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IMS Tools from IBM What's New in 2004?

December 2004



@business on demand software

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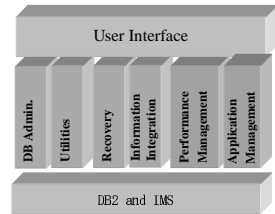

zOS Data Management Tools Strategy

- Significant IBM investments targeted at the growing tools market
 - ▶ Development, marketing, sales & support
- New and enhanced suite of products
 - ▶ Comprehensive capabilities
 - ▶ Competitive and affordable
- Available for multiple releases of IMS and DB2

4 announcements per year, and more

More than 70 Tools

160 Versions or Releases


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IMS Tools - Customer Needs

- Winback situation
 - ▶ To reduce cost of computing
 - ▶ To provide a new actor in the tools market
- IBM Unique Tools
 - ▶ Can fit in niches
 - ▶ Answer to particular customer needs
- New Customer Needs
 - ▶ IBM Solutions at affordable price

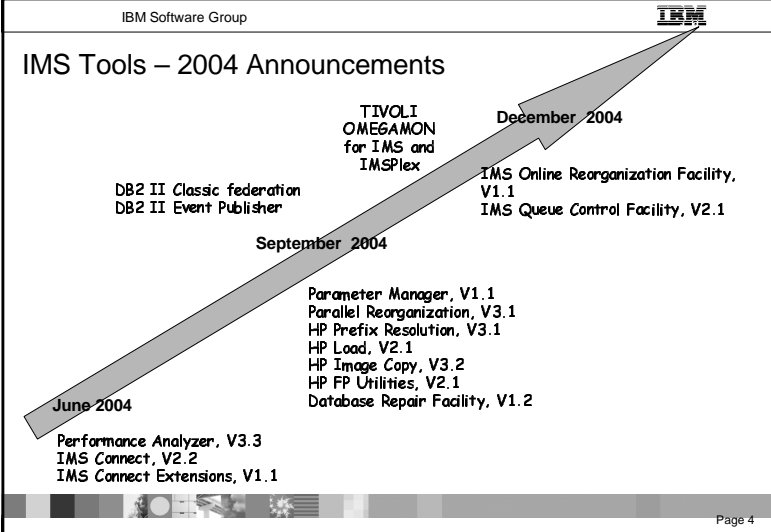


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IMS Tools – 2004 Announcements



June 2004


- Performance Analyzer, V3.3
- IMS Connect, V2.2
- IMS Connect Extensions, V1.1

September 2004


- DB2 II Classic federation
- DB2 II Event Publisher
- Parameter Manager, V1.1
- Parallel Reorganization, V3.1
- HP Prefix Resolution, V3.1
- HP Load, V2.1
- HP Image Copy, V3.2
- HP FP Utilities, V2.1
- Database Repair Facility, V1.2

December 2004

- TIVOLI OMEGAMON for IMS and IMSplex
- IMS Online Reorganization Facility, V1.1
- IMS Queue Control Facility, V2.1



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IMS Tools Announcement – 4Q 2004

	VRM	Change	Product PID	Service PID	Announce	GA
Tivoli OMEGAMON XE for IMS	100	New	5608-A39	5608-S39	05/10/04	22/10/04
Tivoli OMEGAMON XE for IMSplex	220	New	5608-A08	5608-S08	05/10/04	22/10/04

	VRM	Change	Product PID	Service PID	Announce	GA
IMS Online Reorganization Facility	1.1.0	New	5655-H97	5655-H98	07/12/04	17/12/04
IMS Queue Control Facility	2.1.0	Version	5697-I08	5655-E99	07/12/04	17/12/04


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Tivoli OMEGAMON XE for IMS and IMSplex

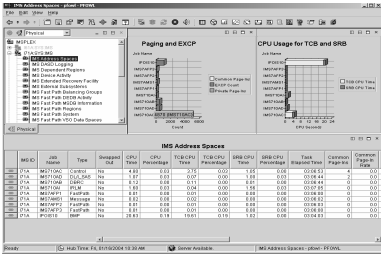
- Manage IMS performance from one screen — manage multiple IMS subsystems within a single interface. Monitor dozens of performance metrics and activities including:
 - address spaces, DASD logging, device activity, pool statistics, dependent regions, system summary, transaction summary and detail, database activity and subpool statistics, external subsystems, extended recovery and fast path information such as balancing groups, system information and regions, DEDB, MSDB, and VSO Data space activity
- Plan for the future, learn from the past — leverage trend analysis capabilities and establish benchmarks by comparing systems running at top performance and during slow periods. Track resource usage of including CPU time, virtual storage use, database calls, message length and response time for accounting charge backs to shared resources of multiple departments
- Prevent problems before they occur — create sophisticated thresholds, situations and alerts without deep scripting or coding skills. In plex environments, receive alerts when data-sharing or shared-queue coupling facility structures begin to fill or when queue count items reach thresholds
- Respond quickly — instant alerts enable quick response to problems that arise, and Expert Advice offers potential fixes. Capture new fixes and include that knowledge of your environment for the entire staff

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Tivoli OMEGAMON XE for IMS

- Problem**
 - Difficulty managing IMS regions and related resources
- Solution**
 - Monitor the use of MVS resources for each IMS region to prevent potential impacts on transaction throughput



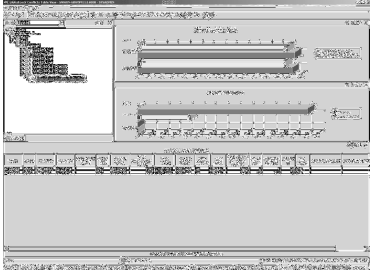
IMS regions can be viewed from an MVS perspective. Factors such as paging rates, CPU consumption and EXCPs can have a major impact on transaction throughput. For example, high CPU and EXCPs and lack of storage can indicate a potential application problem.

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Tivoli OMEGAMON XE for IMSplex

- Problem**
 - Application bottlenecks caused by database locks are difficult to identify and isolate—especially in a data sharing environment since applications can be waiting on a lock in one MVS system when the lock is held on another MVS system
- Solution**
 - Lock conflicts are displayed in easy to read charts and tables making it easy to identify the applications and databases for quick resolution



Database locks identify applications that are holding a lock and those waiting on the lock. Monitoring these locks helps detect potential application bottlenecks so that you can take appropriate action.

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IMS Online Reorganization Facility for z/OS - Overview

- Reorganize a Database while still online**
 - Database is reorganized to shadow datasets
 - Index databases are rebuilt to shadow datasets
 - Image copies are taken from the shadow datasets
 - Changes to the original datasets are captured
 - Captured changes are applied to the shadow datasets
 - The original databases are DBR'd
 - The shadow datasets are renamed to originals
 - The databases are started and the reorganized/ renamed databases are available online

Benefits

Increased Data Availability - Outage reduced from hours to seconds
Automation of DBA tasks - Single step Reorg - Single JCL
Improved DBA Efficiency

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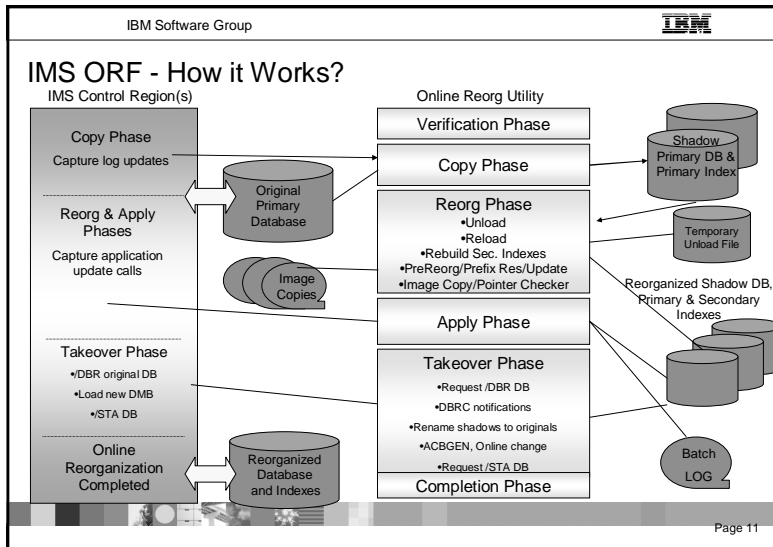
IMS ORF - Requirements and Restrictions


- Requirements**
 - IMS 7.1 and above
 - IMS Tools used for the reorganization
 - HP Unload
 - HP Reload
 - HP Image Copy
 - HP Prefix Resolution (if logical relationships)
 - HP Pointer Checker (if requested during IC)
 - IMS Tools Online System Interface (TOI)
 - DBRC is required

The database and its indexes must be registered (Indexes can be registered as nonrecov)

- Restrictions**
 - No support for Fast Path or HSAM databases
 - No external logical relationships
 - HALDBs
 - Single partition at a time
 - No DBD changes supported
 - No logical relationships supported
 - HIDAM root key can not be RECOV
 - Primary database must be RECOV
 - No support for CICS or ODBA

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IMS Queue Control Facility

- Set of utilities and an ISPF interface which provide the user with the means to**
 - Select IMS messages from the log and requeue them
 - IMS message queue recovery after a cold start, following planned or unplanned outage
 - IMS application program recovery, to reprocess some transactions after the program is corrected
 - IMS stress, regression and application testing
 - Port of messages to other IMS systems
 - Select and view messages on the IMS message queues, delete them from the queues, and/or requeue them
- Support for both Non-shared and Shared Message Queue environments**
- User management of "queue filling" situations**

IMS TM is obviously excellent at "processing" IMS Message Queues. But it only contains limited facilities for external "management" of the queues. "Queue Management" is the function of IMS QCF.


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IMS Queue Control Facility Version 2

- **A new architecture gives you greater flexibility in configuration, additional support of sysplex environments, improved security using SAF/RACF, and greater product robustness.**
- **Enhancements:**
 - ▶ Automatic checkpoint location
The specification of an IMS system checkpoint ID is now available through a standard LIST.RECON command output. IMS Queue Control Facility is enhanced to completely automate the selection of an IMS system checkpoint ID.
 - ▶ Automatic log selection
 - ▶ Cold queue recovery for IMS/SMQ
 - ▶ Implementation of the SAF/RACF security interface
 - ▶ INCLUDE and EXCLUDE statement of the LOAD function
 - ▶ Sysplex support
 - ▶ Messages can be requeued between different LTERMs and OTMA
 - ▶ Multiple line commands are accepted in the Display Destination panels

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IMS Tools Announcement – September 2004

	VRM	Change	Product PID	Service PID	Announce	GA
IMS Database Repair Facility	1.2.0	Release	5655-E03	5655-E93	21-sept-04	5-nov-04
IMS High Performance Image Copy	3.2.0	Release	5655-K96	5655-E20	21-sept-04	5-nov-04
IMS High Performance Load	2.1.0	Version	5655-M26	5655-E27	21-sept-04	5-nov-04
IMS High Performance Prefix Resolution	3.1.0	Version	5655-M27	5655-E28	21-sept-04	5-nov-04
IMS HP Fast Path Utilities (accessor to IMS FP Basic Tools and the IMS FP On-Line Tools)	2.1.0	Version	5655-K94	5655-E36	21-sept-04	24-sept-04
IMS Parallel Reorganization	2.1.0	Version	5655-M28	5655-F73	21-sept-04	5-nov-04
IMS Parameter Manager	1.1.0	New	5655-L69	5655-L70	21-sept-04	24-sept-04

IMS Related DB2 Tools	VRM	Change	Product PID	Service PID	Announce	GA
DB2 II Classic Federation for z/OS	8.2.0	Release	5697-I82	5697-I83	14-sept-04	15-Oct-04
DB2 II Event Publisher for IMS	8.2.0	New	5655-M38	5655-M50	14-sept-04	15-Oct-04


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IMS Database Repair Facility, V1.2

- **Business Value:**
 - ▶ Minimizes IMS system downtime
 - ▶ Audit trail of all database repair activity
 - ▶ Works with existing tools to quickly repair databases
- **New Functionality:**
 - ▶ Runs in interactive mode:
 - Entire blocks of data or individual IMS segments can be viewed
 - Can navigate to other segments via the display of pointers
 - Any changes will be tracked and can be undone
 - ▶ Runs in batch mode:
 - Dump blocks from the data set or submit changes to block data
 - No undo capability
 - ▶ Teams with IMS HP Pointer Checker to quickly find, report, and repair database pointer or data errors


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IMS High Performance Image Copy, V3.2

- **Business Value:**
 - ▶ Increased database availability
 - ▶ Improved accuracy of database copies
- **New Functionality:**
 - ▶ Run an Image Copy function with the hash checking of IMS HP Pointer Checker V2 under the control of IMS Parallel Reorganization, V3
 - Major reduction in run-time of the reorganization process
 - Supports processes in parallel within an IMS Parallel Reorganization
 - ▶ New optional parameter for controlling the secondary image copy data set


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IMS HP Load, V2.1

- **Business Value:**
 - ▶ Improved database availability
 - ▶ Improved DBA productivity
- **New Functionality:**
 - ▶ Contains restructured code that reduces CPU time utilization
 - ▶ Improves I/O processing to reduce I/O wait time
 - ▶ Exploits the High Performance I/O Driver
 - ▶ Supports reorganization reload of HALDB partitions
 - ▶ Required to create an image copy during database reorganization with IMS Parallel Reorganization, V3
 - ▶ Supports various formats of the unloaded data sets
 - ▶ JCL statements are fully compatible with those of prior versions of the tool


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IMS HP Prefix Resolution, V3.1

- **Business Value:**
 - ▶ Improved database availability
 - ▶ Improved DBA productivity
- **New Functionality:**
 - ▶ Eliminates the WF2 and WF3 data sets by using the HPPRPIPE data transfer service
 - ▶ Executes prefix resolution and prefix update functions as replacements for the existing IMS Prefix Resolution and IMS Prefix Update utilities
 - ▶ Supports IMS Parallel Reorganization, V3 single job step execution of database reorganization, prefix resolution, and prefix update tasks

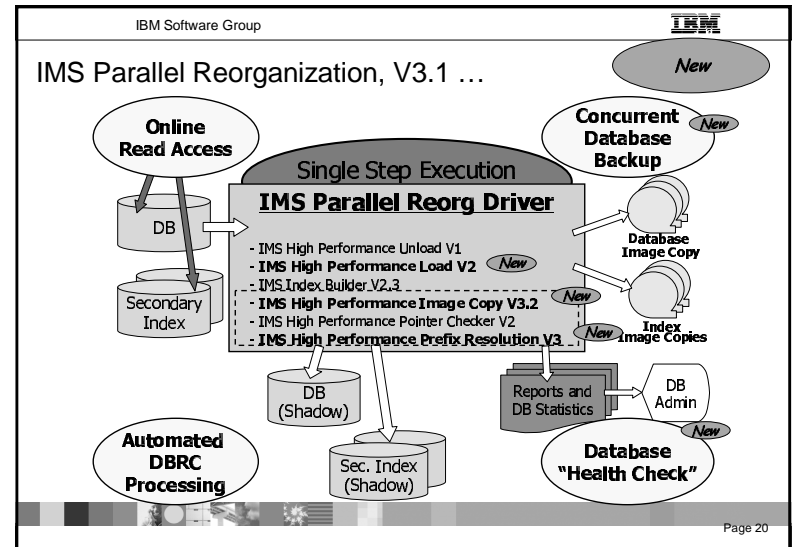
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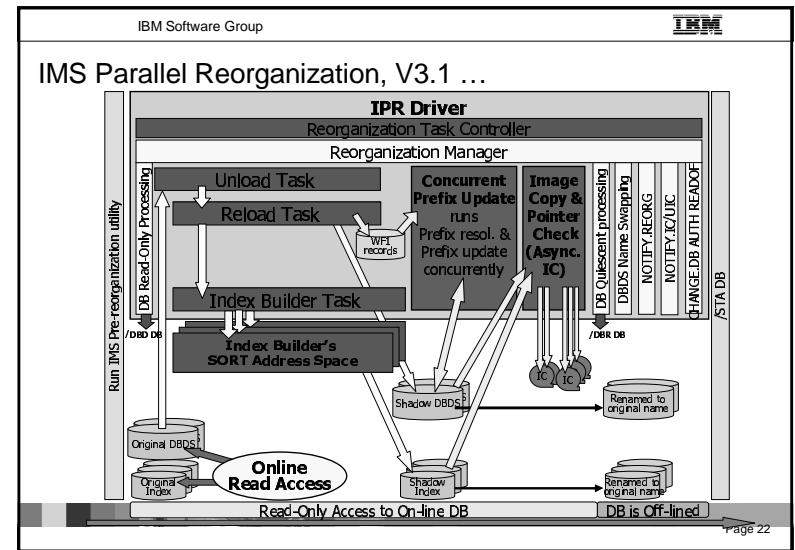
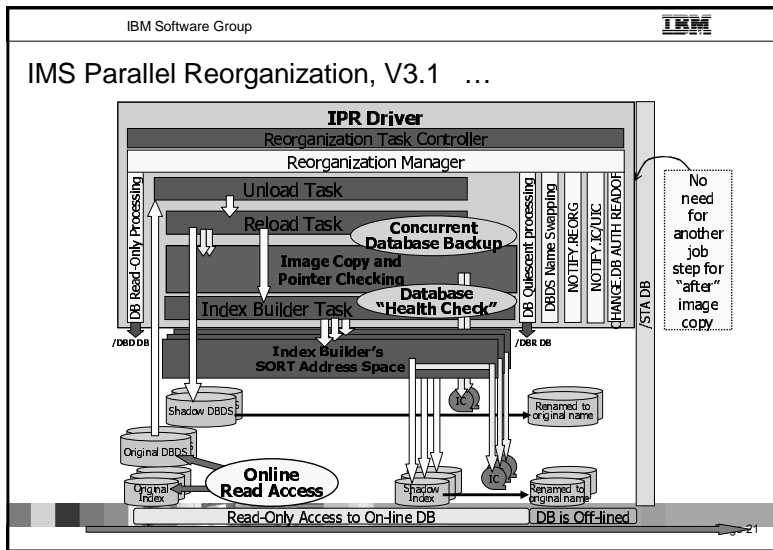
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IMS Parallel Reorganization, V3.1

- **Business Value:**
 - ▶ Improved database availability
 - ▶ Improved IMS administrator productivity
- **New Functionality:**
 - ▶ Runs utility jobs in parallel instead of sequentially and includes:
 - Selected consecutive HALDB partitions
 - HISAM and SHISAM databases
 - Optional deletion of the old database data sets
 - ▶ One step job operation:
 - Load
 - Unload
 - Prefix resolution and update (includes databases with logical relationships)
 - Image copy (with optional hash pointer checking)
 - Pointer Checking
 - ▶ Supports IMSDALIB DD statement for dynamic allocation member library

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IMS HP Fast Path Utilities, V2.1

- Business Value:**
 - Improved FP data availability
 - Increased DBA productivity
- New Functionality:**
 - Combines features and functions of IMS FP Basic Tools, V1.2 and IMS FP Online Tools, V2
 - Contains a new HP Fast Path Reorganization Tool component:
 - Provides JCL ease-of-use
 - Performs dynamic allocation of databases and SORT work data sets
 - Allows DEDBs to be available to IMS after reloading
 - Supports single SYSIN DD statement which can be a non-positional control statement
 - Supports multiple ADS (Area Data Sets)

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IMS Parameter Manager, V1.1

New Tool

- Business Value:**
 - Improved IMS Administrator/System Programmer productivity
 - Reduced risk of IMS start-up and operational failures
 - Reliable migration assistance when upgrading to newer versions of IMS
- Customer Benefits:**
 - Used in conjunction with IMS tuning activities
 - Central source of parameter information for IMS version 7, 8 and 9
 - Accurate updating of parameters (420+)
 - Easy management of multiple parameter levels
 - Parameter validation for IMS configurations
 - Assists in the migration to IMS version 9

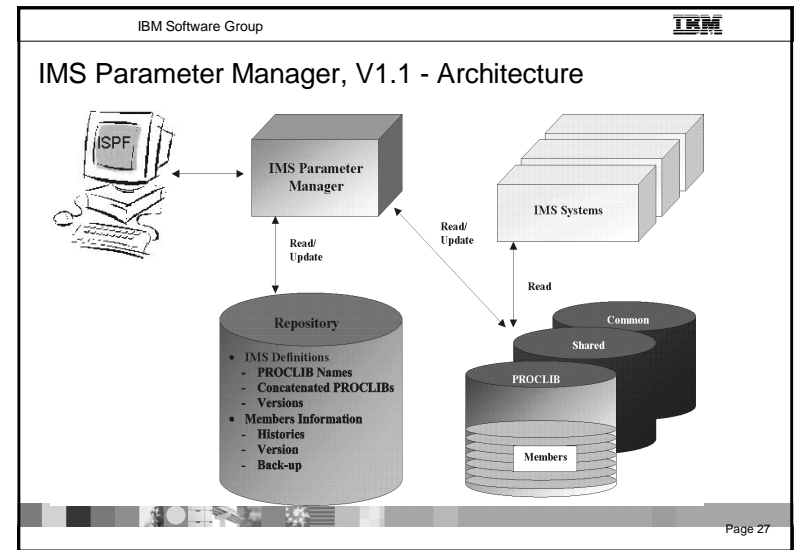
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IMS Parameter Manager, V1.1

- **Functionality:**
 - ▶ A management tool for IMS system programmers
 - ▶ Support for the 19 IMS start up parameter members
 - ▶ Parameter editing - 'fill-in-the-blanks' technique
 - ▶ Extensive online helps and prompts
 - ▶ Parameter syntax and value checking
 - ▶ Automatic parameter card construction
 - ▶ Validation of parameters:
 - Cross-member, IMS configurations, IMS version
 - ▶ Support for IMS version 7 thru' 9
 - ▶ IMS and PROCLIB views of members
 - ▶ Automatic 'back-up' member creation
 - ▶ Copy/migrate of members
 - ▶ Online repository
 - Member information, histories etc.
 - IMS system details

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IMS Parameter Manager, V1.1

- Parameter members supported

Member	Description	V7	V8	V9	DBCTL	DCCTL	DB/DC	DEP
DBFMSDBx	Main Storage Database load options	X	X	X		X	X	
DFS62DTx	LU 6.2 device descriptors	X	X	X	X	X	X	
DFSCGxxx	Common Services Layer parameters	X	X	X	X	X	X	
DFSDCxxx	Data Communications Options	X	X	X		X	X	
DFSDRFnn	DREF (Disabled Reference) storage requirements	X	X	X	X	X	X	
DFSFDRxx	Fast Database Recovery options used by FDR region	X	X	X	X	X	X	
DFSFIXnn	Defining Fix Pages	X	X	X	X	X	X	
DFSHSBxx	Extended Recovery Facility (XRF) Options	X	X	X		X	X	
DFSINTxx	Dependent Region Preinitialisation Routines	X	X	X				X
DFSJVMAP	IMS Java Application Names mapping	X	X	X				X
DFSMPLxx	High-Use Program Module Residency	X	X	X	X	X	X	
DFSORSxx	System Related Start up parameters	X	X	X	X		X	
DFSPBxxx	Control region execution parameters	X	X	X	X	X	X	
DFSRSRxx	Remote Site Recovery (RSR) Options	X	X	X	X	X	X	
DFSSPMxx	DFSPPOOL storage manager pools	X	X	X	X	X	X	
DFSSQxxx	Shared message queues, CQS address space	X	X	X		X	X	
DFSVFLxx	IMVS Virtual Fetch options	X						X
DFSVSMxx	VSAM and other IMS initialisation options	X	X	X	X	X	X	
DFSYDTx	OTMA descriptors	X	X	X	X	X	X	


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- ## IMS Parameter Manager, V.1 – Information Source
- **IMS system view**
 - ▶ IMS system and PROCLIB associations
 - ▶ IMS system and active members associations
 - ▶ Versions and configurations
 - **PROCLIB view**
 - ▶ PROCLIBs associated with an IMS system and version
 - ▶ Concatenated PROCLIBs
 - ▶ PROCLIBs and member associations
 - **Parameter member view**
 - ▶ Member and PROCLIB associations
 - **Parameter view**
 - ▶ Parameter and member associations
 - ▶ Parameter associated with a panel
 - **Extensive online helps and prompts available**
 - **Online repository for parameter information**
 - ▶ Histories, version, status etc.
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DB2 Information Integrator Classic Federation for z/OS

- Read from and write to mainframe data sources using SQL
- Standards-based access via ODBC, JDBC, or Call Level Interface
- Multi-threaded with native drivers for scalable performance
- Metadata-driven means:
 - ▶ No mainframe programming required
 - ▶ Fast installation & configuration
 - ▶ Ease of maintenance
- Works with existing and new:
 - ▶ Mainframe infrastructure
 - ▶ Application infrastructure
 - ▶ Toolsets



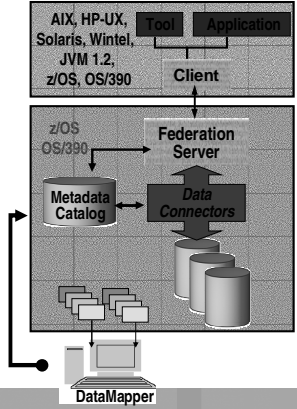
DB2 Information Integrator
Classic Federation for z/OS

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Typical DB2-II Classic Federation Implementation

- Create relational description of mainframe data sources with a map of the physical data definitions to logical tables and views
- Install mainframe DB2 II Classic Federation Server and components
- Install JDBC or ODBC driver on target platform for look and feel of standard RDBMS drivers




Start using your data with your tools!

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DB2 Information Integrator Event Publishers for z/OS

- Real time DB2, IMS, VSAM and CA-IDMS* changed-data capture and publishing
- Publish to WebSphere MQ
- Relational XML format
- WebSphere listener application/tool
 - ▶ Picks up message(s)
 - ▶ Takes action
- Two Event Publisher infrastructures:
 - ▶ DB2 Universal Database for z/OS
Based on DB2 II Q-replication
 - ▶ IMS, VSAM and CA-IDMS*
Based on DB2 II Classic Federation



DB2 Information Integrator
Event Publishers for z/OS


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DB2 Information Integrator Event Publishers for z/OS ...

- DB2 Information Integrator Event Publisher for DB2 Universal Database for z/OS
- DB2 Information Integrator Classic Event Publisher for IMS
- DB2 Information Integrator Classic Event Publisher for VSAM
- Log-based:
 - ▶ Log exits for active processing
 - ▶ Log files for recovery processing
- XML message output:
 - ▶ Self-describing XML message format for easy integration
 - ▶ Consistent format across all publishing solutions regardless of source database/file
- WebSphere MQ - guaranteed delivery mechanism that spans broadest choice of platforms
 - ▶ Dominant mainframe messaging infrastructure
 - ▶ Broad set of IBM & 3rd party solutions can "read" from WebSphere MQ queues
 - ▶ Publish once – read any number of times
 - ▶ Common delivery mechanism for DB2 II event publishers
 - ▶ High performance

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IMS Tools Product Portfolio



Database Administration

- IMS Library Integrity Utilities
- IMS HALDB Conversion and Maintenance Aid
- IBM Data Encryption for IMS and DB2 Databases
- IMS Sequential Randomizer Generator
- IMS HD Compression- Extended

Performance Management

- IMS Buffer Pool Analyzer
- IMS Performance Analyzer
- IMS Problem Investigator
- Tivoli OMEGAMON XE for IMS for z/OS
- IMS Network Compression Facility

Application Management

- IMS Connect
- IMS Connect Extension
- IMS MFS Reversal Utilities
- IMS Batch Terminal Simulator
- IMS Batch Backout Manager
- IMS Program Restart Facility

TH/Online System Management

- IMS ETO Support
- IMS Queue Control Facility
- IMS Multi Dialog Manager
- IMS Parameter manager
- IMS HP Sysgen Tool
- IMS Command Control Facility
- IMS Workload Router (MLC)

Recovery Management

- IMS DEDB Fast Recovery
- IMS HP Image Copy
- IMS HP Change Accumulation
- IBM Application Recovery Tool for IMS and DB2 Databases
- IMS Database Recovery Facility


Utilities Management

- Full Function Databases
 - IMS HP Unload
 - IMS HP Load
 - IMS Index Builder
 - IMS HP Prefix Resolution
 - IMS Parallel Reorg
 - IMS HP Pointer Checker
- Fast Path Databases
 - IMS HP Fast Path Utilities
- Administration
 - IMS Database Repair Facility
 - IMS Database Control Suite

Information Integration

- IMS DataPropagator
- DB2 II Classic Federation for z/OS
- DB2 II Event Publisher for IMS


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IMS Tools Announcement – June 2004 - Reminder

	VRM	Change	Product PID	Service PID	Announce	GA
IMS Connect	2.2.0	Release	5655-K52	5655-E34	1-jun-04	25-jun-04
IMS Connect Extensions	1.1.0	New	5655-K48	5655-K49	1-jun-04	25-jun-04
IMS Performance Analyzer	3.3.0	Release	5655-E15	5655-E18	1-jun-04	25-jun-04


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IMS Connect ...reminder

- **IMS Connect V1.1**
 - ▶ End of Service – November 2003
- **IMS Connect V1.2**
 - ▶ Marketing Withdrawal – September 2003
 - ▶ End of Service – April 2005
- **IMS Connect V2.1**
 - ▶ Current version
- **IMS Connect V2.2**
 - ▶ Current version, current release
 - ▶ GA 24th June 2004
- **IMS Version 9 - Integrated IMS Connect function**

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IMS Connect ...reminder

- **IMS Connect V1.2**
 - ▶ IMS Connector for Java J2EE Runtime support for WebSphere access
 - Used with VAJava/WASADIE's IMS Connector for Java
 - ▶ Two-phase Commit Support in Local 390 environments
 - ▶ Security enhancements
 - Passticket support
 - Trusted User support
 - ▶ More Granular timeout (eg. by transaction)
 - ▶ User message exit limitation relief
 - ▶ Auto reconnect to a recycled IMS system
 - ▶ IPV6 support
 - ▶ IMS V8 support - Operations Manager distributed interface

- **IMS Connect V2.1**
 - ▶ PING support
 - Determines IMS Connect availability
 - ▶ J2EE XA Two-phase Commit Support
 - Distributed environments
 - z/OS environments across TCP/IP
 - ▶ SSL support
 - Enhanced security control
 - ▶ Commit mode 0 – persistent socket support
 - PQ80468


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IMS Connect V2.2

- **Commit Mode 0 Enhancements**
 - ▶ Persistent socket support (delivered in V2.1 with PQ80468)
 - Extends Commit_then_Send, Sync_Level=confirm to persistent sockets
 - ▶ Purge not deliverable support
 - Mechanism to remove an output message that cannot be delivered to the remote client is removed from the IMS message queue
 - New IRM_F3_PURGE (X'04) flag requested by the remote client
- **Undeliverable DFS554 message support in a switched to program**
 - ▶ Scenario
 - PGM A inserts to IOPCB and to PGM B using ALTPCB
 - PGM B abends
 - DFS554 message is queued to a TPIPE equal to the IMS Connect port number – message cannot be delivered
 - ▶ Enhancement changes the TPIPE name to the original clientid


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IMS Connect V2.2 ...

- **New IMS Connect z/OS (MVS) commands**
 - ▶ Modify command support - "F jobname,command"
 - ▶ Where command is in the format verb resourcetype keyword(value)
 - Verbs are: QUERY, UPDATE, SHUTDOWN, DELETE
 - Resourcetypes are: DATASTORE, PORT, MEMBER and UOR
 - Keyword and values: represent attributes, filters, etc. that apply to the command
 - E.g., F IMSCONN, QRY DATASTORE(IMSP) SHOW (ALL)
- **New RESUME_TPIPE single with wait option**
 - ▶ New flag IRM_F5_SWAIT to allow a wait for a single message if none are currently queued in IMS
 - Existing flag IRM_F5_ONE requests a single message, if none are available then a timeout occurs
- **Support for a new product IMS Connect Extensions (5655-K48)**
 - ▶ Event recording for performance and data analysis
 - ▶ User Exit HWSTECLO provided by IMS Connect

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IMS Connect Extensions

- **Event Collection and Recording**
 - Enhances and augments the services of IBM IMS Connect:
 - Receives notification of significant events, as transactions are being processed by IMS Connect
 - Collects and reports on performance-monitoring and system availability data
- **Transaction Routing and workload balancing**
 - Allows for dynamic transaction routing to alternative datastores and workload balancing
 - Supports pacing of incoming messages to datastores to prevent overloading
- **Security Improvements**
 - Optional verification of user access to IMS Connect
 - Enhanced performance of userid/password validation by keeping ACEEs in memory
- **Dynamic addition, reload, deletion, disabling or enabling of user exits**

■ **Requires IMS Connect 2.2**

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IMS Performance Analyzer V3 R3

- **New release in June 2004**
- **Standard for IMS Resource and performance management from IMS Log, IMS Monitor and IMS Connect journal***


- NEW reports and features that include comprehensive reporting for IMS Connect Extensions for z/OS event collection
- NEW Dashboard report that provides quick overview of critical system performance indicators springboard to other reports;
- NEW BMP Checkpoint report that measures batch checkpoint frequency that can impact online performance and system restartability;
- NEW Transaction History File which allows you to collect detailed transaction performance data and export it into DB2
- Improved Report Analysis that provides additional information to aid in the interpretation of reports.


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IMS Problem Investigator – What's New in June 2004?


- **New Function has been added to IMS PI V1.1 by APAR PQ83423**
 - ▶ Integration with IMS Performance Analyzer
 - Shared system and group definitions
 - ▶ Batch reporting/extracting for logs from multiple IMS systems in a group
 - ▶ Tracking Enhancements
 - Backwards as well as forwards when viewing records
 - Tracking available in batch reporting/extracting
 - ▶ Enhanced function keys when viewing detailed fields of a log record
 - Move to next or previous record
 - Track backwards or forwards
 - ▶ Filtering Enhancements
 - Filter can exclude log record types (used together with log code "ALL")
 - Dynamically exclude log record type whilst viewing log records
 - Dynamically stop filtering, change to a new filter or edit the current filter whilst viewing log records

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- **The past year has seen IBM's IMS Tools Evolution continue**
 - ★ **New Tools**
 - ★ **New Versions**
 - ★ **New Releases**
 - ★ **New Function APARs**
- **The evolution is set to continue**
 - ★ **More announcements coming soon!**

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