

Informix Feature List

11.70.XC2
Installation
Enhanced installation application (Linux, UNIX)
Administration
New event alarms
Returned MAX_PDQPRIORITY value to the SNMP rdbmsSrvParamTable
New SQL administration API
Application Development
Improved results of basic text search queries
Table and column aliases in DML statements
Case-insensitive queries on NCHAR and NVARCHAR text strings
Embeddability
Embedding Informix software without root privileges (UNIX, Linux)
Deploying an RPM image of Informix
OAT
Enhancements to the OpenAdmin Tool
Enhancements to the Schema Manager
Performance
Improve network connection performance and scalability
Warehousing
Informix Warehouse Accelerator
11.70.XC1
Installation
Installation application provides seamless installation and smarter configuration

Changes to installation commands (UNIX, Linux, Mac)
Changes to installation commands (Windows)
IBM Data Server Driver Package integrated into installation application
Simpler configuration for silent installation
Migration
New default behavior during upgrades
Upgrading a high-availability cluster while it is on line
dbschema utility omitting owner
dbexport utility omitting the owner
System schema for dbschema
Administration
Automatic storage provisioning ensures space is available
Backup and restore is now cloud aware
Easier event alarm handling
Defragmenting partitions
Automatically optimize data storage
Automatically terminate idle sessions
Notification of corrupt indexes
Prevent the accidental disk initialization of your instance
Increased the number of extents
MQ messaging enhancements
Session-level control of how much memory can be allocated to a query
Deferred extent sizing of tables created with default storage specifications
Environment variable enables invalid character data for load utilities

New onconfig parameter to specify the default escape character
Tool for collecting data for a problems
Application Development
Database extensions are automatically registered
Spatial data type and functions are built in and automatically registered
Time series data types and functions are built-in and automatically registered
File seek position for large files
Faster basic text searches on multiple columns
Virtual processor is created automatically for XML publishing
SQL expressions as arguments to the COUNT function
Specifying the extent size when user-defined indexes are created
Syntax support for DDL statements with IF [NOT] EXISTS conditions
Simplified SQL syntax for defining database tables
Debugging Informix SPL routines with Optim Development Studio
Embeddability
Information about embedding Informix instances
Enhanced utility for deploying Informix instances
Tutorial to deploy and embed Informix
Deployment assistant simplifies snapshot capture and configuration

Informix Feature List

Enhanced ability to compress and to extract compressed snapshots
Improved return codes for the oninit
Sample scripts for embedding IBM Informix 11.70 database servers
Enterprise Replication
Create a new replication domain by cloning a server
Add a server to a replication domain by cloning
Automating application connections to Enterprise Replication servers
Replicate tables without primary keys
Set up and manage a grid for a replication domain
Handle a potential log wrap situation in Enterprise Replication
Improved Enterprise Replication error code descriptions
Repair replication inconsistencies by time stamp
Temporarily disable an Enterprise Replication server
Synchronize all replicates simultaneously
Monitor the quality of replicated data
Enhancements to the Replication plug-in for OAT
High-availability
Quickly clone a primary server
Transaction completion during cluster failover
Running DDL statements on secondary servers

Monitoring high-availability servers
Running dbschema, dbimport, and dbexport utilities on secondary servers
Performance
Less root node contention with forest of trees indexes
Fragment-level statistics
Automatic detection of stale statistics
Query optimizer support for multi-index scans
Improving performance by reducing buffer reads
Automatically add CPU virtual processors
Large pages support on Linux
Improve name service connection time
Faster C user-defined routines
Automatic light scans on tables
Alerts for tables with in-place alter operations
Reduced overhead for foreign key constraints on very large child tables
Security
Trusted connections improve security for multiple-tier application environments
Selective row-level auditing
Simplified administration of users without operating system accounts (UNIX, Linux)
Warehousing
Query optimizer support for star-schema and snowflake-schema queries
Partitioning table and index storage by

a LIST strategy
Partitioning table and index storage by an INTERVAL strategy
Improved concurrency while redefining table storage distributions
11.50.XC8
Administration
File seek position for large files
SNMP support for Windows 64-bit
High-availability
Locking tables from updatable secondary servers in a cluster
Configuring log flow control for RS secondary servers
11.50.XC6
Administration
Connection Manager Proxy Support
External Backups on RS Secondary Servers
Dynamically Start, Stop, or Restart Listen Threads
Improved Transaction Information
SQL Administration API Portal: Arguments by Functional Categories
View Event Alarms in the Scheduler
Enhancements to the OpenAdmin Tool for Informix
Enhancements to the Schema Manager plug-in for the OAT
Application Development
ALTER FRAGMENT Operation Can Now Force Out Transactions
RETAINUPDATELOCKS Environment Option
Enhancements to Merging Information into a Target Table with the MERGE Statement
New Column Size Field Format for CDC

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Records
Enterprise Replication
Enable or Disable Enterprise Replication Event Alarms
Enhancements to the Enterprise Replication plug-in for the OpenAdmin Tool for Informix
High-availability
XA Transaction Support for Updatable Secondary Servers in a High-availability Cluster
Installation
Simplified Deployment of an Informix Instance (Windows)
Dynamic dbspace Relocation when Deploying Snapshots (Windows)
Deploying Instances with the Deployment Utility
Installing Informix by Using an RPM package (Linux)
Migration
Migrating or Upgrading High-availability Clusters
Upgrading to a New Server or Fix pack
Quickly Reverting to Your Source Server After a Failed Upgrade
Performance
Light Scans on Tables
Process Multiple Basic Text Search Queries Simultaneously
Warehousing
Load and Unload Data with External Tables
11.50.XC5
High Availability
Configuring RS Secondary Server Latency for Disaster Recovery
Administration

Deploying Informix with the Deployment Utility (Windows)
Forcing the Database Server to Shut Down
Enhanced Support for Multibyte Character Strings
Upgrading to Informix v11.50.xC5 in Silent Mode (Windows)
New default for the INFORMIXTERM onconfig Portal: Configuration Parameters Listed by Functional Categories
onstat Portal: onstat Commands Listed by Functional Categories
Enhancements to the Enterprise Replication plug-in for the OAT for Informix
Application Development
Hierarchical Queries
Enterprise Replication
Enterprise Replication Stops if Memory Allocation Fails
Improving the Performance of Checking or Synchronizing Replicate Sets (Windows)
Notification of an Incorrect Log Position When Enterprise Replication Restarts
Improving the Performance of Consistency Checking with an Index
Specifying the Range of Data Sync Threads to Apply Replicated Transactions
Warehousing
Loading Data into a Warehouse with the MERGE Statement
Configuring RS Secondary Server Latency for Disaster Recovery
Deploying Informix with the Deployment Utility (Windows)
Forcing the Database Server to Shut Down
Enhanced Support for Multibyte Character Strings
Upgrading to Informix v11.50.xC5 in Silent

Mode (Windows)
New default for the INFORMIXTERM environment variable for terminal set up on UNIX
onconfig Portal: Configuration Parameters Listed by Functional Categories
onstat Portal: onstat Commands Listed by Functional Categories

11.50.xC4
High Availability
High Availability Enabled on Windows 64-bit Operating Systems
Administration
Save Disk Space by Compressing Data
Improved Options for Specifying Processor Affinity
Enhanced Startup Script Customization
Disable IPv6 Support
Enhancements to the OpenAdmin Tool (OAT) for Informix
ONINIT_STDOUT environment variable allows capturing oninit output (Windows)
Generating a Customized Database Server Configuration File
Upgrade Informix by Overwriting the Existing Installation (Windows)
Changing how Informix searches for user names (Windows)
Enterprise Replication
Generate ATS and RIS Files in XML Format for Custom Repair Scripts
Prevent Upserts During Conflict Resolution
New Event Alarms for Enterprise Replication
Monitor the Progress of a Consistency Check or a Direct Synchronization
Specify Duration of a Consistency Check
Schedule Synchronization or Consistency

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Checking Operations
Improve Consistency Checking Performance
Improve the Performance of Checking or Synchronizing Replicate Sets (UNIX)
Role separation for Enterprise Replication (UNIX)
Enhancements to the Enterprise Replication for the OpenAdmin Tool (OAT)
Performance
Enable Concurrent I/O to Improve Performance on AIX Operating Systems
IFX_LARGE_PAGES Environment Variable (AIX, Solaris)
Application Development
DataBlade Module Registration through SQL
Control the Results of a Fuzzy Search with the Basic Text Search DataBlade Module
Map Characters for Indexing with the Basic Text Search DataBlade Module
Default Boolean Operator in Basic Text Search Queries
Temporary file for Basic Text Search
Track Basic Text Search Query Trends
Fragment bts Indexes by Expressions
Monitor Change Data Capture Sessions
View Change Data Capture Error Message
Security
Automatic Check for Installation Path Security (UNIX, Linux, Mac OS X)
Utility to Enhance the Security of the Informix Installation Path

11.50.xC3
Administration
Performing Unattended Installations on Mac OS X

Setting up Data Source Names on Mac OS X
Using the SQL Administration API to Update Configuration Parameters
Dynamically Updating Configuration Parameters
Dynamically Updating Enterprise Replication Configuration Parameters
Improved Consistency Reporting after Enterprise Replication Repair Operations
Administering Enterprise Replication with the SQL Administration API
Improved SQL Tracing with the SQL Administration API
Performance
Changing the Size of the First Extent of a Table
Application Development
Rolling Back SQL Transactions to a Savepoint
Capturing Transactional Data with the Change Data Capture API
Basic Text Search DataBlade Module Supports High-Availability Clusters
Querying XML Attributes with the Basic Text DataBlade Module
Setting the Frequency of Error Checking for Smart Large Object Transmission

11.50.xC2
High Availability
Reconfiguring Connection Manager
Administration
Multiple Copies of Informix on the Same Windows Computer
Enhanced Installation Application on Mac OS X
Controlling Memory Use during Enterprise Replication Synchronization

Obtaining Informix Version Information From the cdr Utility
Monitoring Enterprise Replication with New SMI Tables
Monitoring the Whole Enterprise Replication Domain
Preventing ATS or RIS File Generation
The ISM Administrator Program is Included with Storage Manager on Windows
Limiting the Number of Sessions That Can Connect to Dynamic Server
New Format for Backup Filters
Enhancements to the OpenAdmin Tool for Informix
Performance
Controlling I/O of B-Tree Indexes with Compression Levels
Application Development
Subquery Support in UPDATE and DELETE Statements
Longer Return Strings from String Manipulation Functions
Security
Server-Specific Audit Configuration File Functionality

11.50.xC1
High Availability
SQL Administration API Commands to Configure High-Availability Clusters Added
Enhanced Connection Management for High-Availability Clusters
New Options to Troubleshoot High-Availability Clusters
Update Data on Secondary Servers
Support for Transient Types on High-Availability Cluster Secondary Servers
Administration

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Enhanced Configuration Options During Installation
Install as the Local System Account support added (Windows)
Data Server Client Session Information
Improved onconfig.std File and New Default Values for Configuration Parameters
Enhancements to the OpenAdmin Tool for Informix
Enhanced Shared-Memory Dump File Size Control
Enhanced Startup Script Customization
New Options for Configuring Storage Space Monitoring
Updating Table Statistics with AUS Scheduler Tasks
Performance
Control External Directives for a Session
Improved Query Performance for Large Integers and Serial Data
Support for Obtaining Explain Output in XML Format Added
Application Development
DRDA Protocol Configuration During Installation Added
SQL Expressions with the IS [NOT] NULL Predicate
Data Currency with a Version Column
Distributed Relational Database Architecture Enhancements
J/Foundation Upgraded to JRE 5.0
Improvements to the Basic Text Search DataBlade module
Dynamic SQL Statements in SPL Routines
New Support for Extensible Stylesheet Language Transformation (XSLT)
Security
Single Sign-on Support Added

Support for Encrypting Data by Using Secure Sockets Layer (SSL) Communications
11.10.xC1
Scalability, High Availability, and Performance
Multiple Remote Standalone Secondary Servers
Multiple Shared Disk Secondary Servers Backup & Restore to Directories with ontape
Continuous Logical Log Restore
Encrypted Communications for HDR
Improved Parallelism during Backup and Restore
Automatic Ordering of dbspaces during Backup and Restore
RTO Policy to Manage Server Restart
Nonblocking Checkpoints
Performance Improvements for Enterprise Replication
ON-Bar Performance Report
Transform Data during Backup and Restore
Improved Performance with Direct I/O
Performance of Online Index Creation
Administration
SQL Administration API
Schedule Administrative Tasks
Analyze Recent SQL Statements
Dynamically Change Enterprise Replication Configuration Parameters
Dynamically Rename Enterprise Replication Columns, Tables, & Databases
Truncate Replicated Tables
Improved Statistics Maintenance
Installation Improvements on Windows

Session Configuration Routines
Multiple Users for Administration Mode
PHP OpenAdmin Tool for IBM Informix
Integrated Solutions
Named Parameters in a JDBC CallableStatement
Index Binary Data Types
Trigger Enhancements
Derived tables in the FROM Clause of Queries
Index Self-Join Query Plans
Optimizer Directives in ANSI-Compliant Joined Queries
Deployment Wizard
Enhanced Concurrency with Committed Read Isolation
Enhanced Data Types and UDR Support in Cross-Server Distributed Operations
XML Publishing
Index Hierarchical Data
Basic Text Search
Improved Concurrency with Private Memory Caches for Virtual Processors
Web Feature Service for Geospatial Data
Support for Data Server Clients with DRDA
Statement Labels, GOTO, and LOOP Statements in the SPL language
New SQL Functions
Automatic Re-Compilation of Prepared Statements
Security
Label-Based Access Control
10.00.XC4
TRUNCATE Table support
Enterprise Replication Direct Synchronization

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Enterprise Replication Consistency Checking
Enhanced Support for IPv6
Secure Local Connections
Secure DataBlade Module Paths
DB-Access Stops After the First Error
Informix Interface for Tivoli Storage Manager Supports HP-UX (Itanium)
New Default for IFX_EXTEND_ROLE Configuration Parameter

10.00.xC3
ANSI-Joins in Distributed Queries
Transaction Support for XA-Compliant External Data Sources
MQ DataBlade module
Restricting Database Creation
Secure DUMPDIR Configuration Parameter Default Directory
Table-Level Restore Support for Smart Large Objects
AES Ciphers for Network Encryption
Enterprise Replication Statistics Commands
CSDK Included in IBM Informix Installation
Enhanced Support for Retrieving Subsets of Query Results
Returning Subsets of Query Results as Collection-Derived Tables
J/Foundation Upgraded to JRE 1.4.2
Secure ADTPATH Configuration Parameter Default Directory
UNSECURE_ONSTAT Configuration Parameter

10.00.xC1
Security enhancements
Column-Level Encryption

Server Utilities Check for Secure Environment Before Starting
Restricting Registration of External Routines
Preventing Denial-of-Service Attacks
Server usability enhancements
Configuring Page Size
Defining Buffer Pools
Managing the tblspace tblspace
Administering the Database Server in Single-User Mode
Managing Database Permissions Through Default Roles
Renaming Dbspaces
Specifying Which Events Trigger the Alarm Program
Shared Memory Size Greater Than 4 GB
Setting Up HDR with External Backup and Restore
Replicating Indexes to HDR Secondary
Automating HDR Failover
Determining Version Information
IBM Informix Server Administrator Enhancements
IPv6 Format for IP Addresses Support
Performance enhancements
Allocating Memory for Non-PDQ Queries
Storing and Applying External Optimizer Directives
Storing Multiple Table or Index Fragments in a Single Dbspace
Recovering Quickly with Fuzzy Checkpoints
Dynamically Setting the OPTCOMPIND Environment Variable
SQL enhancements
Online Create & Drop Index
Enterprise Replication enhancements

Master Replicates
Replicate Templates
Performing Synchronization and Repair
Altering Replicated Tables
Remastering
Detecting Event Alarms with the Event Alarm Program
Suppressing DataSync Warning and Error Messages
Backup and restore enhancements
Performing Point-In-Time Restores of Tables with Archecker
View Logical Logs Backed Up by ON-Bar
Enhanced Debugging for ON-Bar
The ontape Utility Can Use Standard I/O
External Backup & Restore Using ontape
Storage enhancements
Using Long Identifiers with the High-Performance Loader
Informix Interface for Tivoli Storage Manager
Extensibility enhancements
Obtaining Information From Trigger Executions
Manipulating Built-in Opaque Data Types In Remote Tables