

Course Guide

IBM Datacap 9.0.1 Administration

Course code F258 ERC 1.0



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Contents

	lemarks	
Cou	rse description	vii
Age	nda	ix
l Init	1. Administration of Production System	1_1
Omi	What this unit is about	
	What you should be able to do	
	How you will check your progress	
	References	
	Unit objectives	
	Lesson 1.1. Create Shortcuts to Web Clients	
	Create Shortcuts to Web Clients	
	Topics	
	Why is this lesson important to you?	
	Shortcuts for Datacap Web Client	
	Shortcuts for Datacap Web Client Tab	
	Selected Shortcut Details	
	Task Shortcut Configuration	
	Main Job	
	Fixup Job	
	Web Job	
	Selected Task Details Window	
	Selected Task Details Window Options Description	
	Selected Task Details Parameters	
	Datacap Web Components	
	Setup Configuration	
	Review questions	
	Review answers	1-24
	Review questions	1-25
	Review answers	1-26
	Demonstration	1-27
	Exercise: Create Shortcuts to Web Clients	1-28
	Exercise introduction	1-29
	Lesson 1.2. Virtual Stations and Queuing of Tasks	1-31
	Virtual Stations and Queuing of Tasks	1-32
	Topics	
	Why is this lesson important to you?	1-34
	Understand Queuing of Batches	
	Queue by Field Options	
	Store Field Options	
	Datacap Web Interface	
	Review introduction	
	Review questions	
	Review answers	
	Review questions	
	Review answers	
	Exercise: Virtual Stations and Queuing of Tasks	
	Exercise introduction	

	Lesson 1.3. Disaster Recovery	1-47
	Disaster Recovery	1-48
	Topics	
	Why is this lesson important to you?	
	Backup and Restore Strategy	
	Backup and Restore for Stateless Servers	
	Backup and Restore the Datacap Server	
	Backup the Database Server	
	Backup the File Share	
	Review questions	
	Review answers	
	Review questions	
	Review answers	
	Review questions	
	Review answers	
	Lesson 1.4. Configure DB2 Server	
	Configure DB2 Server	
	Topics	
	Why is this lesson important to you?	
	Supported Databases	
	Database Conversion Prerequisites	
	Define the Database Structure	
	Migrate the Application & Databases	
	Configuring the Application to use the Database	
	Demonstrations	
	Exercise: Configure DB2 Server	1-75
	Exercise introduction	1-76
	Lesson 1.5. Application Globalization	1-77
	Application Globalization	1-78
	Topics	1-79
	Why is this lesson important to you?	
	Application globalization (What and Where)	
	Levels of globalization	
	Application level globalization	
	Application globalization (How)	
	Datacap Desktop Translations	
	Datacap Navigator Translations	
	Resources.json translation keys	
	Validation ruleset and message	
	Review questions	
	Review answers	
	Exercise: Application Globalization	
	Exercise objectives	
	Unit summary	
	Offic Summary	1-31
Hait	2. Maintenance	2 4
Ullit		
	What this unit is about	
	What you should be able to do	
	How you will check your progress	
	References	
	Unit Objectives	
	Lesson 2.1. System Maintenance	
	System Maintenance	
	Topics	
	Why is this lesson important to you?	
	Routine Maintenance	. 2-7

	Preventive Maintenance	. 2-8
	Corrective Maintenance	. 2-9
	Review introduction	2-10
	Review questions	2-11
	Review answers	2-12
	Review questions	2-13
	Review answers	2-14
	Review questions	2-15
	Review answers	2-16
	Exercise: System Maintenance	2-17
	Exercise introduction	2-18
Less	on 2.2. Maintenance Manager	2-19
	Maintenance Manager	2-20
	Topics	2-21
	Why is this lesson important to you?	2-22
	What can Maintenance Manager do?	2-23
	Maintenance Manager Uses	2-24
	Maintenance Manager Run Methods	2-25
	Maintenance Manager UI	2-26
	Procedure for Creating a Maintenance Manager App	2-28
	Maintenance Manager Action Categories	2-29
	Procedure to AutoDelete Batches	2-31
	Demonstrations	2-32
	Exercise: Maintenance Manager	2-33
	Exercise introduction	2-34
Less	on 2.3. Event Logs	2-35
	Event Logs	2-36
	Topics	2-37
	Why is this lesson important to you?	2-38
	Introduction to Logging	2-39
	Identify Logs	2-40
	Control Log Content - Datacap Server Manager	
	Control Log Content - Rulerunner Manager Quick Log	2-44
	Control Log Contents - Maintenance Manager Log	
	Maintenance Manager Actions for Logging	2-47
	Maintain Event Logs	2-49
	Datacap Logs	2-50
	View Event Logs	2-51
	Log File Locations	2-52
	Exercise: Event Logs	2-53
	Exercise introduction	2-54
	Unit ourmany	2 55

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Course description

IBM Datacap 9.0.1 Administration

Duration: 8 hours

Overview

This course shows you how to administer and maintain an IBM Datacap system. Topics: Virtual stations, Queueing of tasks, Disaster recovery, DB2 database configuration, Globalization, and event logs

You work with a fully functioning IBM FileNet Content Manager system configured with IBM Content Navigator and IBM Datacap for students to practice the skills that are required to implement and configure data capture solutions.

Audience

- · Administrators who are responsible for administering and maintaining Datacap system
- Anyone who needs to know the Datacap system administration and maintenance

Prerequisites

The following courses or equivalent knowledge are required:

- IBM Datacap 9.0.1: Introduction (F251)
- Recommended: IBM Datacap 9.0.1: Configuration (F256)
- Recommended: IBM Datacap 9.0.1: Datacap Navigator Configuration (F257)

Course objectives

Upon completion of this course, participants will be able to:

- Create shortcuts for Web Client tasks
- Configure store and queue by options
- Identify Disaster Recovery concepts
- Migrate Data from Access to DB2 database
- Configure Application Globalization
- Synchronize Job Monitor and Batch Folders for system maintenance
- Create and configure a Maintenance Manager Application
- Configure Event Logs

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Course Topics

Refer to the "Contents" section (TOC) for course content.

Curriculum relationship

Prerequisite for this course

• F251 IBM Datacap 9.0.1: Introduction

For anyone involved in Datacap Configuration, Maintenance, or Administration, the following classes should be taken as a set.

- F256 IBM Datacap 9.0.1: Configuration
- F257 IBM Datacap 9.0.1: Datacap Navigator Configuration
- F258 IBM Datacap 9.0.1: Administration

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Agenda



Note

The following lesson durations are estimates, and might not reflect every class experience.

Day 1

Unit 1. Administration of Production System

(01:15) Lesson 1 - Create Shortcuts to Web Clients

(01:00) Lesson 2 - Virtual Stations and Queuing of Tasks

(00:30) Lesson 3 - Disaster Recovery

(01:15) Lesson 4 - Configure DB2 Server

(01:00) Lesson 5 - Application Globalization

Unit 2. Maintenance

(01:00) Lesson 1 - System Maintenance

(01:00) Lesson 2 - Maintenance Manager

Day 2

Unit 2. Component Configuration

(01:00) Lesson 3 - Event Logs

Unit 1. Administration of Production System

What this unit is about

In this unit, you learn about the concepts of virtual stations and queuing tasks. You also learn how to create shortcuts to run tasks from the Web Client tmweb, disaster recovery and migrate Datacap application databases between other database platforms.

What you should be able to do

- Add Shortcuts to Web Client
- Understand Virtual Stations and Queuing of Tasks
- Plan for Disaster Recovery
- · Convert and Migrate Datacap Databases.
- Configure Globalization

How you will check your progress

• Successfully complete the activities in the Student Workbook.

References

- Knowledge Center
 - http://www.ibm.com/support/knowledgecenter/SSZRWV_9.0.1/com.ibm. dc.install.doc/dcpov007.htm
- Redbooks: Implementing Document Imaging and Capture Solutions with IBM Datacap
 - http://www.redbooks.ibm.com/abstracts/sg247969.html?Open

Unit objectives

- Understand Virtual Stations and Queuing of Tasks
- Add Shortcuts to Web Client
- Plan for Disaster Recovery
- Convert and Migrate Datacap Databases.
- Configure Globalization

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Figure 1-1. Unit objectives

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Lesson 1.1. Create Shortcuts to Web Clients

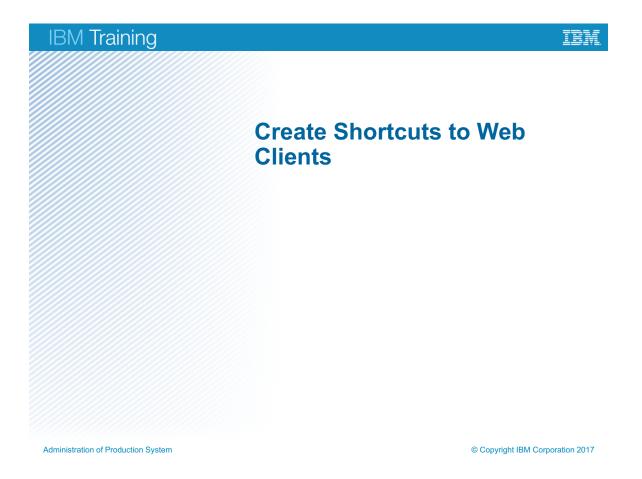


Figure 1-2. Create Shortcuts to Web Clients

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Topics

- Create Shortcuts to Web Clients
 - Virtual Stations and Queuing of Tasks
 - Disaster Recovery
 - Configure DB2 Server
 - Application Globalization

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Figure 1-3. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You must configure shortcuts on the Web client Administrator > Shortcuts menu. These shortcuts define workstation and Web client executable tasks for an application.

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Figure 1-4. Why is this lesson important to you?

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Shortcuts for Datacap Web Client

- The Shortcuts tab defines the shortcuts that are displayed on the Operations > Run Shortcut tab.
- Shortcuts are configured on the Taskmaster Web client > Administrator
 Shortcuts page.
- A Shortcut can select one or more tasks in the Workflow tab.
- Selected shortcut details pane if where you set the shortcuts options.
- Not all Shortcuts on Administrator > Shortcuts tab are available on the Operations >Run Shortcut tab.
- The conditions that filter the Operations > Run Shortcut list are:
 - The permissions that are assigned to the logged in user.
 - The permissions that are assigned to the selected station.
 - The Web Job > Task must have the Program Key set to a valid .aspx web page for the task. See Notes for valid .aspx pages.

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Figure 1-5. Shortcuts for Datacap Web Client

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Notes:

Run Shortcut filter examples:

- For user scott to run the iVscan task and the Upload task from a web client:
 - The scott users must have the iVScan task and the Upload task check boxes that are checked in the user Permission section.
 - The **Web Job iVscan task** must have the Program key under Parameters set to **VScancl.aspx**.
 - The **Web Job Upload task** must have the Program key under Parameters set to **UplBFcl.aspx**.

Note: In general, for a web client task, the Program key must be set to a valid .aspx for processing the task.

Web Client .aspx pages

Function and web page

Remote Scanning - Scancl.aspx

Virtual Scanning - VScancl.aspx

Image upload - UplBFcl.asx

Verification - verifine.aspx aVerify.aspx imgEnter.aspx

Verification manual page ID and manual registration- alndex.aspx

Manual page ID and fixup - ProtoID.aspx

Shortcuts for Datacap Web Client Tab

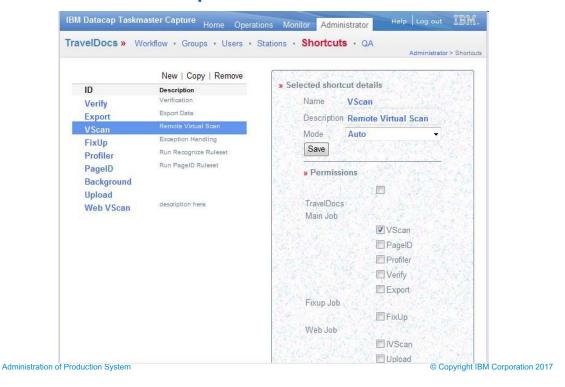


Figure 1-6. Shortcuts for Datacap Web Client Tab

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Selected Shortcut Details

- Name
 - Displays the shortcut name.
- Description
 - Displays the shortcut description that is shown on the Operations tab.
- Mode
 - Prompt/Web select: Opens the pending job with the highest priority.
 - Auto: Same as Prompt/Web select.
 - Manual: Display the job queue so the operator can select a batch.
 - Manual for Hold: Display batches on hold first; otherwise, open the batch with the highest pending priority.
- Permissions
 - Select the tasks that apply to this shortcut

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Figure 1-7. Selected Shortcut Details

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Notes:

Selected Shortcut Details

Used to change the settings for the selected shortcut. Click Save after you change settings.

Name

Displays the shortcut name.

Description

Displays the shortcut description that is shown on the Operations tab. Enter a description that tells an operator about the task that is associated with the shortcut.

Mode

The Mode determines the Datacap behavior when an operator runs the shortcut:

- Prompt/Web select: Datacap opens the highest priority job in the queue that is in the pending state. Datacap does not open any job on hold, even if there are no pending batches.
- Auto: Same as Prompt/Web select.

- Manual: Datacap displays the job queue so the operator can select a batch (either pending or on hold).
- Manual for Hold: If there are batches on hold, Datacap displays the job queue with the jobs that are on hold. If there are no jobs on hold, Datacap opens the highest priority batch in the queue that is in the pending state.

The Mode setting does not apply to batch creation tasks (such as Scan or VScan).

Permissions

This section shows all of the jobs and tasks that are defined on the Workflow tab. Select the tasks that apply to this shortcut.

When an operator runs the shortcut, Datacap checks the job queue for batches that are ready for processing by any of the selected tasks. For example, the application has a Main Job and a Web Job, each with a Verify task. When you select both of the Verify tasks (one in the Main Job and one in the Web Job), the operator can verify batches that are started from either job.

Task Shortcut Configuration

- Application tasks are configured on the TMWeb > Administrator > Workflow Tab.
- Main Job configuration
- Fixup Job configuration
- Web Job configuration
- Selected task detail configuration
 - Parameters configuration
 - Setup Configuration

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Figure 1-8. Task Shortcut Configuration

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Main Job

- The Main Job defines tasks that run thick clients on workstations that have Datacap Workstation components installed.
- Typical tasks and thick clients
 - VScan Datacap Desktop
 - PageID Rulerunner
 - Profiler Rulerunner
 - Verify Datacap Desktop
 - Export Rulerunner

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Figure 1-9. Main Job F2581.0

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Fixup Job

- The FixUp task is for processing the image to make it more readable before the capture process continues.
- Typical task and thick client
 - Fixup Multiple

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Figure 1-10. Fixup Job F2581.0

Web Job

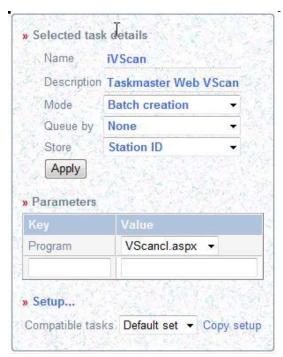
- The Web Job defines tasks that can be run with a web browser on a web client that has no Datacap Workstation components installed.
- Except for the iVScan, Upload, and Verify task the processing is done on the Rulerunner server.
- Typical tasks and thick clients
 - iVScan VScancl.aspx
 - Upload UplBFcl.aspx
 - PageID Rulerunner
 - Profiler Rulerunner
 - Verify VeriFine.aspx or aVerify.aspx
 - Export Rulerunner

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Figure 1-11. Web Job F2581.0

Selected Task Details Window



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Figure 1-12. Selected Task Details Window

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Selected Task Details Window Options Description

- In the selected task details window you cou can change the setting for the selected task.
- Name: VScan, Pageld, Profiler, Verify, Export
- Description: Any suitable description
- Mode: Normal Used for most tasks
 - Batch creation Used for Scan tasks
 - Router Used when sub tasks are required like Fix up
- Queue by: Refer to the "Virtual stations and queuing of tasks" lesson.
- Store: Refer to the "Virtual stations and queuing of tasks" lesson.

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Figure 1-13. Selected Task Details Window Options Description

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Notes:

Selected Task Details

Select a task to open the Selected task details pane and change the settings for the selected task. Click Apply after you change settings.

Name

Displays the task name.

Description

Displays the task description.

Mode

Each task must be linked to a mode. The mode specifies the behavior of the task. The mode list displays the modes that are available for selection and includes:

 Batch Creation: Select this mode for use with VScan, or if you are creating a task to scan hardcopy documents in Datacap desktop or in Taskmaster Web or Datacap Navigator web interfaces.

- Important: A job can contain only one Batch Creation task. If the job that you are modifying already includes a batch creation task, you must remove that task.
- Router: Select this mode if the task routes the batch to a different task or job when the criteria of
 a condition are met. One example of a condition is a document integrity failure that requires a
 supervisor intervention. When you select this mode, Datacap automatically inserts a Return
 Conditions key under the Parameters section.
- Normal: This mode is for all other tasks that are not used for Batch Creation or that do not require special handling.

Selected Task Details Parameters

- Thick client program options
- Multiple
 - Select this program if the task can be run in the background by Rulerunner, in the Taskmaster Web client, or in an application client. (Datacap Desktop, or FastDoc).
- Datacap Desktop
 - Select this program if you use Datacap Desktop exclusively to run this task.
- Rulerunner
 - Select this program if Rulerunner is used exclusively to run background tasks.
- FastDoc
 - Select this program if you use FastDoc exclusively to run this task.

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Figure 1-14. Selected Task Details Parameters

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Notes:

Selected Task Details

Select a task to open the Selected task details pane and change the settings for the selected task. Click Apply after you change settings.

Name

Displays the task name.

Description

Displays the task description.

Mode

Each task must be linked to a mode. The mode specifies the behavior of the task. The mode list displays the modes that are available for selection and includes:

 Batch Creation: Select this mode for use with VScan, or if you are creating a task to scan hardcopy documents in Datacap desktop or in Taskmaster Web or Datacap Navigator web interfaces.

- Important: A job can contain only one Batch Creation task. If the job that you are modifying already includes a batch creation task, you must remove that task.
- Router: Select this mode if the task routes the batch to a different task or job when the criteria of
 a condition are met. One example of a condition is a document integrity failure that requires a
 supervisor intervention. When you select this mode, Datacap automatically inserts a Return
 Conditions key under the Parameters section.
- Normal: This mode is for all other tasks that are not used for Batch Creation or that do not require special handling.

Create Shortcuts for Web Clients



Datacap Web Components

Function	Web Page
Remote Scanning	Scancl.aspx
Virtual Scanning	VScancl.aspx
Image upload	UplBFcl.asx
Verification	verifine.aspx
	aVerify.aspx
	imgEnter.aspx
Verification, manual page ID, and manual registration	aIndex.aspx
Manual page ID and fixup	ProtoID.aspx
Application administration	Standard tmweb.net interface
Job monitoring	Standard tmweb.net interface

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Figure 1-15. Datacap Web Components

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Setup Configuration

- Different setup layouts are used for different Tasks.
 - The task name selects the .xml file that is used to display the setup layout.
 - Verify -> C:\Datacap\<app>\dco<app>\Verify.set.xml
- Implement a start panel for the VScan task.
 - In the Setup page scroll to the Scan or Disk Scan panel.
 - Select the Show the Start Batch Panel check box.
 - The start panel displays a data entry field for each batch level field that you defined in the document hierarchy.
- In the Datacap Desktop section, name the verify panel.
 - In the Setup page scroll to the Datacap Desktop panel.
 - Define a Panel name for each DCO type.

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Figure 1-16. Setup Configuration

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Review questions



1. What would you expect to see as the Program Key for each of the Web Job tasks?

- a. iVScan _____
- b. Upload _____
- c. Profiler _____
- d. Verify _____
- e. Export _____

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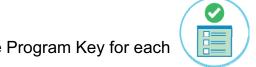
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Figure 1-17. Review questions

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Review answers



- 1. What would you expect to see as the Program Key for each of the Web Job tasks?
 - a. iVScan . VScancl.aspx .
 - b. Upload . UplBFcl.aspx .
 - c. Profiler . Rulerunner .
 - d. Verify . Multiple .
 - e. Export . Rulerunner .

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Figure 1-18. Review answers

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Review questions



Which tasks would you expect to see on the Operations task list:

Options: None, VScan, Web Scan, Upload, and Verify/Fix

- a. If you log in to ExpenseDemo as erin with station 1 selected?
 Answer =
- b. If you log in to ExpenseDemo as susan with station 1 selected?

Answer =

- If you log in to ExpenseDemo as sam with station 1 selected?

 Answer =
- d. If you log in to ExpenseDemo as vinny with station 1 selected?
 Answer =
- e. If you log in to ExpenseDemo as susan from station 4 selected?

Answer =

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Figure 1-19. Review questions

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Review answers



Which tasks would you expect to see on the Operations task list:

Options: None, VScan, Web Scan, Upload, and Verify/Fix

- a. If you log in to ExpenseDemo as erin with station 1 selected?
 Answer = None
- b. If you log in to ExpenseDemo as susan with station 1 selected?

Answer = VScan, Web Scan, Upload, and Verify/Fix

- If you log in to ExpenseDemo as sam with station 1 selected?
 Answer = VScan, Web Scan, and Upload
- d. If you log in to ExpenseDemo as vinny with station 1 selected?
 Answer = Verify/Fix
- e. If you log in to ExpenseDemo as susan from station 4 selected?

Answer = VScan, Web Scan, and Upload

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Figure 1-20. Review answers

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Demonstration

Configure Web Client Shortcuts



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Figure 1-21. Demonstration

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Notes:

If you are taking this course as a self-paced virtual course, return to the main course menu to play the pre-recorded demonstrations.

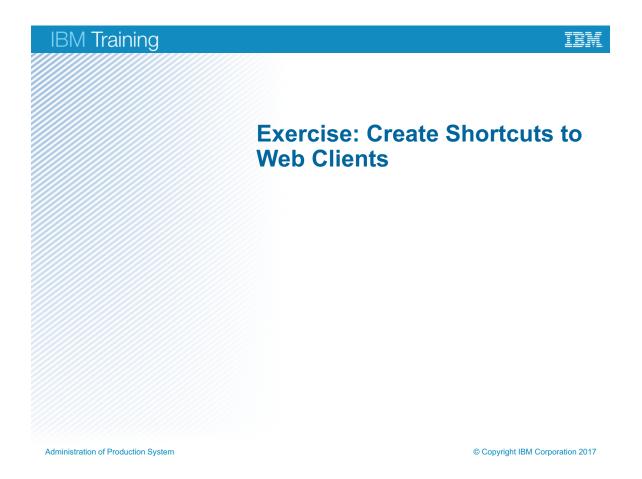


Figure 1-22. Exercise: Create Shortcuts to Web Clients

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Exercise introduction



- Configure Web Client Shortcuts.
- Knowledge Checkpoint: Configure Web Client Shortcuts: Quiz

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Figure 1-23. Exercise introduction

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Lesson 1.2. Virtual Stations and Queuing of Tasks

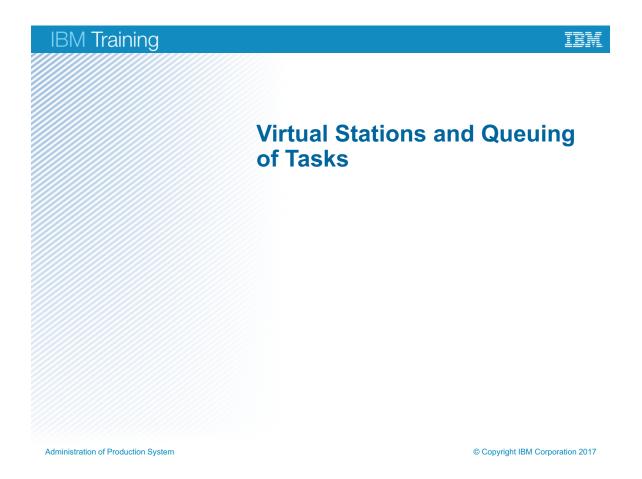


Figure 1-24. Virtual Stations and Queuing of Tasks

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Topics

- Create Shortcuts to Web Clients
- Virtual Stations and Queuing of Tasks
 - Disaster Recovery
 - Configure DB2 Server
 - Application Globalization

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Figure 1-25. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You need to know how to use the user ID and the station ID to determine how jobs are queued for processing as they move through the job tasks.

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Figure 1-26. Why is this lesson important to you?

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Understand Queuing of Batches

- Queuing definition.
 - Queuing is the ability to control which users or stations can open and process a batch through a task.
- The use of queuing is optional.
- The parameters that control queuing are:
 - Queue by
 - Store
- Queue by sets the combination of user ID and station ID that can open a batch.
- Store sets the user ID and station ID required by a later task.
- These parameters are set on the Datacap Web Workflow tab.

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Figure 1-27. Understand Queuing of Batches

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Queue by Field Options

- None
- Station
- User
- Other Station
- Other User
- Station and User
- Station and Other User
- User and Other Station
- Other Station and Other User

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Figure 1-28. Queue by Field Options

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Notes:

None: Any user on any station can open the batch (default setting).

Station: Only the station that stored the batch can open the batch.

User: Only the user that stored the batch can open the batch.

Other Station: The station that stored the batch cannot open the batch.

Other User: The user that stored the batch cannot open the batch.

Station and User: Only the same station and the same user that stored the batch can open the batch.

Station and Other User: Only a different user on the station that stored the batch can open the batch.

User and Other Station: Only the same user on a different station can open the batch.

Other Station and Other User: Only a different user on a different station can open the batch.

Virtual Stations and Queuing of Tasks

IBM

Store Field Options

- Ensure that the option you choose for the Store field provides the information that the task require that occurs later in the workflow.
- Store field options are:
 - None: No user ID or station ID is stored (default setting).
 - Station ID: Stores the station ID with the batch.
 - User ID: Stores the user ID with the batch.
 - Station ID and user ID: Stores the station ID and the user ID with the batch.

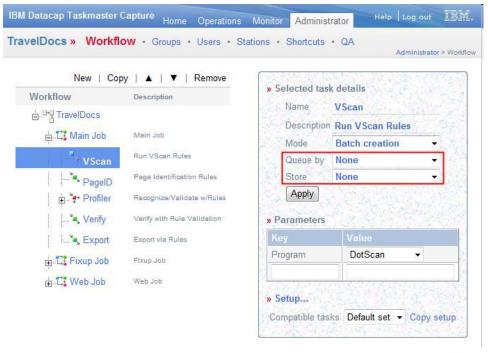
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Figure 1-29. Store Field Options

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Datacap Web Interface



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Figure 1-30. Datacap Web Interface

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IBM

Review introduction



An application is configured with Store and Queue by options in the job tasks as follows:

- 1. At the VScan step, set Store to Station ID and User ID.
- At the PageID step, set Queue by to Station
- 3. At the Profiler step, set Queue by to User And Other Station.
- 4. At the Verify step, set Queue by to Other User Other Station.
- 5. The susan user processes the VScan step while logged in to station 1.

Assume that users erin and susan both have permission to process any job step for the test application.

For each question, indicate the correct answer or the best answer. If the user and station combination is allowed to process the step, then choose Pass otherwise choose Fail.

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Figure 1-31. Review introduction

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IBM

Review questions



- 1. Which combination of user and station are allowed to process the PageID step.
 - a. User susan and station 2. Pass or Fail
 - b. User erin and station 2. Pass or Fail
 - c. User erin and station 1. Pass or Fail
- Which combination of user and station are allowed to process the Profiler step.
 - a. User erin and station 1. Pass or Fail
 - b. User erin and station 2. Pass or Fail
 - c. User susan and station 2. Pass or Fail
- Which combination of user and station are allowed to process the Verify step.

User erin and station 1. Pass or Fail User susan and station 2. Pass or Fail User erin and station 2. Pass or Fail

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Figure 1-32. Review questions

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IDM

Review answers



1. Which combination of user and station are allowed to process the PageID step.

a. User susan and station 2. Pass or Fail
b. User erin and station 2. Pass or Fail
c. User erin and station 1. Pass or Fail
Answer = Fail
Answer = Pass

2. Which combination of user and station are allowed to process the Profiler step.

a. User erin and station 1. Pass or Fail
 b. User erin and station 2. Pass or Fail
 c. User susan and station 2. Pass or Fail
 Answer = Fail
 Answer = Pass

3. Which combination of user and station are allowed to process the Verify step.

User erin and station 1. Pass or Fail
User susan and station 2. Pass or Fail
User erin and station 2. Pass or Fail
User erin and station 2. Pass or Fail
Answer = Fail
Answer = Fail

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Figure 1-33. Review answers

F2581.0

IBM

Review questions



- 4. Which combination of User and station are allowed to process the Export step.
 - a. User erin and station 1. Pass or Fail
 - b. User susan and station 2. Pass or Fail
 - c. User erin and station 2. Pass or Fail

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Figure 1-34. Review questions

F2581.0

IBM

Review answers



- 4. Which combination of User and station are allowed to process the Export step.
 - a. User erin and station 1. Pass or Fail Answer = Pass
 - b. User susan and station 2. Pass or Fail Answer = Pass
 - c. User erin and station 2. Pass or Fail Answer = Pass

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Figure 1-35. Review answers

F2581.0

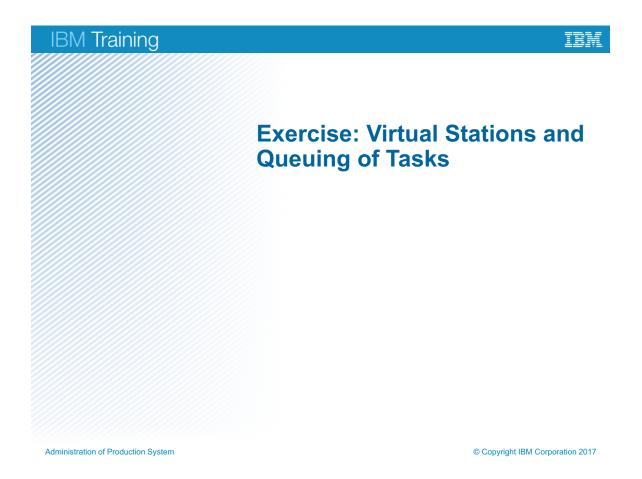


Figure 1-36. Exercise: Virtual Stations and Queuing of Tasks

F2581.0

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Exercise introduction



- Knowledge Checkpoint: Control Queuing Tasks in a Workflow
- · Optional: Control Queuing Tasks in a Workflow

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Figure 1-37. Exercise introduction

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Lesson 1.3. Disaster Recovery

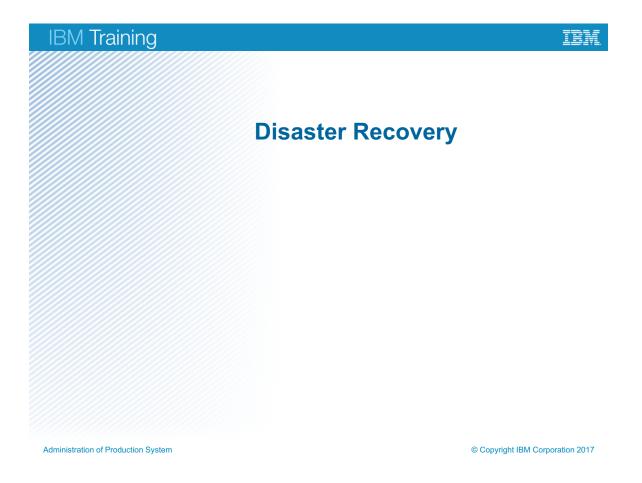


Figure 1-38. Disaster Recovery

F2581.0

Topics

- Create Shortcuts to Web Clients
- Virtual Stations and Queuing of Tasks
- Disaster Recovery
 - Configure DB2 Server
 - Application Globalization

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Figure 1-39. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You are required to make sure that a regular backup is made of both production and development systems. This action makes sure that if a failure occurs, you have a recovery point to revert to.

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Figure 1-40. Why is this lesson important to you?

F2581.0

Backup and Restore Strategy

- Back up both production and development systems.
- Do full mirror backup of each server that is in the system.
- The site backup policy determines backup Frequency.
- When all servers are backed up, they need only to be backed up again after service pack application or other configuration change. (site policy determines frequency)
- Back up practice to make sure that there is no system activity during backup.
 - Close connected clients if possible.
 - Stop all services.
 - Shut down the Datacap Server Service.
- System downtime is the best time to do backups.

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Figure 1-41. Backup and Restore Strategy

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Backup and Restore for Stateless Servers

- Stateless severs are:
 - Rulerunner servers.
 - Fingerprint servers.
 - Web servers.
- Stateless servers:
 - Provide services but data is held elsewhere.
 - Web servers can temporarily hold scanned batches until they are uploaded to the file share.
- For Web servers Backup, make sure that the scanned batches are uploaded and purged before starting the backup.

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Figure 1-42. Backup and Restore for Stateless Servers

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Backup and Restore the Datacap Server

- Datacap Server provided services:
 - User Authentication
 - Workflow and queuing
 - File services for Taskmaster Web.
 - Storage in two databases of user details and batch job status.
- Datacap Server backup
 - Back up as described for stateless servers.
 - Use procedure that is described for the backup and restore strategy slide.

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Figure 1-43. Backup and Restore the Datacap Server

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Backup the Database Server

- Databases that are most rapidly updated in real time are
 - Administration database
 - Engine database
 - Fingerprint database
- For mission critical environments databases, The use of mirrored image is preferred.
- More detailed database backup information is available in the database vendor documents, websites and other publications.

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Figure 1-44. Backup the Database Server

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Backup the File Share

- The file share holds all batch data and the IBM Datacap application project files.
- Continuously mirroring this drive makes sure that a fully up-to-date version of the batches.
- If paired with database mirroring of the Engine database, the status of the batches is also preserved.

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Figure 1-45. Backup the File Share

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Review questions



- 1. For each of the server types listed, indicate which fit the description of a Stateless server.
 - a. True or False: Rulerunner Servers are stateless?
 - b. True or False: Fingerprint Servers are **stateless**?
 - c. True or False: Datacap Server are stateless?
 - d. True or False: Database Servers are stateless/
 - e. True or False: File Server are stateless?
 - f. True or False Web Servers are stateless after scan batches are uploaded?

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Figure 1-46. Review questions

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IBM

Review answers



1. For each of the server types listed, indicate which fit the description of a Stateless server.

a. True or False: Rulerunner Servers are stateless.

The answer is True

b. True or False: Fingerprint Servers are **stateless**.

The answer is True

c. True or False: Datacap Server are stateless.

The answer is False

d. True or False: Database Servers are stateless.

The answer is False

e. True or False: File Server are stateless.

The answer is False

f. True or False Web Servers are stateless.

The answer is True (after scan batches are uploaded)

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Figure 1-47. Review answers

F2581.0

IBM

Review questions



- 2. How often must Datacap servers with volatile data be backed up.
 - a. True or False: Datacap servers must be backed up at a period that the corporate backup strategy determines.
 - b. True or False: Datacap servers must be backed up every month.
 - c. True or False: Datacap servers must be backed up every week.
 - d. True or False: Datacap servers must be backed up every day.
 - e. True or False: Datacap servers must be backed up when the volume of data capture activity warrants a backup of the volatile data to prevent data loss.

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Figure 1-48. Review questions

F2581.0

IBM

Review answers



2. How often must Datacap servers with volatile data be backed up.

a. True or False: Datacap servers must be backed up at a period that the corporate backup strategy determines.

The answer is True

b. True or False: Datacap servers must be backed up every month.

The answer is False

c. True or False: Datacap servers must be backed up every week.

The answer is False

d. True or False: Datacap servers must be backed up every day.

The answer is False

e. True or False: Datacap servers must be backed up when the volume of data capture activity warrants a backup of the volatile data to prevent data loss.

The answer is False

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Figure 1-49. Review answers

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Review questions



- Which of the following statements are accurate for a valid backup practice for a Datacap Capture system? There is more than one correct answer.
 - a. True or False: All servers in the system must be backed up at least weekly and while system activity is at a minimum.
 - b. True or False: All Stateless servers must be backed up weekly and Data servers (non-stateless) every day at least system performance.
 - c. True or False: Stateless servers must be backed up one time and thereafter only when system configuration changes occur or service packs are applied.
 - d. True or False: Servers that hold volatile data (non-stateless) must be backed up in accordance the corporate backup strategy document.
 - e. True or False: Before a backup of the Web server, make sure that remote scanned batches are uploaded and purged.

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Figure 1-50. Review questions

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IBM

Review answers



- Which of the following statements are accurate for a valid backup practice for a Datacap Capture system? There is more than one correct answer.
 - a. True or False: All servers in the system must be backed up at least weekly and while system activity is at a minimum.

The answer is False

b. True or False: All Stateless servers must be backed up weekly and Data servers (non-stateless) every day at least system performance.

The answer is False

c. True or False: Stateless servers must be backed up one time and thereafter only when system configuration changes occur or service packs are applied.

The answer is True

d. True or False: Servers that hold volatile data (non-stateless) must be backed up in accordance the corporate backup strategy document.

The answer is True

e. True or False: Before a backup of the Web server, make sure that remote scanned batches are uploaded and purged.

The answer is True

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Figure 1-51. Review answers

F2581.0

Lesson 1.4. Configure DB2 Server

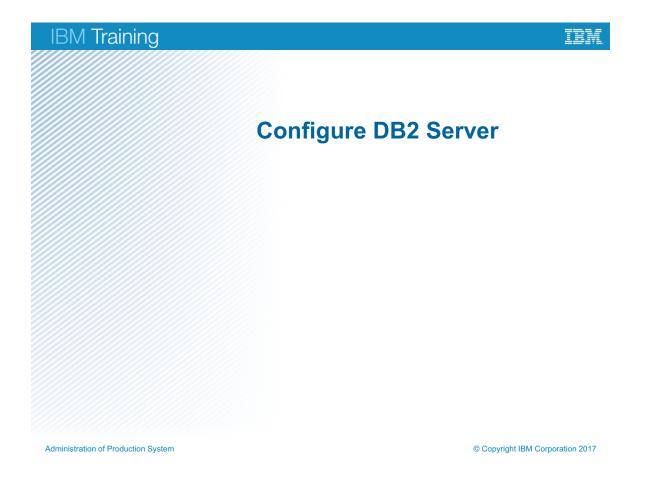


Figure 1-52. Configure DB2 Server

F2581.0

Topics

- Create Shortcuts to Web Clients
- Virtual Stations and Queuing of Tasks
- Disaster Recovery
- Configure DB2 Server
 - Application Globalization

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Figure 1-53. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- In this lesson, you configure the DB2 Server database and migrate the contents of default Admin, Engine, and Fingerprint Access databases to the DB2 database.

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Figure 1-54. Why is this lesson important to you?

F2581.0

Supported Databases

- Sample Application Templates use Access databases.
- Microsoft SQL Server
- Oracle
- Datacap databases that can be converted are:
 - Administration database
 - Definitions for workflows, jobs, and tasks
 - Also, user, group, and station security information.
 - Engine database
 - Historical processing information for each batch
 - Fingerprint database
 - Fingerprints to identification and align them to
 - Lookup database
 - Lookup lists.
 - Application-specific databases

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Figure 1-55. Supported Databases

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Database Conversion Prerequisites

- A database administrator requires the right to create and modify a database.
- For SQL Server, for isolated test environment you can use Microsoft SQL Server Express.
- For Oracle, Oracle client must be installed on:
 - The database server.
 - Workstations with clients that require fingerprint database access.
 - These clients include:
 - Datacap Desktop
 - FastDoc
 - Rulerunner
 - Taskmaster Web
 - Datacap Navigator

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Figure 1-56. Database Conversion Prerequisites

F2581.0

Define the Database Structure

- SQL Scripts define the structure for Datacap databases.
- Script location for C:\Datacap\support\DBScript for:
 - DB2
 - Oracle
 - Microsoft SQL Server
- Procedure
 - Refer to notes for the procedure and specific script names.

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Figure 1-57. Define the Database Structure

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Notes:

Database Creation Scripts

```
DB2_Adm_Base.sql
DB2_Eng_Base.sql
DB2_FP_Base.sql
Oracle
Oracle_Adm_Base.sql
Oracle_Eng_Base.sql
Oracle_FP_Base.sql
Microsoft SQL Server
SQL_Adm_Base.sql
SQL_Eng_Base.sql
```

SQL_FP_Base.sql

Define the Database in SQL Server.

- 1. Start SQL Server Management Studio and log on to the server as an administrator.
- 2. In SQL Server Management Studio, right-click the Databases object and choose New Database.
- 3. In the Database name field, type <app name> Adm and click OK.

Import the Database Structure for SQL Server.

- 1. Select the <app name> Adm database and click File Open.
- 2. Select the file SQL_Adm_Base.sql and click Open.
- 3. Click Execute.
- 4. Repeat procedures for Eng_Base and FP_Base

Migrate the Application & Databases

- Start Application Copy Tool.
 - Start > All Programs > IBM Datacap Developer Tools > Datacap Application Copy Tool.
- Specify Source Copy from options for:
 - Application Name
 - Application Databases.
- Specify the Destination Copy to options
 - Clear the Application files options.
 - Paste the connection string that is created by Datacap Application Manager.
 - For Administration, Fingerprint and Engine database.
 - Click Clear Engine Database check box.
 - See notes for copying the connection string.
- Click OK

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Figure 1-58. Migrate the Application & Databases

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Notes:

In the Application Copy Tool, do not use the String that is generated by the tool. Use this sample string that is generated by Datacap Application Manager.

Sample Connection String for BD2 connections

Provider=IBMDADB2;Hostname=ecmedu01;Data Source=Xtreme Sample Database 2008;Database=DCTDDB2;User ID=******;Password=******;

Configuring the Application to use the Database

- Open Datacap Application Manager.
- Select the application that you are migrating.

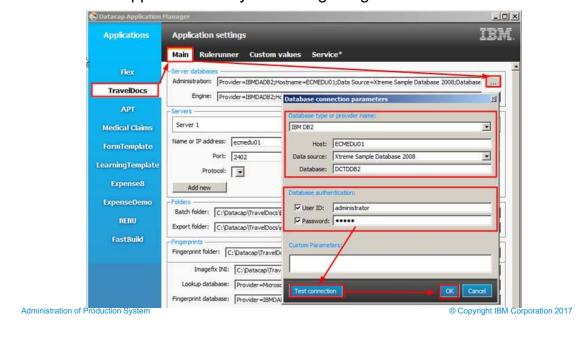


Figure 1-59. Configuring the Application to use the Database

F2581.0

Notes:

Procedure to Configuring the Application to use the Database.

- 1. Open Start > All Programs > IBM Datacap Services > Datacap Application Manager.
- Select an IBM Datacap Capture application. For example, select TravelDocs.
- 3. Click the Main tab.
- 4. In the Administration field, click [...] to go to the database.
- 5. In the Database Type field, select the database to which you want to configure the application, IBM DB2.
 - a. In the Host field type, the DB2 Server name ecmedu01
 - b. In the Data Source field select Xtreme Sample Database 2008
 - In the Database field, enter the name of the application database that you created in DB2, for example DCDTDB2

- 6. Under Database authentication, select the authentication option:
 - a. Click the user check box and type a user name that has authority to connect to the database, Example Administrator.
 - b. Click the Password check box and type the password for the selected user.
- 7. Click Test connection to verify that you can connect to the database.
- 8. Click Close to close the Test window.
- 9. Click OK to complete the connection process.
- 10. Repeat these steps for the Engine database. In the Database field, enter the name of the Datacap Engine database. For example, type TravelDocsEng.
- 11. Close the Datacap Application Manager.

Verifying the Database Connection.

• Verify the database by processing a document batch for the migrated application.

IBM Training

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Demonstrations

- Create a Database
- Create Database Table Structures
- Migrate the Data from Access to DB2
- Configure the Application for DB2
- Configure DB2 client and Connection Strings



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Figure 1-60. Demonstrations

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Notes:

If you are taking this course as a self-paced virtual course, return to the main course menu to play the pre-recorded demonstrations.

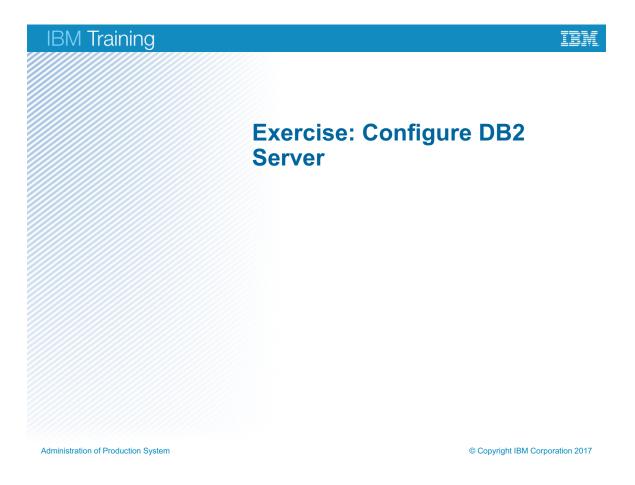


Figure 1-61. Exercise: Configure DB2 Server

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IBM Training

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Exercise introduction

Convert Access Database to DB2 Database Installation



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Figure 1-62. Exercise introduction

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Lesson 1.5. Application Globalization



Figure 1-63. Application Globalization

F2581.0

Topics

- Create Shortcuts to Web Clients
- Virtual Stations and Queuing of Tasks
- Disaster Recovery
- Configure DB2 Server
- Application Globalization

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Figure 1-64. Topics F2581.0

Why is this lesson important to you?

 This lesson provides an overview of how a developer can configure application globalization for different languages so the critical UI objects are displayed with localized names.

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Figure 1-65. Why is this lesson important to you?

F2581.0

Application globalization (What and Where)

- What is it?
 - The ability for developers to translate application strings and object names for UI element into multiple languages.
 - Users access application UIs in multiple locales / languages.
- What is translated?
 - Label variables for various names objects, if translations are provided.
 - Setup DCO Objects:
 - Document, Page, Field names.
 - Workflow objects:
 - Workflow, Job, Task, and Shortcut names
- Where are the translations visible?
 - Datacap Navigator client
 - Datacap Desktop client
 - UIs: scan, verify, classify; start batch

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Figure 1-66. Application globalization (What and Where)

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Levels of globalization

- Thick clients like Desktop, FastDoc, Datacap Server Manager, and so on.
 - Follow the language/locale settings set for windows in Control Panel > Clock, Language, and Region widget.
- Thin Clients like Datacap Navigator, tmweb.
 - Follow the setting in the browser settings.
 - For Firefox go to Tools > Options > Content
 Languages.
 - For Internet Explorer go to Tools > Internet Options > General > Languages.





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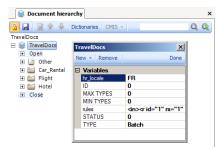
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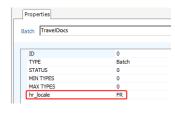
Figure 1-67. Levels of globalization

F2581.0

Application level globalization

- Within the Application.
 - Globalization can be applied at every level independently.
 - Achieved by setting an hr locale variable at one or move levels of the DCO.
 - Set DCO object globalization at: batch, document, page, or field level.
 - See the Example in the notes.
- Set top level to effect all DCO levels objects in two possible ways.
 - Set an hr locale variable:
 - For the whole application in Datacap Application Manager or
 - On the Batch object in Datacap Studio.
 - On lower level objects to override the top level.





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Figure 1-68. Application level globalization

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- If you want the entire application to work in a single locale,
 - Then set the variable once at the batch level and all objects will run in that locale.
 - This has the same effect as setting the hr_locale variable in the application manager... it will cause the hr_locale to be automatically set at the batch level at run time.
 - You can always override the global setting by setting another hr_locale variable at a lower level.
- If you need different objects in an application to work in different locales,
 - Then you can set the hr locale at the top node that should run in that locale.
 - All other nodes under it will automatically also use that locale.

Example: Different locale settings at different DCO object levels.

Assume hr_locale is set on these objects:

```
Batch <- hr_locale = en-US

Doc1

Page1 <- hr_locale = fr-FR

FieldA

FieldB <- hr_locale = de_DE

Doc2 <- hr_locale = ru-RU

Page2

FieldC
```

Doc3

Page3

FieldD

Then these are the locales the objects will run in:

en-US: Batch, Doc1, Doc3, Page3, FieldD

fr-FR: Page1, FieldA

de-DE: FieldB

ru-RU: Doc2, Page2, FieldC

Procedure to set object level globalization variables.

Set Object level globalization variables in Datacap Studio.

- 1. Lock the DCO structure.
- 2. Right-click the object, batch, document, page, or field.
- 3. Select Manage variables...
- 4. Click New and type variable name, hr locale.
- 5. Set the value to en, en-US, fr, fr-FR, de, de-DE, or some other valid local value.
- 6. The variable can be seen in the panel in the lower right corner of the Datacap Studio window.

Application globalization (How)

- How the developer configures globalization
 - Translate elements to a text resource file for each language.
 - Sample search order within a language set using English as an example:
 - dco\en-US\resources.json.
 - dco\en\resources.json.
 - dco\resources.json.
 - fall back to untranslated strings (Use names embedded in the interfaces).
 - Set Validation error messages via actions in the rrunner library:
 - MessageID and
 - MessageIDParameter
 - Replace, use of Message variables actions:
 - Message.
 - PilotMessageSet.

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Figure 1-69. Application globalization (How)

F2581.0

Notes:

Application globalization is easy for the developer. There is a single file that gets created for each language or locale. These locale resource files are expected in the application DCO sub folders C:\Datacap\dco_<application_Name>\Language or locale. Example en-us, en, de, fr and so on.

Globalization looks in a series of locations based on the locale setting to find the applicable translations for the client UIs. To be clear the search would never attempt to cross languages, the search would always remain within the language specified on the Format tab in the Windows Language settings view.

Sample English Search orderSample French Search orderGeneric Description of search order

en-US fr-FR Localized Language

en fr Base Language

Default (in root folder)Default (in root folder)Default (in root folder)

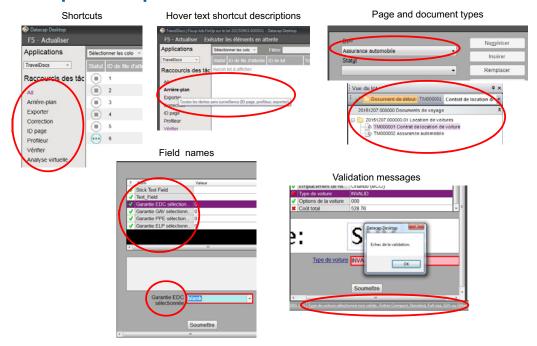
Language embedded in the interface.Language embedded in the interface.Language embedded in the interface.

Validation error messages require additional work.

Use application validation actions to set the messages rrunner > MessageID and MessageIDParameter actions.

Discontinue using PilotMessageSet actions.

Datacap Desktop Translations



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Figure 1-70. Datacap Desktop Translations

F2581.0

Notes:

The strings translated on the Datacap Desktop interface are:

- Shortcuts.
- Hover text shortcut descriptions.
- Page and document types.
- · Field names.
- Validation messages.

These fields are all marked in the screen capture images by the read circular or elliptical shapes.

Compare the default English resource.json file for the document types against the French resource.json file.

English

```
// document types
"doctype.Car_Rental":"Car rental",
"doctype.Flight":"Airline flight",
"doctype.Hotel":"Hotel bill",
```

French

"doctype.Car_Rental":"Location de voitures",
"doctype.Flight":"Vol de compagnie aérienne",
"doctype.Hotel":"Facture d'hôtel",

Compare the default English resource.json file for the page types against the French resource.json file.

English

```
// page types
"pagetype.Rental_Agreement":"Car rental agreement",
"pagetype.Optional_Insurance":"Car insurance",
"pagetype.Room_Receipt":"Hotel room charges",
"pagetype.Meals":"Meal charges",
"pagetype.Other_Charges":"Miscellaneous hotel charges",
"pagetype.Air_Ticket":"Airline ticket",
```

French

```
"pagetype.Rental_Agreement":"Contrat de location de voiture",
"pagetype.Optional_Insurance":"Assurance automobile",
"pagetype.Room_Receipt":"Frais de chambre d'hôtel",
"pagetype.Meals":"Frais de repas",
"pagetype.Other_Charges":"Frais d'hôtel divers",
"pagetype.Air_Ticket":"Billet d'avion",
```

In the Validation messages screen message window is translated by the product translation. The other translation is done by the Application globalization.

Datacap Navigator Translations

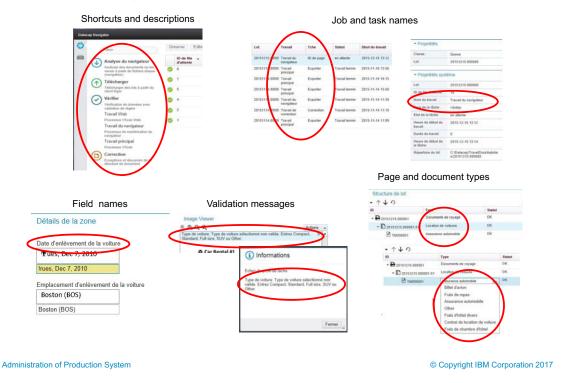


Figure 1-71. Datacap Navigator Translations

F2581.0

Notes:

The strings translated on the Datacap Desktop interface are:

- Shortcuts and Descriptions
- Job and Task names
- Page and document types
- Field names
- Validation messages

These fields are all marked in the screen capture images by the read circular or elliptical shapes.

Compare the default English resource.json file for the some field types against the French resource.json file.

English

French

```
// fields (includes batch-level fields)
"field.Pickup_Date":"Car pick-up date",
"field.Pickup_Location":"Car pick-up location",
"field.Return_Date":"Car return date",
"field.Return_Location":"Car return location",
"field.Car_Type":"Car type",
"field.Options":"Car options",
"field.Total_Cost":"Total cost",

// fields (includes batch-level fields)
"field.Pickup_Date":"Date d'enlèvement de la voiture",
"field.Pickup_Location":"Emplacement d'enlèvement de la voiture",
"field.Return_Date":"Date de retour de la voiture",
"field.Return_Location":"Emplacement de retour de la voiture",
"field.Car_Type":"Type de voiture",
"field.Options":"Options de la voiture",
```

"field.Total_Cost":"Coût total",

Resources.json translation keys

- A resources translation object consists of a key and a value.
 - The key precedes the colon.
 - The value follows the colon.
 - Both are surrounded by quotes.
- The key is a concatenation of the Object type and the object name separated by a period.

Example: key = "workflow.TravelDocs" value = "Travel Documents"

Resources.json file – key(type.name):value(translated)

```
{
// comments
"workflow.TravelDocs":"Travel Documents",
"job.Main Job":"Main Job",
"jobdescription.Main Job":"VScan process",
"shortcut.Verify":"Verify",
"shortcutdescription.Verify":"Verify with validations",
"task.VScan":"Virtual Scan",
"doctype.Car_Rental":"Car rental",
"pagetype.Rental_Agreement":"Car rental agreement",
"field.Pickup_Date":"Car pick-up date",
"message.M001":"Invalid car type selected. Enter {0}, {1}, {2}, {3} or {4}."
}
```

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Figure 1-72. Resources.json translation keys

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Validation ruleset and message

- To use selection list to populate a field with a validation error there must be:
 - A validation rule that has:
 - A MessageID action and
 - Multiple MessageParameter Actions.
 - A corresponding message

Validation rule using MessageID

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Figure 1-73. Validation ruleset and message

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Notes:

Resource.json

Sample Message

// messages (ID such as 'M001' must match those set in MessageIDParameter action)

// To use this message, replace PilotMessage Set action with MessageID action

// Translator: the strings "Compact" "Standard" "Full size" "SUV" and "Other" should NOT be translated

English

"message.M001":"Invalid car type selected. Enter {0}, {1}, {2}, {3} or {4}."

French

"message.M001":"Type de voiture sélectionné non valide. Entrez {0}, {1}, {2}, {3} ou {4}."

MessageIDParameter - 2nd parameter type is one of {"job", "task", "shortcut", "field", "workflow", "appname", "pagetype", "doctype", "text", "variable"}.

If this item is translated, the client will substitute the translated value when displaying the message.

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Review questions



- True or False: Application developers can configure their own application globalization that is driven by the system locale setting.
- True or False: All Datacap client interfaces respond to the locale settings.
- 3. What are valid locations for application globalization locale translation file?
 - A. C:\Program File\Datacap\local\.
 - B. C:\Datacap\dco_<app>.
 - C. C:\Datacap\dco__<app>\locale.
 - D. C:\Datacap\clients\locale.
- 4. True or False: All application globalization even for warning or error messages is configured by only creating a custom local/language Resource.json file?

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Figure 1-74. Review questions

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Review answers



- 1. <u>True</u> or False: Application developers can configure their own application globalization that is driven by the system locale setting. The Answer is True.
- 2. True or <u>False</u>: All Datacap client interfaces respond to the locale settings. The Answer is False
- 3. What are valid locations for application globalization locale translation file?
 - A. C:\Program File\Datacap\local\.
 - B. C:\Datacap\dco <app>.
 - C. C:\Datacap\dco <app>\locale.
 - D. C:\Datacap\clients\locale.

The answer is B and C.

4. True or <u>False</u>: All application globalization even for warning or error messages is configured by only creating a custom local/language Resource.json file? <u>The Answer is False</u>.

(Messages also require action edits in the ruleset)

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Figure 1-75. Review answers

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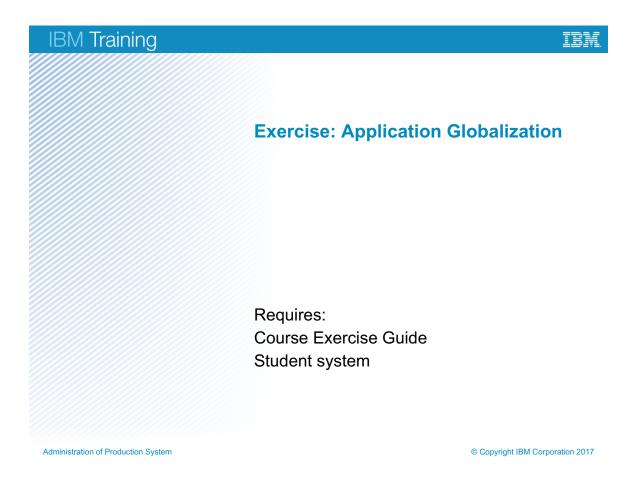


Figure 1-76. Exercise: Application Globalization

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Exercise objectives

Configure Globalization



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Figure 1-77. Exercise objectives

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Unit summary

- Understand Virtual Stations and Queuing of Tasks
- Add Shortcuts to Web Client
- Plan for Disaster Recovery
- Convert and Migrate Datacap Databases.
- Configure Globalization

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Figure 1-78. Unit summary

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Unit 2. Maintenance

What this unit is about

This units shows the maintenance aspects of the system. You learn the difference between Routine, Preventive, and Corrective Maintenance. You also learn about performing maintenance tasks automatically with NENU and you learn about all the available logging capabilities.

What you should be able to do

- Perform Routine, Preventive, and Corrective Maintenance
- · Configure NENU to periodically do batch cleanup
- Locate Event Logs

How you will check your progress

• Successfully complete the activities in the Student Workbook.

References

- Knowledge Center
 - http://www.ibm.com/support/knowledgecenter/SSZRWV_9.0.1/com.ibm.dc.install.doc/dcpov007.htm
- Redbooks: Implementing Document Imaging and Capture Solutions with IBM Datacap

http://www.redbooks.ibm.com/abstracts/sg247969.html?Open

Unit Objectives

- Perform Routine, Preventive, and Corrective Maintenance
- Configure NENU to periodically do batch cleanup
- Locate Event Logs

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Figure 2-1. Unit Objectives

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Lesson 2.1. System Maintenance

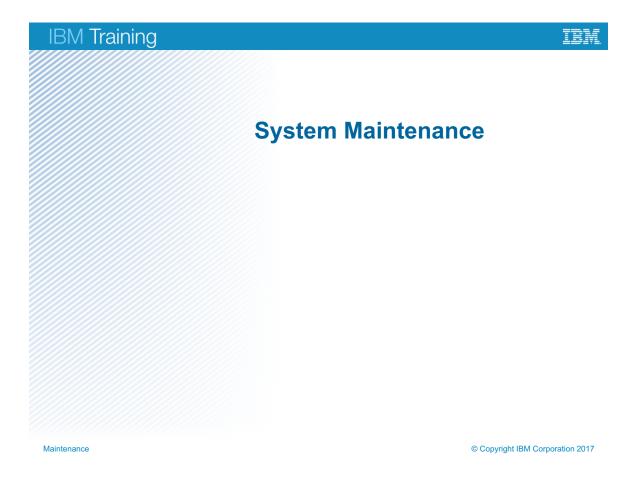


Figure 2-2. System Maintenance

F2581.0

Topics

- System Maintenance
 - Maintenance Manager
 - Event Logs

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Figure 2-3. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You must be able to implement Routine maintenance procedures to ensure smooth operation of the data capture system.

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Figure 2-4. Why is this lesson important to you?

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Routine Maintenance

- Monitor system performance to ensure consistent throughput.
- Monitor component throughput.
- Check load-sharing across duplicate resources to maximize throughput.
- Check logs to make sure that no errors occur.
- Make sure that Service Level Agreements (SLAs) that stipulate throughput expectations are met.
- Producing periodic reports, daily, weekly, monthly, year end.
- Use Report Viewer to produce reports.

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Figure 2-5. Routine Maintenance

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Notes:

Routine maintenance is any task that is done on some time schedule. It might be daily, weekly, monthly, or some other period. Practically, higher frequency tasks like daily tasks are more often referred to as routine tasks.

Preventive Maintenance

- Release resources.
- Delete processed batches to ensure that the disk resources are recycled.
- Flush event logs to make sure that they do not grow too large.
- Schedule service to mechanical devices like, scanners, printers, filters fans, air conditioners.

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Figure 2-6. Preventive Maintenance

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Notes:

Preventive maintenance is done less frequently than routine maintenance and is done to prevent performance degradation or catastrophic failure.

Corrective Maintenance

- Analyze errors that system operators reported and take corrective action.
- Analyze errors that are detected in error logs and take corrective action.
- Reassign scanners when mechanical failures occur.
- Configure Maintenance Manager to detect and handle exceptions.

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Figure 2-7. Corrective Maintenance

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Notes:

Corrective maintenance might result from routine and preventive maintenance to correct specific failures that occur.

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Each topic that is listed fall into one of three Maintenance categories. Select the Maintenance category that describes the topic best.

Options are:

- Routine Maintenance
- Preventive Maintenance
- Corrective Maintenance.

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Figure 2-8. Review introduction

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Review questions

1. Is release resources Routine, Preventive, or Corrective



- 2. Is monitor system performance to ensure consistent throughput, Routine, Preventive, or Corrective?
- 3. Is monitor component throughput, Routine, Preventive, or Corrective?
- 4. Analyze errors that are reported by System Operators and take corrective action. Is this action Routine, Preventive, or Corrective?
- 5. Is deleting processed batches to ensure that the disk resources are recycled, Routine, Preventive, or Corrective?

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Figure 2-9. Review questions

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Review answers





- 2. Is monitor system performance to ensure consistent throughput, Routine, Preventive, or Corrective?

 The answer is **Routine**
- 3. Is monitor component throughput, Routine, Preventive, or Corrective?

The answer is **Routine**

- 4. Analyze errors that are reported by System Operators and take corrective action. Is this action Routine, Preventive, or Corrective? The answer is Corrective
- Is deleting processed batches to ensure that the disk resources are recycled, Routine, Preventive, or Corrective? The answer is Preventative

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Figure 2-10. Review answers

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Review questions



- 6. Is checking load-sharing across duplicate resources to maximize throughput, Routine, Preventive, or Corrective?
- 7. Is flushing event logs to make sure that they do not grow too large, Routine, Preventive, or Corrective?
- 8. Is check logs to make sure that errors are not occurring, Routine, Preventive, or Corrective?
- 9. Is analyze errors that are detected in error logs and taking corrective action, Routine, Preventive, or Corrective?
- 10. Is making sure that Service Level Agreements (SLAs) that stipulate throughput expectations are met, Routine, Preventive, or Corrective?

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Figure 2-11. Review questions

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Review answers



- Is checking load-sharing across duplicate resources to maximize throughput, Routine, Preventive, or Corrective? The answer is Routine
- Is flushing event logs to make sure that they do not grow too large, Routine, Preventive, or Corrective?
 The answer is Preventative
- 8. Is check logs to make sure that errors are not occurring, Routine, Preventive, or Corrective? The answer is Routine
- Is analyze errors that are detected in error logs and taking corrective action, Routine, Preventive, or Corrective? The answer is Corrective
- 10. Is making sure that Service Level Agreements (SLAs) that stipulate throughput expectations are met, Routine, Preventive, or Corrective?

The answer is **Routine**

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Figure 2-12. Review answers

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Review questions



- 11. Is Producing periodic reports, daily, weekly, monthly, year end, Routine, Preventive, or Corrective?
- 12. Is Configuring Maintenance Manager to detect and handle exceptions, Routine, Preventive, or Corrective?
- 13. Is using Report Viewer to produce reports, Routine, Preventive, or Corrective?
- 14. Is Scheduling service to mechanical devices like, scanners, printers, filters fans, or air conditioners, and releasing resources; Routine, Preventive, or Corrective?
- 15. Is reassigning scanners when mechanical failures occur, Routine, Preventive, or Corrective?

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Figure 2-13. Review questions

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Review answers



11. Is Producing periodic reports, daily, weekly, monthly, year end, Routine, Preventive, or Corrective?

The answer is Routine

12. Is Configuring Maintenance Manager to detect and handle exceptions, Routine, Preventive, or Corrective? The answer is Corrective

13. Is using Report Viewer to produce reports, Routine, Preventive, or Corrective?

The answer is **Routine**

14. Is Scheduling service to mechanical devices like, scanners, printers, filters fans, or air conditioners, and releasing resources; Routine, Preventive, or Corrective?
The answer is Preventative

15. Is reassigning scanners when mechanical failures occur, Routine, Preventive, or Corrective? The Answer is Corrective

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Figure 2-14. Review answers

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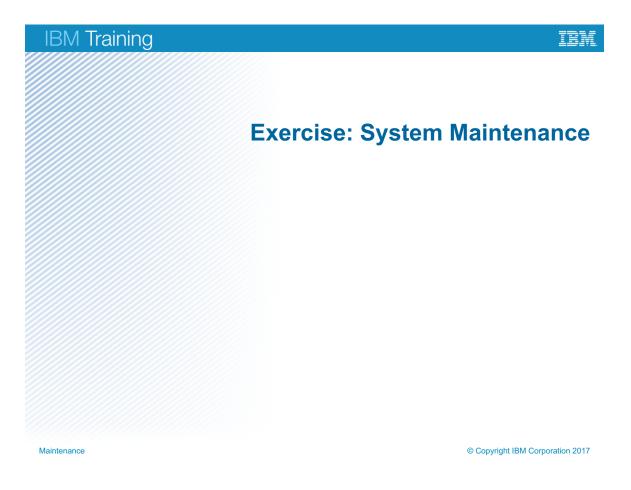


Figure 2-15. Exercise: System Maintenance

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Exercise introduction

Synchronize Job Monitor and Batch Folders



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Figure 2-16. Exercise introduction

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Lesson 2.2. Maintenance Manager

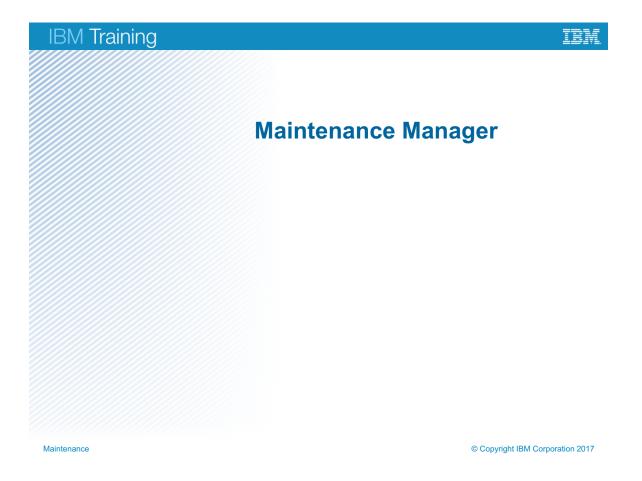


Figure 2-17. Maintenance Manager

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Topics

- System Maintenance
- Maintenance Manager
 - Event Logs

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Figure 2-18. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You must be able Configure and Maintenance Manager monitor the status of batches and do the appropriate cleanup activities to automate maintenance procedures.

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Figure 2-19. Why is this lesson important to you?

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What can Maintenance Manager do?

- The Maintenance Manager component automates recurring, system health, and house cleaning tasks:
 - Batch monitoring.
 - Status notification.
 - Automatic deletion of completed batches.
- Maintenance Manager is a versatile tool.
- Tasks are scheduled with the Microsoft Windows Scheduler.
- Maintenance Manager can execute any Datacap Studio created ruleset.
 - Maintenance Manager rulesets can be part of any application.
 - Maintenance Manager rulesets can be defined in a custom Maintenance Manager application.

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Figure 2-20. What can Maintenance Manager do?

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Maintenance Manager Uses

- Use it to do selections in the application Engine database and run actions on the selected batches:
 - Monitor batches, notify statuses, and automatically delete completed batches.
 - Identify batches that meet certain criteria (batches that abort, for example).
 - Change the status of batches and their order in the queue.
 - Delete batches or move them to another location for archive.
 - Capture data snapshots to a database that are reported with Report Viewer.
 - Send email notifications (of error conditions or a batch abort conditions, for example).
 - Populate an external database with data gleaned from batches, such as details of what field data was modified in verification.

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Figure 2-21. Maintenance Manager Uses

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Maintenance Manager Run Methods

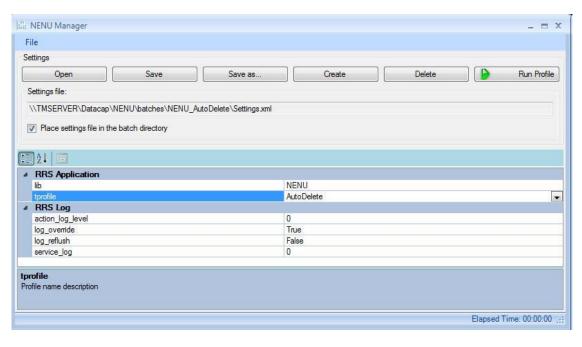
- 1. Manually using the Maintenance Manager.
- 2. Automatically using the Windows Task Scheduler, either at scheduled times or when triggered by a system event.
- 3. Automatically as a task of an application workflow.

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Figure 2-22. Maintenance Manager Run Methods

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Maintenance Manager UI



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Figure 2-23. Maintenance Manager UI

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Notes:

Maintenance Manager Interface

Settings

Actions

- Open: Open a Settings file
- Save: Save Settings back to an already defined Settings file.
- Save as ...: Save a copy of the Settings file to another location.
- Create: Create a Settings file.
- Delete: Delete the currently selected Settings file.
- Run Profile: Run the Ruleset that the RRS Applications options define.

Settings file:

- The Settings file, by default is named Settings.xml and can be places anywhere in the file system.

- Place settings file in the batch directory: If you select this check box, then the Settings file is placed in the batches folder of the application that the lib parameter selects.

Example \\TMSERVER\Datacap\<Application>\batches\<Application><Profile>\Settings.xml

RRS Application

- lib: The Application that you select from the selection list of all Applications that are defined in the datacap.xml file.
- tprofile: The Task Profile that you select from the list of all Profiles that are defined in the Application that you selected.

RRS Log

- action_log_level: Select the logging level for action messages; 0 provides maximum information: 2 provides minimum information.
- log_override: Select True to create a log file; False to append to the existing log file.
- log_reflush: Select False to ensure that all messages are written to the log even in the case of an exception; runs slower but easier to debug.
- service_log: Select the logging level for service messages; 0 provides minimum information; 5 provides maximum information.

{Important} Selecting False for the log_reflush option seems counter-intuitive to force messages to be continually flushed to the log file. In the Datacap 9.0 release, this phenomenon is because of a code error. The correct selection should be True to flush the buffer to the log file.

Procedure for Creating a Maintenance Manager App

- 1. Start the Datacap server.
- Start Datacap Studio.
- 3. Start application wizard and create an application that is named Maintenance Manager.
- 4. Log in to the Maintenance Manager application.
- 5. Delete all Rulesets in the ruleset tab
- 6. Create a Maintenance Manager ruleset.
- 7. Create a Maintenance Manager profile.
- Add the Maintenance Manager ruleset to the Maintenance Manager profile.
- 9. Add actions to the rule/function for the Maintenance Manager ruleset.
- 10. Add the Maintenance Manager rule to the DCO.

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Figure 2-24. Procedure for Creating a Maintenance Manager App

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Notes:

Create a Maintenance Manager application that is a repository for Maintenance Manager rulesets that can be run either manually or automatically.

Maintenance Manager Action Categories

- Application Setup
 - Gets connections to the Administration and Engine databases for the specified IBM Datacap Capture Application.
- Query Setup
 - Builds the query string that is run against the application databases that you connected to in application setup.
- Batch processing
 - Runs the SQL query and does actions on the selected database records and optionally, the corresponding batches.
- Logging
 - Writes information to the Maintenance Manager and Windows log files and sends emails that contain the internal log file.
- Reporting
 - Writes information to the report tables in the Engine database for use by Datacap Report Viewer.

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Figure 2-25. Maintenance Manager Action Categories

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Notes:

Application setup

There are special considerations about the available Authentication Systems.

The SetupOpenApplication Action requires that user credentials are defined before the SetupOpenApplication Action is processed. The credentials that are required are:

- SetUser: The User ID sets this Action.
- SetPassword: The password for the specified user.

It is best not to store User or Password values in the application without encryption. You should use Smart parameters, which are encrypted.

Example: SetPassword("@APPVAR(values/adv/mypassword)")

- SetStation: The Station ID to authenticate with.
 - The Station ID defaults to the computer name of the system that processes the Ruleset, if the Station ID is not set with the SetStation Action. The Station ID can be overwritten to use any defined Station ID that has the correct privileges set.

• Add a Datacap station to your Application for Maintenance Manager that has the same name as the machine name and assign appropriate permissions.

TMA Authentication for Maintenance Manager

In the Maintenance Manager application, set the authentication parameters:

- For Authentication Maintenance Manager uses the Datacap User ID that the application set with the SetUser Action.
 - SetUser as user name (This user must be defined in the Application Admin database).
- The password is set with the SetPassword Action. Use the Smart parameters to encrypt the password.
- Allow the Station ID to default to the computer name or override it with the SetStation Action.

ADSI or LDAP Authentication for Maintenance Manager

In the Maintenance Manager application, set the authentication parameters:

- For Authentication Maintenance Manager uses the Windows User ID that the application set with the SetUser Action and defaults to the computer name for the Station ID.
 - SetUser: Set as domain\username.
- The password must not be defined with the SetPassword Action. Also, DO NOT user SetPassword with a blank password value.
- When you use the Windows Scheduler, set the account in Security Options to the Windows account used by Maintenance Manager to run with highest privileges.

Procedure to AutoDelete Batches

- Locate batches:
 - Based on time criteria.
 For example, more than five days ago.
 - Based on process status
 For example, completed successfully or aborted.
- Possible actions:
 - Delete batches from the batches folder of the application.
 - Delete the records that are related to the deleted batches from the Engine database of the application.

Or

- Move them to an archive folder.
- Move related records to a separate archive database.
- Report actions:
 - Generate a log file that documents the results of the process.
 - Optionally, send an email to document the action that is taken.

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Figure 2-26. Procedure to AutoDelete Batches

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Demonstrations

- Configure the AutoDelete ruleset
- Run Rulesets with Maintenance Manger
- Configure an Autostart Schedule



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Figure 2-27. Demonstrations

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Notes:

If you are taking this course as a self-paced virtual course, return to the main course menu to play the pre-recorded demonstrations.

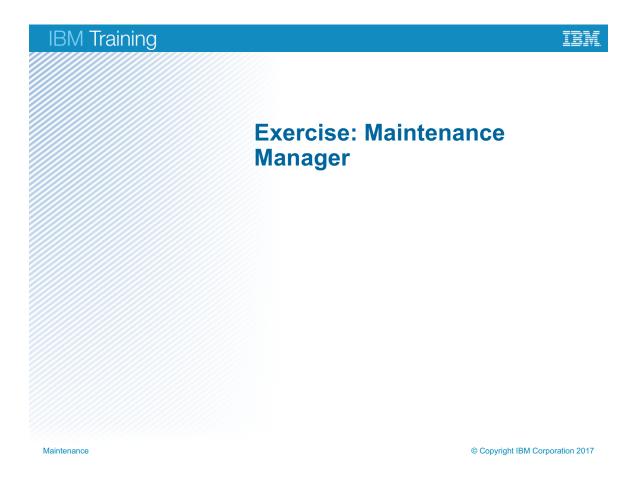


Figure 2-28. Exercise: Maintenance Manager

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Exercise introduction

- Create a NENU Manager Application
- Configure an Auto Start Schedule



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Figure 2-29. Exercise introduction

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Lesson 2.3. Event Logs

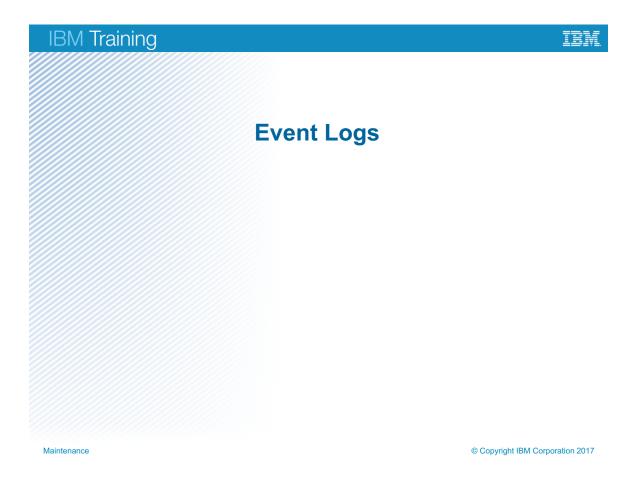


Figure 2-30. Event Logs F2581.0

Topics

- System Maintenance
- Maintenance Manager
- Event Logs

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Figure 2-31. Topics F2581.0

Why is this lesson important to you?

- As an administrator of an IBM Datacap capture system, you must be familiar with all configuration tasks for a functional IBM Datacap 9.0 system.
- You must be able configure event logs. You must know where to locate them and how to interpret them for system performance and maintenance purposes.

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Figure 2-32. Why is this lesson important to you?

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Introduction to Logging

- Datacap has an abundance of logging capability.
- All log content is controllable.
- Verbose log content can be helpful when testing a new installation or application.
- Excessive log content can be confusing and overwhelming. Maximum settings are not always best.
- Excessive log content uses system resources and degrades performance.
- Know where to locate log files.
- Know what each file is used for.
- Know where to control the log file content.
- When testing is over, set log content to minimum settings.

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Figure 2-33. Introduction to Logging

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Identify Logs

- Datacap Server Manager log file. (tms.log.0.log)
- Rulerunner Manager log files
 - Rulerunner ATM log. (rulerunner thread x atm.n.log)
 - Rulerunner thread log file. (rulerunner0.log)
 - Task level RRS log files. <task> rrs.log
 - wrrs-<logid>.log
- Application Wizard log file (apwiz_new.log or apwiz_copy.log)
- Fingerprint Maintenance Tool (FMT.log)
- Maintenance Manager (nenu rrs.log)

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Figure 2-34. Identify Logs

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Notes:

Log file Locations

Datacap Manager Service log file

This log records the actions that the Datacap Server Manager performs. This log is the most likely place to find messages about authentication progress or errors.

- C:\Datacap\tms.log.0.log

Rulerunner Manager log files

- C:\Datacap\rulerunner0.log
- C:\Datacap\rulerunner_thread_x_atm.n.log
- C:\Datacap\<appname>\batches\<batch>\<task>_rrs.log C:\Datacap\DStudio\dstudio.log
- C:\Datacap\RRS\Logs\wrrs-xxxxxx.log

Application Wizard log file

These two logs record the selections that are made when a new application is created or an application is copied with the Application Wizard.

- C:\Datacap\<appname>\apwiz_new.log or apwiz_copy.log

Fingerprint Maintenance Tool

This log contains processing details that identify the Fingerprint Maintenance Tool changes.

- C:\Datacap\<appname>\dco_<appname>\FMT.log

Maintenance Manager (nenu_rrs.log)

This log contains processing details from Maintenance Manager either from Maintenance Manager or as a process scheduled by the Windows Scheduler.

- C:\Datacap\NENU\batches\NENU_NENU\nenu_rrs.log

C:\Datacap\Flex\dco_Flex\FlexManager.log

Control Log Content - Datacap Server Manager

- Start Datacap Server Manager.
 - Start > All Programs > IBM Datacap Services > Datacap Server Manager

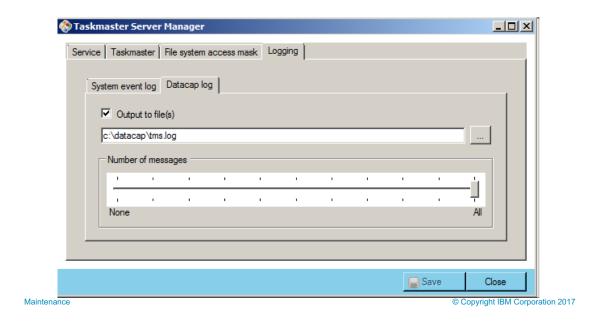


Figure 2-35. Control Log Content - Datacap Server Manager

F2581.0

Notes:

Datacap Server Manager log

System Event Log

- Controls the level of messages that are written to the Windows System Event log and are viewed with the Windows Event viewer in the System log.
- · Message level settings are
 - Critical only.
 - Serious and critical.
 - Info, critical, and serious.

Datacap Log

- Control whether any logging is required with the Output to file check box.
- Define the location and name of the tms.log file. The system appends a 0.log to the file name defined here.
- Define the logging that is recorded with the Number of messages slider.

- View the tms.log events with notepad.
- To clear the log, you must stop the server on the Service tab and then delete the file. When the service is restarted, a new log file is created.

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Control Log Content - Rulerunner Manager Quick Log

- Start Rulerunner Manager.
 - Start > All Programs > IBM Datacap Services > Datacap Rulerunner Manager
- Wih Quick Log you can adjust all RRS logs simultaneously.
 - ATM Log
 - Rulerunner Log
 - RRS Log
- Individual logs also adjustable independently.

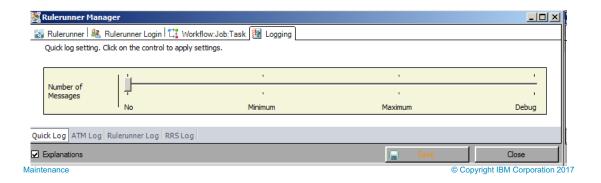


Figure 2-36. Control Log Content - Rulerunner Manager Quick Log

F2581.0

Notes:

Number of Messages (slider)

Controls the level of detail that is written to each of the logs.

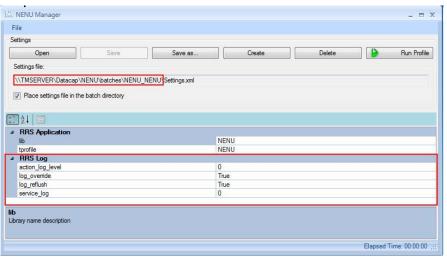
- No Only serious errors are written to the Windows Application Event Log.
- Minimum Writes warnings and errors in log files.
- Maximum All logs contain almost all of the available information, including information messages, warnings, and errors.
- Debug Full logging is enabled, including the reflush buffer.

Control individual logs independently from:

- ATM log tab
- Rulerunner log tab
- RRS log tab

Control Log Contents - Maintenance Manager Log

- Start Maintenance Manager
 - Start > All Programs > IBM Datacap Services> Maintenance Manager
- Maintenance Manager RRS Log settings.



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Figure 2-37. Control Log Contents - Maintenance Manager Log

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Notes:

RRS Application Settings for Maintenance Manager

- lib: Select the application that contains the Maintenance Manager task profile.
- tprofile: Select the name of the Maintenance Manager task profile.

RRS Log Settings for Maintenance Manager

- action_log_level: Select the logging level for action messages; 0 provides maximum information: 2 provides minimum information.
- log_override: Select True to create a log file; False to append to the existing log file.
- log_reflush: Select False to ensure that all messages are written to the log even in the case of an exception; runs slower but easier to debug.
- service_log: Select the logging level for service messages; 0 provides minimum information; 5 provides maximum information.

{Important} Selecting False for the log_reflush option seems counter-intuitive to force messages to be continually flushed to the log file. In the Datacap 9.0 release, this phenomenon is because of a code error. The correct selection should be True to flush the buffer to the log file.

Log file location

The log file is in the same folder as the settings file but saved with a file name of nenu_rrs.log Example: \\TMSERVER\Datacap\NENU\batches\NENU_<*tprofile*>\nenu_rrs.log

Maintenance Manager Actions for Logging

- During rule execution, Maintenance Manager actions write status messages to:
 - An internal log file that the SendEmail action uses.
 - The Rulerunner log file, which is stored in the application_name > batches > NENU folder.
- Use these actions to write information to:
 - The Maintenance Manager
 - Windows log files.
 - Send emails that contain the internal log file.
- Maintenance Manager Actions
 - LogClear
 - LogConfigure
 - LogSendEmail
 - LogWriteEventLog
 - LogWriteRecordSet
 - LogWriteSQLQuery

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Figure 2-38. Maintenance Manager Actions for Logging

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Notes:

Logging

Use these actions to write information to the Maintenance Manager and Windows log files and to send emails that contain the internal log file. During rule execution, Maintenance Manager writes status messages to an internal log file and to the Rulerunner log file:

- The internal log file is maintained in memory for the SendEmail action.
- The Rulerunner log file is stored in the application name > batches > NENU folder.

Action

- LogClear: Clears the internal log file, but does not affect the Rulerunner log file.
- LogConfigure: Sets the severity level at which to activate logging and enables the logging features.
- LogSendEmail: Sends an email with the internal log file to one or more email recipients.
- LogWriteEventLog: Writes an information, warning, or error message to the Datacap section of the Windows Event log file.

- LogWriteRecordSet: Writes the returned recordset to the Maintenance Manager log file.
- LogWriteSQLQuery: Writes the result of previous calls to the Query Set actions to the Maintenance Manager log file.

Maintain Event Logs

- Increase logging volume while debugging.
- Reduce volume for normal operational conditions.
- Periodically flush logs to free space.

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Figure 2-39. Maintain Event Logs

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Datacap Logs

- There are two kinds Datacap log files.
 - Rulerunner Service RRS log files
 - The RRS log provides detailed information about actions as they run.
 - There is a separate log file for each task in the batches folder.
 (<application>/batches/<date>.<number>/<task>_rrs.log).
 - Task log files

The task log documents internal calls and is mostly useful to the Datacap support team.

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Figure 2-40. Datacap Logs

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View Event Logs

- Datacap Studio Output Pane.
 - In Datacap Studio Debug mode, the task log files are also written to the Output pane.
 - C:\Datacap\<appname>\batches\<batch>\<task>_rrs.log
- Examining the Rulerunner log.
 - C:\Datacaprulerunner0.log
- View Rulerunner Processing logs.
 - C:\Datacap\Application\Batches\<task> rrs.log
- Connector Action log files (for Export task).
 - C:\Datacap\Application\batches\export_rrs.log
- Microsoft Application Event.
 - Microsoft Event Viewer

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Figure 2-41. View Event Logs

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Log File Locations

- C:\Datacap\tms.log.0.log
- C:\Datacap\rulerunner0.log
- C:\Datacap\rulerunner_thread_x_atm.n.log
- C:\Datacap\RRS\Logs\wrrs-xxxxxx.log
- C:\Datacap\<appname>\batches\<batch>\<task> rrs.log
- C:\Datacap\<appname>\apwiz new.log
- C:\Datacap\<appname>\fingerprint\ rrs.log
- C:\Datacap\<appname>\dco_<appname>\FMT.log
- C:\Datacap\NENU\batches\NENU_<taskProfile>\nenu_rrs.log

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Figure 2-42. Log File Locations

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Figure 2-43. Exercise: Event Logs F2581.0

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Exercise introduction



- Configure Rulerunner for ExpenseDemo
- Use Quick Log Settings to Analyze Event Log Content

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Figure 2-44. Exercise introduction

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Unit summary

- Perform Routine, Preventive, and Corrective Maintenance
- Configure NENU to periodically do batch cleanup
- Locate Event Logs

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Figure 2-45. Unit summary F2581.0



