



MITS Discover is a full-featured OLAP Business Intelligence System that gives users the power to gather, manage, distribute and analyze data

MITS Discover Lite Edition:

The Lite Edition of MITS Discover version 7.0 is designed to be an affordable offering suitable for installations with straight-forward business rules and transaction volumes.

Hypercube Definition, Population and Maintenance

- **Maximum Hypercube Definitions:** Five
- **Extraction Engine** - Access data and program logic natively within a MultiValue (MV) environment
- **Data Dictionary Support** - Extract data using existing or additional dictionaries, including: I-Descriptors/Virtual Fields/Function Correlatives, subroutine calls and named common
- **MultiValue** - Specify an associated set of multi-values and iterate through the set during the extraction
- **Pre- and Post-Process** - Automatically trigger a MV program before and/or after extraction. This process is used for staging data, preparing the environment or cleaning up afterwards
- **Transformation Engine** - Populate (build) OLAP Hypercubes designed using the MITSMaker hypercube design tool by extracting data directly from the MV database
- **Hypercube Resolution** - Summarize data by calendar month, quarter and year. Daily and weekly resolution are not available
- **Scheduler** - Run OLAP transformations or any other programs that can be executed at TCL on a flexible, recurring schedule
- **Easy Date Handling** - By specifying a date field MITS Discover will automatically create and maintain date-related columns such as year-to-date and back-one-month
- **Relative Eons** - Automatically adjust the date range of columns as new transactions are added to the Hypercube. For example, as transactions for a new month are added to the hypercube the necessary columns are automatically created.
- **Dynamic Identifier Descriptions** – Data row descriptions can be read from the MV database at the time the report is created, with full support for the MITS expression language
- **External Fields** - Link to other fields in the identifier description file at query time with results coming directly from the MV system
- **Accumulations** - Aggregate totals at every drill-down level based on numeric values in the source data
- **Configurable Columns** - Expression-based support for accumulated totals, math functions, MultiValue subroutine calls, formatting, labeling, dynamic date handling, user-friendly descriptions and configurable bottom-total behavior (using templates)
- **Incremental Update** - Update historical Hypercubes with new transactions, automatically adjusting column dates based on the new transaction dates
- **UniObjects Support** – Used as an alternative to the telnet connection protocol, UniObjects provides better speed and reliability when connecting to UniVerse or UniData

Hypercube Interaction and User Interface

- **Desktop Client** - Access Hypercube data through a direct connection to MitsServer
- **Web-based user interface** - MitsWeb accesses Hypercube data through a web browser. Strictly HTML and JavaScript, no browser plug-in required, most modern browsers are supported
- **User Authentication** - Restrict access to MITS Discover by username and password (no row, column or feature security)
- **Help System** - Integrated HTML help for all features
- **Ad-Hoc Query** - Create new flash screens (reports) using a simple dialog
- **Flash Screen Library** - Manage flash screens by saving them for later use or make them available to other users in a **single shared library**. Users can also toggle detailed information about flash screen content and export flash screen results directly from the Flash Screen Library
- **Display formatting** - The display of the report can be modified in a number of ways including: Toggle row ID's, Identifier tags, zero rows and bottom totals. The user can modify the flash screen heading as well as set the number of rows per page. The user can also break between identifier values and suppress top totals
- **Clip** - Truncate rows from a flash screen to identify top/bottom performers
- **Paging** - Navigate forward and backward through the flash screen results and set the number of rows to display on each page
- **Charting** - Create standard or inverted bar, line, stacked bar, area or pie charts. Chart title and axis labels can also be modified
- **Printing** - Choose from printing an entire report or just the rows displayed
- **Export** - Export the flash screen (PDF, Excel, CSV and TXT formats supported) optionally, repeat identifier values for upload into a database
- **Drill-Down Methods**
 - Expand a single row, showing all values by the governing identifier
 - Expand a single row, showing only selected values of the governing identifier
 - Expand all rows, showing all values by the governing identifier
 - Expand all rows, showing only selected values of the governing identifier
- **Column manipulation**
 - Sort Ascending or Descending
 - Ad-Hoc column insertion and removal
 - Insert column functions - trends, differences, average, percentage of total and math functions - supports user-defined extensions
 - Expand column to display underlying eons
 - Break on value
 - Summarize on value
- **Column Sets** - Swap out displayed columns with an entirely new group in one step
- **Column Filters** - Apply multiple filters to multiple columns using logical operators

MITS Discover Standard Edition:

The Standard Edition is designed for companies that require a greater level of flexibility in terms of how business rules are represented in the Hypercube. The ability to update Hypercubes incrementally, dynamically and/or continuously, to define drill-down paths in advance, to accommodate custom fiscal periods, to drill down to detailed transactions and the addition of a robust user-level security model are all significant features of this edition.

All features from the Lite Edition plus:

- **Maximum Hypercube Definitions** - Unlimited
- **Operations** - Execute MV code and call MV subroutines during data extraction, applying business rules or other program logic
- **Date Index** - Efficiently select data to add to a Hypercube by date range
- **Continuous Transformation** - Update Hypercubes throughout the production day, providing near-real-time access to summarized totals
- **Multiple Flash Screen Libraries** - Create and manage multiple Flash Screen Libraries, useful for security and organizational purposes

- **Column level security** - Grant or deny access to Flash Screen Libraries, Hypercubes, columns and other program features such as export and delete on a user-by-user or group basis
- **Dynamic Change Update** - Detect changed data in the source file and update Hypercubes to incorporate those changes. Also allows for removing and replacing individual transactions
- **Purge Data** - Remove historical data, based on date ranges, from a Hypercube
- **Identifier Sorting** - Specify and control the default sort order for drill-down results
- **Flexible Hypercube Resolution** - Summarize data by month or fiscal period based on flash screen or disk-space requirements
- **Configurable Drill-Down Levels** - Define drill-down paths through various summarized totals, representing actual business processes
- **Add or Remove Drill-Down Paths** - Add or remove drill-down paths from an existing Hypercube without rebuilding it completely
- **File Spans** - Scale a Hypercube over multiple date-related files
- **Custom Fiscal Periods** - Tie into and support existing complex fiscal calendars
- **Propagate Hypercube Definitions** - Create Hypercube definitions on a development system and deploy them on a production system
- **Detail Display** - Track the transactions used at each summarized level and display them at run time. This includes full extraction support for detail-display columns including dictionary, I-descriptor and operations
- **Detail Display Sorting** - Sort columns in the detail display in ascending or descending order
- **Detail Display Export** - Export the detail display (PDF, Excel, CSV and TXT formats supported)

MIT S Discover Premium Edition:

The Premium Edition is designed for organizations planning a wide deployment of the MIT S Discover product. This edition features the ability to embed HTML in the detail-display, provide links to other applications and remotely update the user security model, through an API. It also allows users to build flash screens from multiple Hypercubes and provides more advanced security features.

All features from the Lite and Standard Editions plus:

- **Detail Display HTML Rendering** - Embed detail display cell results in arbitrary HTML. This feature can be used to link back to a source application or any valid URL
- **Flexible appearance** - Modify or customize the user interface appearance with Cascading Style Sheets
- **User Authentication API** - Integrates with existing user security provisions. The user database can be updated remotely through a provided API
- **Row Level Security** - Control user's access to rows relevant to their area of responsibility. This means one flash screen can show different data for different users based on their individual security settings. Administrators can also restrict access to rows at any level of a drill-down path
- **Additional Hypercube Resolution** - Summarize data by daily and weekly resolution
- **Link Between Multiple Cubes** - Display columns from related Hypercubes with similar identifiers
- **Single Sign-On** - Pass or receive user authentication from third-party software for seamless integration with other applications

The Lite, Standard and Premium Editions of MIT S Discover are recommended for up to 100 named users