

İMPACT

© IBM Corporation 2007. All Rights Reserved.

The workshops, sessions and materials have been prepared by IBM or the session speakers and reflect their own views. They are provided for informational purposes only, and are neither intended to, nor shall have the effect of being, legal or other guidance or advice to any participant. While efforts were made to verify the completeness and accuracy of the information contained in this presentation, it is provided AS IS without

warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, this presentation or any other materials. Nothing contained in this presentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software.

References in this presentation to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in this presentation may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. Nothing contained in these materials is intended to, nor shall have the effect of, stating or implying that any activities undertaken by you will result in any specific sales, revenue growth or other results.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of

multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

The following are trademarks of the International Business Machines Corporation in the United States and/or other countries. For a complete list of IBM trademarks, see www.ibm.com/legal.cop/trade.shimi AX, CICS, CICSPlex, DE2, DB2 Universal Database, iSOS, IBM, the IBM logo, IMS, iSeries, Lotus, OMEGAMON, OS/390, Parallel Sysplex, pureXML, Rational, RCAF, Redbooks, Sametime, System i, System i5, System z , Tivoli, WebSphere, and z/OS.

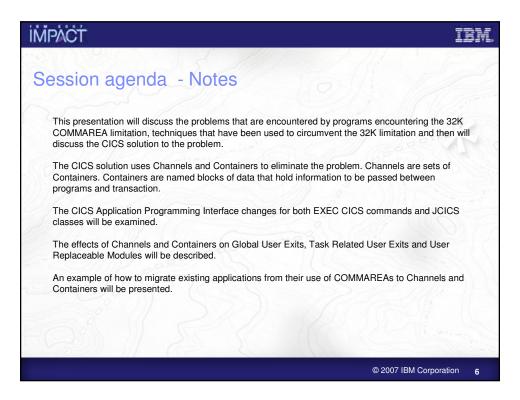
Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both. Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both. Intel and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. UNIX is a registered trademark of The Open Group in the United States and other countries. Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, or service names may be trademarks or service marks of others.

© 2007 IBM Corporation 3

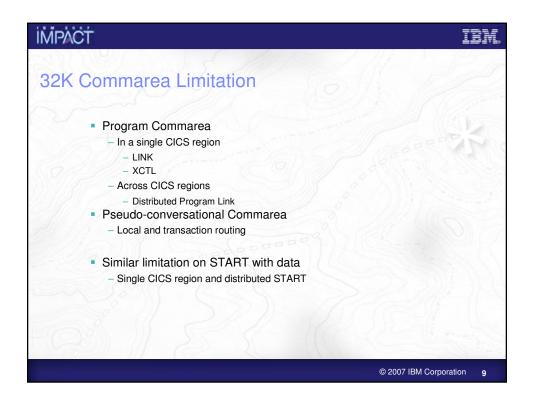


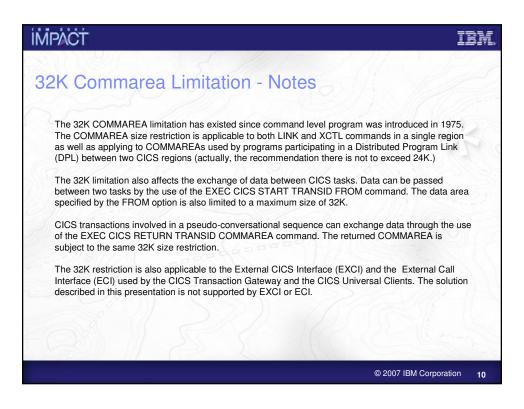


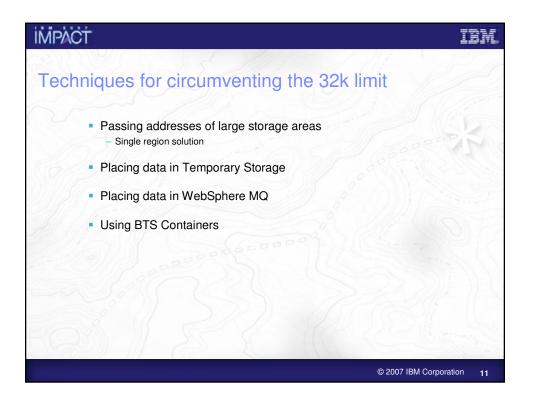


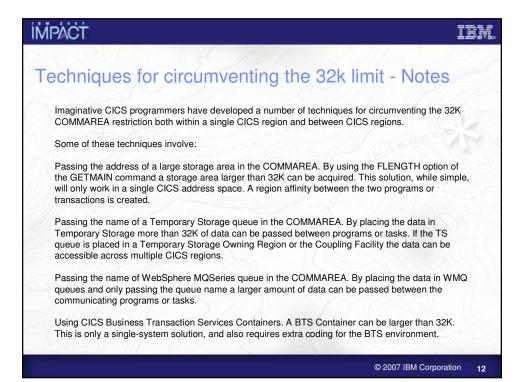






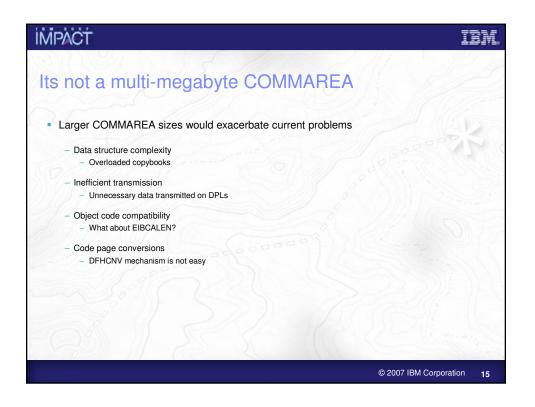


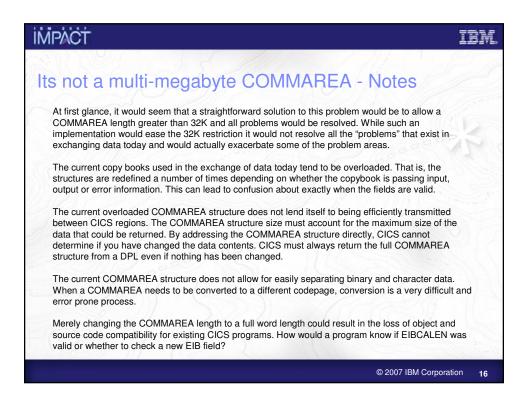


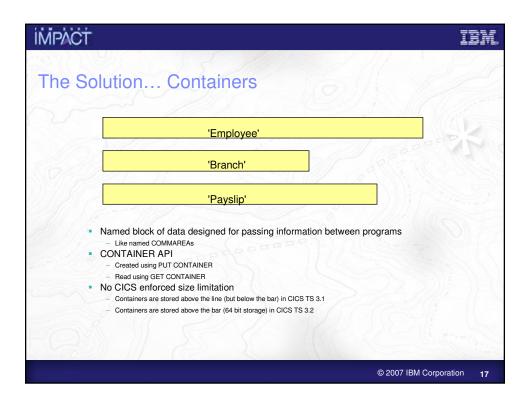


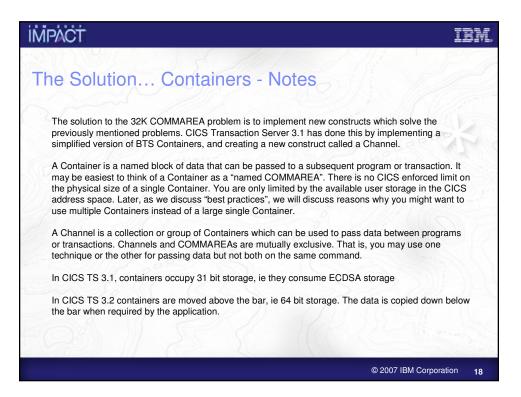


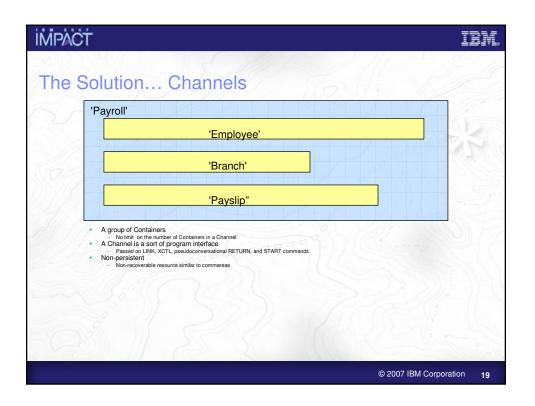


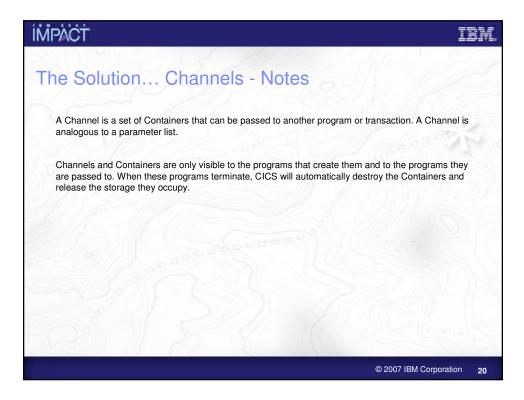


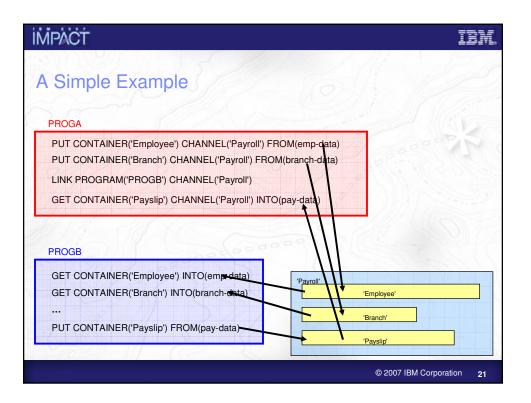


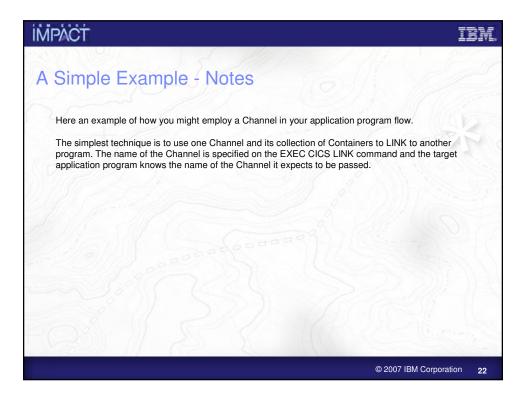






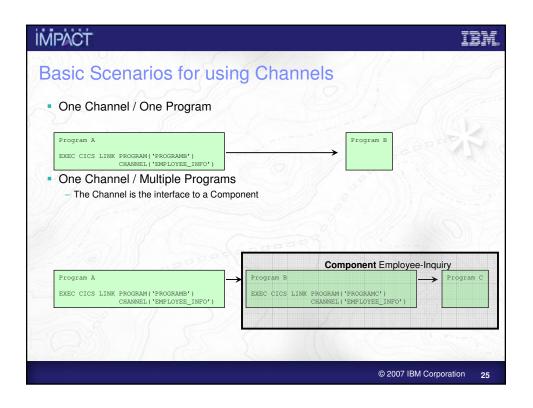


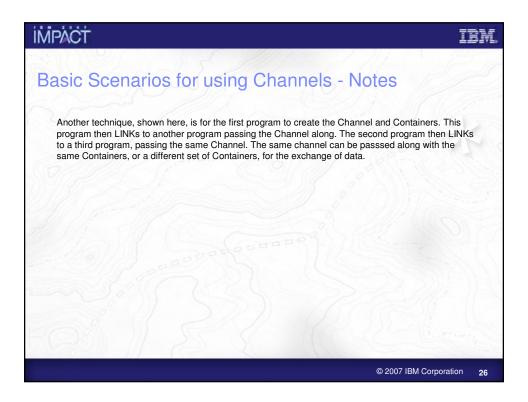


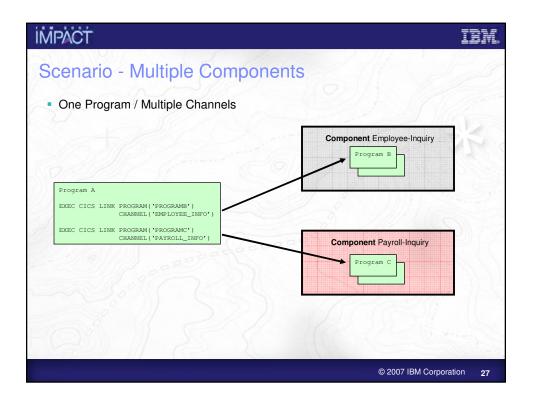


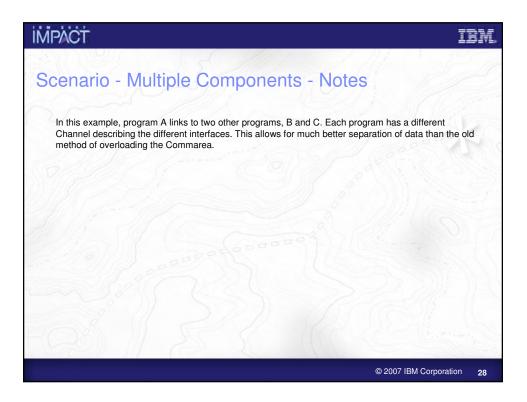


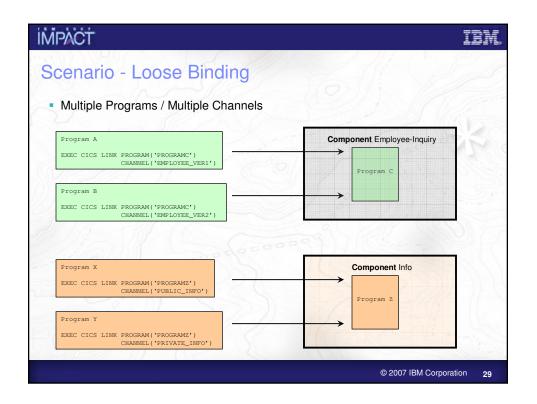


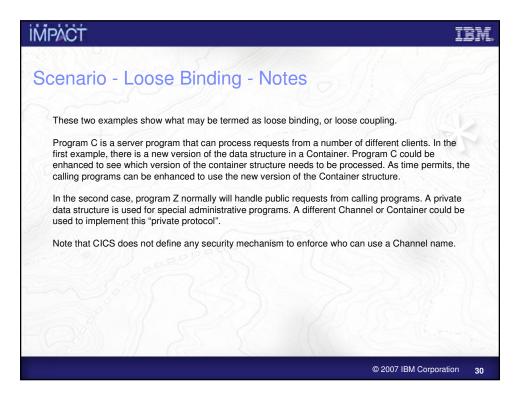


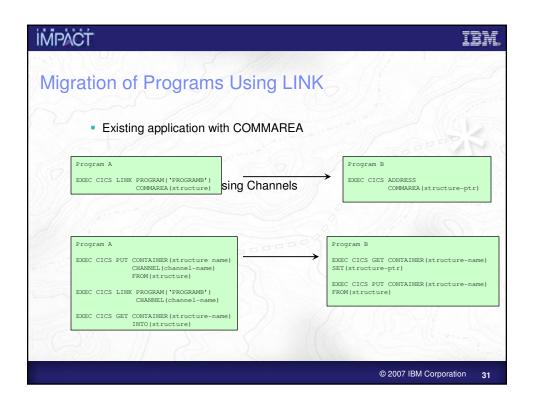


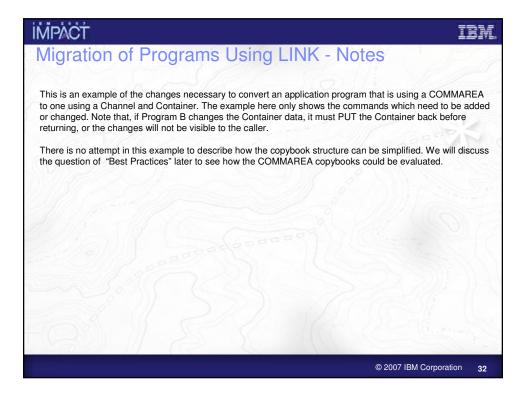


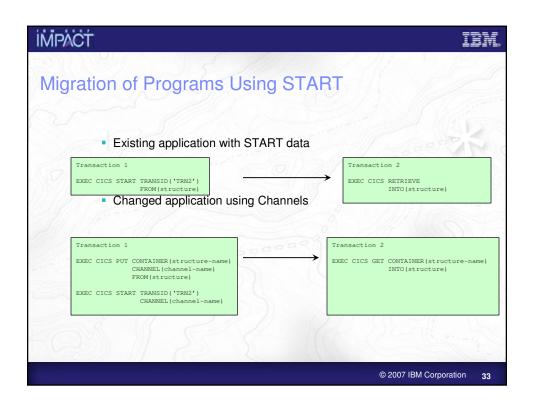


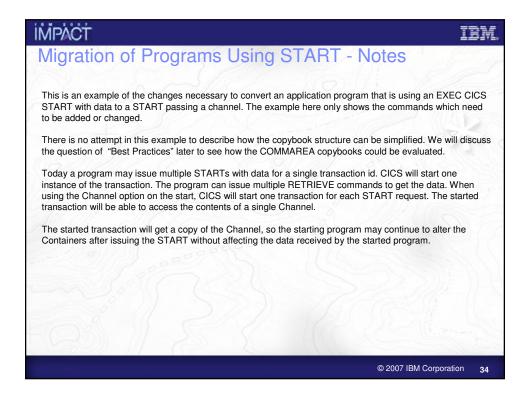


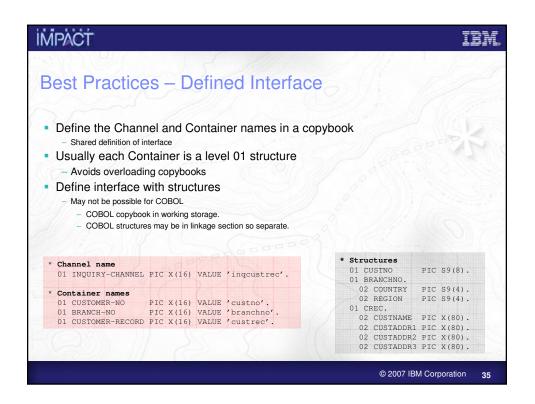




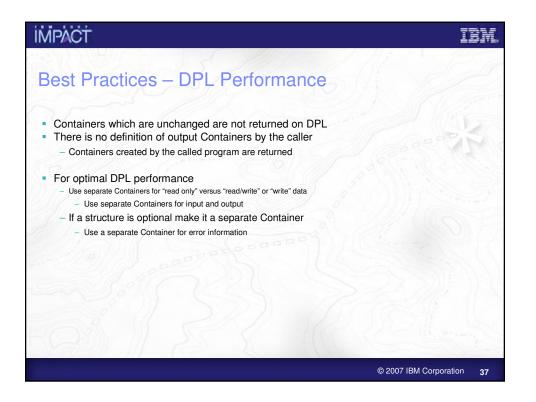




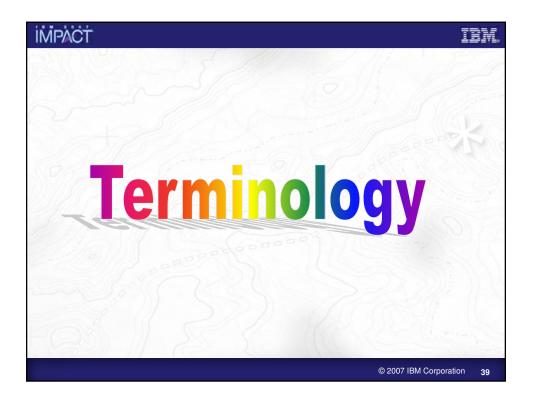




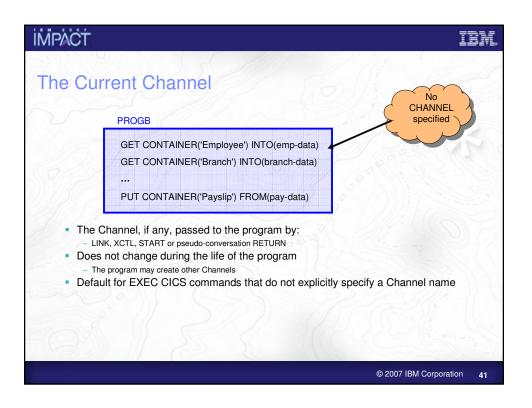


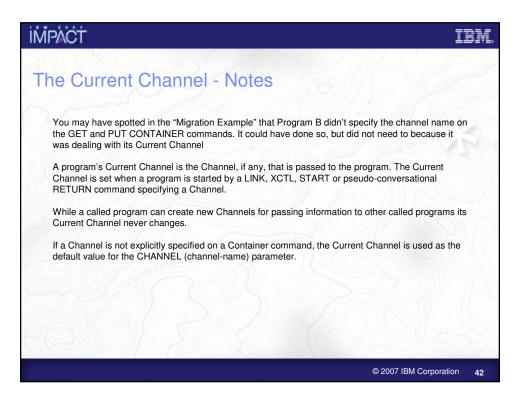


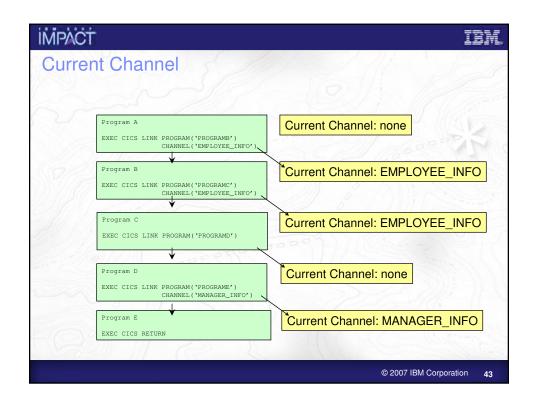
<i>İ</i> PÁĊŤ	IB
Best Practices – DPL Perform	ance - Notes
It is possible to use a Channel with a single Container to While this may seem the simplest way to move from CO not a good practice to do this. If you are taking the time t exploit this new function you should implement the "best	MMAREAs to Channels and Containers it is o change your application programs to
The reason for this is that when using Channels with DP returned to the calling CICS region when a DPL is comp	
Use separate Containers for read-only data versus read- efficiency between CICS regions. A simple example of t output. This will allow you to simplify your copybook stru understand and avoid the problems with REDEFINES ov	his is using different Containers for input and cture and make your programs easier to
Use a separate Container for each structure in the copy understand. In addition in some programs some output s of this is error information. This will lead to clearer docun improved transmission efficiency between CICS regions if present.	tructures would be optional. A particular case nentation of the error information and
When checking for an error, simply issue a GET CONTA CONTAINERERR condition.	INER command and check for a
Use separate containers for different data types, such as improve your ability to easily move between different con	
	© 2007 IBM Corporation 3

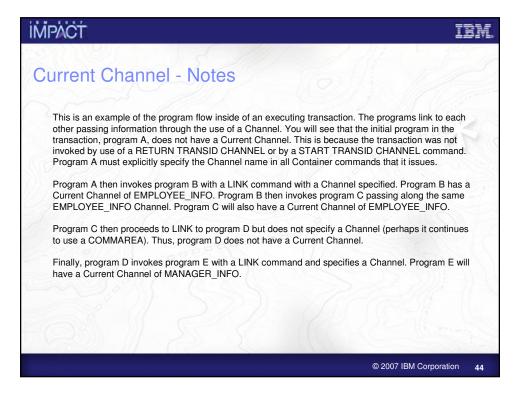


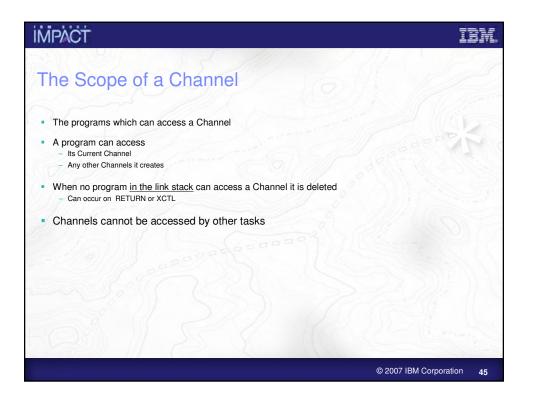


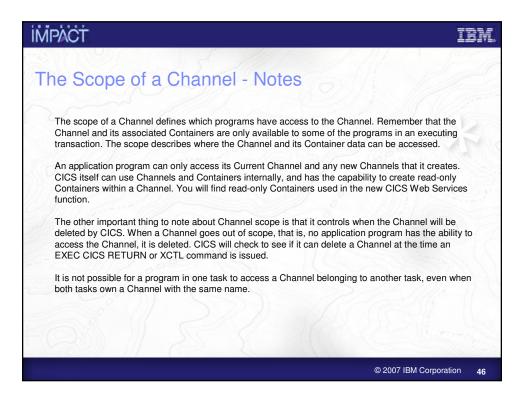


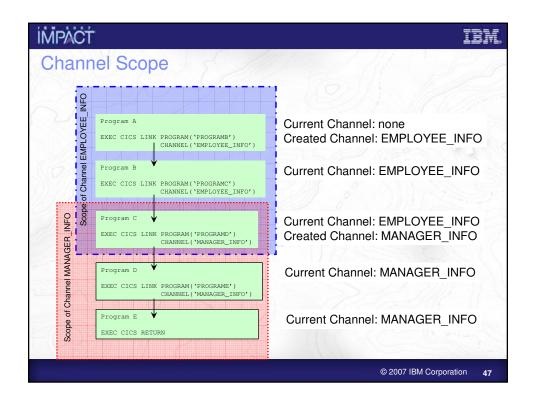


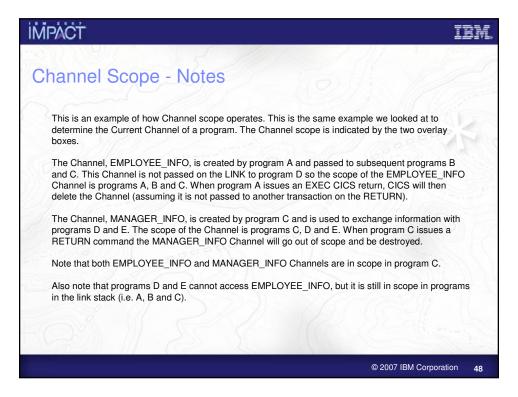


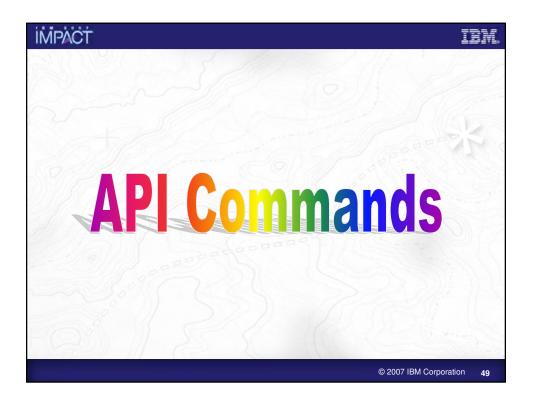








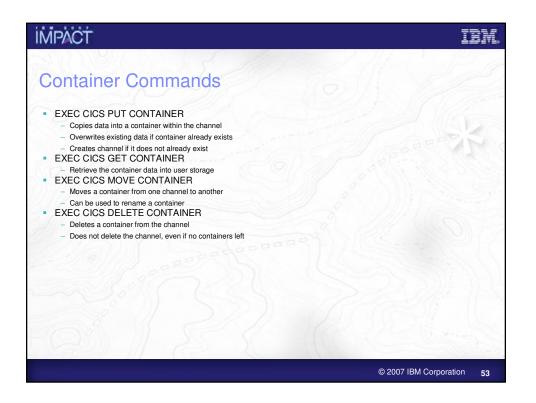


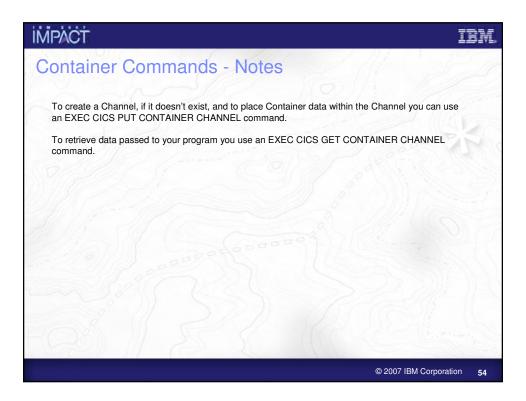


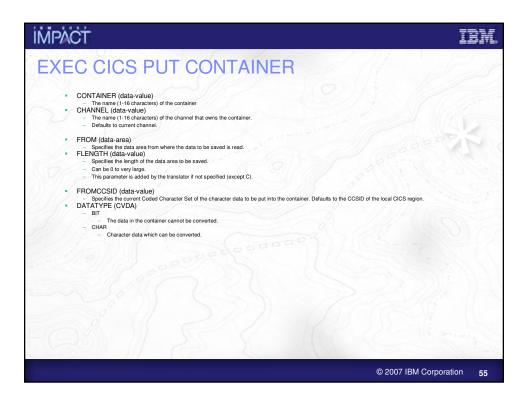


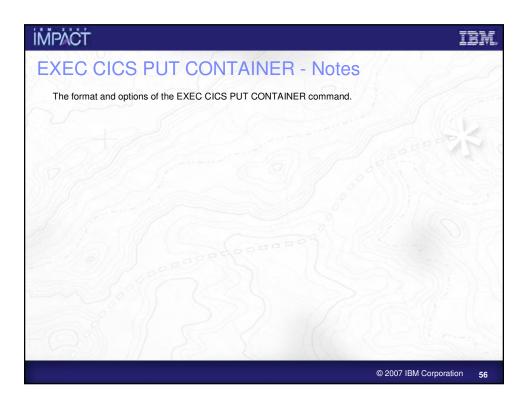


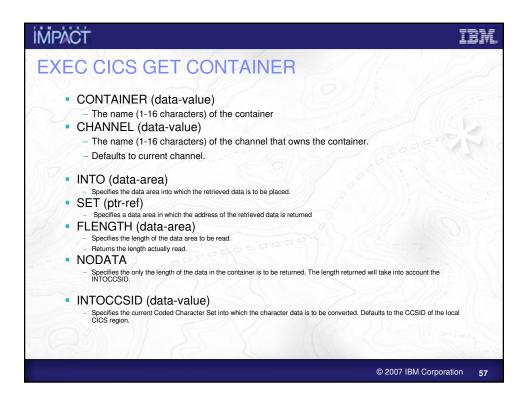


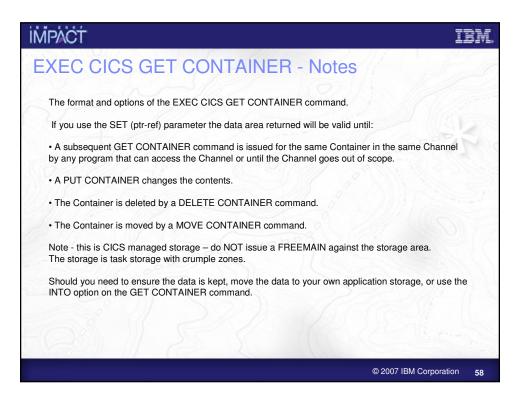


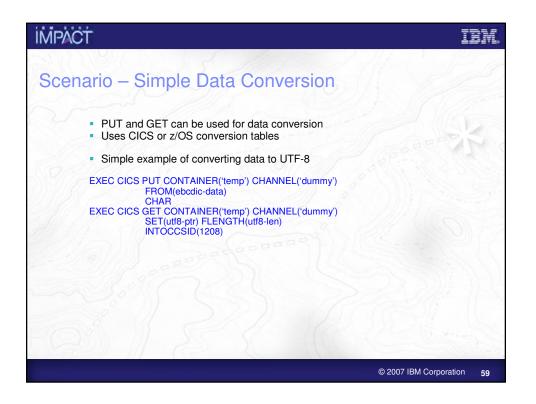


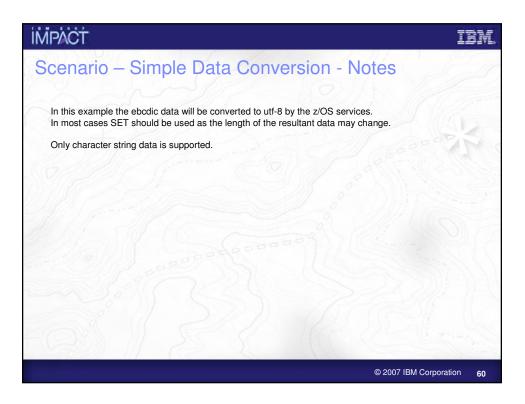


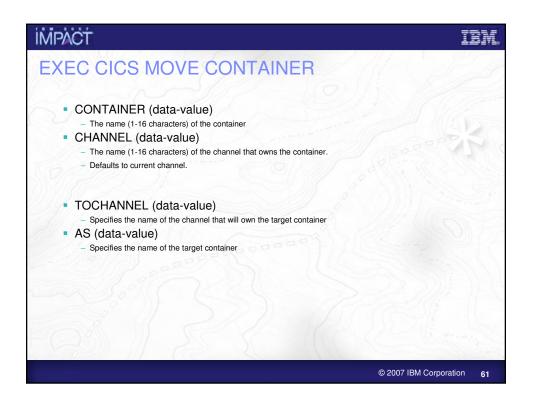


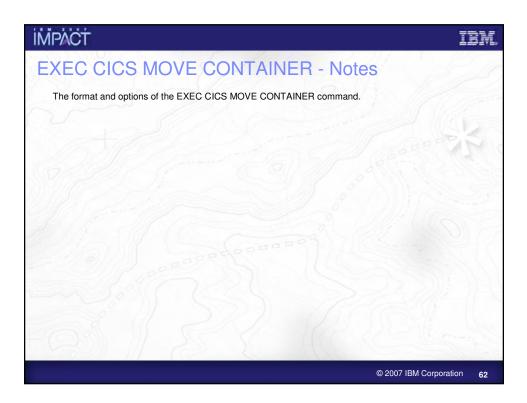


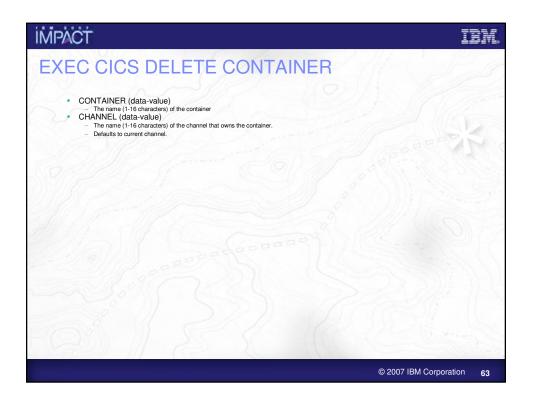




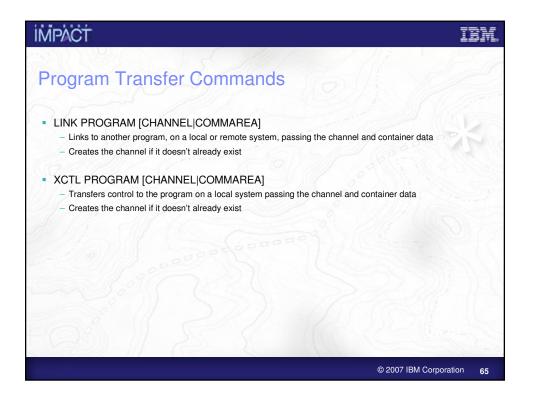


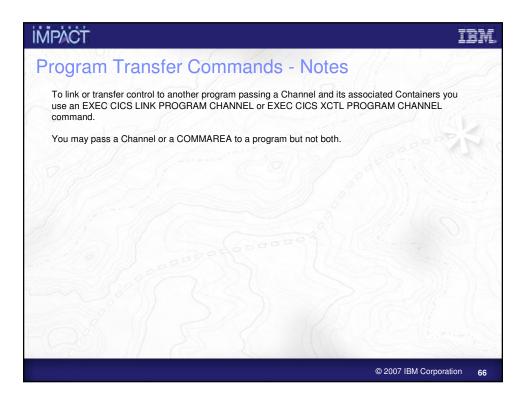


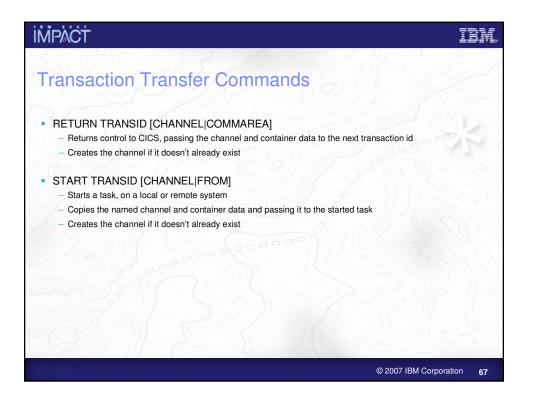


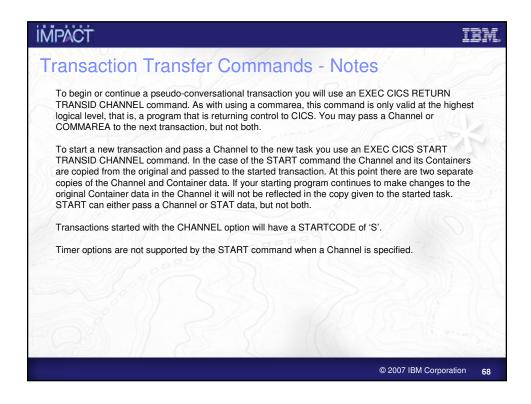


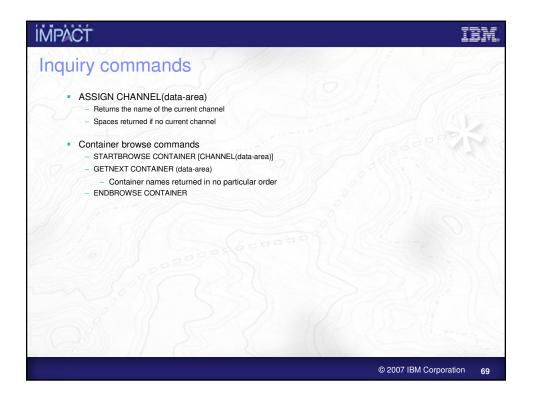


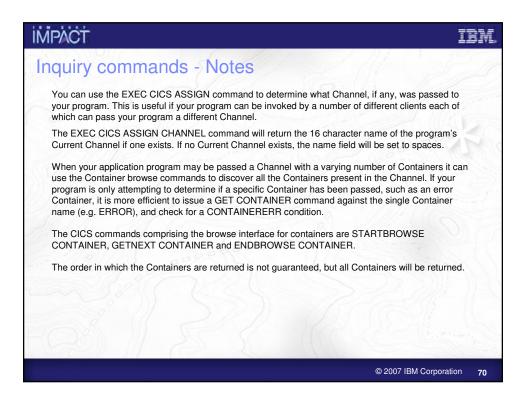


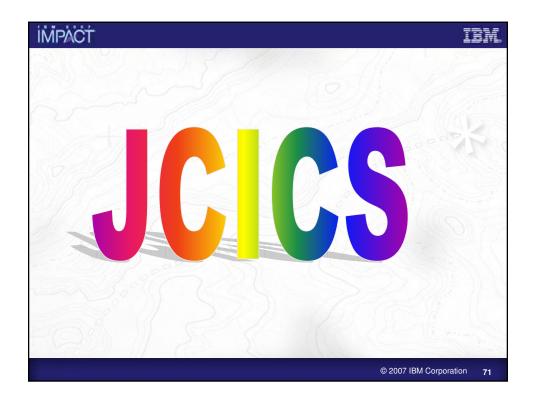


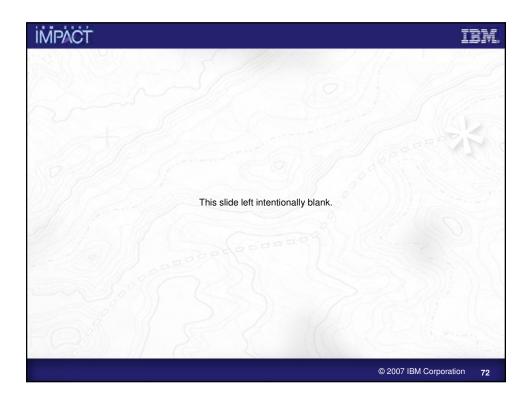


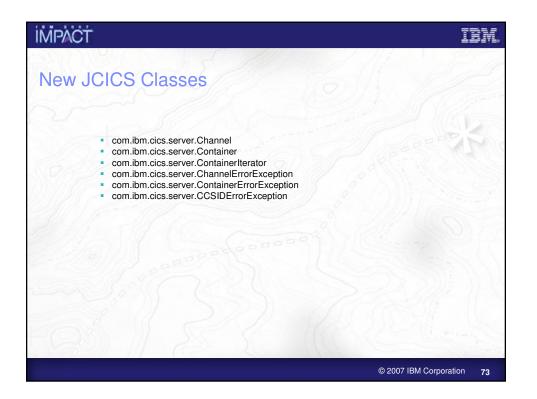


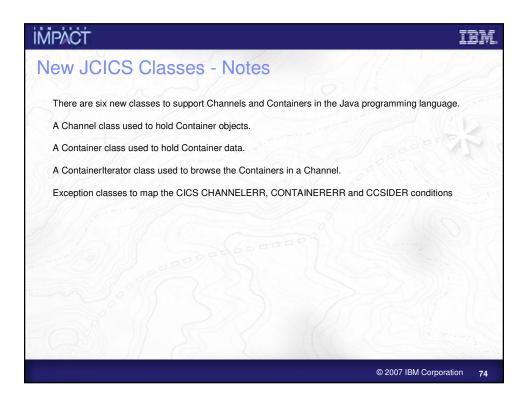


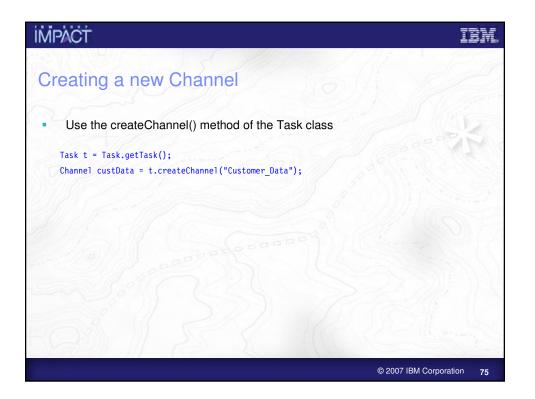


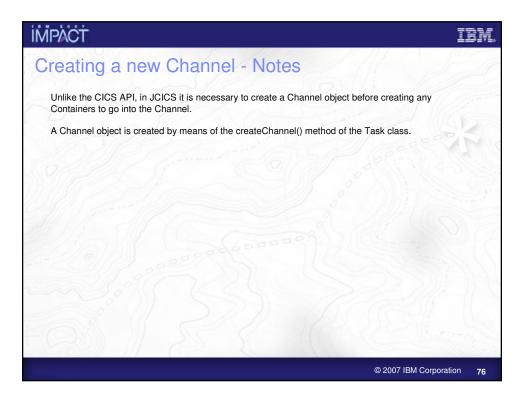


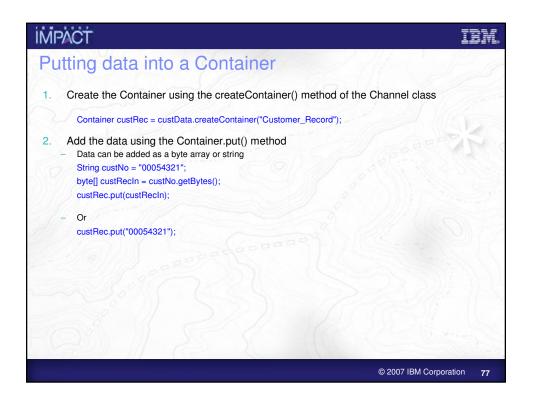


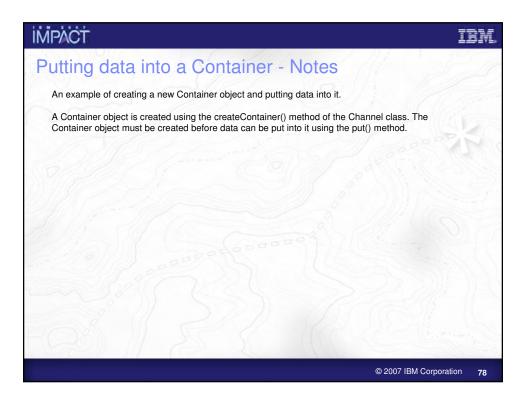


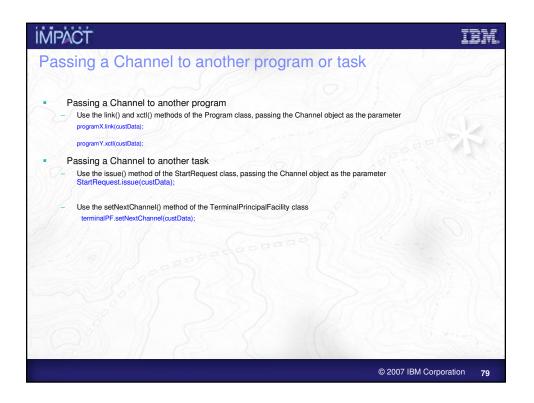


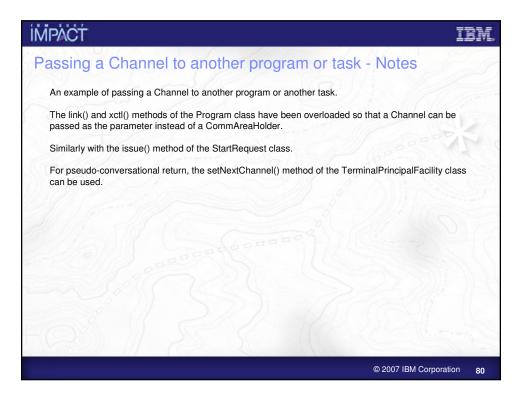


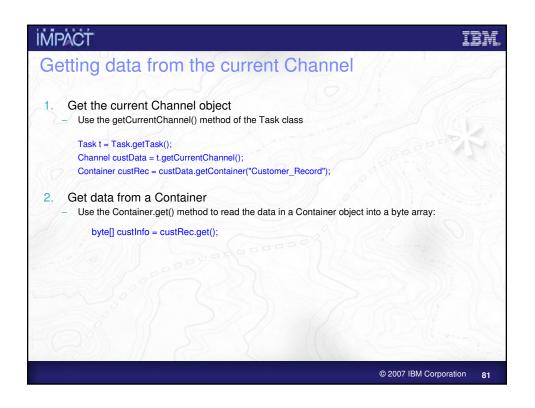


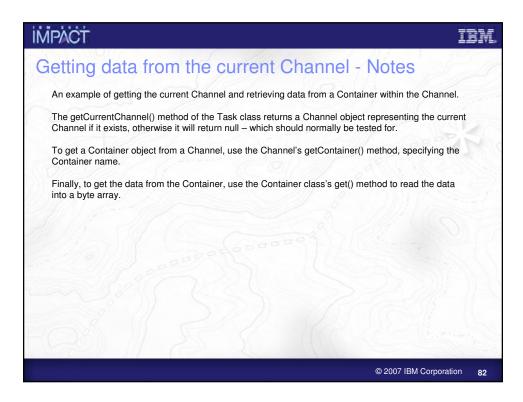


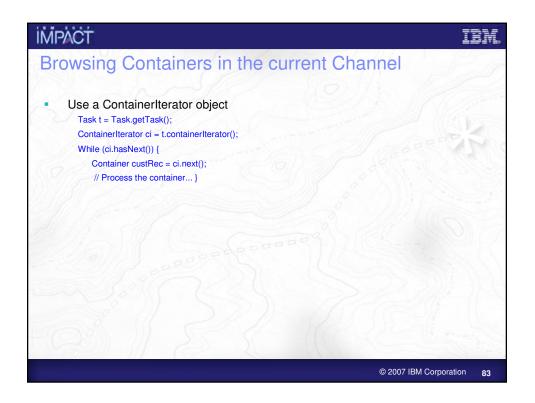


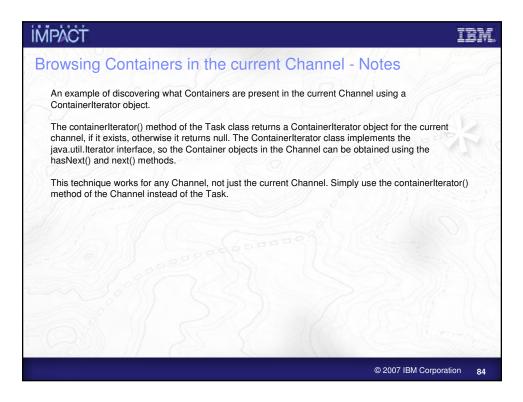


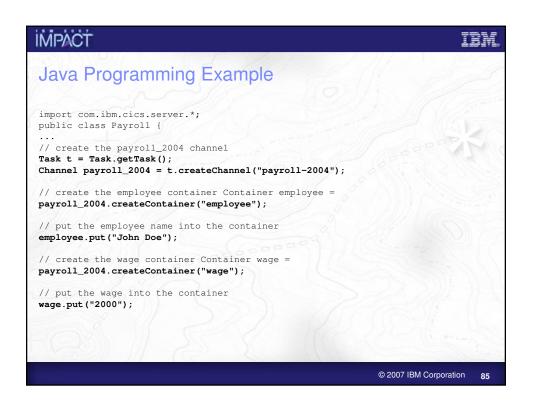


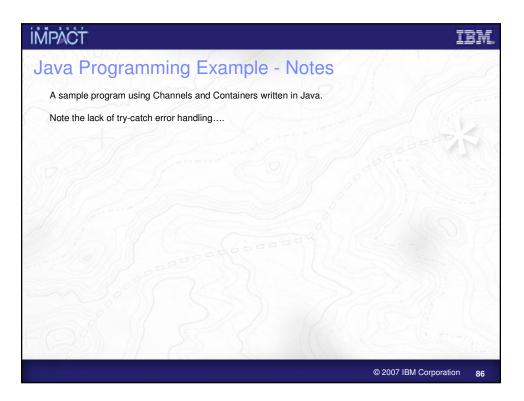


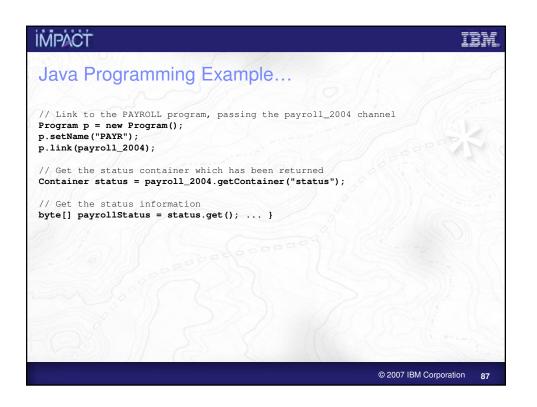




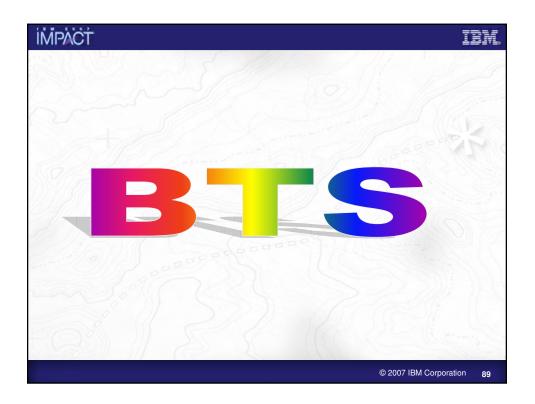


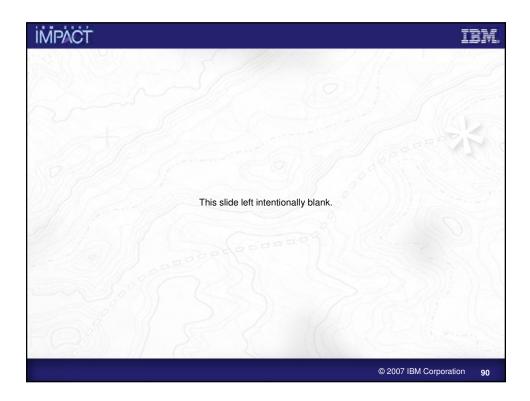


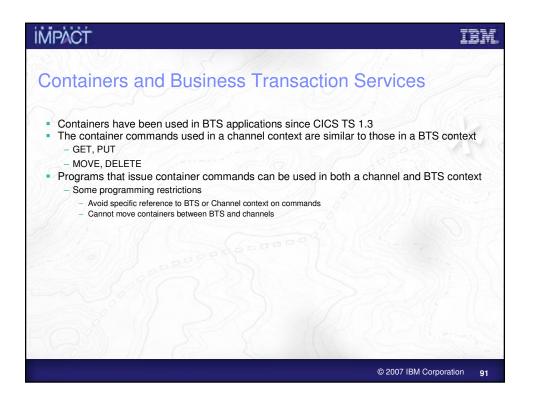


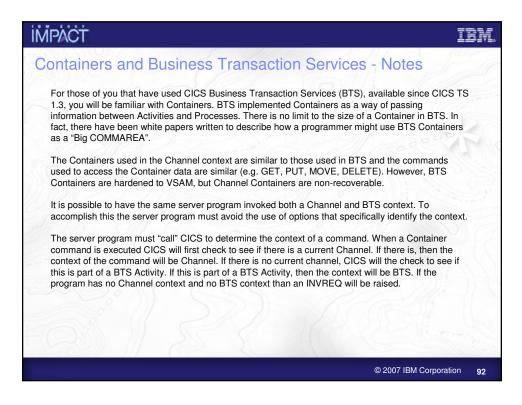


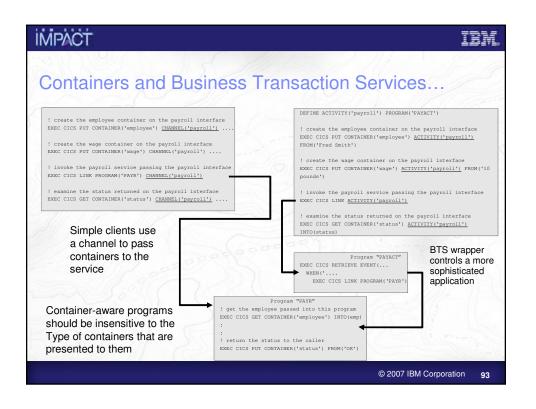


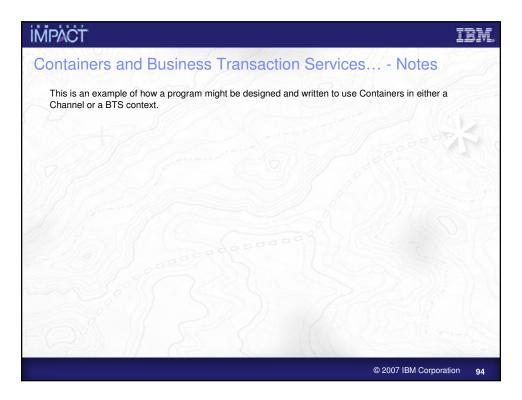






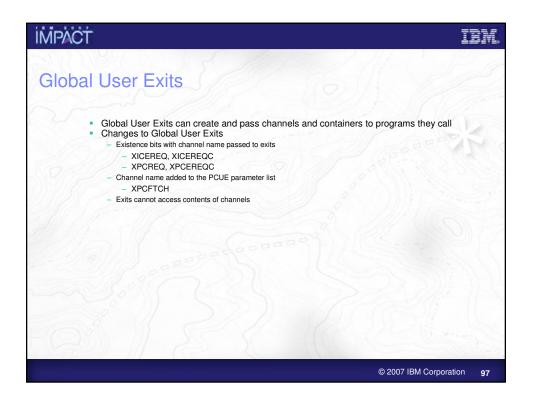


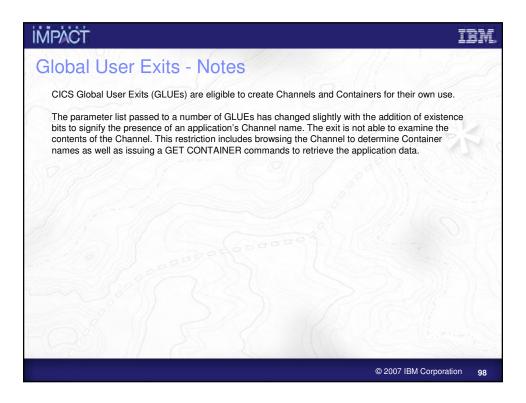




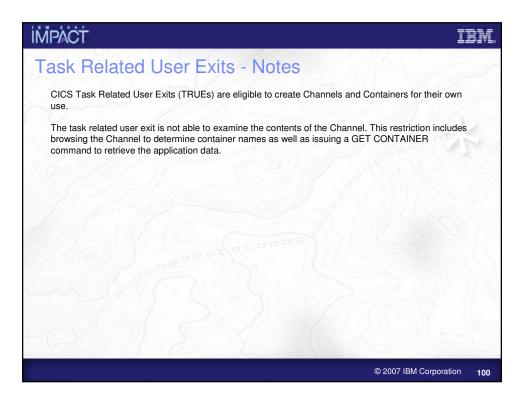


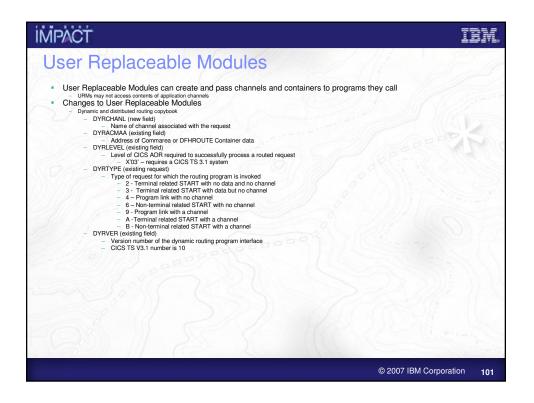


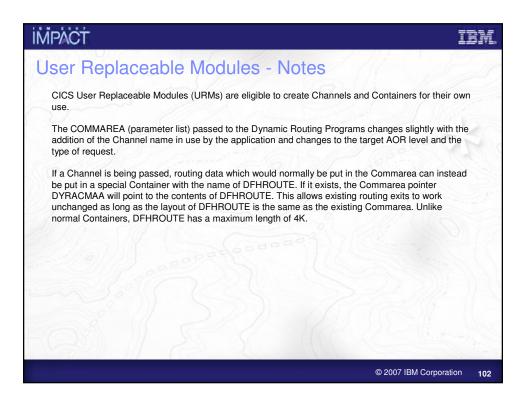


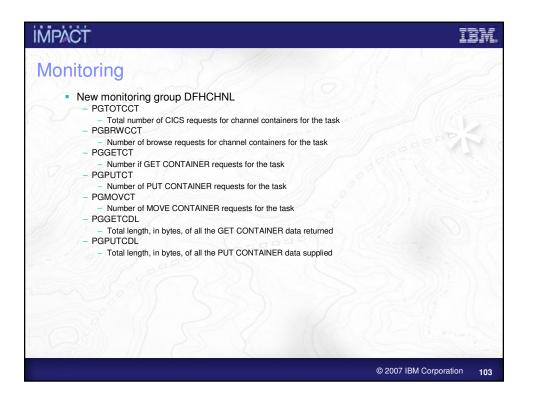




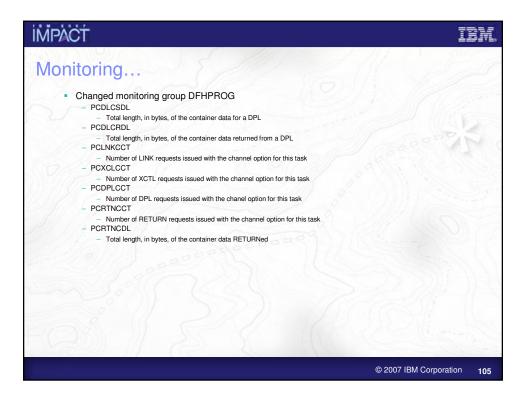




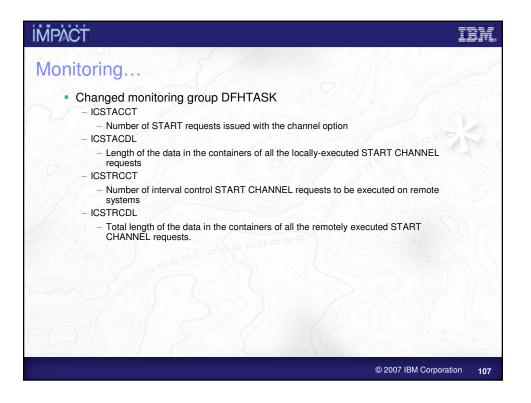




IMPACT IBM.
Monitoring - Notes
CICS adds new task performance monitoring information for channel and container usage.
Group DFHCHNL contains the following performance data:
321 (TYPE-A, 'PGTOTCCT', 4 BYTES) The number of CICS requests for channel containers issued by the user task.
322 (TYPE-A, 'PGBRWCCT', 4 BYTES) The number of CICS browse requests for channel containers issued by the user task.
323 (TYPE-A, 'PGGETCCT', 4 BYTES) The number of GET CONTAINER requests for channel containers issued by the user task.
324 (TYPE-A, 'PGPUTCCT', 4 BYTES) The number of PUT CONTAINER requests for channel containers issued by the user task.
325 (TYPE-A, 'PGMOVCCT', 4 BYTES) The number of MOVE CONTAINER requests for channel containers issued by the user task.
326 (TYPE-A, 'PGGETCDL', 4 BYTES) The total length, in bytes, of the data in the containers of all the GET CONTAINER CHANNEL commands issued by the user task.
327 (TYPE-A, 'PGPUTCDL', 4 BYTES) The total length, in bytes, of the data in the containers of all the PUT CONTAINER CHANNEL commands issued by the user task.
© 2007 IBM Corporation 104



IMPACT IB	M.
Monitoring Notes	1
CICS adds new task performance monitoring information for channel and container usage.	
The following new fields are added to group DFHPROG:	
286 (TYPE-A, 'PCDLCSDL', 4 BYTES) The total length, in bytes, of the data in the containers of all the distributed program link (DPL) requests issued with the CHANNEL option by the user task.	e
287 (TYPE-A, 'PCDLCRDL', 4 BYTES) The total length, in bytes, of the data in the containers of all DPL RETURN CHANNEL commands issued by the user task.	
306 (TYPE-A, 'PCLNKCCT', 4 BYTES) Number of program LINK requests issued with the CHANNEL option by the user task.	
307 (TYPE-A, 'PCXCLCCT', 4 BYTES) Number of program XCTL requests issued with the CHANNEL option by the user task.	
308 (TYPE-A, 'PCDPLCCT', 4 BYTES) Number of program distributed program link (DPL) requests issued with the CHANNEL option by the user task	
309 (TYPE-A, 'PCRTNCCT', 4 BYTES) Number of pseudoconversational RETURN requests issued with the CHANNEL option by the user task.	
310 (TYPE-A, 'PCRTNCDL', 4 BYTES) The total length, in bytes, of the data in the containers of all the pseudoconversational RETURN CHANNEL command issued by the user task.	Is
© 2007 IBM Corporation	106



	BM.
Monitoring Notes	Se
CICS adds new task performance monitoring information for Channel and Container usage.	
The following new fields are added to group DFHTASK:	
065 (TYPE-A, 'ICSTACCT', 4 BYTES) Total number of local interval control START requests with the CHANNEL option issued by the user task.	
345 (TYPE-A, 'ICSTACDL', 4 BYTES) Total length, in bytes, of the data in the containers of all the locally-executed START CHANNEL requests issued by the user task.	
346 (TYPE-A, 'ICSTRCCT', 4 BYTES) Total number of interval control START CHANNEL requests, to be executed on remote systems, issued to the user task.	у
347 (TYPE-A, 'ICSTRCDL', 4 BYTES) Total length, in bytes, of the data in the containers of all the remotely-executed START CHANNEL reques issued by the user task.	sts
Son Son Reader	()
FOS I S & R RELET	1/2
© 2007 IBM Corporation	108

