Configuration File Descriptions

This appendix describes each of the configuration files used by Collection Manager along with the configuration parameters in each file.

Each configuration file is divided into sections. A heading identifies each section, for example, **[config]**.

You can comment out any parameter that is not required in your configuration by placing a **#** at the start of the line.

If you modify the configuration file, restart Collection Manager to enable the changes to take effect.

Caution The configuration files supplied with Collection Manager software installation contain tested valid settings. You are not expected to change the settings. Use care when modifying the settings.

General Configuration Files

This section describes the **cm.conf** and **queue.conf** configuration files.

Collection Manager Configuration

This section describes the **cm.conf** Collection Manager configuration file:

The [adapter] Section

The **[adapter]** section contains the following parameters:

- automatic_start

  Defines whether starting or resetting Collection Manager starts the adapters automatically.

  Possible values for this parameter are **true** and **false**. The default value is **true**.

- port

  Defines the adapter manager server port number. Possible values for this parameter are 1024-65535. The default value is **33001**.

- timeout

  Defines the timeout value, in seconds, for client adapters. Setting this parameter to **0** disables the timeout.

- connections

  Defines the maximum number of client connections per adapter.

  Possible values for this parameter are 2 to 100. The default value is **20**.

- directory

  Defines the location to which you want to save buffered RDR data. You can use the **~/** prefix for this parameter. The default value is ~/cm/adapters.

- adapter.<number>

  Defines the full class name of the adapter, where <number> is a unique ID number. The adapter definitions must match the **adapter_id** parameters of the queues defined in the queue configuration file. See the "Queue Configuration" section on page B-5.

- parestart_start

  Defines the time (in 24-hour format) at which to restart the adapters periodically. A sample value for this parameter is **23:30**. The default value is **03:45**.

- parestart_interval

  Defines the interval, in minutes, between periodic adapter restarts. Possible values for this parameter are 0 to 2147483647 (0 to 2^{31} - 1), where **0** disables this functionality. The default value for this parameter is **10,080** minutes (18 hours).

- prpc_security_path

  Defines the prpc security path on the Cisco Service Control Collection Manager server. The default path is /dev/./urandom.

The [adapter_mem] Section

The **[adapter_mem]** section contains the following parameter:

- *<Adapter class name>*

  Defines the maximum heap size allocated to an adapter. The following is an example shows how to set this parameter:

```
com.cisco.scmscm.adapters.topper.TAAdapter=-Xmx512M
com.cisco.scmscm.adapters.rag.RAGAdapter=-Xmx2048M
com.cisco.scmscm.adapters.custom.CustomAdapter=-Xmx512M
```

You can set the values for TA adapter, RAG adapter, and custome adapter separately.

To run with Solaris JRE 64 bit, set the -d64 parameter.

```
com.cisco.scmscm.adapters.topper.TAAdapter= -d64 -Xmx4096M
```

If the necessary heap size is different from the JVM default maximum heap size, include a definition of the memory allocated for an adapter.

Note Use the value obtained from the TA Adapter memory calculation formula to arrive at the memory size. For more details, refer to the "TA Adapter Memory Requirements" section on page 2-9.

Note The maximum value of this parameter is 2 GB for an installation on a Linux platform and 3.5 GB for an installation on a Solaris platform. When running on Solaris JRE 64 bit, you can set higher values for this parameter.

The [adapter_start_timeout] Section

The **[adapter_start_timeout]** section contains the following parameter:

- *<Adapter class name>*

Defines the number of seconds that Collection Manager waits for a specific adapter to start. The default value is 200 seconds. The following example shows how to set this parameter:

```
com.cisco.scmscm.adapters.topper.TAAdapter=600
```

The [buffer] Section

The **[buffer]** section contains the following parameters:

- size

  Defines the minimum number of accumulated bytes in the queue before a buffer dequeue.

  Possible values for this parameter are 1 to 262,144. The default value is **128,000**.

- time

  Defines the minimum number of milliseconds between buffer dequeues.

  Possible values for this parameter are 0 to 10,000. The default value is **1,050**.

- file_limit

  Defines the maximum number of files to store in each adapter queue.

  Possible values for this parameter are 1 to 10,000. The default value is **10,000**.

The [queue] Section

The **[queue]** section contains the following parameters:

- upper_hysteresis

  Defines the upper hysteresis level as a fraction of the total queue size.

  Possible values for this parameter are in the range 0 to 1. The default value is **0.11**.

- lower_hysteresis

  Defines the lower hysteresis level as a fraction of the total queue size.

  Possible values for this parameter are in the range 0-1. The default value is **0.12**.

- config

  Defines the queue configuration file. The file name defined for this parameter is the name of the queue configuration file described in the "Queue Configuration" section on page B-5. The default value is queue.conf.

The [categorizer] Section

The **[categorizer]** section contains the following parameters:

- use_table

  Defines whether to categorize RDRs by using the table or by decoding the tag bits.

  Possible values for this parameter are **true** and **false**. The default value is **true**.

- rate_period_msec

  Defines the number of milliseconds between updates of incoming RDR rate calculation.

  Possible values for this parameter are 5,000 to 30,000. The default value is 5,000.

The [server] Section

The **[server]** section contains the following parameters:

- port

  Defines the RDR server port number.

  Possible values for this parameter are 1024 to 65,535. The default value is 33,000.

- connections

  Defines the maximum number of client connections.

  Possible values for this parameter are 1 to 50. The default value is 50.

- timeout

  Defines the client timeout, in seconds. The default value is 600.

- allow_multi

  Defines whether to allow concurrent connections from the same IP.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

The [collector] Section

The **[collector]** section contains the following parameters:

- log_directory

  Defines the directory in which to store log files. You can use the **~/** prefix for this parameter. The default value is ~/cm/logs.

- notification_level

  Defines the length of time, in milliseconds, between successive UM notifications.

  Possible values for this parameter are 0 to 60,000. The default value is 10.

The [csv_adapter] Section

The **[csv_adapter]** section contains the following parameter:

- csvdir

  Defines the parent directory for CSV files. The default value for this parameter is **~scmscm/cm/adapters/CSVAdapter/csvfiles**.

Queue Configuration

This section describes the queue configuration file. The name of the queue configuration file is provided in the [**queue**] section of the **cm.conf** configuration file, as described in the "The [queue] Section" section on page B-4.

Each section of the queue configuration file defines a queue. The section names and queue names are all user defined. Each queue section has the following parameters:

- adapter_id

Defines a unique adapter ID number. This number must match the adapters defined in the **adapter.<***number***>** parameter in the **[adapter]** section of the **cm.conf** configuration file. See the "The [adapter] Section" section on page B-2.

- priority

  Defines the priority level of the queue. Possible values for this parameter are 1 to 3. This parameter is deprecated. Do not change the parameter.

- warning_size

  Defines the number of RDRs that can be present in the queue before a warning is sent.

- maximum_size

  Defines the maximum size of the queue.

- tags

  Defines a list of RDR tag numbers sent to the queue by the categorizer. The same tag can be sent to multiple queues.

The following is an example of a queue definition in the queue configuration file:

```
# Topper/Aggregator Adapter
[topper-hi]
adapter_id=3
priority=3
warning_size=40000
maximum_size=50000
tags=4042321920
```

Adapter Configuration Files

This section describes the configuration files for all the possible adapters.

Topper/Aggregator (TA) Adapter

This section describes the **taadapter.conf** TA Adapter configuration file .

[config] Section

The **[config]** section contains the following parameters:

- num_top_entries

  Defines how many entries that correspond to the agg_lengths parameter are reported. The default value is 50,500.

- num_services

  Defines the maximum number of recognized services (including service 0). The default value is 48.

- agg_cm_stop

  Defines whether to save all unprocessed current aggregation cycle records when stopping Cisco Collection Manager. The default value is false.

- agg_ip_type_level

  Defines whether IP type based aggregation is enabled. The default value is false.

- all_pkg_agg

  Defines whether to include "all packages" entry when package aggregation is enabled. The default value is true.

- agg_pkg_level

Defines whether package-based aggregation is enabled. The default value is false.

- avg_pkgs_per_subsc

  Defines the average number of packages per subscriber. The default value is 2.

- db_active

  Defines whether to write topper entries to the database. The default value is true.

- num_packages

  Defines the maximum number of packages per subscriber. The default value is 5000.

- ip_types

  Defines the IP version as IPv4, IPv6, or DS-Lite. Possible values are 0, 1, and 3.

```
ip_types=0,1,3 #Supported IP types 0 - IPv4, 1 - IPv6, 3 - DS-Lite.
```

- all_services_index

  Provides an index that marks the all subscribers entry in the database or CSV files. The default value is –1. Do not change this parameter.

- all_packages_index

  Provides an index that marks the "all packages" entry in the database or CSV files. The default value is –1.

- all_ip_types_index

```
all_ip_types_index=-1  #index in DB/CSV marking "all subscribers"
```

- agg_lengths

  Defines the length, in minutes, of each aggregation cycle. Each cycle must be divisible by the preceding one. If the cycle is not divisible by the preceding one, it is rounded on startup.

- time_base

  Defines the phase (time skew) of the aggregation cycles. The default value is **00:00**.

Note Do not change the all_packages_index, all_service_index, and all_ip_type index parameters.

The [peak_hours] Section

The **[peak_hours]** section contains the following parameters:

- active

  Activates or deactivates peak hours processing. The default value is false (deactivated).

- cumulative

  Enables or disables cumulative reports during peak hours. The default value is false.

- num_top_entries

  Defines how many top entries are reported during peak hours. The default value is 500.

- Mon

  Tue

  Wed

  Thu

Fri

Defines the peak hour range during weekdays. The default value is 18 to 21.

- Sat

  Sun

  Defines the peak hour range during weekends. The default value is 16 to 19.

The hour value can be a single hour or range of hours.

Top subscriber records are collected during peak hours and aggregated at the end of the corresponding peak hour. For example, if the value is Mon=18-21, subscriber records are collected from 18:00 to 21:00 (the peak hours range) and aggregated at 22:00.

Note To disable the peak hour functionality for a specific day of the week, comment out the appropriate line.

Execute the **~scmscm/scripts/updatepeakconfig.sh** script before generating the peak hour reports. This script populates the peak_hour_config table with the default peak hour details. By default, the peak_hour_config table is not created.

The [agg_cycles] Section

The **[agg_cycles]** section contains the following parameter:

- num_threads

  Defines the number of threads to execute aggregation cycle in parallel. The default value is 5.

The [rdr] Section

The **[rdr]** section contains the following parameters:

- divide_1024

  Defines whether to divide all consumptions by 1024.

  Possible values for this parameter are true and false. The default value is false.

- table_name

  Specifies the logical name of the NUR table as it appears in the **dbtables.xml** file. The default value is **NUR**.

- field_subs

  Defines the name of the subscriber ID field as it appears in the **dbtables.xml** file. The default value is **SUBSCRIBER_ID**.

- field_svc

  Defines the name of the service counter ID field as it appears in the **dbtables.xml** file. The default value is **SERVICE_ID, SUBS_USG_CNT_ID**.

- field_up

  Defines the name of the upstream volume field as it appears in the **dbtables.xml** file. The default value is **UPSTREAM_VOLUME**.

- field_down

Defines the name of the downstream volume field as it appears in the **dbtables.xml** file. The default value is **DOWNSTREAM_VOLUME**.

- field_sess

  Defines the name of the sessions field as it appears in the **dbtables.xml** file. The default value is **SESSIONS**.

- field_sec

  Defines the name of the seconds field as it appears in the **dbtables.xml** file. The default value is **SECONDS**.

- field_pkg

  Defines the name of the package-id field as it appears in the **dbtables.xml** file. The default value is PACKAGE_ID.

- field_ip_type

  Defines the name of the ip type field as it appears in the **dbtables.xml** file.

The [csv] Section

The **[csv]** section contains the following parameters:

- active

  Defines whether to activate CSV file creation.

  Possible values for this parameter are true and false. The default value is false.

- file_name_format

  Defines the format for CSV file names. The default value is yyyy-mm-dd_hh-mm-ss'.csv'.

- dir_name

  Defines the storage location for the CSV files. The default value is ~/cm/adapters/TAAdapter/csvfiles.

- write_headers

  Defines whether to write a descriptive header at the top of each CSV file.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

- metric_separator

  Defines the character to separate the metrics in the CSV file. The default value is **,** (comma).

- service_separator

  Defines the character to separate the services in the CSV file. The default value is **,** (comma).

- pkg_separator

  Defines the character to separate the packages in the CSV file. The default value is ,(comma).

- ip_type_separator

  Defines the character to separate the types of IP addresses in the CSV file. The default value is ,(comma).

The [state save] Section

The [state save] section contains the following parameters:

- active

  Defines whether to activate state saving orloading.

  Possible values for this parameter are **true** and **false**. The default value is **true**.

- file_name

  Defines the name of the state file used for saving or loading. The default value is taadapter.sav.

The [db] Section

The [db] section contains the following parameters:

- name_of_total_subs

  Defines the designation of "all subscribers" in the database.

- batch_size

  Defines how many inserts can be made in a single batch. The default value is 10.

- db_template_dir

  Defines the location of the main database configuration template relative to Collection Manager configuration directory. The configuration file contains default values for each of the three possible databases. However, only one database can be configured at a time. The possible values are:

  - Oracle: dbpacks/oracle/9204e
  - Sybase: dbpacks/sybase/ase12.5
  - MySQL: dbpacks/mysql/4.0.20

  The default value is dbpacks/sybase/ase12.5.1.

- db_template_file

  Defines the name of the main database configuration template. The default value is **main.vm**. Do not change this parameter.

- operations_timeout

  Defines the maximum time, in seconds, allowed for the completion of database operations, such as connecting, insertion, and so on. The default value is 60.

- blocking_connects

  Defines whether to block connection attempts to the database.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

- connection_timeout

  Defines the number of seconds to allow the connection attempts to the database. The default value is 900.

  This parameter is not relevant if **blocking_connects** is set to **true**.

- connection_wait_period

  Defines the number of seconds to wait between connection attempts. The default value is 10.

The [app] Section

The **[app]** section contains the following parameters:

- app_conf_file

Defines the name of the application configuration XML file. The default value is the **dbtables.xml** file.

- app_dtd_file

  Defines the name of the application configuration DTD file. The default value is dbtables.dtd.

- app_conf_dir

  Defines the location of the application configuration XML and DTD files relative to Collection Manager configuration directory. The default value is apps/scasbb/latest.

The [bench] Section

The **[bench]** section contains the following parameter:

- rate_period_msec

  Defines the time period in milliseconds between the insert rate updates. The default value is 5000.

The CSV Adapter Configuration File

This section describes the **csvadapter.conf** CSV adapter configuration file.

The [csvadapter] Section

The **[csvadapter]** section contains the following parameters:

- maxCSVFiles

  Defines the maximum number of CSV files that can be created.

  Possible values for this parameter are 1 to 9,999. The default value is 9,999.

- rdrLimit

  Defines the maximum number of RDRs that can be written to a single file.

  Possible values for this parameter are 1 to 20,000. The default value is 1,000.

- backupPreviousFiles

  Defines whether to back up the existing CSV files before overwriting them.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

- escapeMethod

  Defines the escape method for non-printable characters. Possible values are **quote**, **doublequote**, **backslash** and **url**. The default value is **quote**.

- includeRecordSource

  Defines whether to include the record source (SCE IP) in each RDR line.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

- escapeNonPrintables

  Defines whether to escape characters that cannot be printed.

  Possible values for this parameter are **true** and **false**. The default value is **false**.

Note Setting the escapeNonPrintables to true can negatively affect the performance of the adapter.

[bench] Section

The **[bench]** section contains the following parameter:

- rate_period_msec

  Defines the time period, in milliseconds, between the write rate updates. The default value is **5,000**. Set this parameter to **0** to disable the write rate updates.

The JDBC Adapter Configuration File

This section describes the **jdbcadapter.conf** JDBC adapter configuration file:

The [bench] Section

The **[bench]** section contains the following parameter:

- rate_period_msec

  Defines the time period in milliseconds between insert rate updates. The default value is 5,000.

  Set this parameter to 0 to disable the insertions.

The [db] Section

The **[db]** section contains the following parameters:

- db_connections_per_rdr_mysql

  Defines number of database connections to use per RDR for MySQL. The default value is 10.

- db_connections_per_rdr_oracle

  Defines number of database connections to use per RDR for Oracle. The default value is 3.

- db_connections_per_rdr_sybase

  Defines number of database connections to use per RDR for Sybase. The default value is 1.

Note A JDBCAdapter configured with 11 RDRs and MySQL creates 110 connections to the database. You can configure your database to accommodate the number of connections required by all the enabled adapters of Cisco Collection Manager and other programs that uses the same database like Cisco Insight Reporter.

Table B-1 describes the number of database connection required by the adapters in Cisco Collection Manager and Cisco Insight Reporter.

Table B-1 Number of Database Connection required by the Adapters in Cisco Collection Manager and Cisco Insight Reporter

Database	Cisco Collection Manager				Cisco Insight Reporter	Total Minimum Connections
	JDBCAdapter	TAAdapter	RAGAdapter	CustomAdapter		
MySQL	110	36	57	1	100	304
Oracle	30	36	19	1	100	186
Sybase	10	36	19	1	100	166

- db_template_dir

  Defines the location of the main database configuration template relative to Collection Manager configuration directory. The configuration file contains default values for each of the three possible databases. However, only one database can be configured at a time. The possible values are:

  - Oracle: dbpacks/oracle/9204e
  - Sybase: dbpacks/sybase/ase12.5.1
  - MySQL: dbpacks/mysql/4.0.20

  The default value is dbpacks/sybase/ase12.5.1.

- db_template_file

  Defines the name of the main database configuration template. The default value is **main.vm**. Do not change this parameter.

- batch_size

  Defines how many inserts can be made in a single batch. The default value is 10.

- transaction_size

  Defines how many batches can be made in a single transaction. The default value is 15.

- commit_interval

  Defines the maximum time, in seconds, between database commits. The default value is 6.

- operations_timeout

  Defines the maximum time, in seconds, allowed for the completion of database operations, such as connecting, insertion, and so on. The default value is 60.

- blocking_connects

  Defines whether to block connection attempts to the DB.

  Possible values for this parameter are **true** and **false**. The default value is **true**.

The [app] Section

The **[app]** section contains the following parameters:

- app_conf_file

  Defines the name of the application configuration XML file. The default value is the **dbtables.xml** file.

- app_dtd_file

  Defines the name of the application configuration DTD file. The default value is dbtables.dtd.

- app_conf_dir

  Defines the location of the application configuration XML and DTD files relative to Collection Manager configuration directory. The default value is apps/scasbb/latest.

RAG Adapter Configuration File

This section describes the **ragadapter.conf** RAG adapter configuration file.

The [config] Section

The [config] section contains the following parameters:

- agg_cm_stop

  Defines whether to save all unprocessed current aggregation cycle records when stopping Cisco Collection Manager. The default value is false.

- device_counting

  Defines whether to enable device counting. Possible values are true and false. By default value is false.

- device_pattern_filename

  Defines the pattern file with details to identify the mobile devices.

- device_id_filename

  Defines the pattern file with details to identifythe mobile device ids.

- domain_ext_filename

  Defines the location of the TLDS based on the domain. The default value is ~/cm/config/tlds-alpha-by-domain.txt.

- enable_video_monitor

  Defines whether to enable video monitoring. Possible values are true and false. By default value is false.

- enable_video_qoe

  Defines whether to enable Video QoE. Possible values are true and false. By default value is false.

- num_of_threads

  Defines the number of threads to execute aggregation cycles in parallel.

- video_monitor_type_filename

  Defines the file with the mapping ID details on Resolution, Bit Rate, or Duration. The details are used for Video Monitoring feature.

- video_qoe_rate_filename

  Defines the file with the logic for defining ranks for the videos. The details are used by the Video QoE feature.

- network_type_filename

Defines the location for the Radio Access Type (RAT) to network type mapping. The default value is ~/cm/config/rat-networktype.txt.

- imei_lookup

  Defines whether to look up the Type Allocation Code values present in the database on processing the Subscriber Usage RDR. Possible values for this parameter are true and false. The default value is false.

- vsa_type

  Defines the VSA type i.e GSM or CDMA to be enabled. The default value is vsa_type=gsm.

- meid_length

  Defines the number of characters in the Mobile Equipment Identifier (MEID) to be stored. The default value is 8.

- attr_index

  Defines the index position of the attribute indicator field in NUR RDR in the current Cisco Service Control Operating System version.

- attr_shift_pos

  Defines the shift position of the VSA fields in NUR RDR.

- xml_conf_dir

  Defines the location of the application configuration XML and DTD files that define the real-time aggregation performed by the RAG adapter. The default value is ~/cm/config/ragadapter.

The [housekeeper] Section

The [housekeeper] section contains the following parameter:

- interval_sec

  Defines the interval for the scheduled task to perform aggregation/sink operations. The default value is 10.

The [db] Section

The [db] section contains the following parameters:

- operations_timeout

  Defines the maximum time allowed for the completion of database operations such as connecting, insertion, and so on. The default value is 60.

- batch_size

  Defines how many inserts can be made in a single batch. The default value is 10.

- transaction_size

  Defines how many batches can be made in a single transaction. The default value is 15.

- commit_interval

  Defines the maximum time between database commits. The default value is 6.

- blocking_connects

  Defines whether to block connection attempts to the DB.

Possible values for this parameter are true and false. The default value is true.

- db_connections_per_table_mysql

  Defines number of database connections to use per table for MySQL. The default value is 3.

- db_connections_per_table_oracle

  Defines number of database connections to use per table for Oracle. The default value is 1.

- db_connections_per_table_sybase

  Defines number of database connections to use per table for Sybase. The default value is 1.

- db_template_file

  Defines the name of the main database configuration template. The default value is main.vm. Do not change this parameter.

- db_template_dir

  Defines the location of the main database configuration template relative to Collection Manager configuration directory. The configuration file contains default values for each of the three possible databases. However, only one database can be configured at a time. The possible values are:

  – Oracle: dbpacks/oracle/9204e
  – Sybase: dbpacks/sybase/ase12.5.1
  – MySQL: dbpacks/mysql/4.0.20

  The default value is dbpacks/sybase/ase12.5.1.

The [app] Section

The **[app]** section contains the following parameters:

- app_conf_file

  Defines the name of the application configuration XML file. The default value is the **dbtables.xml** file.

- app_dtd_file

  Defines the name of the application configuration DTD file. The default value is dbtables.dtd.

- app_conf_dir

  Defines the location of the application configuration XML and DTD files relative to Collection Manager configuration directory. The default value is apps/scasbb/latest.

The [bench] Section

The **[app]** section contains the following parameter:

- rate_period_msec

  Defines the time period in milliseconds between the insert rate updates. The default value is 5000.

The [qoeskip] Section

The **[qoeskip]** section contains the following parameter:

- min_dev_per

  Minimum deviation percentage configured for skipping the QoE consideration.
- max_dev_per

  Maximum deviation percentage configured for skipping the QoE consideration.

Custom Adapter Configuration File

This section describes the **customadapter.conf** adapter configuration file.

The [customadapter] section

The [customadapter] section contains the following parameters:

- agg_cm_stop

  Defines whether to save all unprocessed current aggregation cycle records when stopping Cisco Collection Manager. The default value is false.

- includeRecordSource

  Defines whether to include the record source (Cisco SCE IP) in each RDR line.

  Possible values for this parameter are true and false. The default value is *false*.

- parserClass

  Defines the parser class to load for parsing the expressions. By default, JEPParser will be used for parsing the expression.

Note The user should not change the parserClass property value.

The [bench] section

The [**bench**] section contains the following parameter:

- rate_period_msec

  Defines the time period, in milliseconds, between the write rate updates. The default value is 5000. Set the value of this parameter to zero (0) to disable the write rate updates.

The [cpa] section

The [**cpa**] section contains the following parameter:

- active

  Defines whether the Content Portal Authority Client feature is enabled. The default value is false.

- sce_ip

  Defines the IP address of the Cisco SCE devices to which the CPA client sends details. Use comma separator to enter more than one Cisco SCE.

- cpa_server

  Defines the IP address of the Content Portal Authority server.

- sce_user_pwd

  Defines the user name and password to be specified for each sce_ip in the format username:password. Use comma seperator to enter more than one username and password if multiple Cisco SCEs are configured. For example user1:pwd1, user2:pwd2. If AAA authentication login is enabled on the Cisco SCE, specify username and password that is configured on the group/local. If AAA authentication is disabled use the default username and password.

The [subs_os_info] section

The [subs_os_info] section contains the following parameters:

- active

  Defines whether to enable the subscriber OS data collection.

  Set the value of this parameter to true to enable subscriber OS data collection.

  The default value is *false*.

- acc_period

  Defines the interval between two updates of the accumulated OSFP records to the database.

  The default value is 1440 minutes.

- detection_types

  Defines the detection mechanism to use. The values are 1 - OSFP, 2 - OS based on User Agent and 3 - Device based on User Agent.

  The default value is 1,2,3.

The [db] section

The [db] section contains the following parameters:

- operations_timeout

  Defines the maximum time allowed for the completion of database operations such as connecting, insertion, and so on. The default value is 60.

- batch_size

  Defines how many inserts can be made in a single batch. The default value is 10.

- transaction_size

  Defines how many batches can be made in a single transaction. The default value is 15.

- commit_interval

  Defines the maximum time between database commits. The default value is 6.

- blocking_connects

  Defines whether to block connection attempts to the DB.

  Possible values for this parameter are true and false. The default value is true.

- db_template_file

Defines the name of the main database configuration template. The default value is main.vm. Do not change this parameter.

- db_template_dir

  Defines the location of the main database configuration template relative to Collection Manager configuration directory. The configuration file contains default values for each of the three possible databases. However, only one database can be configured at a time. The possible values are:

  - Oracle: dbpacks/oracle/9204e
  - Sybase: dbpacks/sybase/ase12.5.1
  - MySQL: dbpacks/mysql/4.0.20

  The default value is dbpacks/sybase/ase12.5.1.

The [app] section

The **[app]** section contains the following parameters:

- app_conf_file

  Defines the name of the application configuration XML file. The default value is the **dbtables.xml** file.

- app_dtd_file

  Defines the name of the application configuration DTD file. The default value is dbtables.dtd.

- app_conf_dir

  Defines the location of the application configuration XML and DTD files relative to Collection Manager configuration directory. The default value is apps/scasbb/latest.

Customadapter Configuration Example

The following is an example of the Custom Adapter Configuration:

```
[customadapter]
includeRecordSource=false
parserClass=com.cisco.scmscm.adapters.custom.parser.JEPParserFactory
agg_cm_stop=false

[bench]
rate_period_msec = 5000

[cpa]
active=false
sce_ip = 1.1.1.1,2.2.2.2,3.3.3.3
cpa_server = 4.4.4.4
sce_user_pwd=user1:pwd1

[osfp]
active=false
avg_os_per_subscriber=2
acc_period=1440

[db]
operations_timeout = 60
batch_size = 10
transaction_size = 15
commit_interval = 6
blocking_connects = true
```

```
db_template_file = main.vm
db_template_dir = dbpacks/mysql/4.0.20
#db_template_dir = dbpacks/oracle/9204e
#db_template_dir = dbpacks/sybase/ase12.5.1
#db_template_dir = dbpacks/mysql/4.0.20

[app]
app_conf_file = dbtables.xml
app_dtd_file = dbtables.dtd
app_conf_dir = apps/scasbb/latest
```

Device Count Configuration File Example

The following is an example of the Device Count Configuration:

```
[device_names]
Iphone=iPhone

Ipad=iPad

Ipod=iPod

Blackberry=BlackBerry 9900|BlackBerry 9700|BlackBerry 9860|BlackBerry 9850|BlackBerry
9800|BlackBerry
9700|BlackBerry9650|BlackBerry9630|BlackBerry9550|BlackBerry9520|BlackBerry
9380|BlackBerry 9360|BlackBerry9330|BlackBerry
9300|BlackBerry9105|BlackBerry9000|BlackBerry8900|BlackBerry8700|BlackBerry8530|BlackBerry
8520|BlackBerry8330|BlackBerry8320|BlackBerry8310|BlackBerry8110m|BlackBerry8100|BlackBerr
y7520|BlackBerry7290|BlackBerry7250|BlackBerry7130e|BlackBerry7100i|BlackBerry7100|BlackBe
rry

SamsungGalaxy=Galaxy|GT-S[0-9]+|GT-B[0-9]+|GT-I[0-9]+|GT-N[0-9]+|GT-P[0-9]+|SGH-[A-Z][0-9]
+|SGP-[A-Z][0-9]+|SHW-M[0-9]+[A-Z]|SM-T[0-9]+|SM-G[0-9]+|SM-N[0-9]+|SM-C[0-9]+|SM-P[0-9]+|
YP-G70

Samsung=Samsung

NokiaLumia=Lumia

Nokia=NokiaN97i|NokiaE52-1|NokiaC7-00|NokiaC5-00|Nokia5250|NokiaE66|NokiaN81|NokiaE72|Noki
a6120c|Nokia6700s|NokiaE63|NokiaE5-00|Nokia6220c|NokiaN78|Nokia5230|Nokia5230/GoBrowser|No
kiaN86_8MP|NokiaN79|NokiaN97_mini|Nokia6124c|NokiaX6|NokiaN97|NokiaN95_8GB|NokiaN95|NokiaN
86_8MP|NokiaN85|NokiaN82|NokiaN70|NokiaC6-00|Nokia6120c|Nokia5320XpressMusic|Nokia5530Xpres
sMusic|Nokia5730XpressMusic|Nokia5800XpressMusic|Nokia5630XpressMusic|Nokia5700XpressMusi
c|Nokia

GoogleNexus=Nexus

HTC=HTC Sensation|HTC_IncredibleS_S710e|HTC Vision|HTC
Desire|HTC_Pyramid|HTC_DesireS_S510e|HTC
Legend|HTC_DesireHD_A9191|HTC_DesireS_S510e|HTC_DesireZ_A7272|HTC_Wildfire_A3333|HTC_Touch
_3G|Desire|Sensation|HTC

SonyEricsson=SonyEricssonW800i|SonyEricssonW800c|SonyEricssonS700i|SonyEricssonW700c|SonyE
ricssonK750c|SonyEricssonK530i|SonyEricssonK530c|SonyEricssonK510c|SonyEricssonK506c|SonyE
ricssonK500c|SonyEricssonK300c|SonyEricssonE10a|SonyEricssonX10i|SonyEricsson|LT[0-9]{2}i|
MT[0-9]{2}i
```

```
SonyXperia=ST[0-9]{2}i|C6903|C6902|C6906|C6943|C6806|C6802|C6833|SGP511|SGP512|D5322|C6916
|D5503|C1904|C1905|C2004|C2005|C5502|C5503|C2104|C2105|C5303|C5306|C6603|C6602|C6502|C6502
|C6503|SGP321

LG=LG-L160L|LG-LU3000|LG-P505R|LG-P[0-9]+|LG-D[0-9]+|LG-V[0-9]+|LG-E[0-9]+|LG-P[0-9]+

Motorola=XT[0-9]{3,}

Nintendo=Nintendo|Nitro

Xbox=XboX

PSP=PlayStation Portable|PlayStation Vita

Playstation=Playstation|Sony PS2|Sony PS3|Sony PS4

Kindle=Kindle|KFTT

Silk-Accelerated=Silk-Accelerated

WindowsPC=Windows NT 5.1|Windows NT 5.2|Windows NT 6.0|Windows NT 6.1|Windows NT
6.2|Windows NT 6.3|Windows|Win32|Win64|Win7|Win8|WinXP

Macintosh=Macintosh|Mac OS|MacBook|Darwin|MacOS|Mac_OS

PC=i386|i586|i686|x86_64|x86|x64
```