What’s new in TrueSight Capacity Optimization 10.7

Jan 2nd 2017
## What's new in 10.7

### Simplify Solution
- **Enhanced Views**
  - Infrastructure views in TrueSight UI – support for custom views
- **Enhanced Data Explorer**
  - Visibility of process-level data in views – support for Perceiver-like use cases
- **Simplified Reporting**
  - Export from views, enhanced composites reports

### Enhance Analytics
- **Enhanced Reservation Analytics**
  - Placement and commit API, OpenStack HostAggregates as targets
- **Enhanced Support for Cloud**
  - OpenStack enhancements
- **Enhanced Support for Big Data**
  - More Hadoop services, report templates
- **Enhanced support for Storage**
  - EMC XtremIO support, report templates
- **Simplified Administration**
  - License audit, notification emails, auto-purge

### Extend Coverage
- Consumers
- Power Users
- Admins

[https://docs.bmc.com/docs/display/btco107/10.7.00+enhancements](https://docs.bmc.com/docs/display/btco107/10.7.00+enhancements)
Sentry Extensions for TSCO

What’s new 10.7

• Compatibility with TSCO 10.7
• Storage views and NetApp Spec view migrated to TrueSight Console (modern and tablet ready UI)
• New connector for EMC ExtremeIO Management Server firmware 4.0.2
• Storage views now support EMC ExtremeIO in addition to Dell, EMC SMI-S, Hitachi, HP 3PAR, IBM SVC, IBM XiV and NetApp
• Support for Licensing Utility
• Performance improvements for NetApp Data ONTP ETL and EMC SMI-S Agent ETL to better support large envs
• Enhanced integration to IBM SVC Storwize (SVC Storewize and SVC Unified can be integrated with only one ETL)
• New troubleshooting tool for EMC XtremIO
• New support tool for all Sentry Integrations for TSCO
• On-Line Help now available for Storage views
• All ETLs and views documented in docs.bmc.com
Movìri Extensions for TSCO

What’s new 10.7

- Compatibility with TSCO 10.7
- Hadoop views and Networks view migrated to TrueSight Console
  - Modern graphically browser support (html/5)
  - Mobile tablet support
- Improved Big Data capacity management with new support for Spark:
  - Enhanced integrations for Hadoop Cloudera and Hortonworks/Ambari connectors
  - Enhanced Hadoop views with support for Spark data
- Enhanced Cloudera support up to CDH 5.8.1
- SCOM: performance improvement in managing large data volume
- Support for Licensing Utility – Network devices
- All ETLs and views documented in docs.bmc.com
TrueSight Capacity Optimization 10.7

TrueSight Console UI

10.5

Admins
Power Users
Consumers

Admin, Workspace, ...
All (other) Views, Reports

Capacity Pool View

TrueSight Capacity Optimization Console

10.7 and Beyond

Admins
Power Users
Consumers

Admin, Workspace

All View & Reports

TrueSight Console
OOTB Views: Capacity Pool, XenServer, vSphere, AIX, KVM, Hyper-V, Network, Hadoop, Storage

Templates for custom views: Donut, Summary table, System details, System data explorer and Tree Map

• We encourage customers to develop new custom views on the TrueSight Console

• Existing custom views in Capacity Optimization Console will continue to run
# TrueSight Capacity Optimization Training Courses for 10.7


- BMC TrueSight Capacity Optimization 10.7: What’s New WBT – *Mid Nov 2016*
- BMC TrueSight Capacity Optimization 10.7: Using (2 day ILT class) – *Jan 2017*
- BMC TrueSight Capacity Optimization 10.7: Administrator (3 day ILT class) – *Jan 2017*

## v10.x Learning Paths

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Administrators</th>
<th>Developers</th>
<th>Capacity Planners</th>
</tr>
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<tbody>
<tr>
<td>BMC TrueSight Capacity Optimization 10.x: Overview (WBT)</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>TrueSight Capacity Optimization 10.x: Using</td>
<td>✔️</td>
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<tr>
<td>TrueSight Capacity Optimization 10.x: Administering</td>
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<tr>
<td>TrueSight Capacity Optimization 10.x: Certification</td>
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</table>
TrueSight Capacity Optimization

Capacity Optimization Trial!

What's New in TSCO 10.7

Remarks on Architecture for TSCO
## TrueSight Capacity Optimization 10.7

### TSCO – Main Architectural Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Major roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>TrueSight CO Application Server (AS)</td>
<td>• communication bus for all other components</td>
</tr>
<tr>
<td></td>
<td>• analytical, modeling and reporting tasks</td>
</tr>
<tr>
<td></td>
<td>• primary scheduling services</td>
</tr>
<tr>
<td></td>
<td>• presentation layer support</td>
</tr>
<tr>
<td>TrueSight CO ETL Engine Server (EE)</td>
<td>• data integration layer (both ETL procedures and pollers)</td>
</tr>
<tr>
<td></td>
<td>• secondary scheduling services</td>
</tr>
<tr>
<td>TrueSight CO Database Server (DB)</td>
<td>• capacity database repository</td>
</tr>
<tr>
<td></td>
<td>• data loading, managing and processing tasks</td>
</tr>
<tr>
<td></td>
<td>• data storing, summarization and pruning</td>
</tr>
<tr>
<td>TrueSight CO Gateway Server (GS)</td>
<td>• data loading, managing and processing from managed nodes running Agents</td>
</tr>
<tr>
<td></td>
<td>• data storing, summarization and pruning</td>
</tr>
<tr>
<td>TrueSight Presentation Server (PS)</td>
<td>• modern web-based UI and mobile tablet capable</td>
</tr>
<tr>
<td></td>
<td>• data presentation layer integrated throughout the TrueSight product suite</td>
</tr>
<tr>
<td>Atrium SSO (SSOS)</td>
<td>• authentication system that enables access to TrueSight PS</td>
</tr>
<tr>
<td></td>
<td>• TSCO users must be externally authenticated via Atrium SSO to access TSPS</td>
</tr>
</tbody>
</table>

Please refer to BMC documentation for the updated list of supported platforms.
TrueSight Capacity Optimization 10.7

New architectural components

TrueSight Presentation Server (TSPS) requirements are not expected to vary as widely for M/L envs:

• in production environment AS, TSPS and SSO have to be installed on three different servers
• for test environment it is allowed for TSPS + SSO to be on the same server, with AS on a separate server
• it is not allowed (also in test/dev) for TSPS + AS or TSPS + SSO + AS to be installed on the same servers.

TSPS also requires Atrium SSO (ASSO) to create or allow users to log into TSPS – in the future Remedy SSO is expected to replace ASSO for TSPS

Please have customers leverage the AMIGO program for migrations/sizing guidance
What’s New in TSCO 10.7

New UI experience:
Capacity views Transformation
TrueSight Capacity Optimization 10.7
Capacity Views Transformation

The TrueSight Console is now the primary user interface for working with capacity views. 11 out-of-the-box Infrastructure views are now available on the TrueSight Console UI

- Capacity Pool View – already migrated in 10.5
- Virtualization Views: AIX, HyperV, vSphere, Solaris, XenServer, KVM
- Storage Capacity views and NetApp Specific views
- Hadoop views
- Network views

All other out-of-the-box views will stay on the TrueSight Capacity Optimization Console

Customer value: Improved user experience

- Specific “consumers” (e.g. Service Owners, Technology Owners, etc) can now easily access capacity information on their mobile devices by leveraging the modern web-based UI on their tablets
New Tag filtering capabilities

Filter out an homogeneous set of entities according to different criteria (e.g. Prod/test, location, business-critical, etc)

Customer value: Improved efficiency
- Effective selection of entities of interest for an easier and quicker result creation
TrueSight Capacity Optimization 10.7

Temporary Tags in Capacity Views on TrueSight Console

Support for creation of Temporary-Tags

Save Temporary Tags as Persistent Tag

Customer value: Improved efficiency

– Customers can easily select a working set of entities for a focused investigation

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New Search for out-of-the-box views in TrueSight Console

Execute searches for entities in a specific view or across all views

Leverage Search Syntax to refine searches for multiple entities selection and create Temporary-Tags based on your search string

Customer value: Improved efficiency
- Easier and quicker result creation
Leverage the export to PDF or Excel function to easily export views pages for offline use.

As in CO 10.5, export to Excel is also available for each single table in views.

Customer value: Improved capacity visibility and efficiency

- Customers can now access and share valuable results in a quicker and easier way.
TrueSight Capacity Optimization 10.7

Annotate and Export charts on TrueSight Console

Annotate a chart and save its offline copy by using the chart options

on-demand export of charts from views – in different formats: PNG, JPG, SVG, PDF

Customer value: Improved capacity visibility and efficiency

– Customers can now access and share valuable results in a quicker and easier way for a focused investigation

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What’s New in TSCO 10.7

Enhanced Data Explorer in views
Support for process-level data in Data Explorer views

• Data Explorer in AIX, Solaris and KVM views has been enhanced to provide process-level summary tables and detailed charts to enable you to gain historical insight into the processes that are consuming CPU and Memory.

• This capability enables customers to interrogate the UNIX / Linux top 30 processes in any given Gateway server interval. At the measurement detail level this typically is hourly but can be 15 minutes or customized

Customer value: Improved capacity visibility and efficiency

– Customers can now easily investigating abnormal spikes in consumption at process-level into views
– Customers already leveraging Perceiver get support for an additional use cases from a single and mobile compatible UI.
TrueSight Capacity Optimization 10.7

Enhanced Data Explorer in views
(support for Perceiver-like use cases)

Process Profile available only in the Perceiver UI (deprecated since TSCO 10.0) and not in the TSCO out-of-the-box Views

Improved user experience with Process-level data now available in TSCO out-of-the-box Views for AIX, KVM and Solaris
What’s New in TSCO 10.7
Custom Views on TrueSight Console
TrueSight Capacity Optimization v10.7

Custom Views in TrueSight Console

TSCO 10.5

TSCO 10.7

Modern, mobile-ready user interface is intuitive, interactive and provides users with flexible, powerful, customizable visualization capabilities.

Custom views in TrueSight Capacity Optimization Console

Custom views in TrueSight Console
Create a custom view in the TrueSight Console UI (presentation server)

- Quickly visualize information organized in custom views that can be exported as reports
- A view consists of a set of pages that can be grouped and displayed as subsystem tabs
- Guided by “Add view” wizard
- Out-of-the-box view templates can be configured to present data in a predefined format
- Configuration of the templates leverages existing data marts, or create a new SQL-based data mart
- The configuration wizard helps with flexible layout creation, filter selection, chart templates, metric selection, link to related pages, etc

Customer value:

- Simplified creation of structured views with a minimal need of programming skills
- Combine summarized and detailed information by leveraging a catalog of out-of-the-box view templates
- Modern, mobile-ready, flexible user interface allows easy customization of the look and feel
TrueSight Capacity Optimization v10.7

Custom Views on TrueSight Console – The Process

Customer value:
– Quickly visualize information organized in views with drill-down that requires easy set-up
– Customers who have TSOM & TSCO can leverage the TrueSight Console as a true single pane-of-glass

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TrueSight Capacity Optimization v10.7

Your view in few clicks with System Detail Template

- Show the details of a system
  - Up to 4 charts
    - Metrics
    - Custom metrics
    - Formulas
    - Indicators
  - Recommendations
  - Tags
  - Summary data
    - Based on a data mart
  - Configuration metrics
  - Optionally 2 tables of related elements
    - Based on data marts

Customer value: Simplified and improved capacity visibility and minimized TTV

- Customers can now access and share valuable results in a quicker and easier way without the need of leveraging SQL skills
TrueSight Capacity Optimization v10.7
Advanced Analytics in custom views

- Show a complex analysis related to a system in a custom view by leveraging System Detail Template
  - Top-n
  - Extract metrics from child systems
  - Customize axis labels
  - Customize colors
  - Aggregation functions
  - Comparison between time periods
  - Display forecasted values
  - ...and more

- **Prerequisite:**
  Create a complex analysis in the Workspace section of TrueSight Capacity Optimization Console.
  The analysis should produce a single chart with chart types supported on the TrueSight Console.

**Customer value: Simplified and improved capacity visibility and minimized TTV**
- Customers can now access and share valuable results in a quicker and easier way without the need of leveraging SQL skills

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Use Custom View templates

TSCO 10.5

Complex build
Lots of time required to build a single view

TSCO 10.7

Easy & quick to build custom views
with modern & unified UI
What’s New in TSCO 10.7
Simplified and improved advanced reporting
TrueSight Capacity Optimization v10.7

Wizard based creation process for datamarts

TSCO 10.5  

Input all data in one form

Wizard based creation process

TSCO 10.7
Setup data marts have been simplified to be used also in creation of custom views on TrueSight Console

- Merged data marts list view
- Edit the available data marts out of the box
- Or create data mart from scratch
- Unified creation entry point
- Wizard guided creation process for SQL data marts

Customer value:

- Single pane of glass for all existing data marts and setup of new datamarts
- Guided process to setup datamarts and easily create custom views and advanced report templates and minimize mistakes
What’s New in TSCO 10.7
Enhanced Analytics: Enhanced Support for Integrated Demand & Capacity Management
## TrueSight Capacity Optimization v10.7
### Reservations – what’s new in 10.7

<table>
<thead>
<tr>
<th>Feature</th>
<th>10.0-10.5</th>
<th>10.7</th>
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</thead>
<tbody>
<tr>
<td>Supported reservation target types</td>
<td>vSphere cluster, AIX host, KVM host, RHEV host, Hyper-V</td>
<td>vSphere cluster, AIX host, KVM host, RHEV host, Hyper-V, OpenStack Host Aggregates</td>
</tr>
<tr>
<td>Creating, viewing, modifying reservations</td>
<td>UI</td>
<td>UI</td>
</tr>
<tr>
<td>Importing reservations from external systems</td>
<td>Reservations API - Create</td>
<td>Reservations API – Create, Place, Commit and Status</td>
</tr>
<tr>
<td>Managing tenant quotas</td>
<td>UI</td>
<td>UI</td>
</tr>
<tr>
<td>Assigning Resource thresholds at Capacity Pool level</td>
<td>UI</td>
<td>UI</td>
</tr>
<tr>
<td>High Availability/DR requirements when creating reservations</td>
<td>Placement Rules UI using tags</td>
<td>Placement Rules UI using tags</td>
</tr>
</tbody>
</table>
Support for Host Aggregates (OpenStack) in Reservations

- Ability to create a Capacity Pool with OpenStack Host Aggregates included

Customer value:

- Adding OpenStack Host Aggregates to the already supported vSphere, AIX, KVM and Hyper-V platforms provides customers with an additional technology that can be used in Reservation Analytics.
Customer value: better quality of service

- Customers can now leverage an integrated workflow for demand and capacity management so that each final user in the organization (LOB, Service Owners, Tenants) can easily request resources for a new project.
Customer value: better quality of service

- Customers can now leverage an integrated workflow for demand and capacity management to automate the full life cycle of the reservation from a request, placement, commit and status for a new or existing project.
Before:

In CO 10.5 the Reservation API allows to define a new reservation from the outside of the TSCO Console UI.

After:

In CO 10.7 the enhanced Reservation API now allows to:

1. Request, place and commit a new reservation on a target in a single (POST) call [create a committed reservation]

2. Retrieve and update status of an already existing reservation and do the placement (PUT call) [commit a reservation]

Without the need to access the TSCO Console UI.
What’s New in TSCO 10.7
Enhanced support for Big Data
TrueSight Capacity Optimization v10.7

Enhanced Hadoop View on TrueSight Console

Hadoop View in TSCO Console

Hadoop view in TS Console – enhanced graphics, easier to navigate and mobile-ready

Customer value: Improved user experience

Specific “consumers” (e.g. Service Owners, Technology Owners, etc) can now access capacity information on their mobile devices by leveraging the modern web-based UI on their tablets.
Improved Big Data capacity management with new support for Spark data:

- Enhanced integrations for Hadoop Cloudera and Hortonworks/Ambari connectors that now includes additional services to support Spark data
- Enhanced Hadoop views which now include analytics for Spark

Customer value: Improved visibility

- Improve visibility and operational efficiency with quicker and easier access to data
What’s New in TSCO 10.7
Enhanced support for Storage
**TrueSight Capacity Optimization v10.7**

*Storage Views in TrueSight Console*

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**TSCO 10.5**

Storage Capacity Views and NetApp Views in TSCO Console

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**TSCO 10.7**

Storage views in TS Console – enhanced graphics, easier to navigate and mobile-ready

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**Customer value: Improved user experience**

Specific “consumers” (e.g. Service Owners, Technology Owners, etc.) can now access capacity information on their mobile devices by leveraging the modern web-based UI on their tablets.

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TrueSight Capacity Optimization v10.7

Enhanced Storage Views with support for EMC XtremeIO

- Storage views now support EMC ExtremeIO in addition to Dell, EMC SMI-S, Hitachi, HP 3PAR, IBM SVC, IBM XiV and NetApp
- New connector for EMC XtremeIO Management Server firmware 4.0.2
- On-line help now available for Storage views

Customer value: Improved visibility
- Improve visibility and operational efficiency with quicker and easier access to data
What’s New in TSCO 10.7

Simplified administration and data integration
TrueSight Capacity Optimization v10.7
Simplified administration

Automated purging of inactive entities

Ability to disable Series search

Customer value: Improved usability and performance
- Avoid manually dismissing/purging inactive entities by using the new automated purging
- Options to improve performance and save disk space when searching in the TrueSight Capacity Optimization UI
TrueSight Capacity Optimization 10.7
Simplified administration

• New storage and network audit reports

Customer value: Improved reporting of license entities
– Enhanced license reporting for Network devices and Storage Ports
TrueSight Capacity Optimization v10.7

**Simplified and enhanced integrations**

- The OpenStack API Extractor Service now supports OpenStack version Mitaka
- Network metrics can be now imported at instance level with the Ceilometer collection enabled

**Customer value: Improved visibility**

- Improve visibility and operational efficiency with quicker and easier access to data

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TrueSight Capacity Optimization v10.7
Simplified and enhanced integrations

- Enhanced TSOM integration:
  - Enhanced TSOM integration to support AIX KM
  - Enhanced integration to support TrueSight Operations Management 10.5
  - Config change for Capacity Event Integration: event server is now TSPS

Customer value: Improved TTV
- Customers who have TSOM & TSCO can easily configure the TSOM Integration and improve their TSOM & TSCO experience
Enhancements to OpenETL for CSV input files

- Datasource metric unit can be selected from a list, e.g. GB, MB/s
- Multiplier can be applied for metric unit conversion
- Mix of percentage ranges ("0 to 1" or "0 to 100") is allowed

Enhancements to OpenETL for object relationships

- New workflow to create SQL query for catalog of entities and relationships (OBJREL)
- Guided mapping of imported column to expected dataset column
- Indication of mandatory and optional fields and column mapping verification

Customer value:

- Flexibility of handling different metric units reduced the need to develop custom ETLs
- Wizard provides indication about missing mandatory fields
- SQL query validation as part of the workflow, so syntax errors will be checked before running the ETL
- Simplified and intuitive workflow