	(C		Januarian
Policy Details -			
Policy Number:	14:AC_PolicyNumber	DOB:	15:AC_PolicyDOB
Home Phone:	16 AC_PolicyHomePhone	Cell Phone:	17:AC_PolicyCellPhone
Last Name:	18:AC_PolicyLastName	First Name:	19:AC_PolicyFirstName
Street Address:	20:AC_PolicyStreet		
City:	21:AC_PolicyCity	Internet Presentation	Zip Code: 23:AC_Policy
Email:	24:AC_PolicyEmail	Time to Contact	Service of the servic
Insured Since:	26 AC_PolicyStartDate	Expiration Date:	27:AC_PolicyEndDate
Entitled to Rental C			
Notes:	29:AC_PolicyNotes		

The First Notice of Loss for the auto claim is recorded in a FNOL eForm. This eForm loads the policy data from a policy information database, including vehicle details, as the CSR types the policy number, the home phone number of the policy holder, or

Introducing the Auto Claims Management sample solution template for IBM Case Manager © Copyright IBM Corporation 2011, 2012. All rights reserved.

the last name of the policy holder.

Figure 20	Database	lookups ir	h the	FileNet	eForms	Designe	r applicatio	'n
i igui e zo.	Dulubusc	loonaps ii		1 1101101		Designe	appiloulio	

Lookup for AC_PolicyNu	mber	
Connection type: JDBC		
Define Connection	Connection defined for source 'jdbc:db2://acmdemo1:60004/AUTOC'.	
E,POLICY_START_DATE,POLIC)	EET,CITY,STATE,ZIPCODE,CELL_PHONE,EN Y_END_DATE,POLICY_NOTES,CONTACT_TI EAR,VEHICLE_LICENSE,DOB_from AUTOCL4 ber>>%'	IME,VEHICLĒ_MAK 📖
Escape single quotes		
	ОК	Cancel

This is done using the lookup capability in eForms, using a JDBC connection. This capability is not new and can be used in a BPM application as well.

Retrieving the data from the policy information database has multiple purposes:

- It allows the CSR to verify that the policy is valid and that there are no issues.
- It limits the amount of data that needs to be typed in the FNOL form.
- It automates starting a potential new task, based on information in the policy information database. If the policy includes entitlement to a rental

car, then the *arrange a rental car* task will automatically be started after the CSR completes the form.

 It allows you to review information in the policy database even if it is not relevant for the processing of the claim and doesn't need to propagate to case properties.

FileNet eForms also provides capabilities to manipulate field data, which is demonstrated by selecting **Policy holder** for the role of the claimant or the driver. This selection will copy the policy holder name and phone number into the appropriate eForm fields, while allowing the CSR to make further changes to those fields. As an example, the field 2:PersonReporting uses the following calculation for its value:

```
If PersonReportingRole = "Policy holder" Then
    Concat (AC_PolicyFirstName," ",AC_PolicyLastName)
End
```

As the FNOL eForm is completed, several fields of the form will populate case properties, making the information available throughout the claim process. Some of the case properties are used as a precondition for starting tasks, and the template will demonstrate that. The case data will also populate some fields in the other forms used in the solution.

A FNOL form data document will be stored in the case folder, making it available to all roles involved in the claim process.

An agent (assessor) will then be selected to estimate the damage. The Request for Estimate eForm used to request the estimate is pre-filled with the case data that was recorded. The agent will only receive the information required to do his job. The agent can accept or reject the request, based on his workload and expertise.

After the agent finishes and submits a Damage Estimate eForm, the claim adjuster will approve the estimate and ask the agent to initiate the repair process. If, however, the damage exceeds the day value of the vehicle, then a *salvage* task will be started.

Enabling eForms in IBM Case Manager

To use an eForm in the Auto Claims sample template, perform the following steps:

- 1. Add an eForm widget on the page where you want to use the eForm:
 - a. In Case Manager Client, select Space Manager and open the Step Pages Space for your solution: Figure 21. Editing the Auto Claims solution pages



b. Select the page where you want to add your eForm or create your new page.

Figure 22. Adding the eForm Widget to an Auto Claims page

laim Details	÷				
H. Case Manager	Home Go to Spaces	Manage Spaces	Actions -		
Auto Claims Ste	ep Pages				
ask Work Details	Form Attachment Work Details		Work Details Form	Claim Deta	ilis 👻 Claim Details Adjuster 🛛 👳
fidgets (24)	Filter Widgets	0,		_	
	📄 Case Data	Case Form	Case 1	hformation	1
	Case Teolbar	Command		ctor for IBM Iss Process Jer	
	Document Viewer	Google Gadget	s 🛅 Pobos	kots	
fork item Toolbar					
OTK INCHI TOOLAAT					
UTR IDENT FOODAT					
ase eform				*==	Case Information
ase eform	d update case properties that we	re defined for the case	e type in the Case Manag		Case Information
case eForm Jses a form to display and	d update case properties that we	re defined for the case	e type in the Case Manag		No case selected
case eForm Jses a form to display and	d update case properties that we	re defined for the case	e type in the Case Manag		No case selected Summary Documents Tasks History
ase eform Ises a form to display and	d update case properties that we	re defined for the case	e type in the Case Manag		No case selected
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ase eform ises a form to display and	d updale case properties that we	re defined for the case	e type in the Case Manag		No case selected Summary Documents Tasks History Displays summary information about this case.

For our Auto Claims sample template, we have designed a page with an eForm widget, a Case Information widget, and a Document Viewer widget. Register the page so you can use the new or updated page as a step processor.

 Still in Case Manager Client, select Page Actions > Case Manager Page Settings.
 Figure 23. Registering the page

			A CONTRACTOR OF A CONTRACT OF A	
C X G	tomalocat https://ecmdemo1.e	ecm.ibm.local:9443/mur	n/enabler #pid%3DM092733E3ABA819349	47384ACF9AA3200
ails	*			
se Manager	Home Go to Spaces	Manage Spaces	Actions 🚽	
Claims St	ep Pages		Create Space	
	The second s	Add Task Form	Edit Space Settings	Claim
ITOIN Details	T offit Patacianient Work Details	ANG TASKT OTH	Set as Home	Chairi
			Manage Templates	
			Case Manager Page Settings.	
	ails se Manager	er Manager Home i Go to Spaces i Claims Step Pages	eils 🔹 👘 e Manager Home i Go to Spaces i Manage Spaces Claims Step Pages	ails See Manager Home i Go to Spaces i Manage Spaces Actions → Claims Step Pages Work Details Form Attachment Work Details Add Task Form Set as Home Manage Templates

d. Select **Step page** for Page Type, then click **Save** to register the page.

Figure 24. Registering the page as a step processor

Page Registration	23
This is a registered page. Click here to delete the registra Learn more	ation.
Page name:	
Claim Details	
Page description:	
Claim Details	
Page type:	
Step page	
Replace the following page with the new page:	
•	

- 2. Select the new page as your *step processor* for the step where the eForm is used:
 - a. In IBM Case Manager Builder, open your solution and navigate to the task where you want to use your eForm.
 - In Step Editor, select the step Record FNOL and update PageLayout with the page you just registered.
 Figure 25. Selecting a step processor in a task

Palette		-	Manage Workgroups	Manage Attachmen
	-		Start by adding a role or routes through the work	r workgroup swimlane to t flow. Learn more
Role Lane	Workgroup Lane		System	
Connector Stub Step	Step		Curdefined Participants FaunchSto	
Step Properties			Adjuster	
Name	Record FNOL			
Description	Record the First No	otice		
Instruction	Fill out the First No	tic		
Responses			CSR	× <u>×</u>
Reassign	Yes	*		Record FNOL
Deadline				THOL
Case Properties	Read and write			
Workgroups				
Attachments	Read and write			
Data fields				
Page Layout	Claim Details			
Swimlane	Form Attachment \ Claim Details	Work Details		
Split	Add Task Form			
	Work Details Form	uster		

- 3. Create an attachment field in the task where you use the eForm, using Step Editor:
 - To define a new attachment field FNOL_eForm, go to Manage Attachments at the top of the screen and define the FNOL_eForm attachment.
 Figure 26. Creating an attachment parameter

Palette		Manage Workgroups 👻	Manage Attachments 🔻
			A
	—	Start by adding a role or works routes through the workflow. L	Attachments
Role Lane	Workgroup Lane	System	An attached document is available when the case worker processes the steps. Specify a name for the attachment. Then, define the actual attachment as a workdow property in Process Designer. Learn more Initiating Attachment
Connector	Step	bants ante	<pre>None> If the task is started by a document precondition, you can select an attachment for that document.</pre>
Stub Step		peulopun LaunchStep	Add Attachment
			*Attachment Name
Step Propertie	ie.	ě	FNOL
	Record FNOL	Adjuster	Prompt
Name			OK Cancel
	Record the First Notice		
Name Description	Record the First Notice		
Description Instruction	Fill out the First Notic	20	
Description		CSR	Close

- 4. Assign the new attachment field to the *record FNOL* step, where the eForm will be used:
 - a. Select the step and the parameters, then navigate to the **Attachments** tab and select the attachment parameter you just created.

Figure 27. Assigning an attachment parameter to a task

Name	Record FNOL		Adjuster	Initial
			Attachments	Review
Description	Record the First N		Asachments	
Instruction	Fill out the First No	otic	Select Attachment 💌	
Responses				
Reassign	Yes		Select All Clear All	Filter Properties
Deadline				
Case Properties	Read and write	***	Name:	1.35
Workgroups			FNOL	
Attachments			OK Cancel	
Data fields				
Page Layout	Claim Details			
Swimlane	CSR			
Split	OR			
Join	OR			
OK Cancel				4

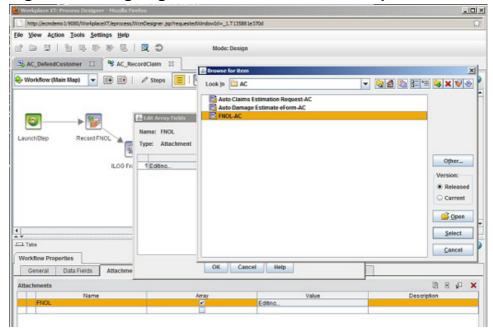
5. Fill the attachment parameter with the eForm template that is going to be used.

The IBM Case Manager Builder application does not allow users to pre-populate attachment fields in the first release. Attachment parameters are not case parameters; they only live for the duration of the task. In theory, you can assign an eForm in the application by displaying the attachments widget in a previous step. However, we don't want to require the user to do this. The eForm needs to be readily available when the step is opened.

To solve this problem, we need to make a round-trip to Process Designer to assign the eForm to the attachment parameter:

- a. Use the **File > Solution > Edit** menu option in Process Designer to open the task flows.
- b. Select the **Workflow Properties** tab and then the **Attachments** tab.
- c. Double-click on the value field of the multi-valued attachment field, browse the folder structure in the CMTOS object store, then select the eForm.

Figure 28. Assigning an eForm to an attachment parameter



Please note that it is a requirement to store the eForm in the object store where the application is deployed (CMTOS).

We performed the steps outlined above for the three eForms used in the Auto Claims sample template:

- The FNOL eForm used in the record FNOL step, in the record claim task
- The Request Estimate eForm used in the *request estimate* step, in the

create estimate task

• The Estimate eForm used in the *Prepare Estimate* step, in the *estimate* task

In the *create estimate* task, we used two attachment parameters containing the Request Estimate and Estimate eForms, and exposed each of them at the appropriate step.

Packaging and deployment

Case Manager object stores

IBM Case Manager requires a design object store to store the design artifacts and a target object store to store the runtime artifacts. By default, these object stores are named CMDOS and CMTOS.

The tools of the trade: CMAC and FileNet Deployment Manager

CMAC is an administration tool used to set up an ICM environment. It is also used to import solutions, create solutions from a template, or to promote a solution to be a template.

IBM FileNet Deployment Manager simplifies adding additional assets (like eForms) to the runtime solution. Specifically, this tool allows to redefine environment-specific data used by the application, such as user names and JDBC connections.

Section 6. Conclusion

Solution templates are an important part of the IBM Case Manager platform. They provide an accelerator for customers and partners in building their own solutions using the platform. As part of the first release of IBM Case Manager, IBM has provided two sample templates to serve as learning tools and validation points for the platform. This tutorial has introduced the Auto Claims Management sample template, described the assets it contains, and provided insights on how particular assets within the template were built. After reading this tutorial, you should be more familiar with the notion of templates and have an understanding of how to use IBM Case Manager in conjunction with the other tools in the IBM FileNet P8 platform to build a complete case management solution.

Section 7. Addendum Advanced ILOG JRules assets

ILOG JRules has advanced capabilities that fit well with an Auto Claims industry solution and go far beyond what is illustrated in the Auto Claims industry solution template. The ILOG Services team can provide the following assets that can be used for a production solution that is based on the Auto Claims industry solution template:

- A *rule-based case assignment* asset that allows you to assign work based on various conditions, such as:
 - Regulatory guidelines
 - Insurance policy/contractual agreements
 - Severity of damage and injury
 - Adjuster availability and expertise

• Workload balancing Figure 29. Advanced task assignment using ILOG

Content		
assignment ; if bodily injury exists in "the and "the adjuster group" ha then raise the preference for "th		
Attached Items		
Overridden Rules No overridden rule found		
Tags		
No tag found	The business analyst creates a new rule in <i>Skill Set</i> package to raise the preference level for groups that have <i>Bodily Injury</i> sk when there is bodily injury in the claim.	

• A *dynamic forms* asset that provides the option of a self-service front end to your Auto Claim solution. Based on answers given, it guides the claimant through the process of filling out the First Notice of Loss form

online before the CSR examines the claim data in the FNOL eForm provided with the Auto Claims industry solution template. This will provide the claim adjusters team with a more accurate data set, and it reduces the workload of the CSR team.

Downloads

Description	Name	Size	Download method
Artifacts of the Auto Claims sample template	AutoClaims.zip	12KB	HTTP

Information about download methods

Resources

Learn

- For more information, see IBM Case Manager Information Center to learn about IBM Case Manager and Take a guided tour of IBM Case Manager.
- Visit IBM FileNet P8 Information Center to learn about IBM FileNet P8.
- Learn more about IBM WebSphere ILOG JRules at the IBM WebSphere ILOG JRules Information Center.
- Visit the IBM Enterprise Content Management Application Center to get the resources you need to advance your skills with IBM Enterprise Content Management products.
- Learn more about Information Management at the developerWorks Information Management zone. Find technical documentation, how-to articles, education, downloads, product information, and more.
- Stay current with developerWorks technical events and webcasts.
- Follow developerWorks on Twitter.

Get products and technologies

- Build your next development project with IBM trial software, available for download directly from developerWorks.
- Now you can use DB2 for free. Download DB2 Express-C, a no-charge version of DB2 Express Edition for the community that offers the same core data features as DB2 Express Edition and provides a solid base to build and deploy applications.

Discuss

• Check out the developerWorks blogs and get involved in the developerWorks community.

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Jos Olminkhof is a member of the product management team within the IBM Enterprise Content Management organization. His focus is on integrating the ECM portfolio into strategic solutions within various industries. He has been with IBM since 2006 and FileNet since 1996, is certified in design, administration and development with FileNet P8 products, and has worked within the Information Management space for 18 years.