

IBM Cognos TM1
Version 10.2.0

New Features Guide



Note

Before using this information and the product it supports, read the information in "Notices" on page 13.

Product Information

This document applies to IBM Cognos TM1 Version 10.2.0 and may also apply to subsequent releases.

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Contents

Introduction	v
IBM Cognos TM1 10.2.0 new features	1
Mobile app for Cognos TM1 version 10.2.0	1
Installation requirements in Cognos TM1 version 10.2.0	1
New Cognos TM1 Scorecarding in version 10.2.0	2
Cognos TM1 Server features in version 10.2.0	2
Improve performance with multi-threaded queries.	2
Cell-level security.	2
New TurboIntegrator functions added	3
Cognos TM1 Web based on Java web application server	3
Conversion tool for Microsoft Excel .xls files.	3
Cognos TM1 Performance Modeler new features in version 10.2.0	3
Cube calculation	4
Feeder Optimization.	4
Data flow diagrams	4
Improved transfer of model objects and applications	4
Views specified for reviewers or contributors	5
Reuse of approval hierarchies.	5
TurboIntegrator processes triggered from workflow actions.	5
Cognos TM1 Applications Maintenance Utility	6
Import Cognos Planning models into Cognos TM1	6
Drill-through	6
Full picklist capability	6
Easier access settings	6
Link editing improvements	6
New Cognos TM1 Applications features in 10.2.0	7
Cognos Configuration for Cognos TM1 Application server	7
Enable or Disable a TM1 server	7
New email notification with DLS	7
Purged commentary	7
New features for Cognos TM1 Operations Console version 10.2.0.	7
A new URL to run the Cognos TM1 Operations Console.	7
Default group added	8
Alerting and email notifications	8
Store and reload the state of the monitor	8
More events can be logged	8
Watchdog can send email and alerts based on the server state	8
Automatic and scheduled logging now available for the Cognos TM1 Applications Server	8
Share server log schedules in the Cognos TM1 Operations Console version 10.2.0	8
Start Performance Statistics from the Cognos TM1 Operations Console version 10.2.0	8
Simplified automatic logging is now available with the Log to Disk options	8
New features in IBM Cognos Analysis for Microsoft Excel version 10.2.0	9
New Cognos Insight features in Cognos TM1 version 10.2.0	9
Print and export workspaces	9
Combination charts	9
Work with attributes	10
Spread data	10
Support for bidirectional languages	10
Support for digit shaping.	10
Import external data	10
Drill through to view details.	10
Distributed mode improvements	11
Scorecards	11

Notices 13
Index 17

Introduction

IBM® Cognos® TM1® version 10.2.0 provides performance and scalability features.

IBM Cognos TM1 integrates business planning, performance measurement, and operational data to enable companies to optimize business effectiveness and customer interaction regardless of geography or structure. Cognos TM1 provides immediate visibility into data, accountability within a collaborative process and a consistent view of information.

Finding information

To find IBM Cognos product documentation on the web, including all translated documentation, access one of the IBM Cognos Information Centers (<http://pic.dhe.ibm.com/infocenter/cogic/v1r0m0/index.jsp>). Release Notes are published directly to Information Centers, and include links to the latest technotes and APARs.

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Accessibility features

Accessibility features help users who have a physical disability, such as restricted mobility or limited vision, to use information technology products. IBM Cognos TM1 Performance Modeler, IBM Cognos Insight, and Cognos TM1 Operations Console have accessibility features. For more information, see the documentation for these products. IBM Cognos TM1 does not currently support accessibility features.

Forward-looking statements

This documentation describes the current functionality of the product. References to items that are not currently available may be included. No implication of any future availability should be inferred. Any such references are not a commitment, promise, or legal obligation to deliver any material, code, or functionality. The development, release, and timing of features or functionality remain at the sole discretion of IBM.

IBM Cognos TM1 10.2.0 new features

The following new features are found in version 10.2.0 of IBM Cognos TM1.

Mobile app for Cognos TM1 version 10.2.0

IBM Cognos TM1 Mobile Contributor is a new mobile application for the Apple iPad.

The Cognos TM1 Mobile app connects to an IBM Cognos TM1 Server and coexists with other desktop and web programs that connect to the same server. Use the Mobile app to do the following tasks:

- Access all planning applications from Cognos TM1 Applications.
- View submission status for all approval nodes.
- Interact with cube views in a grid or chart format.
- Change values on the iPad and submit back to the plan where the data is updated on the Cognos TM1 server.

For more information, see “Deploying Cognos TM1 Mobile Contributor” in the *IBM Cognos TM1 Installation and Configuration Guide*.

Installation requirements in Cognos TM1 version 10.2.0

The following new features are part of IBM Cognos TM1 version 10.2.0.

- Microsoft Visual C++ Redistributable 2010
- Microsoft .NET Framework 2.0 or higher is needed only for the Cognos TM1 Architect expanded rules editor.

Cognos TM1 Web uses Java™

IBM Cognos TM1 Web now runs on a Java web application server such as Apache Tomcat. So you no longer need Microsoft Internet Information Services and the Microsoft .NET Framework. By default, the Cognos TM1 installation configures Cognos TM1 Web to use the Apache Tomcat web application server that is provided with the Cognos TM1 installation.

For more information, see the *IBM Cognos TM1 Installation and Configuration Guide*.

Translated documentation

During installation, you can choose to install only the specific language translation of the online documentation that you need. This change can reduce installation time.

The English translation of the online documentation is installed by default.

To choose a different language for the online help, during installation expand the Translated Documentation node and select the other languages that you want to install.

When any additional language translations are installed, Cognos TM1 detects the language to use for online help based on your environment settings. For example, if you installed the French translated documentation and your browser settings are set to French, the online help is in French.

The Installation Language Selection setting on the first screen of the installation wizard defines the language for the installation wizard only. The language that is used for the Cognos TM1 software is determined by the language settings in your operating system software and in the Cognos TM1 `tm1s.cfg` configuration file.

For more information about how Cognos TM1 detects which language to use, see the "Cognos TM1 language configuration" topic that is found in the "Advanced configuration" chapter of the *IBM Cognos TM1 Installation and Configuration Guide*.

More languages available

Dutch, Slovenia, and Thai versions of the IBM Cognos TM1 software and documentation are now available.

New Cognos TM1 Scorecarding in version 10.2.0

Scorecarding with Cognos TM1 integrates scorecarding and strategy management capabilities into Cognos TM1 to provide better integration of Performance Management with planning.

You can create scorecard solutions that contain interactive impact diagrams, strategy maps, and custom diagrams that monitor your key performance indicators (KPIs). The underlying data is stored in Cognos TM1 and can be published to users in IBM Cognos Insight, IBM Cognos TM1 Web, and IBM Cognos Workspace as interactive dashboards. A metrics dimension and metrics indicator dimension form a metrics cube. The metrics cube is used to store and manage the data used to generate impact diagrams, strategy maps, and scorecarding diagrams.

For more information, see "Cognos TM1 Scorecarding" in the *IBM Cognos TM1 Performance Modeler Guide*.

Cognos TM1 Server features in version 10.2.0

The following new features were added to the IBM Cognos TM1 Server version 10.2.0.

Improve performance with multi-threaded queries

You can potentially improve the processing performance of queries by allowing them to split into multiple processing threads.

Multi-threaded queries allow IBM Cognos TM1 to automatically load balance the application of cores by running each query on a separate core. This multiple processing can improve efficiency and processing time for large queries and rules.

For more information, see the "System and Feature Configuration" chapter of the *IBM Cognos TM1 Operation Guide*.

Cell-level security

Cubes can now use a reduced number of cells to assign security.

Cell Security cubes are no longer required to reflect the full dimensionality of the parent cube to which they refer plus the mandatory }Groups dimension.

Cognos TM1 version 10.2.0 modelers can define a Cell Security cube that uses only a subset of the dimensions of the parent cube in addition to the mandatory }Groups dimension.

Existing Cell Security cubes created in previous releases continue to function and behave as before. You can still choose to create a Cell Security cube using the full dimensionality of the parent cube.

For more information, see the “TurboIntegrator Functions, Security TurboIntegrator Functions” chapter of the *IBM Cognos TM1 Reference Guide*.

New TurboIntegrator functions added

The following TurboIntegrator functions were added to the 10.2.0 version of the documentation:

- ServerSandboxGet
- ServerSandboxExists
- ServerSandboxListCountGet
- AssociateCAMIDToGroup
- RemoveCAMIDAssociationFromGroup
- RemoveCAMIDAssociation
- CellSecurityCubeCreate
- CellSecurityCubeDestroy

For more information, see the “TurboIntegrator Functions, Security TurboIntegrator Functions” chapter of the *IBM Cognos TM1 Reference Guide*.

Cognos TM1 Web based on Java web application server

The IBM Cognos TM1 Web component now uses Java.

The Java TM1 Web can improve performance by requiring less network traffic and offering client-side rendering. The result is less memory intensive demands on the web server. Also, Microsoft Excel no longer must be installed on web server computers.

For more information, see the *IBM Cognos TM1 Installation and Configuration Guide*.

Conversion tool for Microsoft Excel .xls files

The Microsoft Excel conversion tool can convert Microsoft Excel 2007 or higher worksheets into OpenXML format.

For more information, see the *IBM Cognos TM1 Installation and Configuration Guide*.

Cognos TM1 Performance Modeler new features in version 10.2.0

The following new features are in the IBM Cognos TM1 Performance Modeler version 10.2.0.

Cube calculation

IBM Cognos TM1 version 10.2.0 includes cube calculation.

You can define a calculation that can be scoped across the full dimensionality of a cube. Cube calculations are a way of simplifying the creation of rules to complete common modeling operations, such as managing and maintaining the model. You can add a calculation to make your model meaningful by deriving more information from the data source.

For more information, see “Creating Cubes” in the *IBM Cognos TM1 Performance Modeler User Guide*.

Feeder Optimization

IBM Cognos TM1 version 10.2.0 includes new feeder optimization features in Cognos TM1 Performance Modeler.

With IBM Cognos TM1 Performance Modeler, you can now automatically generate a proposed set of feeders for the cubes in the model. The generated feeders can come from manually or automatically generated rules from calculations and links. You can also export a Feeder analysis report to see what feeders are proposed, without actually writing feeders to the model.

For more information, see the "Managing rules and feeders" chapter in the *IBM Cognos TM1 Performance Modeler Guide*.

Data flow diagrams

In Cognos TM1 Performance Modeler version 10.2.0, you can see a graphical flow diagram that maps the flow of data from cube-to-cube in a model.

You can apply an automatic layout for your model diagram or you can set your own layout. Cubes can be grouped for ease of viewing, and you can open cubes and links from the data flow diagram. Use the data flow diagrams to more easily visualize the structure of your Cognos TM1 cubes and dimensions.

For more information, see the *IBM Cognos TM1 Performance Modeler Guide*.

Improved transfer of model objects and applications

With the Transfer Specification Editor, you can better manage which objects are copied from a source system to a target system.

The management of the transfer process was improved in the following ways:

Transfer Specification Editor

You can use the intuitive editor to select specific model objects or applications to copy from a source system to a target system. You can preview the transfer to change selections before the transfer.

Better handling of model object dependencies

Even if you are not familiar with the business logic of an application, you can copy the model object and its dependencies to ensure that all the required elements for a cube are transferred.

Creating transfer specifications

You can define the model structure that you want to transfer by saving the selection of objects as a transfer specification. By using the transfer

specification, modelers, contributors, or other authorized users can run the transfer process at scheduled intervals.

Automating the transfer process

You can create a batch file that is based on the definition of a transfer (transfer_specification.json) and use the command-line utility to run the transfer process at a scheduled time.

Transferring cell data

In addition to the selected model object, you can transfer the associated cell data and metadata when you transfer the structure of a model to a source or to a target system.

Transferring large model structures

You can copy model structures up to 1,000 dimensions in a single transfer process before you exceed temporary RAM.

For more information, see "Importing and transferring data" in the *IBM Cognos TM1 Performance Modeler Guide*.

Views specified for reviewers or contributors

You can specify views for use by reviewers or contributors.

For more information, see the "Defining views and websheets" topic in the "Designing Models and Applications" chapter of the *IBM Cognos TM1 Performance Modeler Guide*.

Reuse of approval hierarchies

In Cognos TM1 version 10.2.0, you can deploy TM1 Applications to different slices of the same cube.

IBM Cognos TM1 version 10.2.0 includes the ability for TM1 Applications to reuse approval hierarchies or sections of approval hierarchies across applications. This feature means you can create two different views that follow a budget and forecast process that operate on different schedules but still use the same leaf elements. Similarly, you can create views by using the same leaf elements that roll up in different ways. For example, you can have a view that rolls up regionally and another that uses the same elements that roll up by maturity.

A new type of dimension that is called a Control dimension defines the scope of an approval hierarchy by using a control subset.

For more information, see the "Designing Models and Applications" topic in the *IBM Cognos TM1 Performance Modeler Guide*.

TurboIntegrator processes triggered from workflow actions

You can now initiate a TurboIntegrator process either immediately before or immediately after a workflow action takes place.

For example, you can trigger a TurboIntegrator process to do a data validation test before a Commit action. Or you can move data for a specific approval hierarchy node to a different application immediately after a Submit action.

You can design the workflow action trigger in the Cognos TM1 Applications server without editing any system-related objects.

For more information, see the "Defining and deploying applications" topic in the *IBM Cognos TM1 Performance Modeler Guide*.

Cognos TM1 Applications Maintenance Utility

The Cognos TM1 Application maintenance feature is a command-line utility lets you take actions that were previously only possible from the Cognos TM1 Applications portal.

For more information, see the "Defining and Deploying Applications" chapter of the *IBM Cognos TM1 Performance Modeler Guide*.

Import Cognos Planning models into Cognos TM1

The **Import Cognos Planning model** option helps you build your Cognos Planning model in IBM Cognos TM1 Performance Modeler.

The import option uses an .XML application definition file that is generated from your Cognos Planning model. This file is used to get you started with the dimensions, cubes, and links needed to build the model in Cognos TM1 Performance Modeler.

For more information, see the *IBM Cognos TM1 Performance Modeler Guide*, appendix called "Import Cognos Planning models."

Drill-through

In IBM Cognos TM1 version 10.2.0, you can choose to have a link that is exposed as a drill-through relationship. You can also configure the orientation of the view that results from the drill.

For more information, see the "Creating drill-through objects in links" in the "Creating Links" chapter of the *IBM Cognos TM1 Performance Modeler Guide*.

Full picklist capability

IBM Cognos TM1 version 10.2.0 includes new support for static picklists and the ability to set a picklist on a numeric cell.

For more information, see the "Creating pick lists" in the "Creating and Formatting Dimensions" chapter of the *IBM Cognos TM1 Performance Modeler Guide*.

Easier access settings

In IBM Cognos TM1 version 10.2.0 security objects are more accessible, element and cell security are easier to configure, and cell-level security requires fewer dimensions.

You can now see at a glance which dimensions have element security that is applied. You can also easily stop using element or cell security by deleting the security cubes, instead of stopping the Cognos TM1 server. Cell security also uses only a subset of the full dimensionality of the parent cube.

For more information, see the *IBM Cognos TM1 Performance Modeler Guide*.

Link editing improvements

In Cognos TM1 version 10.2.0 you can select the source and target members of links separately then paste the source/target member pairs.

You can also turn an automatic mapping into a manual mapping while retaining the mapped member pairs.

For more information, see “Establishing correspondence and mapping dimensions” in the “Creating links” chapter of the *IBM Cognos TM1 Performance Modeler Guide*.

New Cognos TM1 Applications features in 10.2.0

The following new features were added to IBM Cognos TM1 Applications version 10.2.0.

Cognos Configuration for Cognos TM1 Application server

You can now set configuration settings for the Cognos TM1 Application Server by using Cognos Configuration.

For more information, see the “Getting Started with Cognos TM1 Applications” chapter in the *IBM Cognos TM1 Applications Guide*.

Enable or Disable a TM1 server

You can use the Add and Edit options on the Administer TM1 Applications configuration screen to enable or disable a TM1 server.

When a server is disabled, the application can no longer communicate with the server.

See “Administering Cognos TM1 Applications” chapter of the *IBM Cognos TM1 Applications Guide*.

New email notification with DLS

You can set a Cognos Configuration setting to send email notifications by email only. Previous versions also sent notifications to “My Inbox” in Cognos Connection.

For more information, see the “Getting Started with IBM Cognos TM1 Applications” chapter of the *IBM Cognos TM1 Applications Guide*,

Purged commentary

Administrators can purge commentary that is based on user name or by date.

For more information, see the “Getting Started with Cognos TM1 Applications” chapter of the *IBM Cognos TM1 Applications Guide*.

New features for Cognos TM1 Operations Console version 10.2.0

The Cognos TM1 Operations Console version 10.2.0 has the following new features.

For more information, see the *IBM Cognos TM1 Operation Console Guide*.

A new URL to run the Cognos TM1 Operations Console

To run the Cognos TM1 Operations Console use `http://servername:port number/pmhub/pm/opsconsole`

Default group added

By default a group that is called **admin** is defined in the Cognos TM1 Operations Console configuration.

This group is used to create a default monitoring group for the SDATA sample database.

Alerting and email notifications

You can send alerts and email notifications that are based on server processes and thread states by configuring specific rules.

Store and reload the state of the monitor

You can store the setup of the Cognos TM1 Operations Console and reload it later.

More events can be logged

You can monitor multiple threads, object contention, chores, and processes in the Cognos TM1 Operations Console now.

The process that is used to add the Cognos TM1 Application Server to the Cognos TM1 Operations Console is also simpler than it was in previous versions.

Watchdog can send email and alerts based on the server state

You can monitor Cognos TM1 Server activity offline using the Watchdog feature.

To use Watchdog, you configure a set of criteria to identify the server states along with corrective or notification action.

Automatic and scheduled logging now available for the Cognos TM1 Applications Server

In addition to Cognos TM1 Servers, you can configure the IBM Cognos TM1 Operations Console to generate automatic and scheduled logging for the Cognos TM1 Applications Server.

Share server log schedules in the Cognos TM1 Operations Console version 10.2.0

You can now view, download, and monitor schedules that are created by other users.

Start Performance Statistics from the Cognos TM1 Operations Console version 10.2.0

You can now start the Performance Statistics directly from the Cognos TM1 Operations Console **Monitor** option.

Simplified automatic logging is now available with the Log to Disk options

A **Log to Disk** option is now available on the Cognos TM1 Operations Console monitor view.

New features in IBM Cognos Analysis for Microsoft Excel version 10.2.0

New features since the last release are listed.

IBM Cognos Analysis for Microsoft Excel 10.2.0 has feature enhancements in several key areas:

- IBM Cognos Analysis for Microsoft Excel is now integrated with IBM Cognos TM1 data sources.

Use IBM Cognos Analysis for Microsoft Excel with IBM Cognos TM1 data sources to enter and write back values to TM1 cubes.

For more information about interoperability considerations to access Cognos TM1 systems from IBM Cognos Analysis for Microsoft Excel, see the Cognos TM1 *Installation and Configuration Guide*. For more information about Cognos TM1 Perspectives, the Cognos TM1 addin for Microsoft Excel, see the Cognos TM1 *User Guide*. Cognos TM1 documentation is available in the IBM Cognos TM1 Information Center (<http://pic.dhe.ibm.com/infocenter/ctm1/v10r2m0/index.jsp>).

- You can update server information for existing reports and formulas in an IBM Cognos enabled Excel workbook, PowerPoint presentation, or Word document. Use the API method, UpdateServerUrl, or the user interface in the **Update System** dialog box to update server information. You can change one server, such as a test server to another server, such as a production server.
- You can use asymmetrical nesting for greater control of report layout. For example, you can nest an actual category under previous years and nest only the forecast category under the current year, because no actual is available.
- Additional language support
The following additional languages are available for IBM Cognos Office products: Croatian, Danish, Kazakh, Slovenian, and Thai.

New Cognos Insight features in Cognos TM1 version 10.2.0

The following new features were added to IBM Cognos Insight for Cognos TM1 version 10.2.0.

See the Cognos Insight website for details on these features.

Print and export workspaces

In an IBM Cognos Insight workspace, you can now print the contents of the current tab. You can also export a workspace tab as a new PDF file or append it to an existing PDF file as a new page.

Combination charts


IBM Cognos Insight now includes combination charts, which combine a column chart and a line chart to display data for two measures on the same chart.

You can choose the measure that is represented by the columns and the measure that is represented by the line. For example, your crosstab displays revenue and cost for each of your product lines. With a column chart or a line chart, you can display revenue by product line or cost by product line. With a combination chart, you can display revenue by product line as the columns and cost by product line as the line.

Work with attributes

In IBM Cognos Insight, you can now filter by, create, and display attributes.

You can create and use attributes in the following ways:

- View attributes in the content pane as subordinate elements of dimensions.
- Create attributes using the **New Data** icon  or by editing dimensions.
- Create explore points to filter your crosstabs and charts by attributes.
- Drag attributes to crosstabs and the overview area to display each element's attributes in the crosstab.
- Drag attributes to chart legends and chart areas to display attributes when your cursor hovers on a legend or chart element.

Spread data

You can use several new data spreading types in IBM Cognos Insight to distribute data across a range of cells. The data spreading types include relative proportional spread, equal leaves, equal spread, repeat, straight line, and growth percentage.

Support for bidirectional languages

You can now enable bidirectional language support in IBM Cognos Insight to change the text direction in your workspaces.

In most widgets, text direction is set by each user, so the text direction that you choose is only a setting on your computer. However, the text direction is saved with the workspace or report when you publish it to IBM Cognos Business Intelligence.

In text widgets, you can set text direction and save the direction with the workspace, so other users will see the text direction that you chose.

Support for digit shaping

IBM Cognos Insight supports the digit shaping options that you set in your operating system.

For example, if you set your operating system to use Arabic digits, then the numbers in Cognos Insight are displayed in Arabic.

Most digits in Cognos Insight change automatically when you change your operating system settings. However, you must restart Cognos Insight to refresh digits in charts.

Import external data

When you are contributing to an IBM Cognos TM1 plan in IBM Cognos Insight, you can now import data from an ASCII file on your computer into your part of the plan.

Drill through to view details

If the IBM Cognos TM1 administrator created drill through links in IBM Cognos TM1 Performance Modeler, users can now right-click crosstab cells to view related data in another cube.

Distributed mode improvements

In the IBM Cognos TM1 Applications portal, you can now start IBM Cognos Insight in distributed mode from a parent element. You can also now open a **Central** application type in distributed mode.

In previous versions of Cognos Insight, you could only start Cognos Insight in distributed mode from the leaf data nodes. Now you can open Cognos Insight in distributed mode from a parent node to work on all of that parent node's child data nodes.

For example, your data model includes a Europe level that contains the following child nodes: France, Germany, and Spain. Previously, to work on the France, Germany, and Spain nodes in Cognos Insight in distributed mode, you had to open each node, one at a time. Now, you can open Cognos Insight in distributed mode from the Europe node to work on all of the child nodes at the same time.

Scorecards

When you connect to an IBM Cognos TM1 server in IBM Cognos Insight, you can view and use scorecards that you created in IBM Cognos TM1 Performance Modeler.

Scorecards that you create in Cognos TM1 Performance Modeler are displayed in the content pane of Cognos Insight. Each scorecard can contain the following items that you can drag to your workspace: impact diagrams, strategy maps, and custom diagrams that use a custom graphic as the background.

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Index

A

Applications Maintenance utility 6
Approval hierarchy 5
Automation of TM1 Applications 6

C

Commentary 7
contributor views 5
Convert .xls 3
cube calculation 4

D

disable server 7
Drill-through 6

E

email notifications 7
enable server 7

F

Feeder Optimization 4

I

IBM Cognos Analysis for Microsoft Excel:new features;new features:IBM Cognos Analysis for Microsoft Excel 9
iPad 1

J

Java Web 3

L

Link editing 7

M

Mobile 1
model diagramming 4

N

new TurboIntegrator functions 3

P

Picklists 6
Purging commentary 7

R

Reduced cell-level security 3
reviewer views 5

S

Scorecarding 2
Security 6
Show Data Flow 4

T

TM1 Performance Modeler 4
TM1 Web 3
Transfer Design 4
TurboIntegrator process workflow 5

V

views 5