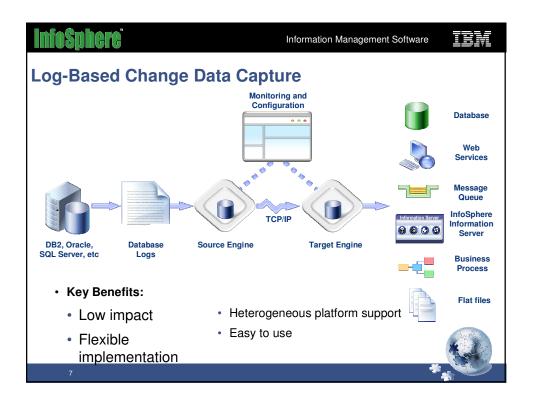
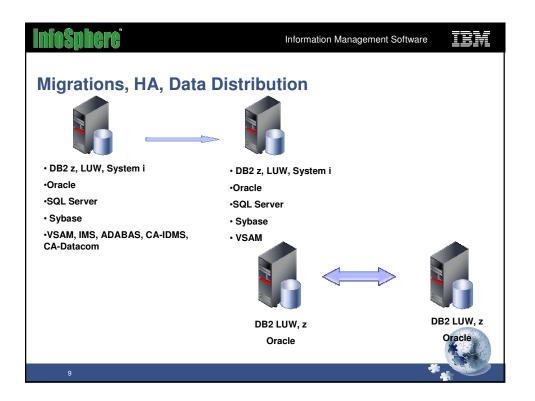


	Information Management Software						
h	InfoSphere Change Data Capture - Platform Support						
	DATABASES Source & Target	TARGETS	MESSAGE QUEUE	OPERATING SYSTEMS	HARDWARE PLATFORMS		
	DB2 z/OS	Teradata	JMS	IBM i OS	IBM i OS		
	Oracle	Information Server	MQ Series	z/OS	IBM System z		
	Sybase	Cognos Now!	TIBCO	AIX	IBM System p		
	MS SQL Server	Netezza*	WebMethods	HP-UX	HP PA-RISC		
	DB2 LUW		BEA	Solaris	HP Itanium		
	DB2 i			MS Windows	Intel / AMD		
	Informix			Red Hat, SUSE Linux	Sun SPARC		
			* Custor	nized solution, limited requ	irements		
	6						

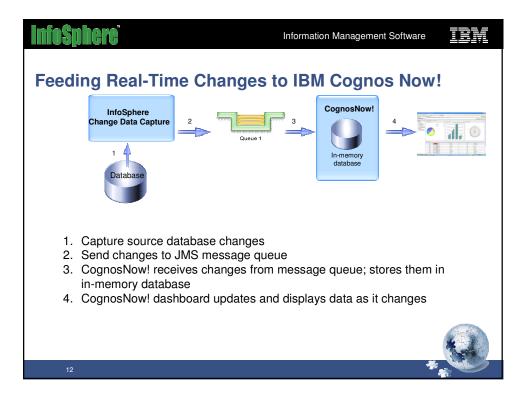


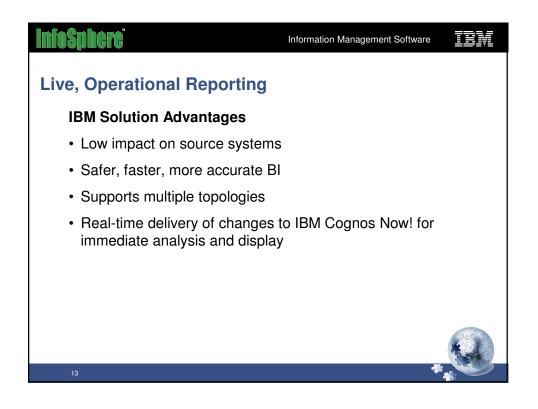
InfoSphere Information Management So	oftware	
Low Impact		
 Log-based CDC captures data without interacting database 	with	
 No changes or upgrades to applications and scher required 	mas	
 Peer-to-peer architecture does not require addition hardware 	nal	
 Sending only changed data requires minimal netw bandwidth 	<i>i</i> ork	
8	*	



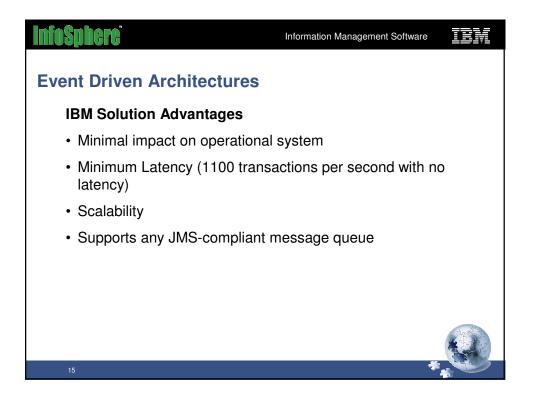
InfoSphere	Information Management Software	IBM
Migrations, HA, Data Distribu	ution	
IBM Solution Advantages		
 Broad support for heterogenee 	ous environments	
 Cross-platform support 		
 Low impact on source system 	S	
 No batch window required 		
 Target system available for us 	se	
10		

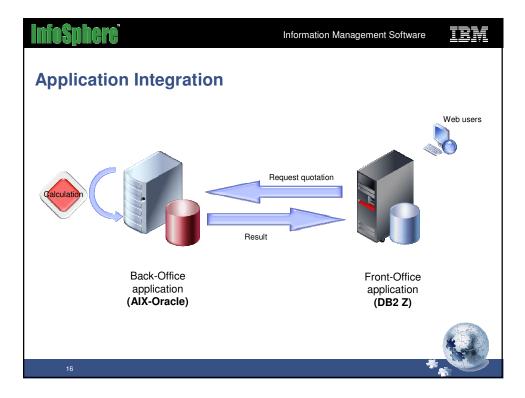




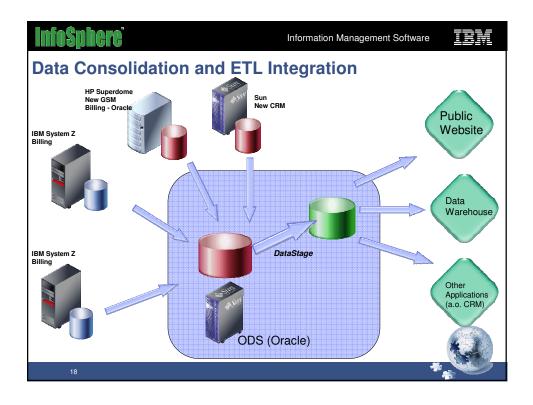


Event Driven Architectures	Information Management Software
HP (64 way) Superdome	Transacion 1 Transacion 2 Transacion 3 Transacion 4 Transacion 1 Transacion 1 Trans
etc Anndocs Billing Oracle 9.2.05 etc db size = 11 terabytes 40 million trans/day Redo generation peak at 1 GB/min	TIBCO API Siebel CRM Oracle 91

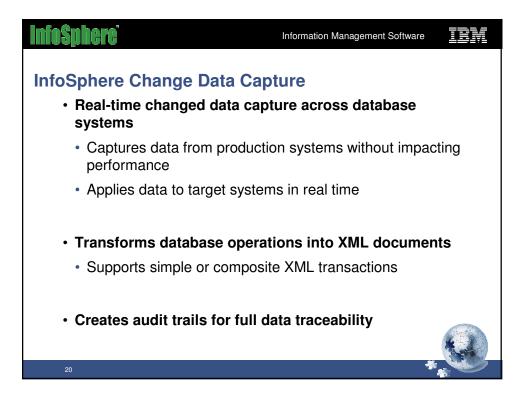


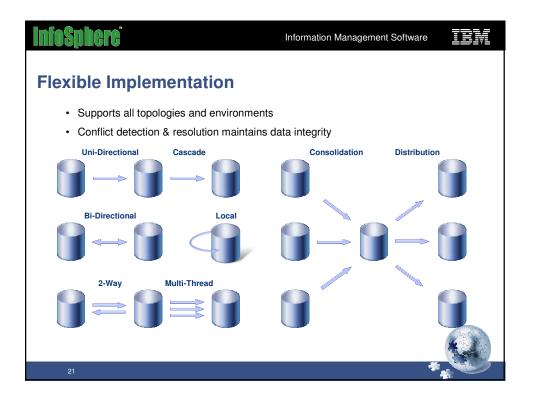




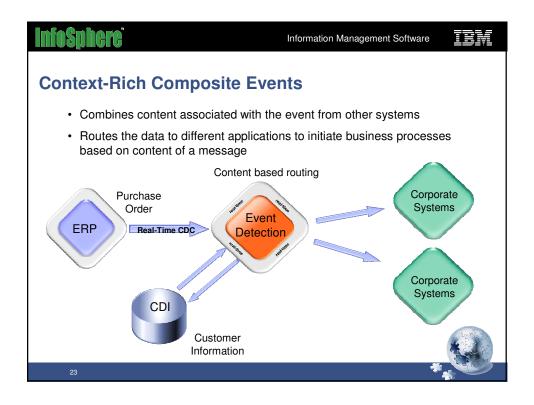








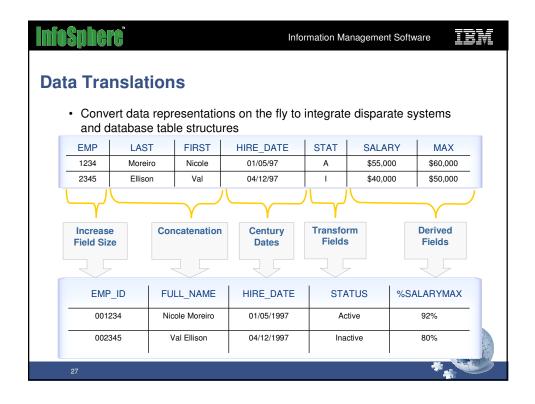
InfoSphere	Information Management Software	œM
Easy to Use		
 Java-based GUI for configuration, admi 	stration, and monitoring one screen	
Manage data integration processes fror	<section-header></section-header>	
Wizards and task automation	<section-header></section-header>	
 No programming required 		
Restances and provide team Carlos	File: Edit: Subscription Property Here □ Presturing 100 or Higher Horizonta □ Software Horizonta	
	If Subergition State State Latency Source Target	itoring
33,2mmt	• Uning 100 (pm) 000 (pm)	
IT SourTale hypoticle hypoticle hypotic Period State Last Network 4 (COURSE) de date (COURSE) State hypotic	Descriptet Pow Gugts : (Sensitivation 1 Interact)	
	United by 0 1.7% -2.8% - United by 0 1.7% -2.8% - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	
Ser der	Like deal	
22	**	



InfoSphere [®]	Information Management Software	IBM
Replication		
 3 Modes of Replication 		
 Continuous mirroring 		
 Apply data changes at the targ source 	et as it is generated at the	
 Periodic mirroring 		
 Apply net changes on a sched 	uled basis	
 Refresh 		
 Apply a snapshot version of so 	ource system	
24	*	

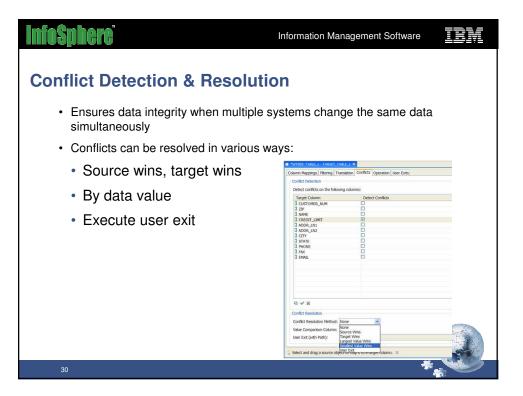
ering					
	CUST_NO	L_NAME	F_NAME	PHONE	REP_NO
	58699	Smith	John	404-555-3874	45
-	37283	Duggan	Ira	613-555-8367	25
	89863	Quinn	Fran	905-555-1296	11
89732		Muntz	Muntz	704-555-2738	25
Integrate entire systems or only a subset of data Row SELECT					
Integrat	e entire sys	stems or onl	y a subset o	of data	ROW SELECT
-			-		ROW SELECT REP_NO = 25
-		stems or onl level filtering	-		
-			-		
-		level filtering	g options av	ailable	REP_NO = 25
-		level filtering	g options av	railable	REP_NO = 25

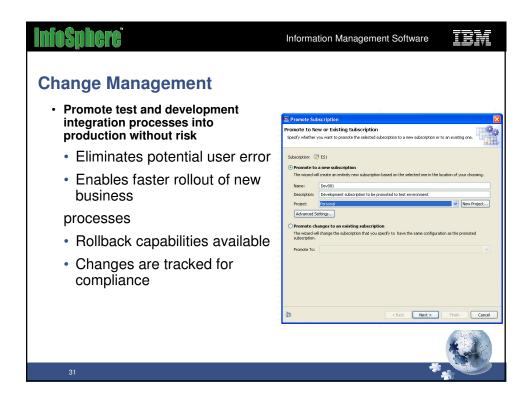
InfoSphere [®]	Information Management Software	IBM
Table Mapping Methods		
One-to-one		
 Source and target tables have 	similar table structures	
LiveAudit		
 Generates audit trail of data trail 	ansactions from source	
Adaptive Apply		
 Automatically synchronizes data 	ta for dissimilar sources and targe	ets
Summarization		
 Keeps a running total of nume 	rical values at the target	
Consolidation: One-to-One)	
 Merges data from several table 	es into a single row	
Consolidation: One-to-Mar	ıy	an Roy
 Used to apply a source lookup rows 	table change to all affected targe	t
26		



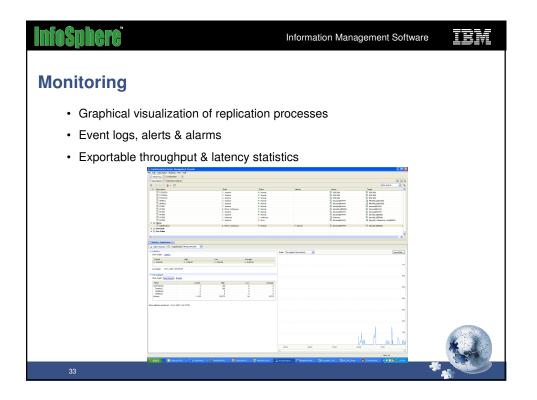
InfoSphere	Information Management Software	IBM
Capture addition	tions into INSERT to keep transactional history nal data for full data traceability ange, origin of data change, etc	
	JOURNAL CONTROL COLUMNS &CCID An identifier for the transaction with the update. &CNTIRIN Source table relative record number &CODE Always 'U' for refresh. Always 'R' for mirror. &ENTTYP Indicates the type of update. &JOBNO The name of the source job that made the update. &JOBNO The operating system user ld of the update process. &JOBNO The operating system user at the time of the update. &JOBNO The operating system user at the time of the update. &JOBNO The operating system user at the time of the update. &JOBNO The operating system user of its allas. &JORUFNAL The name of the journal, as described in Properties. &JORNER Indicates its before image is present &JINRIG The name of the journal schema. &JINRIG The name of source program that made the update. &BROGRAM. The name of source program that made the update. &BROGRAM. The name of update or refresh. &SECINO The source update or firefresh. &SUSER The user ID which made the update.	
28	*	

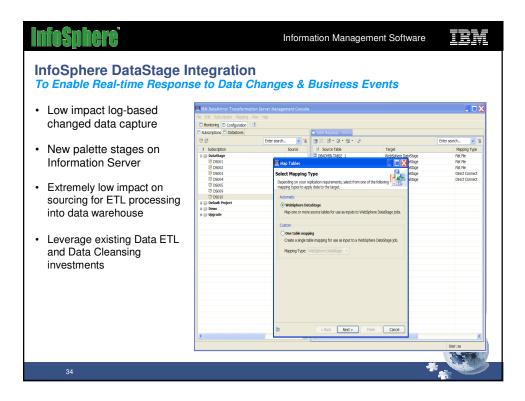
InfoSphere [®]	Informa	tion Manageme	ent Software	IBM
User Exits				
Execute custom business logic				
 React to business events ir 	n real tin	ne		
 Automate business process 	ses			
		e:		
 Automate business processes Multiple implementation methods available: C/C++, Java, Stored procedures 				
User Exit Type: [Java Gass Configuration [Dift+ Dil] Dispatch COM DIL Cass Name: Stored Procedure - Deprecated	Events and Actions	grams before and after events.		
Parameter: Stored Procedure	Operation Insert Update Delete Refresh Truncate	Before	After	
				and the state of t
29				

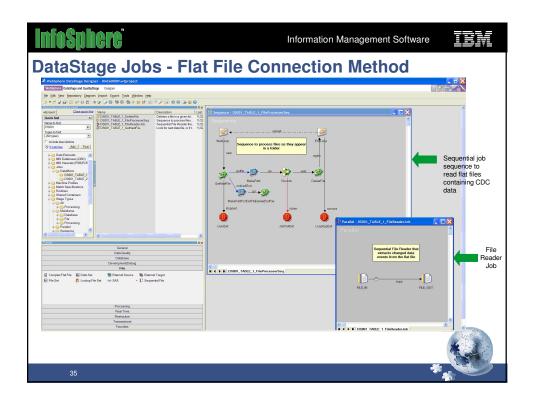


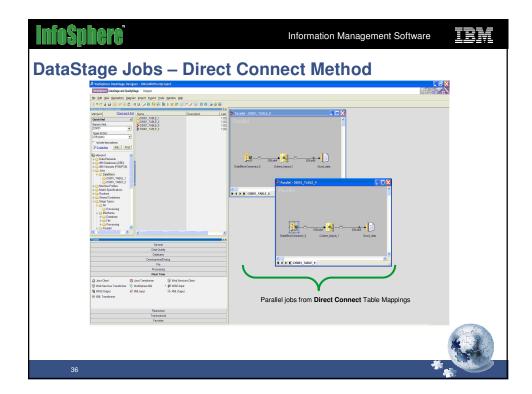


InfoSphere	nformation Management Software	IBM
Guaranteed Data Integrity		
 Data transactions are applied at order as it was generated at the 		
 Target acknowledges each apply delivery 	y operation to ensure	
 No data is lost even if communic unavailable 	ations link becomes	
32	*	

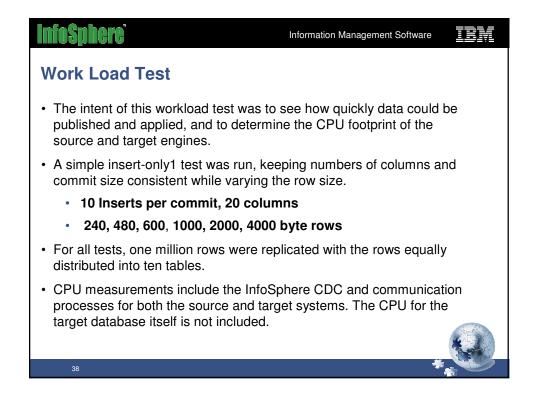


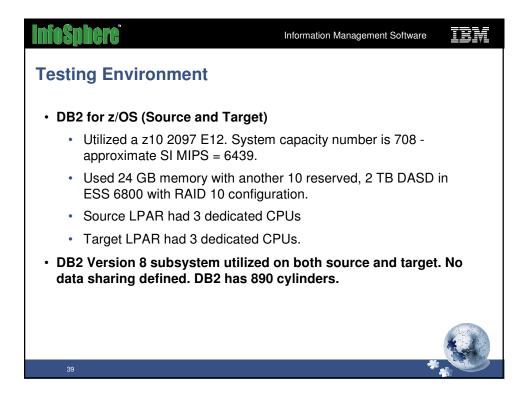






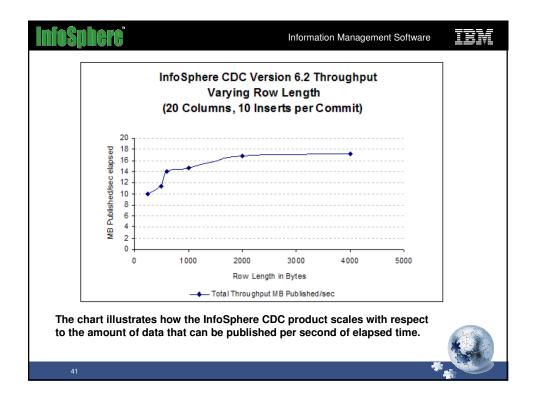


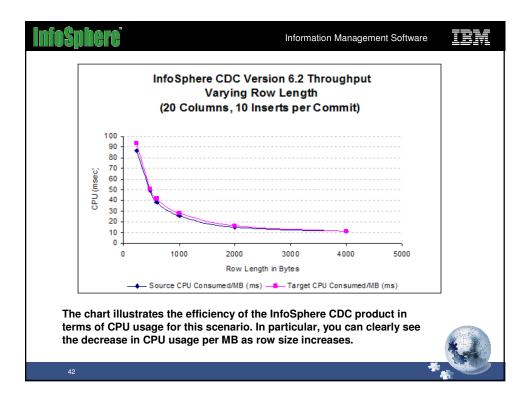


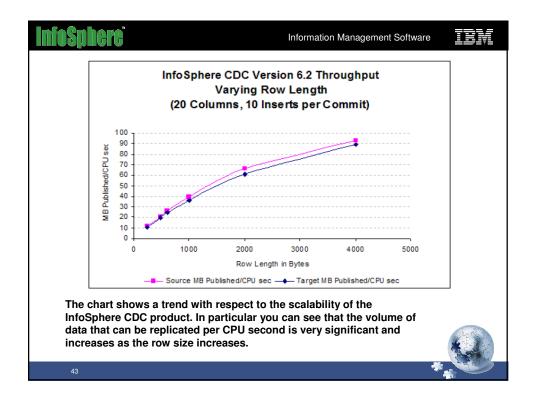


<i>foSphere</i> `	Inform	ation Mar	agemen	t Softwar	e I	BŅ
Workload Test Results By Row Lengtl	h					
Row Length in Bytes	240	480	600	1000	2000	40
Elapsed Time (seconds)	24	42	43	68	120	23
Source CPU Consumed (seconds)	20.7	23.7	23.0	25.3	30.4	43
Target CPU Consumed (seconds)	22.5	24.2	24.9	27.7	32.8	45
Rows Published per second elapsed	41667	23810	23256	14706	8333	429
Source Rows Published per CPU seconds	48309	42194	43478	39526	32895	2325
Target Rows Published per CPU seconds	44444	41322	40161	36101	30488	2222
Total Throughput MB Published per second elapsed	10.00	11.43	13.95	14.71	16.67	17.1
Source MB Published per CPU second	11.59	20.25	26.09	39.53	65.79	93.0
Target MB Published per CPU second	10.67	19.83	24.10	36.10	60.98	88.8
Source CPU Consumed per MB (ms)	86.25	49.38	38.33	25.30	15.20	10.7
Target CPU Consumed per MB (ms)	93.75	50.42	41.50	27.70	16.40	11.2

~~<u>~</u>~~~







InfoSphere	Information Management Software	IBM
Summary		
InfoSphere Information Serve style	r can address any type of data integration	
 Change Data Capture and Rep data capture across the enter 	plication products provides real-time chan prise	ged
Key Benefits:		
Low impact		
 Does not impact per to applications 	rformance and requires no change	es
Heterogeneous		
 Integrates data from all platforms and databases 		
Flexible	-	
 Supports any topolo 	ogy	
Easy to use		
 Fast deployment with 	th low risk	Sugar S
 Integrated with Information S 	erver	Contraction of the
• Single solution for all data integration requirements		

