10 FixUp Tasks

This chapter reviews the steps you take to set up *Taskmaster's* FixUp tasks...tasks that take care of problems with images, data, document content and batch organization.

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Introduction

Often, within a *Taskmaster* workflow, a task in a **Main job** can divert **problem batches** to a **FixUp job** for further attention and repair. In this kind of configuration:

- The Main job is the *parent* job.
- The FixUp job is the *child* job.
- The operator of the FixUp **job's** FixUp **task** is responsible for assessing and correcting problems with the batch, its documents, its pages *and* its data.

Below, the Workflow Hierarchy of the pre-configured *1040EZ* application has opened to reveal connections between the PageID task of the 1040EZ workflow's *Main* job, and the FixUp task of the *FixUp* job.



1040EZ Taskmaster Administrator – Workflow tab Requires Fixup Condition

✓ A processing condition – in this case, *Requires FixUp* – forms the connection between the *parent* Main job and the *child* Fixup job. When you highlight the condition in the **Components** list on the left, properties of the condition appear on the right:



Condition Properties – Requires Fixup

When the PageID task encounters this pre-defined processing condition, the task does not conclude its work with the batch and assign a *Pending* status for the *next* task. Instead, it issues this message, and assigns a *Pending* status to the first task of the FixUp job:

Taskmaster Client		
Task 'Main Job.PageID' on finis with status 'additi Following condi Require Keep message box on th	i batch '20040344.006' has hed onal condition(s)'. tion(s) occured es Fixup he screen	Requires Fixup!
ОК	Hold	

This chapter examines the settings and operation of two types of FixUp tasks:

- **kFixUp** tasks (Page 23) use Kofax drivers as they work with batches formed by kScan tasks (Chapter 7).
- **iFixUp** tasks (Page 46) use ISIS drivers as they remedy problems involving batches formed by iScan tasks (Chapter 7).

First, however, take a close look at alternative ways to define the **processing conditions** that alert a task to branch a batch from a Main job's task to a FixUp job and its task(s).

- ✓ You can use the pre-configured 1040EZ training application to explore the basics of FixUp tasks and their operations, and to set up tasks of your own. To access this application:
 - Be sure your Taskmaster Server Service is up and running;
 - Select **Datacap Taskmaster** from the **Programs** options of your Windows Start button;
 - Open the **Applications** folder and the **1040EZ** sub-folder;
 - Double-click on the **1040EZ** icon.
 - Use your administrative security codes to logon to *Taskmaster* and the *1040EZ* application.

In addition, the *HCFA* and *UB92* applications of the pre-configured *Taskmaster for Medical Claims* system provide examples of FixUp configuration and procedures. (To access *Medical Claims*, follow the steps above – but select **MClaims** and **MClaims Client** from the **Applications** folder.)

The illustrations and examples in Chapter 10 are drawn from both the *1040EZ* and *Medical Claims* applications...and from the fictional *MQSW* application.

Processing Conditions

If the *1040EZ* application's PageID **task** (on the previous page) encounters a processing condition that has been labeled *Requires Fixup*, the task will place the batch in a *Pending* status and forward it to the FixUp **job** to await the attention of a FixUp **operator**.

In the *HCFA* application of the *Taskmaster for Medical Claims* system, *two* conditions have been defined and assigned to the HC_Recog task of the HCFA Main job. Two additional conditions have been defined and assigned to the HC_Verify task.



Medical Claims Taskmaster Administrator

✓ Very important! A condition is task-specific...it is set up exclusively for the task which displays its name. In the example above, *Mismatch in Doc/Page Count* belongs to the HC_Recog task and no other; *Mark for Review* is part of the HC_Verify task.

How to Define a Condition ID

Return to the *Workflow* tab of the *1040EZ* **Taskmaster Administrator**. Select the Main job's PageID task listing, and click on the Setup button. When the **Task Setup** dialog appears, select **Task Settings** from the **File** menu to open the **Task Settings** dialog for the PageID task (Chapter 6 describes the features of the **Task Settings** dialog.)

A FixUp **rule** that governs the performance of a task that encounters a condition such as *Requires FixUp* employs a **Task_RaiseConditions** action that identifies the condition (Page 11). First, however, you have to define the condition.

	Settings for PageID task	×
	General Filters Log Statistics	
	General Control Contro	
	Setup DCO path: C:\Datacap\1040ez\process\1040ez.xml	
	Input DCO path :	
	Automatic Mode Output DCO file : taskname .xml	
Condition ID	Module Create Batch Dir under : C:\Datacap\1040ez\batches	
	V 🔽 Job router 🔲 Unload form On End batch	
	Conditions to return :	
	Requires Fixup Add : Remove	
	Web analog exists. Use page :	
	Task Settings dialog – General tab	

PageID Task

To add the *String* value of a Condition ID, you'll take these steps:

Step	Action			

- 1. Select the Task ID of the *parent* job's task in the *Workflow* tab of the *Taskmaster Administrator*.
- 2. Press the Setup button.
- 3. In the *Task Setup* window, select **Task Settings** from the **File** menu.
- 4. In the **Module** area of the *Task Settings* dialog, enter the Condition ID in the field below the Add button.

Module Create Batch Dir under : C:\Datacap\1040ez\batches Job router Unload form On End batch	
Conditions to return : Requires Fixup Add : Remove Hold for Review Remove	New condition!
Web analog exists. Use page :	
OK Cancel Apply Help	

5. Click on the Add button. Be sure the Condition ID moves into the **Conditions to Return** list.

To Add the String Value of a Condition ID (continued)

Step	Action

- 6. Press the OK button and close the *Task Setup* window.
- 7. Press the *Taskmaster Administrator's* Apply and Done buttons.
- 8. Highlight the Task ID to be sure the new condition is listed.



✓ Important! In this example, Hold for Review is the task's second condition. When you use an action such as Task_RaiseCondition (Page 11), this condition has a zero-based index value of "1".

Job Router Task Types

The illustration of **Module** settings in Step #4 above includes a **Job Router** check box. To allow this task to divert a batch from its *parent j*ob to a *child* job, you *must* select this option.

You must be sure, as well, that the task's **Task Module** has a comparable **Type** property. The *1040EZ* application's PageID task uses an *Assemble* module with these properties:



Taskmaster Administrator – Modules tab

- ✓ A task cannot branch a batch from a Main *parent* job to a FixUp *child* job (in this case) unless both the Module Definition *and* the Task Settings assign Job Router capabilities.
- Don't hesitate to use the *1040EZ* application in a **Test** environment! to develop, sharpen and maintain your condition-defining skills.

Rules, Actions and the Document Hierarchy

The chart below shows how and why the HCFA Main *parent* job refers problem batches to various FixUp *child* jobs and their tasks:



The chart points out an important distinction between the conditions governing the response of the HC_Recog task – and those of the HC_Verify tasks and the HC_Sup Review task.

- Rules and actions determine how the HC_Recog task responds to problems with the internal Document Integrity of a batch, or to incorrect counts of documents and pages within the batch.
- A Data Entry operator's use of pre-defined keyboard combinations (Hot Keys) automatically dispatches a troublesome batch to the HCFA _SupReview *child* job or to the HCFA_FixUpRescan *child* job for review and possible repair.

Additional considerations are less obvious but just as important:

- Because the HCFA_FixUpRec **job's** HC_FixUpScan **task** handles batch organization problems, the task does not need to re-scan paper. Therefore, it operates in *FixUp* mode rather than *Rescan* mode.
- In contrast, the HC_FixUpReScan **task** of the HCFA_FixUp **job** operates in *Rescan* mode. This allows the task to resolve problems with batch organization *and* page quality.

Page 19 discusses the two modes, and Page 15 shows you how Hot Keys send a problem *Medical Claims* batch to the HCFA_FixUp *child* job. The next few paragraphs examine the way properties assigned to specific objects of an application's Document Hierarchy determine the required makeup of a batch – and how "FixUp" rules applied to those objects check the content and organization of each batch during processing, and forward problem batches to HCFA_FixUpRec *child* job.

Objects and Properties of a Document Hierarchy

A Document Hierarchy is an application's configuration *and* processing structure. Chapter 2 describes the Document Hierarchy's essential role; Chapter 3 shows you how to provide the hierarchy with objects at four levels: **Batch**, **Document**, **Page** and **Field** – and how to assign values to the objects' properties.

Below is a compact view of the *HCFA* application's Document Hierarchy. (For your own close-up look, click on your Windows start button and select these options:

Programs/Datacap Taskmaster/Applications/MClaims/ HCFA Rule Manager. When the Rule Manager Window opens, press the DCO button in the **Zone Hierarchy** area of the *Fingerprints & Zones* panel.)



HCFA Document Hierarchy

The *HCFA* Document Hierarchy has one **Batch** object –*HCFA* – with two **Document** objects: *HCFA Multi* and *HC Single*.

The highlighted *HC Single* document (in this example) has two **Page** objects. *HCFA* 1500 represents the document's *source* page... the page with user-entered data that will be recognized, validated, verified and exported. *Attachment* represents images of a claim's supplementary pages

The objects' Min, Max and Order properties contain important values:

At the **Document** level, "0" indicates that a batch (one level up) does not have to have a multi-page document (*HC Multi*) or a single-page document (*HC Single*). In fact, when the HC_Scan task first forms the batch, it consists entirely of *Other* pages assigned to a catch-all document.

- ◆ If the batch does include an *HC Single* document (in this example), properties of the *HCFA 1500* Page object specify that the document *must* have one but only one *HCFA 1500* page (*Max* = 1, *Min* = 1) and that this page be the document's first (*Order* = 1).
- An *HC Single* document can have an unlimited number of *Attachment* pages ((*Max* = 0, *Min* = 0) but these pages *must* come after the document's *source* page...its *HCFA 1500* page.
- ✓ These are simple but essential **Document Integrity** requirements and any batch that fails to meet these standards will be subject to FixUp procedures *if* there are rules to back up the demands.
- Alert! Note, too, the Expected_Documents and Expected_Pages Field objects at the bottom of the hierarchy. These fields are children of the Batch object rather than of a Page object. When a Scan task runs, the operator uses a Start Batch dialog to enter runtime values to indicate the expected number of documents in the batch, and the expected number of pages in the batch (For more about this process, see Chapter 7.)

Later, if Page and Document Counts rules are in place, the HC_Recog task will check to see if *actual* counts of pages and documents equals *expected* counts. If there is a discrepancy, the task will forward the batch to the HCFA FixUpRec *child* job for review and repair (see the chart on Page 9).

Document Integrity Rules

The *Rules* panel of the *HCFA* application's *Rule Manager Window* contains the rules that define the *Doc Integrity Rules* condition and the *MisMatch in Page Counts* condition – and link them to the HC_Recog task.

The illustration on the next page depicts the structure of the **CheckIntegrity** RuleSet that evaluates the integrity of each *HC Single* document.



HCFA Rue Manager Window – Rules panel

In this example:

- CheckIntegrity: HC Single Rule 1 uses its ChkIntegrity action to audit the integrity of an *HC Single* document. Does it have one (but only one) *HCFA-1500* page? Is this the first page in the batch? Are all other pages identified as *Attachments*, and do they come after the *HCFA-1500* page?
- If "Yes" is the answer to each question, the **SkipChildren** action intervenes to prevent **CheckIntegrity** rules from being applied to "children" of the document (in this case, pages). The RuleSet closes without going to **CheckIntegrity: HC Single Rule 2.**
- If "No" is the answer to any of the questions, Rule 1 closes and Rule 2 takes over. Here:

Task_NumberOfSplits(1) splits the batch from the *parent* job.

Task_RaiseCondition(0,0) responds to its first parameter ("0") by assigning the entire batch to the *child* FixUp job designated in the *Workflow* tab of the *Taskmaster Administrator*. The action's second parameter (also "0") associates the first processing condition – *Doc Integrity Rules* – with the diversion of the current batch to the *child* FixUp job.

SkipChildren(0) avoids the application of additional Check Integrity rules at the Field level.

Document and Page Count Rules

Operations of a kScan or iScan task begin when the task presents the task's operator with a *StartBatch* panel - and the operator fills in his estimates of the **Number of Documents** in the scanner's tray, and the **Number of Pages**:

StartBatch	
Datacap Sc	an Task
Number of Documents	25
Number of Pages	50
Scan	Cancel

kScan StartBatch Panel

These amounts are recorded in the task's Page file (Chapter 6) and picked up by succeeding tasks. In the case of the *Medical Claims* applications, they become the values of the Document Hierarchy's *Expected_Document and Expected_Pages* fields (see the illustration on Page 10).

Typically, a Recognition task such as the *HCFA* application's HC_Recog task will compare *expected* counts to *actual* counts. If the task is responsible for applying Document and Page Count rules, it can branch a batch with discrepancies to a *child* FixUp job.

In the example on the next page, a **CheckCounts** rule is "bound" to the *HC Single* **Document** object. (For a complete explanation of rules and Rule Definitions, see Chapter 5.)

This CheckCounts RuleSet has two rules:

- In the first, the **CheckDocCount** action compares *expected* document to *actual* documents. If the numbers agree, the RuleSet closes.
- If the numbers do not agree, the task...
 - temporarily splits the batch from the *parent* job;
 - associates it with the task's second condition (*MisMatch in Doc/Page Count*, in this case);
 - delivers the batch to the first FixUp *child* job;

- directs the task to forego **CheckCounts** rules applied to pages within the document.



HCFA Rule Manager Window – Rules panel

Important! Although the default *HCFA* application does not count pages, *Rule Manager's* **CheckCounts** RuleSet has a **CheckPageCount** action that you can bind to a **Page** object.

How FixUp Hot Keys Work

In the chart on Page 9, the HC_Verify task of the HCFA Main job employs two conditions: *Mark for Review* and *Rescan Required*.



HCFA Taskmaster Administrator - Workflow tab

Important! These conditions respond to mechanical stimuli: if the task's operator decides to mark a page for further review (and send the batch to the HCFA_SupReview *child* job), he or she can use a "hot key" combination while in the *Data Entry* panel. (Chapter 9 lists a Verify task's hot keys.)

Similarly, if one or more pages need to be re-scanned, the operator uses a different hot key combination to forward the batch to the HCFA_Fixup *child* job.



HCFA Taskmaster Administrator - Workflow tab

The next page shows a portion of the *HCFA* application's *Data Entry* panel. In this example, two pre-defined Hot Keys give the Data Entry operator a chance to branch the current batch to a *child* job for review and possible repair:

- F2 marks the current page for further review. *After* the operator has finished verifying the batch, the batch will be diverted to the HCFA_SupReview *child* job.
- Ctrl+Alt+R marks the current page for re-scan and branches the batch to the HCFA_FixUp *child* job, in accordance with the properties of the HC_Verify task shown on the previous page.

Using the mechanics of the F2 key as an example, the procedure begins when the operator launches a batch waiting for Verification.

. · · · ·	📮 Job Monitor - all Refresh rate 5 min 0 sec				
	QID	Batch ID	Job.Task	Status	
1	19	20050096.008	HCFA Demo.HC_Verify	pending	
2	18	20050096.007	HCFA Demo.HC_Recog	pending	
3	17	20050096.006	HCFA Demo.HC_Recog	pending	
4	16	20050096.005	HCFA Demo.HC_Recog	pending	
5	15	20050096.004	HCFA Demo.HC_Recog	pending	
Le.	11		HCEA Dano HC.Recos	peodina	
١.		HCF	A Job Monitor		
◀					
HC_AGUIA -	Batth Pilot				
e Edit View	Navigate Help)			
3 X 🖻] <u>}</u> 😋	• ?		
- 1a. Insured's	ID	📄 2. Patient Nar	ne/Address/Zip Code		
OFIE	75047	2 P671F	NTS NAME (Last ve no First Name, Middle Initiali	D. PATIENT MM	
3040	70813	14	YLOR, LAURA	ଭ୍ୟ	
95457581	13	29	15 MEST GETH STREET	E PAUESI Edit V	
		CITY		S A E S. PATENT	
- 3.Patient's D	OB	Mark Fo	r Review		×
<u>86 1</u>	2 38				, py
• • • • • • •		Mark Page	and Document For Review?	OK	ime
					_
06121938	3				
06121938	3	l		Cancel	
06121938 - 3.Patient's Se	8	l		Cancel	
06121938 3.Patient's Se	ex	L L		Cancel	
06121938 3.Patient's Se	3 ex Female	L F Enter comr	nents (leave if none)	Cancel	
06121938 3.Patient's Se	3 ex Female	F Enter com	nents (leave if none)	Cancel	

HCFA Data Entry Panel

If the operator feels that a page in the batch warrants a Supervisor's attention, he presses his keyboard's F2 button: the Verify task displays the *Mark for Review* dialog.

After inserting an *optional* comment and closing the dialog, the operator completes his work with the batch – almost.

The *Taskmaster Message* pad now alerts the operator that the Verify task has encountered a *Mark for Review* condition. As a result, the batch will be branched to the HC_SupReview *task* of the HCFA_SupReview *job*.



Taskmaster Message Pad

🖵 Job Monitor - all Refresh rate 5 min 0 sec						
	QID	Batch ID	Job.Task	Status 🕨		
1	20	20050096.008	HCFA_SupReview.HC_SupReview	pending		
2	19	20050096.008	HCFA Demo.HC_Verify	waiting 🔨	TT 7 1.1 T 7	
3	18	20050096.007	HCFA Demo.HC_Recog	pending	<i>— Waiting</i> Ver	
4	17	20050096.006	HCFA Demo.HC_Recog	pending	task	
5	16	20050096.005	HCFA Demo.HC_Recog	pending		

HCFA Job Monitor

Now, it is the Supervisor's responsibility to run the HC_SupReview task and take care of any problems. When she's finished, the *HCFA Job Monitor* will list a HCFA_SupReview job with a *Job done* status, and an HC_Verify task with a *pending* status – now waiting for the final efforts of the Data Entry operator.

í	📮 Job Monitor - all Refresh rate 5 min 0 sec					
		QID	Batch ID	Job.Task	Status	
r.	1	20	20050096.008	HCFA_SupReview.HC_SupReview	Job done	
	2	19	20050096.008	HCFA Demo.HC_Verify	pending	
	3	18	20050096.007	HCFA Demo.HC_Recog	pending	
	4	17	20050096.006	HCFA Demo.HC_Recog	pending	
	5	16	20050096.005	HCFA Demo.HC_Recog	pending	



✓ A Data Entry operator can take advantage of numerous, pre-defined Hot Keys to navigate through a panel and a batch, and Hot Keys such as F2 and Ctrl+Alt+R to forward a batch to a child job. (See Chpater 9 for a list of all pre-defined Hot Keys.)

However, although these Hot Keys exist, the link between a particular Hot Key and a specific condition that is a property of a specific task does not.

Linking a Hot Key to a Task's Condition

A Hot Key is a property of a Data Entry form (.dcf) – and the form is a component of a Verify Task Project (bpp). Both the project and its form are set up in the *Batch Pilot* workshop (Chapter 6).

The *HCFA* application's Verify task operates according to parameters and code provided by the **HC_BPVerify.bpp** Task Project. The project's *runtime* form (**hcfa.dcf**) is the foundation for the *HCFA* application's *Data Entry* panel – and is a component of the project.

Hot Keys are properties of the form. In this illustration, *Hot Key 2* is the F2 key.

📙 🗅 🛸 🖶 🎒 📗	2 X 🖻 🖬 🔲 📘	
- 1a. Insured's ID	2. Patient Name/A	\ddress/Zip Code
	ot Keys	×
	Global Project Form	
3.Patient's DOB	Key indexes : Hot Key 1 Hot Key 2 Hot Key 3 Hot Key 4 Hot Key 5]
- 3.Patient's Sex	Add Remove Selected key combination : F2	
- 11. Policy Number	OK Cancel	

The *behavior* of the F2 key as a property of the form, the project and –ultimately – the Verify task is a *scripted* element of the project itself.

Technically, a *Pilot_OnHotKey(KeyIndex)* subroutine introduces the F2 Hot Key, and calls the **MarkForReview(Pilot.ActiveObject)** function. This function, in turn, determines exactly what will happen when an operator clicks on the F2 key.

Very important! A Hot Key that diverts a batch to a *child* job in response to a processing condition by a task in the *parent* job cannot operate correctly without a script. For assistance in preparing such a script, be sure to contact your Datacap Implementation Specialist.

Child Job Definitions

A task in the *parent* Main job cannot branch a batch to a FixUp *child* job until the *child* job has been fully defined.

🐣 Taskmaster Administrator		×	
🚦 Workflow 🔌 Modules 💯 Groups 🖸	Users 🖳 🖳 Statio	ns 💽 Shortcuts 🔎 QA	
🖃 😪 1040EZ	Condition	Values	
Fixup Job	ID	Hold for Review	
⊟… L <mark>.</mark> Main Job	Action	Branch	
Vscan	Child Job	Review Job Pending Pending	
	Parent status		
1 Hold for Review	Child status		
	Clinia Status		
`•, Verify	steps		
Export			
- L. Review Job			

Chapter 6 fully describes the straightforward procedure of adding a *parent* job (such as a Main or Demo job) to a workflow.

However, a *child* job is different:

- The job and its tasks become available *only* in response to an action of a task in the *parent* job.
- Upon concluding its work with a batch, the *child* job must return the batch to the *parent* job.
- This ability to form a parent/child relationship is an attribute of the *child* job and, therefore, a property of its Job Definition.
- The definition of a *child* job is complete *only* when it includes the designation of an opening task that functions in a FixUp role, or in another, clearly delineated secondary role.

These considerations mean that defining the *child* job is a process outlined in the chart on the next page:

- *Very important!* The definition of a *child* job begins with the definition of the opening task's Task Project in the *Batch Pilot* environment.
- The second stage creates a Task Module for the iFixUp or kFixUp task.
- The third stage defines the *child* job.
- The concluding stage defines the *child* job's opening task and links it to the job.



To define a *child* job, take these steps:

Step	Action
1.	Define the FixUp Task Project (.bpp) by following the steps on Page 25 (kFixUp) or Page 49 (iFixUp). Keep in mind that your application's Document Hierarchy (.xml) is a <i>required</i> property of the new Task Project – and that the Task Project alos requires a FixUp form (.dcf).
2.	In the <i>Modules</i> tab of the <i>Task Master Administrator</i> , define a Task Module to link the FixUp Task Definition to the Task Project - Page 29 (kFixUp) and Page 53 (iFixUp).
3.	In the <i>Workflow</i> tab, highlight the application's Worlflow component in the Components area on the left and click on the Add button at the bottom of the tab.



4. Enter the *child* job's Job ID (illustrated on the next page.)

😪 Taskmaster Administrator		X
Ҵ Workflow 🍬 Modules 💯 Groups 💆	Users 🖳 🖳 Station	ns 💽 Shortcuts 🔎 QA
E- 🔍 MQSW	Job	Values
Demo Job	ID	FixUp
	Description	ISIS Repair and Rescan
	Priority	5
Li Web Main Job	Parameters	
		•

To Define a Child Job (continued)

Step	Action					
5.	Add a brief but <i>important</i> Description in the Values column of the Properties area on the right.					
6.	Press the Apply and Done buttons at the bottom of the tab. Be sure the new Job ID continues to be listed in the Components area.					
7.	Highlight the <i>child</i> job's Job ID and	click on the A	dd button.			
8.	Enter the Task ID you're assigning to	o the job's ope	ning task.			
	Taskmaster Administrator) Users 🗐 🗐 Statio	ns 🗵 Shotcuts 📿 🖂			
		Task	Values			
	FixUp Module					
	Main Job Task Monitor					
	Web Main Job	Queue to	Anybody anywhere			
		Store	Nothing			

9. Add a brief but *important* **Description** of the task – an iFixUp task, in this examples.

Setup...



To Define a Child Job (continued)

Step	Action

- 10. Select the Task Module you defined in Step #2 from the **Module** drop-down list.
- 11. Press the Apply and Done buttons at the bottom of the tab. Be sure the new Task ID continues to be listed in the **Components** area.
- 12. Press the Setup button to assign settings to the kFixUp task (Page 33) or iFixUp task (Page 57).

	👈 i F	ixUp Setup - Bato	:h Pilot		
	File	Edit View Help			
] 🔝	🕹 X 🖻 🛙	2 × 😵		
Processing modes		ISIS Fixup v.6.0.13 Fixup Task S G Fixup/ Res G Fixup Only Allow Asse	3 Settings — scan mble	Turn Log On Flatbed Check Count Check Structure	Settings File: (one for each different scanner)

✓ Alert! It's not too early to decide on the FixUp task's processing mode. Will the task's scope be limited to batch organization problems (FixUp Only in the example above) or can it physically re-scan paper as well (the FixUp/Rescan option above). This determination has an immediate impact on the steps you take to configure a kFixUp task (Page 23) or an iFixUp task (Page 46).

kFixUp Tasks – Setup and Operation

A **kFixUp** task has a *setup* component and a distinctly different *runtime* component. You work with the *setup* component when you define the task or modify its Task Definition. A qualified FixUp operator uses the *runtime* component when he or she reviews, repairs and sometimes re-processes problem batches.

✓ Important! A kFixUp task is closely related to a workflow's kScan task (Chapter 7). Many features are identical; for example, if you assign Fixup/Rescan capabilities to the kFixUp task, the task may employ the same source device and probably the same scanner as the kScan task. Other *setup* properties differ, however, and are described in the following sections.

kFixUp Tasks - Setup

Like most tasks, a kFixUp **Task Definition** needs a Task Identity, a Task Project, a Task Module and basic setup specifications. (For a complete review of Task Definition components, see Chapter 6.)

The configuration of a new kFixUp task is a process with five phases. *Alert!* Chapter 6 describes details of this process. This section examines those elements of task configuration that are associated with the setup of kFixUp tasks.



Phase 1 (on the next page) adds a kFixUp **Task Project** (.bpp) to your application's **Process** directory.

During Phase 2 (Page 29), you'll define the **Task Module** that will connect your kFixUp task to the Task Project you established in Phase 1.

Phase 3 provides the kFixUp Task Definition with a formal identity and assigns key properties to the task itself (Page 31).

Phase 4 uses the *kFixUp Setup* dialog to assign a KOFAX-certified scanner to the task – if the task can rescan problem pages - and operating specifications to the task and scanner, if applicable (Page 33).

Phase 5 reviews and modifies values in the tabs of the Task Settings dialog (Page 38).

The *setup* specifications for a kFixUp task will be part of its Task Project (.bpp). You can add them to the Task Project after you have a Task Module to connect the Task Definition to the Task Project, and have the established a Task Identity that designates the Task Module as a key property (Page 29).

The following illustrations show how the RuleRunner task of the fictional *MQSW* application's Main job will branch to the FixUp job if the task encounters a "Doc Integrity" condition.

😪 Taskmaster Administrator		×
🚦 Workflow 🍬 Modules 💯 Groups 💆	Users 🖳 🖳 Statio	ns 💽 Shortcuts 🔎 QA
⊡ 🔍 MQSW	Condition	Values
L. DemoJob	ID	Doc Integrity
Fixup Job	Action	Branch
KFixup	Child Job	Fixup Job
Kscan	Parent status	Hold
⊟ [*] ⊒→ RuleRunner	Child status	Pending
Contegrity	Steps	0
Verify		
Web Demo Job		
Li Web Main Job		

MQSW Taskmaster Administrator – Workflow tab

The FixUp job's *kFixUp* task employs the *kFixUpMod* Task Module:



The Task Module, in turn, links the kFixUp Task Definition to the *kFixUp* Task Project (.bpp) that you have *previously* assembled.

🔧 Taskmaster Administrator		<u>×</u>	¢
🚦 Workflow 🍬 Modules 💆 Groups 💆	Users 🗐 💻 Station	ns 🛛 🖉 Shortcuts 🛛 🔎 QA 🗎	1
Task Modules	Task Module	Values	
🔍 Fixup	ID	kFixUpMod	
🔍 İndex	Description	Module - kFixUp tasks	
NScan	Туре	Job router	
[†] + FixUpMod	Program name	Batch Pilot DLL	Task Project
🔨 Kscan	Deremetere	uter more bee	
MultiVscan	Parameters	wwprocesswnxup.ppp	
🔍 RRAssemble	Statistics table		
* ≓ ≁ RRExport	Batch ID field		
RRVscan		Test	
■ Scan			

Now, if you highlight, the *kFixUp* Task ID in the **Components** area of the **Taskmaster Administrator's** Workflow tab, and click on the **Setup** button in the **Properties** area, the Task Project's **Setup** dialog will appear on your screen. (The section that begins on Page 33 describes the features and options of the kFixUp task's **Setup** dialog.

● Fixup/ Rescan ■ Turn ○ Fixup Only ■ Check	Log On sk Count	Sca	nner Settings: — Set D	evice
Allow Assemble	sk Structure		Device Property	Storage Property
			Advanced	Source Option
Page Statuses			Image Processir	ng/Endorsement

kFixUp Setup Specifications – FixUp and Rescan Modes

✓ The Application Wizard Guide shows you how to use the Taskmaster Application Wizard to install and develop a new application such as MQSW.

kFixUp Setup – Phase 1: Task Project

The definition of a kFixUp task begins with its Task Project.



The Task Project contains the task's *setup* and *runtime* forms – as well as the software that runs the task. The Task Project is also a file (.bpp) - a file that includes the criteria and settings you assign in Phase 4 and Phase 5, as well as the forms.

1. *Important!* Your application's Document Hierarchy is a *required* property of a Task Project. By the time you start setting up FixUp tasks, the Document Hierarchy file (.xml) will be firmly in place – and immediately available to you (see Chapter 3 and Chapter 6).



To Assemble a kFixUp Task Project

Step	Action
1	Be sure that the Workflow component of the Workflow Hierarchy that will

- 1. Be sure that the **Workflow** component of the Workflow Hierarchy that will contain the task includes a Document Hierarchy file (.xml).
- 2. Select **Datacap Taskmaster** from your Windows Start button's **Programs** options.
- 3. To open the *Batch Pilot Window*, double-click on the **Batch Pilot** icon in the **Batch Pilot** folder. (*Batch Pilot* is the workshop you'll use to put together the Task Project in this phase, and assign task properties in Phase 4 and Phase 5.)
- 4. Select **New Project** from the window's **File** menu. *Batch Pilot* will instantly ask you to enter the name and path of the Document Hierarchy file in the *Open File* dialog. Use the window's **Form** menu to be sure the project is *not* in **Design** mode.)

New setup us	ing DCO setup file				? X
Look in: 🔁	process	•	🗢 🔁	-11 🖄	
scripts					
MQSW.xm	1				
🔮 taskname.:	×ml				
File name:	MQSW.xml			Oper	n
Files of type:	DC0 Setup Files (*.xml)		-	Cano	el
					//

New Project Setup -Document Hierarchy file

To Assemble a kFixUp Task Project (continued)

Step	Action
5.	Select the application's Document Hierarchy file (.xml) from your application's Process directory, and click on the Open button to return to the <i>Batch Pilot Window</i> . (For thorough explanations of <i>Batch Pilot</i> and the <i>Batch Pilot Window</i> , you can click on the Help button at the top of the window, or refer to the <i>Guide to Batch Pilot</i> .)
6.	Confirm that the Batch View area at the bottom of the window displays a

Confirm that the Batch View area at the bottom of the window displays a
 Setup form item in the Type column, as well as the Batch object of the
 Document Hierarchy you've specified (*MQSW* in the example below.)



7. Highlight the *SetupForm* listing and right-click in the **FormPath** column.. Select the **Pick form**...option.



-			
Step	Action		
8.	Use the Open File dialog to navigate to the Datacap directory's BPilot		
	folder.		

To Assemble a kFixUp Task Project (continued)

9. Select **kfixup.dcf** from the **FixUp** folder's **kFixUp** sub-folder, and press the dialog's **Open** button.

Open	
Look in: 🔄 KFixup	÷ •
 ▶ Fixup.dcf ♥ PageData.dcf 	

10. When you return to the *Batch Pilot Window*, check the file name and path in the **Form Path** column of the **Batch View** area.

kFixUp.bpp SetupForm : kfixup					
e Edit View Form Layout Scr	ript Help				
🗅 📂 🖬 🎒 🔝 🛛 X 🖻					
Setup] Image Start Run Fixup	Status				
Kofax Fixup v.6.0.5 г⊸ Fixup Task Settings	· · · · · · · · · · · · · · · · · · ·	Setting	s File:	\process\fixupBP.ini	
	Turn Log On		anner Settings:		
C Fixup Only	Check Structure				
	<u>.</u>	<u></u>	Device Property	Storage Property	
			Advanced	Source Option	
Page Status	ses		Image Processir	ng/Endorsement	[
Туре	Form Path				
C: (Datacap)5Pilot (Pixup) kPixup, dcr MQSW Image: Second sec					

11. Select **Save As** from the **File** menu to save this Task Project in your application's **Process** directory - and make it *instantly available* to a kFixUp Task Definition (Page 31).

kFixUp Setup – Phase 2: Task Module

A Task Module connects the kFixUp Task Definition to its Task Project.



When you're setting up a new kFixUp task – and do not yet have a Task Module – you'll take the steps below steps to define it. *Remember!* You cannot define a Task Module until a Task Project is firmly in place (Page 25).

Step Action

- 1. Open the *Modules* tab of your application's *Taskmaster Administrator*.
- 2. Click on the Add button to clear the fields in the **Values** area on the right.
- 3. Enter a unique Module **ID** and a brief but important **Description** of the module.

Task Module	Values
ID	kFixUpMod
Description	Module for kFixUp tasks
Туре	Normal
Program name	Batch Pilot DLL
Parameters	vVprocess%FixUp.bpp
Statistics table	
Batch ID field	
	Test

- 4. Select *Normal* from the **Type** drop-down list.
- 5. Select *Batch Pilot DLL* from the **Program Name** drop-down list.
- 6. Click once in the **Parameters** field to display the field's Browse button. Click on the Browse button to retrieve the *Open File* dialog and select the Task Project file (.bpp) you assembled in Phase 1 (Page 25).

Task Module	Values
ID	kFixUpMod
Description	Module for kFixUp tasks
Туре	Normal
Program name	Batch Pilot DLL
Parameters	Wprocess%FixUp.bpp
Statistics table	
Batch ID field	
	Test

To Define a kFixUp Task Module (continued)

01	Antinu		
ыер	Action		

7. Press the Apply button at the bottom of the *Taskmaster Administrator*. Confirm that the new module's ID is now part of the **Task Modules** list on the left-hand side.

Taskmaster Administrator		
🚦 Workflow 🍬 Modules 📝 💯 Groups 🖉	Users 📃 💻 Station	ns 💽 Shortcuts 🔎 Q/
Task Modules	Task Module	Values
🍬 Fixup	ID	kFixUpMod
🍬 Index	Description	Module for kFixUp tasks
■v MScan	Type	Normal
🔍 kFixUpMod	1,100	Patata pilat pila
■√ Kscan	Program name	Batch Pilot DLL
■s MultiVscan	Parameters	C:\Datacap\MQSVV\proce
🍬 RRAssemble	Statistics table	
RRExport	Batch ID field	
RRVscan		Test
■s rScan		rest
🔍 RuleRunner		

8. Press the Test button. If the connection between the Task Module and Task Project is secure, you will receive this technical message:

Taskmaster Client	
Successfully connected to a DCO compatible tas 'TMTask.BPilot' via OLE.	:k

kFixUp Setup – Phase 3: Task Identity

Phase 3 assembles the kFixUp task as a *Taskmaster* component, and assigns the Task Module (Phase 2) that will connect the Task Definition to its Task Project (Phase 1).



To provide a kFixUp task with its identity:

Step Action

- 1. Open the *Taskmaster Administrator's Workflow* tab.
- 2. Right-click on the *child* job that you previously defined (Page 16) –and which will contain the kFixUp task (*FixUp*, in this example.)

Taskmaster Administrator		
🚦 Workflow 🍬 Modules 💯 Groups 🖸	Users 🖳 🖳 Statio	ns 💽 Shortcuts 💭 QA
	Job	Values
	ID	FixUp
Lit FixUp	Description	FixUp using Kofax
	Priority	5
🕂 Web Main Job	Parameters	
·····L [*] wed Main Job	Farameters	

3. Select **New** and **Task** from the options.



4. Enter a *unique* Task ID in the open space below the Job ID (illustrated on the next page). Be sure this value appears in the **ID** field of the **Values** area as well.



To Provide a Task Identity (continued)

Step Action

- 5. In the **Values** area, enter a brief but *important* **Description** of this kFixUp task.
- 6. From the **Module** drop-down list, select the ID of the Task Module you defined in Phase 2 (Page 29).
- 7. Do not alter the *default* value of the Queue to property. If operations of subsequent tasks within this *child* job are to be restricted to the operator or workstation that launches *this* task, select one of the values in the Store property's drop-down list. (Chapter 6 and *Taskmaster* Help explain the Queue to and Store properties.)
- 9. Press the *Taskmaster Administrator's* Apply button to save the identifying properties of the kFixUp Task Definition.

You can find complete explanations of Task Identity procedures in Chapter 6, or by pressing your F1 key when you are in the *Workflow* tab. This opens the set of *Taskmaster Help* topics that covers all aspects of the tab...including the elements of a Task Definition and its **Queue** to and **Store** properties.

kFixUp Setup – Phase 4: Setup Specifications

Phase 4 uses the kFixUp Setup dialog to determine the task's scope – FixUp Only or FixUp and Rescan.



If the kFixUp task can rescan pages, you'll use this phase to review and possibly modify the scanner settings of the *parent* job's kScan task – and to assign new scanner settings.

For either processing mode, you'll evaluate and possibly select specifications that belong only to a kFixUp task.

To begin this phase, highlight the Task ID you established in Phase 4 and press the Setup button in the *Task Master Administrator's Workflow* tab:



MQSW Taskmaster Administrator – Workflow tab

Pay close attention to the **Description** in this example: the Administrator intends to set up this task to remedy images and batch organization *and*, if necessary, to rescan portions of the batch – or maybe the entire batch.

When you first press the Setup button, the warning on the next page will appear on your screen:

To operate, the kFixUp task has to retrieve and update parameters in the [ScanCtrl] sector of a Settings file (.ini) established for the task's workflow (*MQSW*, in this example.) The Settings file – **mqsw.ini** - is in the application's **Process** directory.

The setup process will give you full access to the *Setup* dialog as soon as you enter the file's name and path in the **Settings File** field.



After you have identified the application's Settings file, indicate whether the kFixUp task can carry out FixUp and Rescan procedures (FixUp/Rescan) – or if it will be restricted to FixUp procedures (FixUp Only). These are radio buttons: you *must* select an option.

Kofax Fixup v.6.0.4 Fixup Task Settings Fixup/Rescan Fixup Only Allow Assemble	Tum Log On Check Count Check Structure			
FixUp Task Scope				
Scanner Settings.	Device			
Device Property	Storage Property			
Advanced	Source Option			
Image Processi	ng/Endorsement			

Scanner and Source Device

✓ Very important! To operate in *FixUp/Recan* mode, the task needs a scanner and a Kofax Source Device. During setup, however, you cannot select a Source Device, or parameters in the Scanner Settings area, until you have defined the device (Chapter 7) and have connected Taskmaster Client to the scanner.

kFixUp Options

The radio buttons in this section determine whether the task will be responsible for both FixUp *and* Rescan procedures, or just FixUp.

- **Fixup** activities adjust and enhance pages; move pages round within the batch; re-constitute documents, and re-organize the batch.
- **Rescan** is a physical process that scans one or more pages and replaces existing Image files with the new files.

Kofax Fixup v.6.0.5 Fixup Task Settings Fixup/ Rescan Fixup Only Fixup Only Allow Assemble	Turn Log On Check Count Check Structure
Page Sta	tuses

Four additional but *optional* settings in this area can expand the task's scope:

- Allow Assemble permits the task to re-assemble the *batch and its documents* after FixUp and possible Rescan operations are complete. This option places a Rebuild button on the task's processing dialog (Page 40) and can resolve apparent Document Integrity problems without delay.
- Turn Log On instructs the task to create a log of its activities, according to specifications you provide in the *Log* tab of the *Task Settings* dialog (Chapter 6). A log can be a very helpful tool as you evaluate the task's performance and contributions.
- Check Count counts the *actual* number of documents and pages in the batch; compares the totals to the *expected* counts; and alerts the FixUp operator if there are discrepancies. *Alert!* This option *must* be checked if a Document and Page Counts rule is in place (Page 13_.)
- Check Structure assesses the structure of each document in terms of the types of pages it contains; the total number of pages; and the number of each Page Type.
 Alert! This option must be checked if a Docoument Integrity rule is in place (Page 11).

Page Status Button

The Page Statuses button opens a dialog with two fields:

• **Problem Statuses** lists the statuses of pages with "problems." A page with a Problem Status *cannot* be processed by other tasks until kFixUp has resolved the problem and the Fixup operator has assigned a *Done* status to *all* pages in the batch (Page 40). **Done Statuses** are Page Statuses that an operator assigns to indicate how a problem has been resolved – and to make the current page available for further processing.

h FixUp Setup - Batch Pilot			
File Edit View Help			
] 🖳 🎒 X 🖻 💼 🗙 💡	•		
Problem Status	Done Status		
PAGE_NEEDSREVIEW PAGE_SCANBAD PAGE_ANCHORNOTFOUND PAGE_NORECOG PAGE_PESCAN PAGE_VERIFYFAIL PAGE_HOLD BP_PAGE_ERROR	PAGE_RECOGOK PAGE_SCANOK PAGE_VERIPOK PAGE_VERIPOK PAGE_OVERRIDE PAGE_OVERRIDE PAGE_DVERRIDE PAGE_DVERRIDE PAGE_EXPORTED PAGE_REMOVED PAGE_REMOVE BP_PAGE_OK		
ОК	Cancel		

kFixUp Setup – Page Statuses

✓ Directional buttons in the *Page Status* dialog move statuses from one side to the other. When you press the OK button, the dialog's current listings update the task's Settings file (Page 34).

Alert! A task assigns a status to every page it processes. Placing a Page Status in the **Problem Status** list means that a page with that status *cannot* be released from the kFixUp task until the task has taken care of the problem and its operator has assigned a new **Done** status – or the problem page has been deleted. Be careful when you compile the list: too many "problems" can hamper productivity.
Scanner Settings

The right-hand portion of the *kFixUp Setup* dialog assigns a Kofax scanner device and scanner criteria to be used exclusively by the kFixUp task's re-scan procedures.

- ✓ The source device you select and the scanner settings you assign may or may not be the same as those of the kScan task (Chapter 7). However, you must define the kFixUp device before you add these specifications. *Be sure*, too, that you have connected Taskmaster Client to the scanner, and that the scanner is on, before you attempt to access these settings.
 - To supply your kFixUp task with a Source Device, you'll take the steps below. Again, you *cannot* proceed until you have connected the scanner (with its Kofax image controls) to your computer *and* have turned on the scanner.

Step	Action
1.	Follow the instructions on Page 33to open the <i>kFixUp Setup Specifications</i> window (illustrated on the previous page.)
2.	Click on the Set Device button: the Select Scan Source dialog will appear.
3.	Select the applicable Kofax Source Device from the drop-down list. <i>Alert!</i> Be sure the Source Device you choose includes the scanner you're working with, as a component.
4.	Click on the OK button at the bottom of the <i>Select Scan Source</i> dialog: <i>Taskmaster</i> will assign the device to the task <i>and</i> will update the task's Scanner Settings file (.ini) with device information. (For an explanation of this file, see Chapter 7).
5.	Click on the OK button at the bottom of the <i>kFixUp Setup Specifications</i> window; when the <i>Taskmaster Administrator's Workflow</i> tab appears on your screen, press the Apply button then the Done button.
At this button, drop-d Scann	point, if you re-open the <i>kFixUp Task Setup</i> dialog and click on the Set Device the <i>Select Scan Source</i> dialog will automatically display the device name in its own list. If you press the Properties button, a read-only edition of the <i>Select</i> <i>er</i> dialog will appear, with information about the scanner and engine.

If you press the Advanced button, the *Advanced Source Properties* dialog will appear. Chapter 7 fully explains the settings and options of this dialog.

kFixup Setup – Phase 5: Task Settings

The closing phase of a kFixup task's setup involves specifications in the tabs of the *Task Settings* dialog.



✓ To access this dialog, select Task Settings from the *Batch Pilot Window's* File menu after you have entered Task Criteria in Phase 4 (Page 33).

The *Task Settings* dialog of a typical kFixUp task contains nothing exceptional (see Chapter 6 for a full explanation of this dialog.)

👈 FixUp Setup - Batch Pilot		
File Edit View Help		
] 🛄 🎒 🕺 🖻 🛍 🗡 🤋		
	Settings for FixUp task	×
Kofax Fixup v.6.2.9 Fixup Options C Fixup/ Rescan	General Filters Log Statistics General Setup DC0 path : C:\Datacap\MQSW\process\mqsw.xml Input DC0 path :	
Allow Assemble	Automatic Mode Output DCD file : taskname .xml Module Create Batch Dir under :	brage
Page Stati	Job router Unload form On End batch Conditions to return : Add : Remove	dorse
	☐ Web analog exists. Use page :	
	OK Cancel Apply Help	
	OK. Cancel	

kFixUp Task Settings dialog

kFixUp: Task Parameters in the Parent Job

Alert! Although the kFixUp task has been fully assembled, the task cannot operate until you link its job – a FixUp *child* job (Page 16) - to a task of a *parent* job.

In the example below, the *MQSW* RuleRunner task belongs to the *parent* Main job. The *MQSW* Administrator has taken steps to assign a **Document Content** processing condition to the task – and to define the condition itself (Page 5).

😪 Taskmaster Administrator		×
👯 Workflow 🍬 Modules 💯 Groups 💆	Users 🖳 🖳 Station	ns 💽 Shortcuts 🔎 QA
	Condition	Values
L. Demo Job	ID	Document Content
ĒĒ. Fixup Job	Action	Branch
l [™] ∎, FixUp	Child Job	Figure Joh
🛱 🖓 🛄 Main Job	Child Job	
	Parent status	Pending
i i i i i i i i i i i i i i i i i i i	Child status	Pending 🗾 👻
🕂 🔀 Document Content	Stens	
`•, Verify	otopo	
Export		
🛄 其 Web Main Job		
	l	

MQSW Taskmaster Administrator – Branching to FixUp

To set up a link between the RuleRunner **task** and the FixUp **job** when the task encounters the *Document Content* condition involves these steps:

- Highlight the processing condition in the components list on the left.
- Select an **Action** from the drop-down list on the right (*Branch*, in the example). This defines the RuleRunner task's response when it encounters the *Document Content* processing condition.
- From the **Child Job** dorp-down list, select the job to which the batch will be diverted if the task in the *parent* job runs into trouble.
- Select the processing status to be assigned to the batch as it awaits further attention by tasks of the *parent* job.
- Select the processing status to be assigned to the batch as it awaits the immediate attention of the *child* job's kFixUp task.
- If the batch will *not* return to the task that sent it to the kFixUp task, use the Steps field to indicate the target task in the **parent** job. "1", for example, would send the corrected batch to the task that's one position after the diverting task Verify, in the example above.

kFixUp Operations

A task in a *parent* job – a Recognition task, for example - will dispatch a batch to a FixUp *child* job and its kFixUp task *whenever* the Recognition task encounters processing conditions that were

- Identified in the *Task Settings* dialog (Page 5).
- Linked directly to the FixUp job by settings in the *Workflow* tab of the *Taskmaster Administrator* (Page 16).
- Linked to a Fixup rule (Page 9) or
- Linked to a Hot Key of a *Data Entry* panel (Page 15).

The first indication of trouble comes when the *parent* job's task attempts to process the problem batch, and a warning similar to this appears on the operator's screen:



In the example which follows, an (intentionally!) small batch processed by the RuleRunner task of the *MQSW* application's Main Job has detected a **Document Count** problem (Page 13). As a result, the task branched the batch to the FixUp job and its kFixUp task.



MQSW Task Master Administrator – Workflow tab

✓ The *kFixUp* panel appears as soon as the FixUp operator launches the task by doubleclicking on the applicable Job-Task shortcut in the application's *Operations* window.

The first illustration on the next page depicts the full scale of the panel; other illustrations highlight specific portions of the panel.

The panel has three sections:

- Image View displays the image of the current page the page that is now under consideration. (A close look at the example reveals that it is *not* the image of a Marketing Survey!) To open this area, select a page in the Batch View area (below) or Image View from the window's View menu.
- Batch View lists current *runtime* components of the Document Hierarchy at three levels: Batch, Document, and Page. The illustration depicts a batch (20050084.001) with four documents (20050084.001.01 20050084.001.04). Each document has one page, numbered sequentially (*TM000001-TM000004*). To open this area, select Setup Tree from the View menu.
- **FixUp Actions** contains the fields and buttons you use to repair a batch or dispatch an image to the task's rescan procedures (Page 40).

kFixUp Panel – Batch View Area

This is the panel's batch assessment area *and* its point-and-click staging arena.

When something is wrong with the batch, you can probably identify the nature of the problem(s) right here – once you've had a chance to learn the values of the application's Page Status and Document Status codes (for a list of default statuses, see Page 74)

In the *MQSW* example, a first look at the items in the hierarchy shows that only the fourth document has a **Type** value (indicates that the claim document has just one *HCFA-1500 source* page.) What about the other documents? Well, each has an *Attachment* page but does not have a *HCFA 1500 source* page – and therefore does not meet the Document

Hierarchy's **Document Integrity** requirements that an *HC Single* document must have one, but only one, *HCFA 1500* page. (Unlimited *Attachments* are permitted as long as the document has that one *source* page.) *Very Important!* kFixUp operations can handle Document Integrity problems *only* if you have selected the **Check Structure** option in the task's *Setup* dialog (Page 35).

HC_kFixRescan - Batch Pilot	
File Edit View Navigate Help	
a x • • • • • • • • • • • • • • • • • •	
Image View	Comments
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Fixup Insert
Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start Start <th>Doc Status: Delete</th>	Doc Status: Delete
	Invalid Typel Rotate
	Join Doc Next Problem Rebuild Split Doc
Application Application Application Application 5	Task Options Up
	Down
ID TYPE STATUS	
2005084.001 20050084.001.01 TM000001 Attachment 5 20050084.001.02 0 TM000002 Attachment 5	² Invalid document
20050084.001.03 0 TM000003 Attachment 5 20050084.001.04 Questionaire_601 0 TM000004 Front 4	² Valid document

kFixUp Panel – Document Repair



Page Repair

The **Batch View** area also uses **Status** values to help diagnose problems. Above, the processing status of each *Attachment* page is "52" (*DoesntNeedVerification*). The Page Status of the *Questionaire_601* document's *Front* page is "48"(*Recognition OK*) – an indication of success.

Because the batch has serious flaws, rules governing the RuleRunner task automatically assigned "0" as the Document Status for each document: you'll use the **Doc Status** drop-down list in the **Actions** area to update these values.

kFixUp Panel – Image View Area

Suppose that the first page *Attachment* page is a legitimate *Front* page (instead of a Credit Card application), but that the page was placed in the scanner's tray upside down.

Although the *MQSW* RuleRunner task can have remarkable image adjustment powers, it may still consider the page as unrecognizable, and assign *Attachment* as its Page Type.

However, when the FixUp operator highlights page *TM00001* in the **Batch View** area, the operator will quickly identify it as a legitimate source page – and can use the Rotate button in the **Actions** area to flip the page vertically.

✓ This area provides the operator with essential before-and-after reviews of the pages in a document, and all pages in a batch.

kFixUp Panel – Repair Tools Area

The fields and tools of the **Repair Tools** area work in concert with the listings and values in the **Batch View** area to repair a batch and its contents. *Alert!* The roles and titles of certain features change in response to your selection of a document or page in the **Batch View** area.

The **Repair Tools** area of the *kFixUp* panel includes:

Comments

This field displays messages that further explain the nature of an existing problem.

A message appears in this field when the FixUp operator clicks on the Next Problem button (below).

FixUp

These first-level tools give the FixUp operator a chance to intervene without delay to carry out basic remedial procedures

Doc Types/Page Types is a drop-down list of the Document Hierarchy's **Document** objects or **Page** objects (Page 10). Remedying a problem may only mean assigning the correct **Type** value to a page or document that has been highlighted in the panel's **Batch View** area.

Doc Status/Page Status is a drop-down list of the application's Document Statuses or Page Statuses. Again, fixing a batch may only require the assignment of a valid processing status – a status that will allow a task in the *parent* job to continue working with the page or document, and with the overall batch. Page 36 describes these statuses.

Page Class is a drop-down list of fingerprint classes (Chapter 4). If a Recognition or Verify task in the *parent* job has failed to match a page with a fingerprint, the FixUp operator can help out by designating the application fingerprint class for the page.

Problem Alert. A message in this field displays the nature of a problem associated with a particular document or page that the operator has highlighted in the **Batch View** area. (In the example, *Invalid Type* warns the operator that Document 20050084.001.01 lacks a valid **Type** specification.)

Next Problem button. Clicking on this button moves the operator immediately to the next problem document or page. *Important!* In a typical batch with hundreds of pages, this button saves the FixUp operator considerable time and frustration.

Rebuild button. Re-builds the batch to accommodate the operator's adjustments. The button can be used at any point in the FixUp process; a series of messages indicate the success or failure the re-building procedures. *Alert!* This button is available *only* if the **Allow Assemble** option has been selected in the *FixUp* dialog (Page 35).

Task Options

Buttons in this area manage the kFixUp task itself.

Finish button. Confirms that all problems have been resolved before assigning a *Finished* status to the batch – or issues an Error Message if problems remain.

Hold button. Places the batch on *Hold*.

Scan Buttons

✓ Important! These buttons operate on individual pages and are not available if the task configuration does not include scanning capabilities (Page 35).

Insert scans a new page and *adds* it after the page that has been highlighted in the **Batch View** area. Clicking on this button opens a dialog that asks the operator for a **Page Data Prefix** value, and a **Counter Start** value.

Rescan scans a page and uses it to replace the current, highlighted page.

Page and Document FixUp Buttons

After a proper warning, the **Delete** button removes a highlighted page.

The **Rotate** button rotates the image of the highlighted page 90° .

Join and Split Buttons

If the task of the *parent* job has organized the batch into a series of documents – each with its own pages – you can **merge** a document with the document *above* it in the **Batch/Doc/Page** hierarchy. In the example, if you select the **TM000004** page and click on the Join button, kFixUp will merge the first two documents into one.



Alternatively, you can split a document into two. In the example, if you highlight *TM0003* and press the Split Doc button, kFixUp will re-organize the batch into three documents. Document 1 will have two pages; Document 2 will have one; and Document 3 will have its original two pages.

✓ Although the Join and Split buttons require practice, they can add significantly to an operator's skills and just as significantly reduce the time he or she needs to repair a batch.

Up and Down Buttons.

These buttons move a page up or down within the hierarchy.

iFixUp Tasks – Setup and Operation

Like a kFixUp task, an **iFixUp** task has a *setup* component and a distinctly different *runtime* component. You work with the *setup* component when you define the task or modify its Task Definition. A qualified FixUp operator uses the *runtime* component when he or she reviews, repairs and sometimes re-processes problem batches.

✓ Important! An iFixUp task is closely related to a workflow's iScan task (Chapter 7). Many features are identical; for example, if you assign Fixup/Rescan capabilities to the iFixUp task, the task may employ the same source device and probably the same scanner as the iScan task. Other *setup* properties differ, however, and are described in the following sections.

iFixUp Tasks - Setup

Like most tasks, an iFixUp **Task Definition** needs a Task Identity, a Task Project, a Task Module and basic setup specifications. (For a complete review of Task Definition components, see Chapter 6.)

The configuration of a new iFixUp task is a process with five phases. *Alert!* Chapter 6 describes details of this process. This section examines those elements of task configuration that are associated with the setup of iFixUp tasks.



Phase 1 (on the next page) adds an iFixUp **Task Project** (.bpp) to your application's **Process** directory.

During Phase 2 (Page 53), you'll define the **Task Module** that will connect your iFixUp task to the Task Project you established in Phase 1.

Phase 3 provides the iFixUp Task Definition with a formal identity and assigns key properties to the task itself (Page 55).

Phase 4 uses the *iFixUp Setup* dialog to assign an ISIS-certified scanner to the task – if the task can rescan problem pages - and operating specifications to the task and scanner, if applicable (Page 57).

Phase 5 reviews and modifies values in the tabs of the Task Settings dialog (Page 57).

The *setup* specifications for an iFixUp task will be part of its Task Project (.bpp). You can add them to the Task Project after you have a Task Module to connect the Task Definition to the Task Project, and have the established a Task Identity that designates the Task Module as a key property (Page 53).

The following illustrations show how the PageID task of the pre-configured *1040EZ* application's Main Job will branch to the FixUp Job if the task encounters a "Requires FixUp" condition.

✓ *Remember!* Processing conditions can combine rules that have been established by the application's *Rule Manager* with specifications in the *Task Settings* dialog of the *parent* job's task – PageID, in the example below. For a full explanation of processing conditions, see Page 5.



1040EZ Taskmaster Administrator - Workflow tab

In this example, the FixUp Job's FixUp task employs a FixUp Task Module:



1040EZ Taskmaster Administrator - Workflow tab

The Task Module, in turn, links the iFixUp Task Definition to the iFixUp Task Project (.bpp):



1040EZ Taskmaster Administrator - Modules tab

If you highlight the *FixUp* Task ID in the **Components** area of the *Taskmaster Administrator's Workflow* tab, and click on the *Setup* button in the **Properties** area, the Task Project's *Setup* dialog will appear on your screen. Or, to be more precise, the dialog's left-hand portion will appear: if you select **FixUp/Rescan** instead of **FixUp Only** in the **FixUp Task Settings** area, the right-hand side will display various scanner settings (Chapter 7).

🁈 FixUp Setup - Batch Pilot	
File Edit View Help	
. 🛄 😂 X 🖻 🛍 × 🞖	
ISIS Fixup v.6.0.15	
Fixup Task Settings	
C Fixup/Rescan 🔲 Turn Log On	
Fixup Only Flatbed	
Check Count	
Allow Assemble Check Structure	
Settings File: (one for each different scanner)	
Page Statuses	

iFixUp Setup Specifications - FixUp Only

iFixUp Setup – Phase 1: Task Project

The definition of an iFixUp task begins with its Task Project.



The Task Project contains the task's *setup* and *runtime* forms – as well as the software that runs the task. The Task Project is also a file (.bpp) - a file that includes the criteria and settings you assign in Phase 4 and Phase 5, as well as the forms.

2. *Important!* Your application's Document Hierarchy is a *required* property of a Task Project. By the time you start setting up FixUp tasks, the Document Hierarchy file (.xml) will be firmly in place – and immediately available to you (see Chapter 3 and Chapter 6).



To Assemble an iFixUp Task Project

	Step	Action		
1. Be sure that the Workflow component of the Workflow Hierarchy the contain the task includes a Document Hierarchy file (.xml).				
	2.	Select Datacap Taskmaster from your Windows Start button's Programs options.		
	3.	To open the <i>Batch Pilot Window</i> , double-click on the Batch Pilot icon in the Batch Pilot folder. (<i>Batch Pilot</i> is the workshop you'll use to put together the Task Project in this phase, and assign task properties in Phase 4 and Phase 5.)		
	4.	Select New Project from the window's File menu. <i>Batch Pilot</i> will instantly ask you to enter the name and path of the Document Hierarchy file in the <i>Open File</i> dialog. Use the window's Form menu to be sure the project is <i>not</i> in Design mode.)		
Document Hierarchy file		New setup using DCO setup file ? Look in: Image: process Image: mage: process scripts Image: process Image: process Image: process Image: process Image: process		
	5.	Select the application's Document Hierarchy file (.xml) from your application's Process directory, and click on the Open button to return to the		

- Batch Pilot Window. (For thorough explanations of Batch Pilot and the Batch Pilot Window, you can click on the Help button at the top of the window, or refer to the Guide to Batch Pilot.)
- 6. Confirm that the Batch View area at the bottom of the window displays a Setup form item in the Type column, as well as the Batch object of the Document Hierarchy you've specified (MQSW in the example below.)



To Assemble an iFixUp Task Project (continued)

Step Action

7. Highlight the *SetupForm* listing and right-click in the **FormPath** column.. Select the **Pick form**...option.



- 8. Use the *Open File* dialog to navigate to the **Datacap** directory's **BPilot** folder.
- 9. Select **ifixup.dcf** from the **FixUp** folder's **iFixUp** sub-folder, and press the dialog's **Open** button.

Open		? ×
Look in: 🔄 IFixup	- 🖬 📩 🖛	
 ifixup.dcf ● PageData.dcf 		

- 10. When you return to the *Batch Pilot Window*, check the file name and path in the **Form Path** column of the **Batch View** area.
- 11. Select **Save Project As** *not* **Save Project** from the **File** menu to save this Task Project in your application's **Process** directory and make it instantly available to the iFixUp Task Definition (Page 55).
- ✓ The illustration at the top of the next page highlights elements of the new Task Project.

🕀 Columbarra iliuun dal. Bakak	Dilat				
File Edit View Form Levent Sc	rint Help				
] 🗅 😅 🖬 🎒 🛄 🐰 🖻					
Start Run Status Fixup Se	tup				
I SIS Fixup Task					
🗄 🗄 🗗 Fixup Options	· · ·	Brightness		· · · · · · · · · · · · · · · · · · ·	
C Fixup/ Rescan	Turn Log On	::: 💽 Manual ::	🔿 Auto		
Contraction Contraction					
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		Contrast		<mark></mark>	
C Settings File: (one for each differ	ent scanner)	:::: 💽 Manual :::	C Auto		
c:\datacap\bpilot\fixup\ifixup\	vifixup.ini : ; ->			→ [1111	
	······································		·····		
Select Scanner		· · · · Mode	Black and White	.	
[: : : : : :t		Dither			
}_: · · · · · · · · · · · · · · · · · ·			None		4:11
×					
	Form Path C\Datacap\BPilot\Eixup\JEixur	alifixun def			
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😤 🗎 🔮 Document					

Batch Pilot Window - *iFixUp Task Project*

iFixUp Setup – Phase 2: Task Module

A Task Module connects the iFixUp Task Definition to its Task Project.



When you're setting up a new iFixUp task – and do not yet have a Task Module – you'll take the steps below steps to define it. *Remember!* You cannot define a Task Module until a Task Project is firmly in place (Page 53).

Step	Action	
-		

- 1. Open the *Modules* tab of your application's *Taskmaster Administrator*.
- 2. Click on the Add button to clear the fields in the **Values** area on the right.
- 3. Enter a unique Module **ID** and a brief but important **Description** of the module.
- 4. Select *Normal* from the **Type** drop-down list.
- 5. Select *Batch Pilot DLL* from the **Program Name** drop-down list.

Task Module	Values
ID	kFixUpMod
Description	Module for kFixUp tasks
Туре	Normal
Program name	Batch Pilot DLL
Parameters	/Wprocess%FixUp.bpp
Statistics table	
Batch ID field	
	Test

6. Press the Apply button at the bottom of the *Taskmaster Administrator*. Click once in the **Parameters** field to display the field's Browse button. Click on the Browse button to retrieve the *Open File* dialog and select the Task Project file (.bpp) you assembled in Phase 1 (Page 25).

To Define an iFixUp Task Module (continued)

Step	Action
------	--------

7. Confirm that the new module's ID is now part of the **Task Modules** list on the left-hand side.

😤 Taskmaster Administrator		×
🚦 Workflow 🍬 Modules 💆 Groups 💆	Users 🖳 🖳 Station	ns 💽 Shortcuts 🔎 QA
Task Modules	Task Module	Values
🍬 Fixup	ID	iFixUpMod
🔍 🦳 iFixUpMod	Description	Module - iFixUp Task
🍬 Index	Туре	Normal
l IVScan	Drogram pama	Betch Pilot DLL
📕 🗖 Kscan		
■ MultiVscan	Parameters	Wiprocess'iFixUp.bpp
[*] ≓ → RRAssemble	Statistics table	
Contemport Contemport	Batch ID field	
RRVscan		Test
■ Scan		
Net a state in the second s		

8. Press the Test button. If the connection between the Task Module and Task Project is secure, you will receive this technical message:

Taskmaster Client
Successfully connected to a DCO compatible task 'TMTask.BPilot' via OLE.

iFixUp Setup – Phase 3: Task Identity

Phase 3 assembles the iFixUp task as a *Taskmaster* component, and assigns the Task Module (Phase 2) that will connect the Task Definition to its Task Project (Phase 1).



To provide an iFixUp task with its identity:

Step Action

- 1. Open the *Taskmaster Administrator's Workflow* tab.
- 2. Right-click on the *child* job that you previously defined (Page 16) –and which will contain the iFixUp task (*FixUp*, in this example.)

🛠 Taskmaster Administrator		×
🐮 Workflow 🍬 Modules 💇 Groups 😨	Users 🗐 💻 Station	ns 💽 Shortcuts 🔎 QA
	Job	Values
i Fixup Job	ID	Fixup Job
	Description	1040EZ Fixup Job
·····L [*] Web Job	Priority	5
	Parameters	

3. Select **New** and **Task** from the options.

C Workflow	🔍 Modules	💇 Groups 🛛 💇	Users 🖳 💻 Sta	ations 🛛 💌	Shortcuts 🛛 🔎 🛛		
⊡ 🔍 1040EZ	. lob		Job		Values	I	
terret Ma	Setup	Ctrl+S	scription	Fixup (Job Z.Fixup Job		lew ta
L.∎ Wε	New	Ctrl+N	Workflow	Ctrl+W			iew ta
	Copy Rename Delete	Ctrl+C F2 Delete / Ctrl+X	Job Task	Ctrl+J Ctrl+T			
	Legend		_				

4. Enter a *unique* Task ID in the open space below the Job ID (illustrated on the next page). Be sure this value appears in the **ID** field of the **Values** area as well.



To Provide a Task Identity (continued)

Step	Action
5.	In the Values area, enter a brief but <i>important</i> Description of this iFixUp task.
6.	From the Module drop-down list, select the ID of the Task Module you defined in Phase 2 (Page 53).
7.	Do not alter the <i>default</i> value of the Queue to property. If operations of subsequent tasks within this <i>child</i> job are to be restricted to the operator or workstation that launches <i>this</i> task, select one of the values in the Store property's drop-down list. (Chapter 6 and <i>Taskmaster</i> Help explain the Queue to and Store properties.)
9.	Press the <i>Taskmaster Administrator's</i> Apply and Done buttons to save the identifying properties of the iFixUp Task Definition.

You can find complete explanations of Task Identity procedures in Chapter 6, or by pressing your F1 key when you are in the *Workflow* tab. This opens the set of Taskmaster Help topics that covers all aspects of the tab...including the elements of a Task Definition and its **Queue to** and **Store** properties.

iFixUp Setup – Phase 4: Task Specifications

Phase 4 uses the *iFixUp Setup* dialog to determine the task's scope – *FixUp Only* or *FixUp and Rescan*.



If the iFixUp task can rescan pages, you'll use this phase to review and possibly modify the scanner settings of the *parent* job's iScan task – and to assign new scanner settings.

For either processing mode, you'll evaluate and possibly select specifications that belong only to an iFixUp task.

- 3. Very important! During this phase, you'll work with the setup form of the iFixup Task Project you defined in Stage 1 (Page 49). This form - and the nature of its settings – are linked directly to the ISIS Source Device of the scanner used by the parent job's iScan task scan. When it's time to assign values to the specifications of the iFixUp Task Setup dialog:
 - Your scanner must be attached to the computer from which you are working *if* iFixUp will be operating in its **FixUp/Rescan** mode (see the next page). The scanner must be "On" and the Source Device in place while you set up the task.
 - If iFixUp is to operate in **FixUp Only** mode, you can assign setup specifications *without* connecting the scanner.
- 4. To begin this phase, highlight the Task ID you established in Phase 4 and press the Setup button in the *Task Master Administrator's Workflow* tab:



MQSW Taskmaster Administrator – Workflow tab

When you first press the Setup button, a warning may appear on your screen. To operate, the iFixUp task has to retrieve and update parameters in the [ScanCtrl] sector of a

Settings file (.ini). The Settings file – **scanner.ini** - is in the application's **Process** directory.

After you have identified the application's Settings file, indicate whether the iFixUp task can carry out FixUp *and* Rescan procedures (*FixUp/Rescan*) – or if it will be restricted to FixUp procedures (*FixUp Only*). These are radio buttons that have a direct impact on the content of the *iFixUp Operations* dialog (Page 58) so you *must* select an option.

	j iFixUp Setup - Batch Pilot
	ile Edit View Help
	🛄 🎒 % 🖻 🖻 🗡 💡
FixUp and Rescan	ISIS Fixup v.6.0.18 Fixup Options
	🗖 🔿 Fixup/ Rescan 🔲 Turn Log On
	Fixup Only
	Check Count
FixUp Only	Allow Assemble 🔽 Check Structure
	Settings File: (one for each different scanner) C:\Datacap\MQSW\process\scanner.in
	Page Statuses

iFixUp - Task Scope

iFixUp Options

The radio buttons in this section (illustrated on the previous page) determine whether the task will be responsible for both FixUp and Rescan procedures, or just FixUp.

- **Fixup** activities adjust and enhance pages; move pages round within the batch; re-constitute documents, and re-organize the batch.
- Rescan is a physical process that scans one or more pages and replaces existing Image files with the new files. Rescan procedures are *closely allied* to the scanning activities of the Main job's iScan task, and use many of the same components.

Five additional but *optional* settings in this area can expand the task's scope:

 Allow Assemble displays the Rebuild button in the *Operations* dialog and permits the task to re-assemble the batch and its documents after FixUp and possible Rescan operations are complete. This option can resolve apparent Document Integrity problems without delay.

- Turn Log On instructs the task to create a log of its activities, according to specifications you provide in the *Log* tab of the *Task Settings* dialog (Chapter 6). A log can be a very helpful tool as you evaluate the task's performance and contributions.
- **Flatbed** allows the operator to rescan a single page by placing the paper on the scanner's glass "flatbed".
- Check Count counts the *actual* number of documents and pages in the batch; compares the totals to the *expected* counts; and alerts the FixUp operator if there are discrepancies.
- **Check Structure** assesses the structure of each document in terms of the types of pages it contains; the total number of pages; and the number of each Page Type.

Page Status Button

The Page Statuses button opens a dialog with two fields:

- **Problem Statuses** lists the statuses of pages with "problems." A page with a Problem Status *cannot* be processed by other tasks until iFixUp has resolved the problem and the Fixup operator has assigned a status in the **Done Status** list to the page.
- **Done Statuses** are Page Statuses that an operator assigns to indicate how a problem has been resolved and to make the current page available for further processing.

IFixUp Setup - Batch Pile	ot		
File Edit View Help			
🛄 🏉 X 🖻 💼	× ?		
Problem Status		Done Status	
PAGE_NEEDSREVII PAGE_SCANBAD PAGE_ANCHORNO' PAGE_NORECOG PAGE_RESCAN PAGE_VERIFYFAIL PAGE_HOLD BP_PAGE_ERROR	IFOUND	PAGE_RECOGOK PAGE_SCANOK PAGE_HIGHCONFIDENCE PAGE_VERIFYOK PAGE_OVERRIDE PAGE_NODATA PAGE_DELETED PAGE_EXPORTED PAGE_CPELAPPROVED PAGE_REMOVE BP_PAGE_OK	
OK		Cancel	

iFixUp Setup – Page Statuses

✓ Directional buttons in the *Page Status* dialog move statuses from one side to the other. When you press the OK button, the dialog's current listings update the task's Settings file (Page 34).

Alert! A task assigns a status to every page it processes. Placing a Page Status in the **Problem Status** list means that a page with that status *cannot* be released from the iFixUp task until the task has taken care of the problem and its operator has assigned a new, Done status. Be careful when you compile the list: too many "problems" can hamper productivity.

FixUp/Rescan Settings

If you assign the **FixUp/Rescan** mode to the iFixUp task, a *very important* button appears towards the bottom of the *Setup* dialog's left-hand side, along with a series of scanner settings on the right.

	يممعني		
E:		ISIS Fixup v.6.0.18	
FIXUp/Rescan		Fixup Options	
		🔺 💿 Fixup/ Rescan	🔲 Turn Log On
		C Fixup Only	✓ Flatbed
			Check Count
		Allow Assemble	Check Structure
Select Scanner		Settings File: (one for each diffe	erent scanner)
		Select Scanner	

The Select Scanner button links the task to its scanner...and to the Source Device that you have previously defined. *Remember:* Be sure that the scanner is on and that the Source Device has been installed – and that the scanner is connected to the computer you're using to assign these Setup criteria.

When you press the Select Scanner button, the *Scanner Selection* dialog appears. Select your scanner from the drop-down list, and click on the Setup button.



Scanner Selection dialog

When the *Configure Device Settings* dialog appears:

- Select the computer's Source Device from the Selected Device drop-down list;
- Choose a **Default Page Size**;
- Click on the OK button.

Configure Device Settings	×
Selected Device:	ок
Fujitsu M3091DCd on SCSI 6	Cancel
Rescan Bus	
Default Page Size:	
Letter - 8.5 x 11 in	About

Configure Device Settings dialog

✓ The iFixUp task uses a Settings file (.ini) to retain details of the scanner's specifications. A *default* file - scanner.ini – is in the **Process** directory of each pre-configured application (*1040EZ*, for example), and in the **NewApp** sub-folder of the Datacap directory's **Support** folder. You can re-name the file and place it in any location as long as you enter its name and path in the *Setup* dialog's Settings file field.

Settings File: (one for each different scanner)	Upload File Settings
C:\Datacap\MUSW\process\scanner.mi	button
Select Scanner	
Scanner Settings File Designation	

iFixup Setup – Phase 5: Task Settings

The closing phase of an iFixup task's setup involves specifications in the tabs of the *Task Settings* dialog.



✓ To access this dialog, select **Task Settings** from the *Batch Pilot Window's* File menu after you have entered Task Criteria in Phase 4 (Page 57).

The *Task Settings* dialog of a typical iFixUp task has nothing exceptional (see Chapter 6 for a full explanation of this dialog.) In the General tab, be sure that you do *not* select **Automatic Mode**: iFixUp is a task that requires an operator's participation.

Settings for iFixUp task	×
General Filters Log Statistics	
General	
Setup DCO path : C:\Datacap\MQSW\process\mgsw.xml .	
Input DCO path :	
Automatic Mode Output DCO file : taskname .x	ml
Module Create Batch Dir under :	
☐ Job router ☐ Unload form On End batch	

iFixUp Task Settings dialog - General tab

iFixUp - Additional Setup Considerations

The setup of an iFixUp task is incomplete until you have linked the *child* job that contains it to a task in the *parent* job (below). In addition, even a fully-configured task cannot run until you take the Security steps that will allow individual operators and workstations to launch the task and its job (Page 67).

Task Parameters in the Parent Job

Although the iFixUp task has been fully assembled, the task cannot operate until you link its job – a FixUp *child* job (Page 16) - to a task of a *parent* job.

In the example below, the *1040EZ* PageID task belongs to the *parent* Main Job. The *1040EZ* Administrator has taken steps to assign a **Requires FixUp** processing condition to the task – and to define the condition itself (Page 5).



1040EZ Taskmaster Administrator – Branching to FixUp

To set up a link between the PageID **task** and the FixUp **job** when the task encounters the *Requires FixUp* condition involves these steps:

- Be sure that the rules defining the condition have been set up in *Rule Manager*.
- Confirm that the task of the *parent* job PageID, in this example will process the RuleSet that includes these rule.
- Highlight the task in the *parent* job...and the Condition ID. Check that the Condition ID appears in the lists on the tab right side.
- Selection the Action that the task in the *parent* job is to take if it encounters the condition.
- Identify the **Child Job** that will be responsible for reviewing and repairing the problem.
- Indicate the status of the batch as it awaits processing by the *parent* and *child* jobs.

Click on the Apply and Done buttons at the bottom of your Task Master Administrator.

Task Security

The section that begins on Page 67 examines the operation of an iFixUp task. However, the task - technically, the **Job/Task Combination** – cannot run into you assign the following Security parameters:

Authorizations: Shortcut, Station and Operator

FixUp is a specialized endeavor requiring skill and patience – *and* Security parameters for at least one FixUp operator, a FixUp workstation, and a FixUp Job-Task Shocrtuct icon.

The *Application Wizard* (Chapter 2) automatically includes a *FixUp* Job-Task Shortcut Icon with permission to launch the FixUp Job.FixUp Job/Task Combination:



The wizard also supplies the new application with a default *FixUp1* User Definition that gives an operation permission to run the FixUp task (see the illustration on the next page.)

✓ However, the utility does not include a Station Definition that authorizes a specific workstation to carry out the FixUp task. Very important! A Job/Task Combination (such as FixUp Job.FixUp) cannot run unless the operator, station and shortcut all have permission to run that Job/Task Combination. Chapter 5 of the Taskmaster Administrator's Guide explains all aspects of Application Security.



Taskmaster Administrator – Stations tab



iFixUp Operations

A task in a *parent* job – a Recognition task, for example - will dispatch a batch to a FixUp *child* job and its iFixUp task *whenever* the Recognition task encounters processing conditions that were

- Defined in the *Task Settings* dialog (Page 63)
- Linked to the actions of specific rules (Page 9) or Hot Keys (Page 15).
- Linked directly to the FixUp job by settings in the *Workflow* tab of the *Taskmaster Administrator* (Page 64).

The first indication of trouble comes when the *parent* job's task attempts to process the problem batch, and a warning similar to this appears on the operator's screen:

Taskmaster Client	
Task 'Main Job.PageID' on batch '20050042.003' has finished	
with status 'additional condition(s)'. Following condition(s) occured:	
Requires Fixup	
✓ Keep message box on the screen	Requires
	ГіхОр
UK Hold	

In the example which follows, an (intentionally!) small batch processed by the HC_Recog task of the *Taskmaster for Medical Claims* application has detected a **Document Integrity** problem: three out of four documents in the batch do not contain a *source* page...in this case, a *HCFA 1500* page. As a result, the task is unable to identify the three documents according to their Document Types – and doesn't know what to do with the *Attachment* pages that have been assigned to the documents.

So the HC_Recog task diverts the batch to the HCFA FixUpRec **job** –and to its opening HC_FixUpScan **task** – an iFixUp task that can repair batch structures *and*, if necessary, re-scan pages.



Medical Claims Task Master Administrator - Workflow tab

✓ The *iFixUp* panel appears as soon as the FixUp operator launches the task by doubleclicking on the applicable Job-Task shortcut in the application's *Operations* window.

The first illustration on the next page depicts the full scale of the panel; other illustrations highlight specific portions of the panel.

The panel has three sections:

- Image View displays the image of the current page the page that is now under consideration. (A close look at the example reveals that it is *not* the image of a *HCFA-1500* health claim!) To open this area, select a page in the Batch View area (below) or Image View from the window's View menu...or click on the Image View icon in the window's toolbar.
- Batch View lists current *runtime* components of the Document Hierarchy at three levels: Batch, Document, and Page. The illustration depicts a batch (20050084.001) with four documents (20050084.001.01 20050084.001.04). Each document has one page, numbered sequentially (*TM000001- TM000004*). To open this area, select Setup Tree from the View menu or click on the Batch View icon in the window's toolbar.
- **FixUp Actions** contains the fields and buttons you use to repair a batch or dispatch an image to the task's rescan procedures (Page 71).

iFixUp Panel – Batch View Area

This is the panel's batch assessment area *and* its point-and-click staging arena.

When something is wrong with the batch, you can probably identify the nature of the problem(s) right here – once you've had a chance to learn the values of the application's Page Status and Document Status codes (for a list of default statuses, see Page 74)

In the *Medical Claims* example, a first look at the items in the hierarchy shows that only the fourth document has a **Type** value (*HC Single* indicates that the claim document has just one *HCFA-1500 source* page.) What about the other documents? Well, each has an *Attachment* page but does not have a *HCFA 1500 source* page – and therefore does not meet the Document Hierarchy's **Document Integrity** requirements that an *HC Single* document must have one, but only one, *HCFA 1500* page. (Unlimited *Attachments* are permitted as long as the document has that one *source* page.)



iFixUp Panel - Document Repair



iFixUp Panel - Page Repair

The **Batch View** area also uses **Status** values to help diagnose problems. Above, the processing status of each *Attachment* page is "52" (*Doesn'tNeed Veriication*). The Page Status of the *HC Single* document's *HCFA 1500* page is "48"(*Recognition OK*) – an indication of success.

Because the batch has serious flaws, rules governing the HC_Recog task automatically assigned "0" as the Document Status for each document: you'll use the **Doc Status** drop-down list in the **Actions** area to update these values.

iFixUp Panel – Image View Area

Suppose that the first page *Attachment* page is a legitimate *HCFA 1500* page (instead of a Credit Card Application!), but that the page was placed in the scanner's tray upside down.

Although the *Medical Claims* HC Recog task has remarkable image adjustment powers, it may still consider the page as unrecognizable, and assign *Attachment* as its Page Type.

However, when the FixUp operator highlights page *TM00001* in the **Batch View** area, the operator will quickly identify it as a legitimate source page – and can use the Rotate button in the **Actions** area to flip the page vertically.

✓ This area provides the operator with essential before-and-after reviews of the pages in a document, and all pages in a batch.

iFixUp Panel – Repair Tools Area

The fields and tools of the **Repair Tools** area work in concert with the listings and values in the **Batch View** area to repair a batch and its contents. *Alert!* The roles and titles of certain features change in response to your selection of a document or page in the **Batch View** area.

The Repair Tools area of the *iFixUp* panel includes:

Comments

This field displays messages that further explain the nature of an existing problem.

A message appears in this field when the FixUp operator clicks on the Next Problem button (below).

FixUp

These first-level tools give the FixUp operator a chance to intervene without delay to carry out basic remedial procedures

Doc Types/Page Types is a drop-down list of the Document Hierarchy's **Document** objects and **Page** objects (Page 10). Remedying a problem may only mean assigning the correct **Type** value to a page or document that has been highlighted in the panel's **Batch View** area.

Doc Status/Page Status is a drop-down list of the application's Document Status (or Page Statuses). Again, fixing a batch may only require the assignment of a valid processing status – a status that will allow a task in the *parent* job to continue working with the page or document, and with the overall batch.

Page Class is a drop-down list of fingerprint classes (Chapter 4). If a Recognition or Verify task in the *parent* job has failed to match a page with a fingerprint, the FixUp operator can help out by designating the application fingerprint class for the page.

Problem Alert. A message in this field displays the nature of a problem associated with a particular document or page that the operator has highlighted in the **Batch View** area. (In the example, *Invalid Type* warns the operator that Document 20050084.001.01 lacks a valid **Type** specification.)

Next Problem button. Clicking on this button moves the operator immediately to the next problem document or page. *Important!* In a typical batch with hundreds of pages, this button saves the FixUp operator considerable time and frustration.

Rebuild button. Re-builds the batch to accommodate the operator's adjustments. The button can be used at any point in the FixUp process; a series of messages indicate the success or failure the re-building procedures. *Alert!* This button is available only if you have selected the **Allow Assemble** option in the *iFixUp Setup* dialog (Page 58).

Task Options

Buttons in this area manage the iFixUp task itself.

Finish button. Confirms that all problems have been resolved before assigning a *Finished* status to the batch – or issues an Error Message if problems remain.

Hold button. Places the batch on *Hold*.

Scan Buttons

 \checkmark

Important! These buttons work only with pages and are not available if the task configuration does not include scanning capabilities (Page 35).

Insert scans a new page and *adds* it after the highlighted in the **Batch View** area. Clicking on this button opens a dialog that asks the operator for a **Page Data Prefix** value, and a **Counter Start** value.

Rescan scans a page and uses it to replace the highlighted page in the Batch View area.

Page and Document FixUp Buttons

After a proper warning, the **Delete** button removes a highlighted page. The **Rotate** buttons rotate the image of the highlighted page 90° in various directions.

Join and Split Buttons

If the task of the *parent* job has organized the batch into a series of documents – each with its own pages – you can **merge** a document with the document *above* it in the **Batch/Doc/Page** hierarchy. In the example, if you select the **TM000004** page and click on the Join button, iFixUp will merge the first two documents into one.



Alternatively, you can split a document into two. In the example, if you highlight *TM0003* and press the Split Doc button, iFixUp will re-organize the batch into three documents. Document 1 will have two pages; Document 2 will have one; and Document 3 will have its original two pages.

✓ Although the Join and Split buttons require practice, they can add significantly to an operator's skills and just as significantly reduce the time he or she needs to repair a batch.
Up and Down Buttons.

These buttons move the highlighted page up or down within the hierarchy.

👈 ifixup. dcf - Batch Pilot	
File Edit View Form Layout Script Help	
D 🗳 🖬 🚳 🚳 X 🖻 🖻 D '	?] 🔛 🖾 → 🗉 🔳
Start Run Status Fixup Setup Comments	
Fixup	Insert
Page Type:	
Page Status:	Rescan
	Delete
Page Class:	<u> </u>
	Join Doc
Next Problem Rebuild	Split Doc
Task Options	Up
Finish Hold	Down
ISIS Fixup v.6.3.4	

iFixUp Operations Panel

Page Statuses and Document Statuses

The table below reviews the Page Statuses you're most likely to encounter in a Page file. The list is in alphabetical order.

Page Status	Code	Description
Cannot Find Anchors	51	Indicates that the workflow's Recognition task has failed to identify the anchor fields of the page.
		A batch containing a page with this status usually ends up in the hands of a FixUp operator (Chapter 9).
Deletion Approved	77	Indicates that an operator or supervisor has approved the deletion of the page <i>and</i> document.
Deleted Page	75	Marks a page <i>and</i> its parent document for deletion and removes their association with the sponsoring batch.
		This status does not, however, directly affect the corresponding Image file.
Export Done	76	Indicates that the <i>entire</i> workflow has successfully processed a page.
No Data	74	Ensures that none of the data on the page will be forwarded to an Export task – in effect, deleting the page.
		The assignment of this status to a page, usually by an operator or supervisor, results in a <i>Pending</i> status for the document (140).
Page on Hold	72	Suspends the processing of a page, often when a page requires special attention, and places its document on <i>Hold</i> as well (130).
		If any page remains on <i>Hold</i> after the task processes the other pages in a batch, <i>Taskmaster</i> automatically assigns a <i>Hold</i> status to the batch itself.
RecogDoneOK	48	Indicates a page that has been successfully processed by the Recognition task and is ready for Verification.
		This status does <i>not</i> mean that data in all fields on the page is complete and accurate.
Recognition Not Done	65	Indicates that although Recognition successfully identified the anchors on the page, a processing error prevented further Recognition steps.
		<i>Taskmaster</i> generates this status automatically; pages with this status should be treated as problems

Page Status	Code	Description
Remove Page	78	"Removes" the page from the workflow and its data from further consideration. <i>It also removes the document</i> <i>containing the page.</i>
		In most cases, a page with this status is beyond repair.
Rescan Page	70	Marks a page for re-scanning (Chapter 9).
Review Page	79	"Branches" a page to a child job for review and possible repair.
Scan Bad	50	Indicates that unsuccessful scanning has resulted in a problem page.
Scan OK	49	Indicates that a Scan task has successfully scanned a page, and is prepared to send the page to Recognition.
		<i>Taskmaster</i> will automatically assign this status to any page that scans or rescans correctly.
Verification Done	66	Indicates that a page has been successfully processed by a FixUp2k task operating in the <i>Verify</i> mode (Chapter 9).
		With rare exception, this status is assigned only by <i>Taskmaster</i> when the Verification task completes its work.
Verification Failed	75	Indicates that a FixUp2k task in the <i>Verify</i> mode has been unable to process the page, and an operator or supervisor has intervened to assign this status.
		As a result, the batch is usually placed on <i>Hold</i> .

The *Document* Statuses you'll most likely encounter include:

Page Status	Code	Description
Complete Doc	141	Indicates that the Recognition task has been able to assemble a document with the correct number and type of pages.
Deleted Doc	128	Indicates that an authorized operator or Supervisor has removed a document from the internal organization of the batch.
Incomplete Doc	147	Denotes a document with the wrong number or type of pages.
Needs Review Doc	66	Sets aside the document and its pages for review by a remedial FixUp task.
On Hold Doc	130	Places the document and its pages on hold until an authorized operator or Supervisor releases it.

Page Status	Code	Description
Override Doc	75	Indicates that an authorized operator or Supervisor has "overridden" the steps a Verification or Validation task has taken to halt processing on the document and its pages.
Pending Doc	140	Indicates that the document and its pages are ready for additional processing.

Anchor Fields – FixUp

The Document Hierarchy of the *1040EZ* application contains two **Field** objects - *Anchor1* and *Anchor2* – that represent "Anchor" fields on a *source* page:

	👆 \Datacap\1040ez\process\1040EZ.xml -	DCO Setup
	File Edit Objects Properties Help	
	Type \ Property	TYPE
	🕀 🗮 1040EZ	Batch
	🖻 🏙 Document	Document
	- 🗊 DocumentSeparator	Page
	🖻 🗊 Page_1040ez	Page
Anchor fields ——	► F Anchor1	Field
	📕 📕 🗡 📕	Field
	🍼 开 TaxpayerName	Field
	📕 📕 🗡 Address	Field
	UF.cm	_ Field

1040EZ Document Hierarchy

The **Anchor** icon in the *1040EZ* **Rule Manager Window** has been used to locate and zone these very important fields on the image of the *1040EZ* fingerprint, and to assign an anchoring

role to each field.

Below, the pre-printed **1040EZ** caption on the 1040EZ IRS form serves as one anchor: it is an important point of reference for the application's PageID task as the task attempts to identify the pages in a batch according to their Page Types.



A second anchor might be helpful because it can confirm the PageID task's identification of a *source* page. The default setup of the *1040EZ* application singles out the symbol to the left of the **Taxable interest** amount to serve as the second anchor:



Anchor2

✓ Often, however, this symbol is not as dark as it needs to be. The following paragraphs show you how to select a different item in the fingerprint's image to be the second anchor, and how to establish FixUp procedures to deal with **missing anchors**.

How to Configure Anchor Fields

The chart at the top of the next page identifies the components of an application that require your attention if you intend to:

- Add an Anchor Field object to the application's Document Hierarchy;
- Zone the Anchor field on a fingerprint;
- Define rules to guide a *RuleRunner* task's attempts to locate the anchor field on a *source* page;
- Define a processing condition that leads the task to turn the current batch over to a FixUp job when it cannot locate an anchor on the *source* page.

Step 1: Add an Anchor Field Object to the Document Hierarchy

To add an Anchor field to your application, follow the procedures outlined in Chapter 3 to add a **Field** object to the application's Document Hierarchy: this **Field** object will represent the fingerprint's Anchor field. *Be sure* that the field is a child of the *source* **Page** object. (In the illustration on the previous page, *Anchor1* and *Anchor2* are children of the *1040EZ_Page* **Page** object.)

Step 2: Assign a "Required" Status to the Anchor Field Object

The **Field** object that represents an Anchor field must have a **Required** property with "1" as its value.

Alert! Because **Required** is not a default property of a Document Hierarchy's **Field** objects, take these steps to include the property (see Chapter 3 for details):

- a. Open the *Document Hierarchy Setup* window.
- b. Highlight the Anchor field's name.
- c. Select **New** from the **Properties** menu.
- d. Enter "Required" as the **Property Name** (without the quotation marks!):



Check to be sure that the Field object now includes a Required property with 1 as its value, and repeat these steps for any other Anchor fields:

Datacap\1040EZ\proces	s\1040EZ.xml - D	CO Setup
File Edit Objects Properties I	Help	
Type \ Property	TYPE	Required
🛛 🕀 🕮 1040EZ	Batch	
📄 💼 🚺 Document	Document	
🛛 🐨 DocumentSepara	Page	
📄 🗊 Page_1040ez	Page	
- 🗲 Anchor1	Field	1
- 📕 Anchor2	Field	
🛛 🛛 📕 📕 🖉	Field	

Step 3: Zone the Anchor Field

As soon as you have added the **Field** object to the Document Hierarchy, open the *Fingerprints & Zones* panel of your application's *Rule Manager Window*...and the image of the fingerprint that will be zoned with one or more Anchor fields.



Pay close attention to two items in the example above:

- The Anchor1 and Anchor2 fields in the **Zone Hierarchy** area are still identified by standard **→**field icons.
- The **Anchor** toggle icon on the right edge of the **Zone Hierarchy** area is not yet available.

To assign anchor qualities to a specific field:

Step	Action			
1.	Highlight the Anchor field's name in the Zone Hierarchy area.			
2.	Check that the Anchor toggle icon on the right-hand edge is active and available.			
3.	Depress the Anchor toggle icon			
4.	Confirm that the Anchor field's identifying icon on the left changes to an "anchor"			
Anchor! —	Zone Hierarchy Page_1040ez Anchor1 Anchor2 TaxpayerName Address City State Zin			

- 5. While the **Anchor** toggle is still depressed, zone the Anchor field on the fingerprint's image. *Important!* You can use the **Anchor** toggle icon to assign and remove a field's Anchor qualities.
- 6. Un-toggle the **Anchor** icon and click on the Yes button of the *Save Changes*? dialog.



7. Press the OK button of the *Zone Setup* dialog.

Zone Setup 🔀	dd 1 neor
Changes Saved.	
ОК	ne 4
Ba b	Earn

How to Define Anchor Field Conditions and Rules

The default setup of the Main Job of the *1040EZ* application branches to its FixUp *child* job if the PageID task encounters a pre-defined *Requires FixUp* condition:



Condition Properties – Requires Fixup

This condition is set forth in the Task Definition's *Task Settings* dialog; rules of the two RuleSet Types that govern the PageID task's response are defined by the *1040EZ* application's *Rule Manager*, and assigned to the task during Task Definition:

PageID Task Settings dialog – General tab





✓ You can modify the 1040EZ application without difficulty so that its PageID task will look for the Anchor fields you designated previously (Page 80) – and divert the batch to the FixUp job if the search is unsuccessful. To begin, you'll need a new processing condition for the PageID task:

	🚯 Taskmaster Administrator		X
	🚦 Workflow 🔌 Modules 🖉 Groups 🖸	Users 🗐 💻 Statio	ns 💽 Shortcuts 💭 QA
	🖃 🔍 1040EZ	Task	Values
New condition —	Fixup Job	ID	PagelD
New condition	Main Job	Description	Page Identification Rules
		Module	Assemble
	PatternMatch	Task Monitor	Normal
	Recognize	Queue to	Anybody anywhere
	Verify	Store	Nothing
	U Veb Job		Setup

To replace the existing condition with a new condition ("PatternMatch", perhaps):

	Step	Action
	1.	Open the Workflow tab of the application's Taskmaster Administrator.
	2.	Highlight the Task ID of the branching task in the parent job.
	3.	Press the Setup button. When the <i>Task Setup</i> dialog appears, select Task Settings from the File menu: the <i>General</i> tab of the <i>Task Settings</i> dialog will appear on your screen.
	4.	Highlight the condition you intend to replace in the Condition to Return field and press the Remove button.
Highlight this condition.		Module Create Batch Dir under : C:\Datacap\1040ez\batches Job router Unload form On End batch Conditions to return : Click here. Requires FixUp Add : Remove

- Click on the OK button to close the *Task Settings* dialog. Press the Done button of the *PageID Task Setup* dialog. When the *Taskmaster Administrator's Workflow* tab returns, press the Apply button, and the Done button.
- 6. Compress the job listings in the *Workflow* tab.
- 7. Open the job listings, and highlight the Main Job's PageID task (illustrated on the next page.)



PatternMatch Condition Properties

✓ Instead of the two RuleSet Types assigned to the PageID task for its basic batch review procedures (illustrated on Page 82), the extended search for Anchor fields also involves the actions in rules of two additional RuleSet Types: CreateDocs and PatternMatch.

As a result, the Task Definition of the PageID task will include four RuleSet Types listed in the processing order shown on the next page: **Identify,CreateDocs, PatternMatch**, and **CheckforFixUp**.

- The Identify, CreateDocs and CheckForFixUp RuleSet Types are already available. However, you have to move the CreateDocs RuleSet Type from the Available RuleSet Types list to the Loaded RuleSet Types list – and a step up to a position below Identify.
- The **PatternMatch** RuleSet Type does not yet exist. Just follow the instructions in Chapter 4 to set up the new RuleSet Type, or take the steps outlined on the next page.



PageID Task Setup dialog

How to Define an Anchor Field's RuleSet Type

To construct the new **PatternMatch** RuleSet Type (you can give it any name!):

Step	Action	

- 1. Open the *Rules* panel of your application's *Rule Manager Window*.
- 2. Press the **RuleSet Types and Actions Libraries** icon along the right edge of the **Actions Library** area.



3. Click on the New RuleSet Type button in the *RuleSet Types* dialog.



4. Use the *New RuleSet Type* dialog to enter the new **RuleSet Type Name**; click on the OK button (illustrated on the next page.)

ts\vscan.rra		RuleSet Type Controls:						
ts\AutoDoc.rra	_	Remo <u>v</u> e RuleTrpe						
ts\DCO.rra	=							
ts\Recog.rra	🔲 New RuleSet Type							
ts\ImageFix.rra								
ts\PatternMatch.rra	Enter New RuleSet Type	Name						
ts\DCO.rra		Cancel						
ts\AutoDoc.rra								
ts\Locate.rra	PatternMatch							
ts\Zones.rra								
ts\Recog.rra	~							

To Construct the New PatternMatch RuleSet Type (continued)

Step Action

5. Highlight the RuleSet Type's name in the *RuleSet Types* dialog and click on the Add RRA button. This will allow you to assign the **PatternMatch** Actions file (.rra) to the new RuleSet Type.

Exportub_close		RRA File C	ontrols:
C:\Datacap\BPilot\Scripts\ExportDB.rra		Add	RRA
ChkConfidence	_		
🖓 🎞 C:\Datacap\BPilot\Scripts\DCO.rra	=	<u>R</u> emo	VERRA
🚊 ₩ CheckForFixup		Up	<u>D</u> own
C:\Datacap\BPilot\Scripts\DCO.rra			
PatternMatch	~		

6. Use the *Add Actions Files* dialog to add the **PatternMatch** Actions file (.rra) to the RuleSet Type.



To Construct the New PatternMatch RuleSet Type (continued)

Step	Action	

7. Close the *RuleSet Types* dialog. Confirm the listing of the new RuleSet Type in the *Rules* panel of the *Rule Manager Window*.



8. Check that the contents of the **PatternMatch.rra** Actions file are listed in the **Actions Library** area when you select the new RuleSet Type's name:

<u> </u>				
Parameters				
Actions Library : PatternM 🦻	Source RRA	View 木	FE	
CheckPageCount	rrunner.dcs			
DebugMode_OFF	rrunner.dcs		1	
DebugMode_ON	rrunner.dcs		-	
MatchPattern	PatternMatch.rra	_ ۱	1	
pat_RecogMatch_Id	PatternMatch.rra			
pat_RegisterZones	PatternMatch.rra			PatternMatch
pat_ReleasePageAnchors	PatternMatch.rra	- ≻ ◀		— actions
PatternMatch_Fingerprint	PatternMatch.rra			
PatternMatch_Identify	PatternMatch.rra			

PatternMatch RuleSet

To search for an Anchor field and divert the current batch to the FixUp *child* job if the search is unsuccessful, the PageID task has to apply a very simple but powerful **PatternMatch** RuleSet.

The RuleSet is bound to the applicable Anchor **Field** object of the Document Hierarchy – *Anchor1*, for example – and consist of two rules:



The **MatchPattern** action of the first rule directs the task to search the current *source* page for the Anchor field represented by the *Anchor1* **Field** object of the Document Hierarchy.

If the search is unsuccessful, Rule2 confirms that the task has encountered a problem; indicates the problem is caused by condition "0" (*PatternMatch*, in this case); and delegates the batch to the *child* job identified with a "0" – the FixUp job.