



## **Release Notes for Cisco Insight Reporter v4.1.0**

**December 23, 2013**

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*Cisco Insight Reporter v4.1.0 Release Notes*

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# Introduction

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## Document Details

Cisco Service Center Release	Part Number	Publication Date
Release 4.1.0	OL-30638-01	December 23, 2013

It includes all the defects and caveats that were identified as part of internal testing. It assumes that the reader has a good working knowledge of the Cisco Insight Reporter software.

This document covers the following:

- [Target Operating Environment](#)
- [Compatibility with Cisco DPI Devices](#)
- [Differences with previous release](#)
- [New Features and Enhancements](#)
- [Closed Caveats](#)
- [Open Caveats](#)
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# Target Operating Environment

Cisco Insight Reporter is the web reporting application to monitor traffic analyzed by the DPI capabilities of Cisco Service Control Engines (SCE).

The application is primarily designed to be installed as an independent component on a dedicated hardware. This scenario is the most suitable for medium/large SCE deployments for which it is advisable to keep the data collection and storage layers on separate hardware and dedicate all the server resources to Cisco Insight Reporter.

For demo purpose or small SCE deployments, the application can be installed on the same host as the Cisco Collection Manager (CM). In this scenario, the embedded MySQL Enterprise 5.1 database engine, provided with the application, will also be used to store traffic data and Cisco CM elements need to be configured accordingly.

The application can also be deployed on a server already hosting Cisco CM software. In that case the traffic schema must be installed on the Insight Reporter's embedded database or an existing MySQL Enterprise 5.1 instance located on the same host.

Cisco Insight Reporter can also be deployed on virtual appliances provided that the host operating system is supported and that all prerequisites on hardware and software resources are met.

## Hardware Requirements

This release 4.1.0 can be installed on any physical or virtual host with the following minimal specifications:

Table 1. **Hardware Specifications**

Components	Specifications
CPU	Single or dual-core 2.0 GHz or greater Intel x86/64 processor OR 64 bit single or dual-core 2.0 GHz or greater SPARC processor
RAM	4 GB or greater
Free Disk Space	10 GB for the OS + additional disk space in case of traffic data storage. Recommended size: > 100 GB
Network interface	Single 100BASE-T Ethernet or greater

In case of doubt, you can contact Cisco Support to get an estimation of the required CPU power, RAM capacity and disk storage.



### Note

The performance of the Cisco Insight Reporter depends on the size of the SCE deployment and the number of users simultaneously running the reports. To get an optimal performance the hardware may have to be scaled accordingly.

The above recommendation is for a good response time when running ONLY the Cisco Insight Reporter application. In case the same server is used to co-host other applications, the hardware has to be upgraded with more RAM, CPU power and storage capacity.

## Software Requirements

You can install Cisco Insight Reporter v4.1.0 on any server running the following operating systems:

**Table 2. Supported Operating Systems**

OS and architecture	Version	Architecture
Red Hat Enterprise Linux or CentOS	5	Intel X86 64 bit
Red Hat Enterprise Linux or CentOS	6	Intel X86 64 bit
Solaris	10	SPARC 64 bit

## Java Runtime Environment (JRE)

Cisco Insight Reporter v4.1.0 requires JRE6. If the installer doesn't find JRE6 on the system, it will automatically install it.

## Supported Browsers

The Cisco Insight Reporter v4.1.0 is compliant with the following browsers:

- Firefox v3.0 to v9.0.1
- IE v6.0 to v8.0
- Google Chrome v5.0 to v15.0.1



### Notes

- As a prerequisite, the Flash Player 10.x browser plug-in should be installed on all client PCs that will be used to display reports.
- Cisco Insight Reporter v4.1.0 supports both HTTP and HTTPS.

## Screen Resolution

The application GUI supports a variety of screen resolution modes including 1280x1024, 1024x768, and 1680x1050 with consistent support of 4:3 and 16:9 aspect ratios (wide screen). For a better user experience it is recommended to use a minimum vertical resolution of 1024 pixels.



### Note

A minimal screen resolution of 1024x768 is supported with vertical and horizontal scroll bars. For other resolutions, scrollbars may appear if the screen resolution is lower than the application workspace or if there are too many toolbars configured on the browser. To maximize the user experience, it is suggested to set the browser to full-screen mode (that can be set usually by pressing the F11 function key).

## Supported Databases

Cisco Insight Reporter v4.1.0 is delivered with a bundled MySQL Enterprise database server v5.1 that is used for internal operations, but can also be used to store traffic data populated by one or more Cisco Collection Managers.



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**Note**

When installing Cisco Insight Reporter on the same host as Cisco Collection Manager, both the traffic data and the application internal tables need to be located on the same database engine, thus it is required to adopt MySQL Enterprise 5.1 database.

In this case, it is possible to use either the bundled MySQL or to install a standalone MySQL Enterprise 5.1 engine (and not install the bundled MySQL shipped with the application).

Please note that, even if the database engine is unique in this scenario, the Insight Reporter schema will be kept separated from the Collection Manager schema containing traffic data.

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Traffic data can also be stored on an external database server, in that case Cisco Insight Reporter supports the same database technologies as Cisco Collection Manager software:

- MySQL Releases 4.1, 5.0, and 5.1
- Oracle Releases 9.2, 10g, and 11g
- Sybase Releases 15.0.3 and earlier

When using external databases for storing traffic information, customers are in charge of providing the correct license for those. Cisco Insight Reporter does not provide the software drivers (connectors) to work with external databases. Thus customers are required to manually copy the connectors provided with their database license to a specific directory of Cisco Insight Reporter application. Please refer to the *Cisco Insight Reporter Installation Guide, Release 4.1.0* for details.



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**Note**

For licensing issues, when working with Oracle and Sybase databases, customers are required to provide the software JDBC connectors and copy them on a specific path of the application, as described in the Installation Guide.

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## Compatibility with Cisco DPI Devices

Cisco Insight Reporter is the web reporting solution for Cisco Service Control Application for Broadband.

This release 4.1.0 supports the following devices and configurations:

**Table 3. Supported devices and releases**

DPI device	SW release	CM schema version
SCE all models (but only SCE8000 supported for IPv6 traffic)	SCOS 3.5.0 to 4.1.0	same as SCOS release

## Differences with previous release

Cisco Insight Reporter v4.1.0 is backward compatible with previous releases supporting Cisco Service Control Engines.

Current release provides additional reporting capabilities, in particular new reports have been defined for:

- Video monitoring for Resolution, Bit Rate and Duration
- Video QoE monitoring
- Device Counting
- Cell-awareness and cell congestion monitoring



### Note

New reports for Video Resolution, Bit Rate, Duration and QoE monitoring are at a nascent stage and will evolve to a complete feature in future releases of Cisco Insight Reporter. Please contact the Cisco SCE Marketing for further details and assistance on Video monitoring feature.

The release supports software upgrade to allow customers to perform a seamless installation of the application without the need to reconfigure all settings and existing report customizations (SCE networks, saved/scheduled reports, dashboard, color settings, etc.)

The following matrix describes the main differences between the two versions:

Table 4. **Comparison with former release 4.0**

Major feature	Insight Reporter v4.0	Insight Reporter v4.1
Web2.0 GUI	Yes, based on Flex client	
CM database positioning (traffic database)	One or more external DBs Can also use the internal MySQL 5.1 instance	
Multi-vendor database support	MySQL, Oracle, Sybase	
SCE report template support (SCA BB)	3.5.0 to 4.0.0	also 4.1.0
Multi-device configurations	Yes, with report configuration	
Authentication support with external AAA servers	Yes, support of RADIUS and TACACS+	
Deployment architecture	Can be installed on a single appliance or distributed	

## New Features and Enhancements

The following list of new features and enhancements are provided in this release:

- Support for the new database schema provided with Cisco Collection Manager 4.1.0.
- Introduction of the following new reports:
  - a. A new report topic, called “Traffic Monitoring - Cell”, containing reports for Mobile Cell congestion analysis for Cell-aware Networks. These reports are based on VLink usage RDRs.
  - b. Three new reports for Video Monitoring providing information about: Duration, Resolution and Bit Rate usage.
  - c. A new report for Video QoE monitoring.
  - d. New reports for Mobile Networks - Devices Count.
- Performance enhancement of the report execution time based on query optimization.
- Enhancements to the summary table of reports based on service series.
- Reorganization of the report template topic structure in the Report Wizard (only applicable to report template associated to the latest CM schema version 4.1.0)



- Introduction of the Basic/Advanced report generation mode, to allow faster report generation, in Basic mode, versus more complex visualization features available on charts (drilldown, related reports, switch of leading input series), in the Advanced mode.

A total of 12 reports have been added in this release.



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**Note**

New reports for Video Resolution, Bit Rate, Duration and QoE monitoring are at a nascent stage and will evolve to a complete feature in future releases of Cisco Insight Reporter. Please contact the Cisco SCE Marketing for further details and assistance on Video monitoring feature.

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# Closed Caveats

The following issues have been fixed since the delivery of previous release:

Table 5. **List of closed caveats**

Defect Number	Summary
CSCul40646	Missing subtitle in Daily Peak Bandwidth for specific Subscriber
CSCul14887	Global Daily Usage Sessions per Topology - Issue with DataGrid format
CSCul07560	DataGrid table shows duplicate entries for Zone Comparison reports
CSCul07212	Link Concurrent Sessions per Topology report - Chart types not available
CSCul06931	Traffic Monitoring - Global - Volume report shows blank DataGrid
CSCul06886	Zone Aggregated Usage Volume report displays DataGrid with 0 values
CSCul05183	Missing DS-Lite support for Package monitoring reports
CSCul01958	Link Usage Session report - Data mismatch between DataGrid and Chart
CSCuj99347	PDF export contains values with extra decimals
CSCuj97020	IP Type filter not working for VLink Daily Usage Volume per Service
CSCuj40702	Link Bandwidth report shows incorrect values
CSCuj08847	Top Web and Video Trend reports are not displaying correct data
CSCuj08813	Wrong sorting in custom parameter of Mobile Device Type report
CSCuj08808	User Location Subscriber report is taking long time to load
CSCuj08790	DataGrid view has sorting issue with numeric values
CSCuj08781	Wrong aggregation in Mobile Device Type Distribution report
CSCuj08771	Some Mobile reports queries use Bytes instead of KBytes
CSCuj08758	Top P2P Consumers report - wrong time range in subtitle
CSCuj08690	Video Domains/Hosts Popularity reports total percentage is not 100%
CSCui42009	Top Web Domains Trend report generates tmp table with null column name
CSCui22410	Wrong result in DataGrid for Up/Downstream Peak Bandwidth
CSCui11968	Inconsistent report for up/downstream in Top VLinks by Usage Volume
CSCui08885	Error during report execution process when executing some reports
CSCuh72286	Custom parameter Units of Result has no impact on the chart
CSCuh72248	Default aggregation should be HOURLY in all web reports
CSCuh72212	LIMIT parameter is not working properly with Oracle DB
CSCuh57908	Non-supported IP type filter for Malicious traffic reports
CSCuh51278	Top SIP Domains/User Agents reports do not support time aggregations
CSCuh48483	Subscriber Flows Details report does not refresh properly
CSCuh43799	Top Service Servers report shows service series as IPv4 addresses
CSCuh37580	Reports with metrics erroneously converted in IPv4 quad-dotted notation
CSCuh35588	Top Subscribers report not generated when Pkg aggregation disabled in CM
CSCuh27521	Some fields are missing in Subscriber Flows Detail report
CSCue84277	Missing parameters in Link Aggregated Usage Volume per Service report
CSCud55552	Displayed time and value do not match on Top Subscribers report
CSCul84475	Reports based on CM-aggregated tables are affected by time offset
CSCul52777	Report Link Aggregated Minutes per Topology generates error

Defect Number	Summary
CSCuc25489	Performance issue with VLink reports

# Open Caveats

The following is the list of open issues reported for current release:

## **CSCul48950 – Reports showing topology series display duplicated entries in DataGrid**

### **Symptoms:**

Duplicated entries are displayed in the DataGrid view when selecting a report based on topology series.

### **Conditions:**

1. Open Insight Reporter and select Report Wizard
2. Select any topology-related report, for example Global Daily Usage Sessions per Topology
3. Configure data and time and set daily in Aggregation Type or hourly
4. Generate the report
5. Check entries in DataGrid: they contain duplicated entries as well as unknown values

### **Workarounds:**

None.

## **CSCum04692 – Issues with Traffic Monitoring - IPv6 reports**

### **Symptoms:**

Several issues with topic Traffic Monitoring - IPv6 reports.

- Active Subscribers report: does not aggregate correctly 128 bit IANA tunnelled IPv6 traffic
- Average Subscriber Bandwidth: possible issue with RPT\_GUR table
- Concurrent Sessions: possible issue with RPT\_GUR table

### **Conditions:**

For the Active Subscribers report: run the report using hourly or daily aggregations.

### **Workarounds:**

The Active Subscribers report works correctly only if no time aggregation is selected on the Date & Time tab.

No workaround available for the other reported issues.

## **CSCtq46342 – Cumulative Distribution of Subscriber SMTP Sessions cannot be generated**

### **Symptoms:**

The Cumulative Distribution of Subscriber SMTP Sessions report cannot be generated if the applied SCE configuration does not contain a Subscriber Service Counter associated to service 'SMTP'.

### **Conditions:**

Verify there is no Subscriber Service Counter associated to service 'SMTP' on the SCA BB Console.

On Insight Reporter, open the Report Wizard, select the Malicious -> Spam -> Distribution and execute the report.

### **Workarounds:**

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On the SCA BB Console, define a Subscriber Service Counter for service 'SMTP'. Then apply the pqb configuration to all SCE devices of the network.

### **CSCub67401 – Tomcat server must be restarted if the DB server went down**

#### **Symptoms:**

If, for any reason, the database engine hosting the traffic schema has been restarted or had a temporary failure, the application can no more connect to it until the Tomcat web server is also restarted.

#### **Conditions:**

Shutdown and restart the traffic database, then try using the application without restarting the Tomcat server.

#### **Workarounds:**

You manually need to restart the Tomcat server to restore the connection pools to the traffic database.

## Related Documentation

Cisco Insight Reporter Installation Guide, Release 4.1.0  
Cisco Insight Reporter User Guide, Release 4.1.0

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*, at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

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