





**October 21, 2019**

**Cisco IM and Presence Service**

**Configuration Report**

**Sample Report IM and Presence**

**As-Built Documentation for project**

**Document Information - Universal**

**Version Status**

|  |  |  |
| --- | --- | --- |
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**Client Information**

| **Prepared for:** | **Large Company Inc.** |
| --- | --- |
| Name: | H. Boss |
| Title: | CEO |
| Address: | Corporate Way |
| Telephone: | 1 (555) 56987424 |
| Email: | hboss@largecompany.com |

**Presenter Information**

| **Prepared by:** | **Config Reports Ltd.** |
| --- | --- |
| Name: | Jennifer SMITH |
| Title: | Ms. |
| Address: | 22 Main Street |
| Telephone: | 123456787 |
| Email: | JSmith@email.com |

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# 1 Report Information

This configuration report contains the configuration objects for the IM and Presence cluster.

## 1.1 Report Generation

This configuration report for Cisco Unified CM IM and Presence cluster has the following details:

|  |  |
| --- | --- |
| **Report Info** | |
| Report Date | 21/10/2019 2:42:52 PM |
| Report generated for | Sample Report IM and Presence |
| Description | As-Built Documentation for project |
| **Server Info** | |
| IMP version | 12.5.1.10000(6) |
| IMP IP | 10.5.1.122 |
| **Report Settings** | |
| Report Type | Direct Report |
| Visual Style | Blu Dark.css |
| Report Content | All objects |
| Template HTML | CUPSreportTemplate.htm |
| Template Word | Gears-Blue-universal.doc |
| **Report Tool Info** | |
| Report Tool Version | 12.0.19 / 19 Oct 2019 |
| Report Tool License | Licensed [Prof all] |

# 2 System

The System section contains the following items:

* Server
* Services
* Status
* Application Listeners
* Security
* Settings
* Incoming ACL
* Outgoing ACL
* TLS Context Configuration
* TLS Peer Subjects
* Service Parameters
* Enterprise Parameters

## 2.1 System - Server

The following IM and Presence servers are present in this cluster:

| **Server** | | | | |
| --- | --- | --- | --- | --- |
| **Host Name/IP Address** | **Node Type** | **Node Role** | **MAC Address** | **Description** |
| 10.5.1.120 | Publisher | Voice |  |  |
| 10.5.1.122 | Publisher | Presence |  |  |

## 2.2 System - Status

The IM and Presence system status shows the Sync Information and System Information. The system status displays the IP address of the publisher server and when the sync occurred.

System Information displays the following read-only fields:

* Number of end users
* Number of phone devices
* Number of licensed IM and Presence end users
* Number of licensed Cisco Unified Personal Communicator end users
* Number of assigned Microsoft Office Communicator end users
* Number of end users associated with an inter-cluster peer

| **Cisco Unified Presence System Status** | |
| --- | --- |
| **Name** | **Value** |
| Publisher: | 10.5.1.120 |
| Sync Status: | Completed 2019-09-16 00:35:43 |
| No. End users: | 119 |
| No. Phone Devices: | 13 |
| No. Licensed Cisco Unified Presence (CUP) End users: | 2 |
| No. Licensed Cisco Unified Personal Communicator (CUPC) End users: | 2 |
| No. Assigned Microsoft Office Communicator (MOC) End users: | 0 |
| No. End users Associated with Intercluster Peer: 10.5.1.152 | 1 |

## 2.3 System - CUCM Publisher

The following Cisco Unified Communications Manager (CUCM) Publisher is configured. Data will be synchronized from the publisher to the IM and Presence Service cluster.

| **CUCM Publisher Configuration** | |
| --- | --- |
| **Name** | **Value** |
| CUCM Publisher Hostname | CUCM120 |
| CUCM Publisher IP Address | 10.5.1.120 |
| AXL Username | admin |
| Sync Status | Completed 2019-09-16 00:35:43 |
| CUCM Version | 12.5.1.10000(22) |

## 2.4 System - Services

The following services are present on this server:

| **Services** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Server Name** | **Node Type** | **Service Name** | **Status** | **Activation Status** | **Start Time** |
| 10.5.1.122 | Publisher | A Cisco DB | Started | Activated | Mon Sep 16 00:25:38 2019 |
| 10.5.1.122 | Publisher | A Cisco DB Replicator | Started | Activated | Mon Sep 16 00:25:39 2019 |
| 10.5.1.122 | Publisher | Cisco AMC Service | Started | Activated | Mon Sep 16 00:26:12 2019 |
| 10.5.1.122 | Publisher | Cisco AXL Web Service | Started | Activated | Mon Sep 16 00:26:22 2019 |
| 10.5.1.122 | Publisher | Cisco Audit Event Service | Started | Activated | Mon Sep 16 00:26:13 2019 |
| 10.5.1.122 | Publisher | Cisco CDP | Started | Activated | Mon Sep 16 00:25:54 2019 |
| 10.5.1.122 | Publisher | Cisco CDP Agent | Started | Activated | Mon Sep 16 00:25:48 2019 |
| 10.5.1.122 | Publisher | Cisco CallManager Serviceability | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | Cisco CallManager Serviceability RTMT | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | Cisco Certificate Expiry Monitor | Started | Activated | Mon Sep 16 00:26:05 2019 |
| 10.5.1.122 | Publisher | Cisco Client Profile Agent | Started | Activated | Mon Sep 16 00:26:23 2019 |
| 10.5.1.122 | Publisher | Cisco Config Agent | Started | Activated | Mon Sep 16 00:26:16 2019 |
| 10.5.1.122 | Publisher | Cisco DRF Local | Started | Activated | Mon Sep 16 00:26:04 2019 |
| 10.5.1.122 | Publisher | Cisco Database Layer Monitor | Started | Activated | Mon Sep 16 00:25:40 2019 |
| 10.5.1.122 | Publisher | Cisco IM and Presence Admin | Started | Activated | Mon Sep 16 00:26:19 2019 |
| 10.5.1.122 | Publisher | Cisco IM and Presence Data Monitor | Started | Activated | Mon Sep 16 00:25:59 2019 |
| 10.5.1.122 | Publisher | Cisco Intercluster Sync Agent | Started | Activated | Mon Sep 16 00:26:03 2019 |
| 10.5.1.122 | Publisher | Cisco Log Partition Monitoring Tool | Started | Activated | Mon Sep 16 00:25:53 2019 |
| 10.5.1.122 | Publisher | Cisco Login Datastore | Started | Activated | Mon Sep 16 00:25:41 2019 |
| 10.5.1.122 | Publisher | Cisco Management Agent Service | Started | Activated | Mon Sep 16 00:26:14 2019 |
| 10.5.1.122 | Publisher | Cisco OAM Agent | Started | Activated | Mon Sep 16 00:26:17 2019 |
| 10.5.1.122 | Publisher | Cisco Presence Datastore | Started | Activated | Mon Sep 16 00:26:09 2019 |
| 10.5.1.122 | Publisher | Cisco Presence Engine | Started | Activated | Tue Oct 8 02:12:28 2019 |
| 10.5.1.122 | Publisher | Cisco RCC Device Selection Service | Started | Activated | Mon Sep 16 00:26:20 2019 |
| 10.5.1.122 | Publisher | Cisco RIS Data Collector | Started | Activated | Mon Sep 16 00:26:11 2019 |
| 10.5.1.122 | Publisher | Cisco RTMT Reporter Servlet | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | Cisco Route Datastore | Started | Activated | Mon Sep 16 00:25:42 2019 |
| 10.5.1.122 | Publisher | Cisco SIP Proxy | Started | Activated | Tue Oct 8 02:45:31 2019 |
| 10.5.1.122 | Publisher | Cisco SIP Registration Datastore | Started | Activated | Mon Sep 16 00:26:10 2019 |
| 10.5.1.122 | Publisher | Cisco Server Recovery Manager | Started | Activated | Mon Sep 16 00:26:00 2019 |
| 10.5.1.122 | Publisher | Cisco Sync Agent | Started | Activated | Mon Sep 16 00:33:33 2019 |
| 10.5.1.122 | Publisher | Cisco Syslog Agent | Started | Activated | Mon Sep 16 00:25:49 2019 |
| 10.5.1.122 | Publisher | Cisco Tomcat | Started | Activated | Mon Sep 16 00:25:43 2019 |
| 10.5.1.122 | Publisher | Cisco Tomcat Stats Servlet | Started | Activated | Mon Sep 16 00:26:08 2019 |
| 10.5.1.122 | Publisher | Cisco Trace Collection Service | Started | Activated | Mon Sep 16 00:26:07 2019 |
| 10.5.1.122 | Publisher | Cisco Trace Collection Servlet | Started | Activated | Mon Sep 16 00:26:06 2019 |
| 10.5.1.122 | Publisher | Cisco XCP Authentication Service | Started | Activated | Tue Oct 8 03:29:30 2019 |
| 10.5.1.122 | Publisher | Cisco XCP Config Manager | Started | Activated | Mon Sep 16 00:26:01 2019 |
| 10.5.1.122 | Publisher | Cisco XCP Connection Manager | Started | Activated | Tue Oct 8 03:29:30 2019 |
| 10.5.1.122 | Publisher | Cisco XCP Directory Service | Started | Activated | Tue Oct 8 03:29:30 2019 |
| 10.5.1.122 | Publisher | Cisco XCP Router | Started | Activated | Mon Sep 16 00:26:18 2019 |
| 10.5.1.122 | Publisher | Cisco XCP XMPP Federation Connection Manager | Started | Activated | Thu Oct 10 00:44:30 2019 |
| 10.5.1.122 | Publisher | Host Resources Agent | Started | Activated | Tue Sep 17 06:29:19 2019 |
| 10.5.1.122 | Publisher | MIB2 Agent | Started | Activated | Mon Sep 16 00:25:45 2019 |
| 10.5.1.122 | Publisher | Platform Administrative Web Service | Started | Activated | Mon Sep 16 00:26:21 2019 |
| 10.5.1.122 | Publisher | Platform Communication Web Service | Started | Activated | Mon Sep 16 00:26:15 2019 |
| 10.5.1.122 | Publisher | SNMP Master Agent | Started | Activated | Tue Sep 17 06:29:14 2019 |
| 10.5.1.122 | Publisher | SOAP -Log Collection APIs | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | SOAP -Performance Monitoring APIs | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | SOAP -Real-Time Service APIs | Started | Activated | Mon Sep 16 00:30:46 2019 |
| 10.5.1.122 | Publisher | System Application Agent | Started | Activated | Mon Sep 16 00:25:47 2019 |
| 10.5.1.122 | Publisher | Cisco Bulk Provisioning Service | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco Serviceability Reporter | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco XCP File Transfer Manager | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco XCP Message Archiver | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco XCP SIP Federation Connection Manager | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco XCP Text Conference Manager | Stopped | Deactivated | < None > |
| 10.5.1.122 | Publisher | Cisco XCP Web Connection Manager | Stopped | Deactivated | < None > |

## 2.5 System - Application Listeners

You can configure application listeners for the SIP proxy server, presence engine, and profile agent. The system binds each application listener to a specific address and port combination. If you choose TLS protocol, you must also choose a TLS context.

| **Transport Listener** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Port** | **Listener Type** | **Service** | **Transport Type** | **TLS Context** |
| ANewListenerForTesting | 5059 | SIP | Cisco SIP Proxy | UDP |  |
| Default Cisco IM and Presence Service HTTP Listener | 8082 | HTTP | Cisco SIP Proxy | TCP |  |
| Default Cisco IM and Presence Service HTTPS Listener | 8083 | HTTPS | Cisco SIP Proxy | TLS | Default\_Cisco\_UP\_3rd\_Party\_API\_TLS\_Context |
| Default Cisco IM and Presence Service XMPP Federation Listener | 5269 | XMPP | Cisco XCP XMPP Federation Connection Manager | TCP |  |
| Default Cisco Presence Engine TCP Listener | 5070 | SIP | Cisco Presence Engine | TCP |  |
| Default Cisco Presence Engine UDP Listener | 5070 | SIP | Cisco Presence Engine | UDP |  |
| Default Cisco SIP Proxy TCP Listener | 5060 | SIP | Cisco SIP Proxy | TCP |  |
| Default Cisco SIP Proxy TLS Listener - Peer Auth | 5062 | SIP | Cisco SIP Proxy | TLS | Default\_Cisco\_UP\_SIP\_Proxy\_Peer\_Auth\_TLS\_Context |
| Default Cisco SIP Proxy TLS Listener - Server Auth | 5061 | SIP | Cisco SIP Proxy | TLS | Default\_Cisco\_UP\_SIP\_Proxy\_Auth\_TLS\_Context |
| Default Cisco SIP Proxy UDP Listener | 5060 | SIP | Cisco SIP Proxy | UDP |  |

## 2.6 Security

The Security section contains the following items:

* Settings
* Incoming ACL
* Outgoing ACL
* TLS Context Configuration
* TLS Peer Subjects

### 2.6.1 Security - Settings

This section contains settings for secure modes of XMPP traffic, the preferred transport protocol for SIP intracluster traffic, and the domain name for the XMPP server-to-server certificate.

| **Security Settings** | |
| --- | --- |
| **Name** | **Value** |
| Enable XMPP Client to IM/P Service Secure Mode | Y |
| Enable XMPP Router-to-Router Secure Mode | N |
| Enable Web Client to IM/P Service Secure Mode | Y |
| Enable Wildcards in XMPP Federation Security Certificates | N |
| SIP Intra-cluster Proxy-to-Proxy Transport Protocol | TCP |

### 2.6.2 Security - Incoming ACL

The Access Control List (ACL) configure patterns that control which hosts and domains can access Cisco Unified Presence.

Configure an address which will be added to the SIP Proxy list of allowed incoming addresses. Note: any address added to this list will bypass digest authentication. By default, the behavior is to deny all incoming requests.

| **Incoming ACL Entry** | |
| --- | --- |
| **Address Pattern** | **Description** |
| 10.5.1 | Allow from our IP range |
| 10.5.1.120 | System Generated Allow Rule |
| 10.5.1.122 | System Generated Allow Rule |
| 10.5.1.152 | System Generated Allow Rule |
| microsoft.com | System Generated Allow Rule |

### 2.6.3 Security - Outgoing ACL

The Outgoing Access Control List (ACL) configures patterns that control which outgoing hosts and domains can have access to the network from Cisco Unified Presence.

Configure an address which will be added to the SIP Proxy list of allowed outgoing addresses. Note: any address added to this list will bypass digest authentication. By default, the behavior is to deny all outgoing requests.

| **Outgoing ACL Entry** | |
| --- | --- |
| **Address Pattern** | **Description** |
| 10.5.1 | Allow to our IP range |
| 10.5.1.120 | System Generated Allow Rule |
| 10.5.1.122 | System Generated Allow Rule |
| 10.5.1.152 | System Generated Allow Rule |

### 2.6.4 Security - TLS Context Configuration

Each transport listener can have a single associated transport layer security (TLS) context, and each TLS context can have multiple ciphers and peer subjects.

TLS context configuration enables you to map ciphers and peer subjects to a transport listener.

| **TLS Context Configuration** | |
| --- | --- |
| **Name** | **Configuration** |
| Default\_Cisco\_UP\_3rd\_Party\_API\_TLS\_Context | |  |  | | --- | --- | | **TLS Context Information** | | | Description | Default TLS context for Cisco 3rd Party API specifying an authorization policy of Peer | | Authorization Policy | Server | | Disable Empty TLS Fragments | N | | **TLS Cipher Mapping** | | | Selected TLS Ciphers | TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA TLS\_WITH\_RSA\_AES\_128\_CBC\_SHA TLS\_WITH\_RSA\_AES\_256\_CBC\_SHA | | **TLS Peer Subject Mapping** | | | Selected TLS Peer Subjects |  | |
| Default\_Cisco\_UP\_SIP\_Proxy\_Auth\_TLS\_Context | |  |  | | --- | --- | | **TLS Context Information** | | | Description | Default TLS context for Cisco SIP Proxy specifying an authorization policy of Server | | Authorization Policy | Server | | Disable Empty TLS Fragments | N | | **TLS Cipher Mapping** | | | Selected TLS Ciphers | TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA TLS\_WITH\_RSA\_AES\_128\_CBC\_SHA TLS\_WITH\_RSA\_AES\_256\_CBC\_SHA | | **TLS Peer Subject Mapping** | | | Selected TLS Peer Subjects |  | |
| Default\_Cisco\_UP\_SIP\_Proxy\_Peer\_Auth\_TLS\_Context | |  |  | | --- | --- | | **TLS Context Information** | | | Description | Default TLS context for Cisco SIP Proxy specifying an authorization policy of Peer | | Authorization Policy | Peer | | Disable Empty TLS Fragments | N | | **TLS Cipher Mapping** | | | Selected TLS Ciphers | TLS\_ECDHE\_ECDSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_ECDSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256 TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 TLS\_RSA\_WITH\_3DES\_EDE\_CBC\_SHA TLS\_WITH\_RSA\_AES\_128\_CBC\_SHA TLS\_WITH\_RSA\_AES\_256\_CBC\_SHA | | **TLS Peer Subject Mapping** | | | Selected TLS Peer Subjects | NewPeerSubjectName | |

### 2.6.5 Security - TLS Peer Subjects

TLS peer subject configuration enables you to create and modify peer subjects that you can associate with a transport listener.

| **TLS Peer Subjects** | |
| --- | --- |
| **Name** | **Description** |
| NewPeerSubjectName | This is just to test reports |

## 2.7 System - Service Parameters

The following are the service parameters for particular services, per server:

Please note that only the common clusterwide parameters are listed as not all parameters can be retrieved.

| **Service Parameters - Clusterwide Parameters (Parameters that apply to all servers)** | | |
| --- | --- | --- |
| **Service** | **Parameter Name** | **Parameter Value** |
| Cisco AMC Service | Primary Collector | 10.5.1.120 |
| Cisco AMC Service | Failover Collector | 10.5.1.122 |
| Cisco AMC Service | Amc Collection Enabled | T |
| Cisco AMC Service | Amc Collection Polling Rate | 30 |
| Cisco AMC Service | Amc Link Service Sync Up Period | 60 |
| Cisco AMC Service | RMI Registry Port | 1099 |
| Cisco AMC Service | RMI Object Port | 1090 |
| Cisco AMC Service | Alert Mgr Enabled | T |
| Cisco AMC Service | Logger Enabled | T |
| Cisco Bulk Provisioning Service | Default BPS Job Processing Option | 1 |
| Cisco Bulk Provisioning Service | Default BPS Job Processing Time |  |
| Cisco Bulk Provisioning Service | Default BPS Throttling Limit | 1000 |
| Cisco Bulk Provisioning Service | BPS Log File Location | /var/log/active/cm/log/bps/ |
| Cisco Bulk Provisioning Service | Stop BPS Job Processing | F |
| Cisco Config Agent | Heart Beat Interval | 60 |
| Cisco Config Agent | Connect Timeout | 30 |
| Cisco Config Agent | Max Network Outage | 240 |
| Cisco Config Agent | Heart Beat Port | 8600 |
| Cisco Config Agent | Offline Message Heart Beat Interval | 60 |
| Cisco Config Agent | Max Offline Message Time To Live | 14 |
| Cisco Config Agent | Roster Heart Beat Interval | 60 |
| Cisco Config Agent | Max Roster Entry Time To Live | 30 |
| Cisco Database Layer Monitor | Device Name Validation Enabled | T |
| Cisco Database Layer Monitor | CDR Purge Time | 00:00 |
| Cisco Database Layer Monitor | CDR Purge Window | 12 |
| Cisco Database Layer Monitor | Table Out Of Sync | 0 |
| Cisco Database Layer Monitor | Sort End User Locale | 1 |
| Cisco Database Layer Monitor | Axl Change Notification | 1 |
| Cisco Database Layer Monitor | Axl Change Notification Queue Size | 20000 |
| Cisco Database Layer Monitor | Valid Namespace | T |
| Cisco Database Layer Monitor | SPL Trace | 1 |
| Cisco Database Layer Monitor | SPL App Trace Level | 1 |
| Cisco Database Layer Monitor | Maintenance Task Trace | 0 |
| Cisco Database Layer Monitor | Enable AXL Encoding Info | F |
| Cisco Database Layer Monitor | Check For Namespace In Tag | T |
| Cisco Database Layer Monitor | Validate Service URL | T |
| Cisco Database Layer Monitor | Replication Monitor Timeout | 1800 |
| Cisco Database Layer Monitor | Maximum Inactive Period | 0 |
| Cisco Database Layer Monitor | Disable User | 0 |
| Cisco IM and Presence Data Monitor | Eu Watcher Basic Check Interval | 30 |
| Cisco Intercluster Sync Agent | Enable Auto Recovery For IC Peer Periodic Syncing Failure | 1 |
| Cisco Presence Engine | Presence Viewer Photo URI | MyPhotoUri |
| Cisco Presence Engine | Messaging Port | 50000 |
| Cisco Presence Engine | Aggregate Shared Lines | On |
| Cisco Presence Engine | Cupc Tuple ID | cisco-upc |
| Cisco Presence Engine | Client Emulation Resource Name | composed |
| Cisco Presence Engine | Notify Body Size | 180000 |
| Cisco Presence Engine | Presence Change Throttle Rate | 50 |
| Cisco Presence Engine | Calendar Spread | 50 |
| Cisco Presence Engine | Exchange Timeout | 3 |
| Cisco Presence Engine | Exchange Queue | 2200 |
| Cisco Presence Engine | Exchange Threads | 60 |
| Cisco Presence Engine | EWS Status Frequency | 60 |
| Cisco Presence Engine | Office365 Calendar Information Pull Interval | 60 |
| Cisco RIS Data Collector | Ris Cluster Tcp Port | 2555 |
| Cisco RIS Data Collector | Ris Client Tcp Port | 2556 |
| Cisco RIS Data Collector | Ris Client Timeout | 30 |
| Cisco RIS Data Collector | Ris Cleanup Time Ofthe Day | 22:00 |
| Cisco RIS Data Collector | Ris Unused CM Device Store Period | 3 |
| Cisco RIS Data Collector | Ris Unused CTI Device Store Period | 1 |
| Cisco RIS Data Collector | Ris Max Num Unused CTI Records | 3000 |
| Cisco RIS Data Collector | Ris TLC Throttle Enable | T |
| Cisco RIS Data Collector | Ris TLCIO Throttle Limit | 10 |
| Cisco RIS Data Collector | Ris TLCCPU Throttle Limit | 80 |
| Cisco RIS Data Collector | Ris TLC Throttle Poll Rate | 250 |
| Cisco RIS Data Collector | Ris TLCSFTP Keepalive Delay | 5000 |
| Cisco RIS Data Collector | Ris System Access Max Processes Threads | 2500 |
| Cisco SIP Proxy | Virtual IP Address |  |
| Cisco SIP Proxy | SR V\_ Cluster Name |  |
| Cisco SIP Proxy | CUCM Domain | lab.test |
| Cisco SIP Proxy | Server Name |  |
| Cisco SIP Proxy | Port | 8081 |
| Cisco SIP Proxy | Stateful Server | On |
| Cisco SIP Proxy | Server Type | Proxy |
| Cisco SIP Proxy | Start Servers | 20 |
| Cisco SIP Proxy | Min Spare Servers | 20 |
| Cisco SIP Proxy | Max Spare Servers | 20 |
| Cisco SIP Proxy | Max Clients | 20 |
| Cisco SIP Proxy | Max Invite Retx Count | 3 |
| Cisco SIP Proxy | Max Non Invite Retx Count | 6 |
| Cisco SIP Proxy | Max Requests Per Child | 1000000 |
| Cisco SIP Proxy | Sip Tcp Max Connect Timeout | 10000 |
| Cisco SIP Proxy | Sip Tcp Reuse Connection | Off |
| Cisco SIP Proxy | Persist TCP Connections | On |
| Cisco SIP Proxy | Shared Memory Size | 512000000 |
| Cisco SIP Proxy | Proxy Address Resolution Type | IP |
| Cisco SIP Proxy | Add Record Route | On |
| Cisco SIP Proxy | Add Transport In Record Route | t |
| Cisco SIP Proxy | Sip Resolve Local Contacts In Redirect Mode | Off |
| Cisco SIP Proxy | Recursive | On |
| Cisco SIP Proxy | Numeric Username Interpretation | E164\_IP |
| Cisco SIP Proxy | Numeric Username Character Set | +0123456789.-()#\* |
| Cisco SIP Proxy | A Record\_ IP Addr | On |
| Cisco SIP Proxy | Allow NAPT Rlookup | On |
| Cisco SIP Proxy | Transport Pref Order | TLS\_TCP\_UDP |
| Cisco SIP Proxy | Sip Route Hdr Transport Type | UDP |
| Cisco SIP Proxy | Diff Serv Value | 0x60 |
| Cisco SIP Proxy | Allow Sip Tls Conversion To Sip | On |
| Cisco SIP Proxy | Sip Tls Session Timeout | 300 |
| Cisco SIP Proxy | Max MTU Size | 1300 |
| Cisco SIP Proxy | Contact Failover\_ On All But | 481,487 |
| Cisco SIP Proxy | Cisco\_ Numexpand | On |
| Cisco SIP Proxy | Num Expand Auth User Name | On |
| Cisco SIP Proxy | Cisco\_ Routing | On |
| Cisco SIP Proxy | Cisco\_ Routing\_ Use\_ Domain\_ Routing | On |
| Cisco SIP Proxy | Cisco\_ Route\_ Fail | On |
| Cisco SIP Proxy | Route Embed Template1 | 74..78xxxxx\* |
| Cisco SIP Proxy | Route Embed Template2 | 73..78xxxx\* |
| Cisco SIP Proxy | Route Embed Template3 |  |
| Cisco SIP Proxy | Route Embed Template4 |  |
| Cisco SIP Proxy | Route Embed Template5 |  |
| Cisco SIP Proxy | Privacy | On |
| Cisco SIP Proxy | Privacy With PAI | On |
| Cisco SIP Proxy | Privacy With RPID | Off |
| Cisco SIP Proxy | Privacy With Diversion | Off |
| Cisco SIP Proxy | Privacy Use PAI Domain | On |
| Cisco SIP Proxy | Authentication | On |
| Cisco SIP Proxy | Method List | INVITE,REGISTER,MESSAGE,PUBLISH,NOTIFY,SUBSCRIBE |
| Cisco SIP Proxy | Sip T1 In Ms | 500 |
| Cisco SIP Proxy | Sip T2 In Ms | 4000 |
| Cisco SIP Proxy | Sip T3 In Ms | 60000 |
| Cisco SIP Proxy | Sip T4 In Ms | 32000 |
| Cisco SIP Proxy | Federation Routing CUPFQDN | IMP122.lab.test-public.lab.test |
| Cisco SIP Proxy | Default Federation Routing Domain | aol.com |
| Cisco SIP Proxy | Microsoft Fed Agent Headers | Microsoft,UCCAPI,LCC,RTC,UCCP |
| Cisco SIP Proxy | IM Gateway Status | On |
| Cisco SIP Proxy | IM Gateway Timeout | 600 |
| Cisco SIP Proxy | IM Gateway Err Msg | Your IM could not be delivered. |
| Cisco Server Recovery Manager | Service Port | 21999 |
| Cisco Server Recovery Manager | Admin Rpc Port | 20075 |
| Cisco Server Recovery Manager | Critical Service Down Delay | 90 |
| Cisco Server Recovery Manager | Enable Automatic Fallback | F |
| Cisco Server Recovery Manager | Init Keep Alive Timeout | 120 |
| Cisco Server Recovery Manager | Keep Alive Timeout | 60 |
| Cisco Server Recovery Manager | Keep Alive Interval | 15 |
| Cisco Serviceability Reporter | RTMT Reporter Node | 10.5.1.120 |
| Cisco Serviceability Reporter | RTMT Report Generation Time | 30 |
| Cisco Serviceability Reporter | RTMT Report Deletion Age | 7 |
| Cisco Sync Agent | Forced Sync | F |
| Cisco Sync Agent | Num Of Rows Grabbed Each Time | 2000 |
| Cisco Sync Agent | IM Presence Domains Mode | Automatic |
| Cisco XCP Connection Manager | Connection Byte Limit Option | F |
| Cisco XCP Connection Manager | Max Accepted Packet Size | 20000 |
| Cisco XCP File Transfer Manager | Aft-extfs-freespace-lower | 10 |
| Cisco XCP File Transfer Manager | Aft-extfs-freespace-upper | 15 |
| Cisco XCP Message Archiver | Max-queue-size | 100000 |
| Cisco XCP Router | R2 R\_routing\_enabled | t |
| Cisco XCP Router | Router-db-poolsize | 11 |
| Cisco XCP Router | Max-jsmdb-requests | 1000 |
| Cisco XCP Router | Resume-jsmdb-requests | 500 |
| Cisco XCP Router | Max-sessions | 10 |
| Cisco XCP Router | Enable-stream-management | t |
| Cisco XCP Router | Max-stream-management-timeout | 60 |
| Cisco XCP Router | Max-stream-management-buffer-size | 100 |
| Cisco XCP Router | Stream-management-req-ack-rate | 5 |
| Cisco XCP Router | Enable-multi-device-messaging | t |
| Cisco XCP Router | Enable-push-ha | t |
| Cisco XCP SIP Federation Connection Manager | Max-sockets-sip | 1000 |
| Cisco XCP SIP Federation Connection Manager | Cm-thread-count-sip | 3 |
| Cisco XCP SIP Federation Connection Manager | Connect-attempts-sip | 10 |
| Cisco XCP SIP Federation Connection Manager | Connect-attempts-delay-secs-sip | 30 |
| Cisco XCP SIP Federation Connection Manager | Sipgw-thread-count-xmppout-messages | 3 |
| Cisco XCP SIP Federation Connection Manager | Sipgw-thread-count-sip-processing | 3 |
| Cisco XCP SIP Federation Connection Manager | Sipgw-max-subscriptions | 200000 |
| Cisco XCP SIP Federation Connection Manager | Sipgw-max-im-sessions | 25000 |
| Cisco XCP Text Conference Manager | Max-db-queue-size | 100000 |
| Cisco XCP Web Connection Manager | Http-binding-path-handled | /httpbinding |
| Cisco XCP XMPP Federation Connection Manager | Max-sockets-xmpp | 1000 |
| Cisco XCP XMPP Federation Connection Manager | Cm-thread-count-xmpp | 3 |
| Cisco XCP XMPP Federation Connection Manager | Connect-attempts-xmpp | 10 |
| Cisco XCP XMPP Federation Connection Manager | Connect-attempts-delay-secs-xmpp | 30 |
| Cisco XCP XMPP Federation Connection Manager | Keepalive | 0 |
| Cisco XCP XMPP Federation Connection Manager | Keepalive-interval | 60 |
| Cisco XCP XMPP Federation Connection Manager | Keepalive-text | keepalive |
| Cisco XCP XMPP Federation Connection Manager | Xmppdin-idle-timeout-secs | 3600 |
| Cisco XCP XMPP Federation Connection Manager | Dialback-timeout | 30 |
| Cisco XCP XMPP Federation Connection Manager | Xmppdout-idle-timeout-secs | 3600 |

## 2.8 System - Enterprise Parameters

Enterprise parameters provide default settings that apply to all devices and services in the same cluster. A cluster is a set of servers that share the same database. When you install a new server, it uses the enterprise parameters to set the initial values of its device defaults.

You cannot add or delete enterprise parameters, but you can update existing enterprise parameters.

| **Enterprise Parameters** | |
| --- | --- |
| **Parameter Name** | **Parameter Value** |
| Cluster ID | StandAloneCluster |
| Max Number Device Level Trace | 12 |
| Enable Trace Compression | 0 |
| DSCP For SCCP Phone Services | 40 |
| DSCP For SCCP Phone Config | 96 |
| DSCP For Cm2 Dvce | 96 |
| Connection Monitor Duration | 120 |
| Auto Registration Phone Protocol | 0 |
| Auto Registration Legacy Mode | F |
| Phone Template Selection | 1 |
| BLF For Call Lists | 1 |
| Advertise G722 Codec | 1 |
| Phone Personalization | 0 |
| Phone Service Display | 0 |
| Feature Control Policy | f5971ce3-43fd-0c88-6673-7892a22a3b47 |
| Wifi Hotspot Profile | 53e42ff1-d739-204a-19d7-c060f60ba8c4 |
| IMS Inter Operator Id | IMS Inter Operator Identification |
| URI Lookup Policy | 0 |
| CCM Admin Max Items In List | 250 |
| CCM Admin Max Items In Lookup | 1000 |
| CCM Admin Enable Dependency Records | T |
| Auto Select DN On Any Partition | 0 |
| CCM User Options Portal Default Server |  |
| CCM User Show Speed Dial Settings | T |
| CCM User Show IP Phone Services Settings | T |
| CCM User Show Ring Settings | F |
| CCM User Show Message Waiting Lamp Policy | T |
| CCM User Show History Settings | T |
| CCM User Show Personal Address Book | T |
| CCM User Show Line Text Settings | F |
| CCM User Show Online Guide | T |
| CCM User Show Mobility Features | T |
| CCM User Show Directory | T |
| CCM User Show Calendar Preference | T |
| CCM User Show Phone Locale | T |
| CCM User Show Change Password | T |
| CCM User Show Change Pin | T |
| CCM User Show Call Forward | 1 |
| CCM User Show Voicemail IVR Option | T |
| CCM User Show Conferencing Scheduler | T |
| CCM User Show Video Conferencing Scheduler | 1 |
| CCM User Show Download | T |
| CCM User Display Name | T |
| CCM User Show Phones Ready To Activate | T |
| End User Directory URI Partition Alias | 4d5461af-f3d8-cddf-072e-54e8412e8a9e |
| CDR Flat File Interval | 1 |
| Default Network Locale | 64 |
| Default User Locale | 1 |
| MLPP Domain Identifier | c80cafe0-af65-43d6-a1f1-225ad998bd26 |
| MLPP Indication Status | Off |
| MLPP Preemption Setting | Disabled |
| Precedence Alternate Party Timeout | 30 |
| Use Standard VM Handling For Precedence Calls | F |
| Confidential Access Level Policy | F |
| Confidential Access Level Enforcement Level | 0 |
| Confidential Access Level Value For Warning | 0 |
| Confidential Access Level Warning Message Text |  |
| Confidential Access Level Failure Message Text | CAL MISMATCH |
| Cluster Security Mode | 0 |
| Cluster SIPO Auth Mode | 0 |
| LBM Security Mode | 0 |
| CAPF Phone Port | 3804 |
| CAPF Operation Duration | 10 |
| Endpoint Encryption Algorithms | 0 |
| TFTP File Signature Algorithm | 1 |
| Cache Control | T |
| Auth Method For Browser Access | 1 |
| TLS Cipher Preference | 1 |
| SRTP Cipher Selection | 0 |
| HTTPS Cipher Selection | 1 |
| Trusted Servers |  |
| Terminate User Session | 1 |
| Certificate Validity Check | 0 |
| Certificate Validity Check Frequency | 24 |
| Roll Back To Pre Grayback | F |
| URL Authentication | http://10.5.1.120:8080/ccmcip/authenticate.jsp |
| URL Directories | http://10.5.1.120:8080/ccmcip/xmldirectory.jsp |
| URL Idle |  |
| URL Idle Time |  |
| URL Information | http://10.5.1.120:8080/ccmcip/GetTelecasterHelpText.jsp |
| URL Messages |  |
| URL Proxy |  |
| URL Services | http://10.5.1.120:8080/ccmcip/getservicesmenu.jsp |
| Secure Authentication URL |  |
| Secure Directory URL | https://10.5.1.120:8443/ccmcip/xmldirectory.jsp |
| Secure UDS Users Access URL | https://10.5.1.120:8443/cucm-uds/users |
| Secure Idle URL |  |
| Secure Information URL | https://10.5.1.120:8443/ccmcip/GetTelecasterHelpText.jsp |
| Secure Messages URL |  |
| Secure Services URL | https://10.5.1.120:8443/ccmcip/getservicesmenu.jsp |
| Enable All User Search | T |
| User Search Limit | 64 |
| Numberof Digitsto Match | 4 |
| CCMPD Session Timeout | 86400 |
| Allowed Perfmon Queries Per Minute | 50 |
| Allowed Ris Queries Per Minute | 15 |
| Perfmon Queue Limit | 100 |
| Maximum Perfmon Counters Per Session | 100 |
| Allowed Cdr Get File Queries Per Minute | 10 |
| Allowed Cdr Get File List Queries Per Minute | 20 |
| File Close Thread Flag | T |
| File Close Thread Queue Watermark | 100 |
| Restrict On User Group Overlap | 1 |
| Restrict Non Super User | T |
| User Assignment Mode | 0 |
| Directory Group Operations On Cisco I Mand Presence | 0 |
| Group Size To Limit Presence Packets For Enterprise Groups | 100 |
| Syncing Mode For Enterprise Groups | 1 |
| Server Port Number | 8888 |
| Client Port Number | 8889 |
| AA Installed Flag | F |
| IAQ Installed Flag | F |
| Organization Domain |  |
| Cluster Name |  |
| Do S Protection Flag | T |
| TLS Handshake Timer | 60 |
| TLS Resumption Timer | 3600 |
| Unsupported Pickup |  |
| User Must Change Credential Behavior |  |
| Enable IP V6 | F |
| IP Addressing Mode Pref Media | 0 |
| IP Addressing Mode Pref Control | 0 |
| Allow Auto Configuration For Phones | 1 |
| Allow Duplicate Address Detection | 1 |
| Accept Redirect Messages | 0 |
| Reply Multicast Echo Request | 0 |
| Remote Syslog Server Name |  |
| Remote Syslog Server Name2 |  |
| Remote Syslog Server Name3 |  |
| Remote Syslog Server Name4 |  |
| Remote Syslog Server Name5 |  |
| Remote Syslog Severity | 3 |
| GRT Socket Connect Timeout | 10 |
| GRT Socket Read Timeout | 60 |
| Is Logical Partitioning Enabled | F |
| Is Custom Logical Partitioning Applied | F |
| Default Geolocation | 00000000-1111-0000-0000-000000000000 |
| Logical Partitioning Default Policy | 2 |
| Logical Partitioning Default Filter |  |
| Enable Mgcp Trace Log | 0 |
| Enable Call Trace Log | 1 |
| Max Call Trace Log Files | 2000 |
| Call Trace Log File Size | 2 |
| Never Start Call With Video | F |
| DSCP Value | None |
| Route Plan Report Max Index | 1500000 |
| Oauth Token Expiry Timer | 60 |
| Refresh Token Expiry Timer | 60 |
| Thirdpartyclient\_redirecturi |  |
| SSO Login Behavior For Ios | 0 |
| O Auth With Refresh Login Flow | 0 |
| Use SS Ofor RTMT | 1 |
| Enable Directory Partition Search | 0 |
| Enable User Search With Customer | 1 |
| Max Servers | 30 |
| Max Phones | 80000 |
| Max Users | 160000 |

# 3 Presence

The Presence section contains the following items:

* Settings
* Gateways
* Inter-Clustering
* Inter-Domain Federation
* SIP Federation
* XMPP Federation
* Routing
* Settings
* Static Routes
* Method Event-Routing
* Number Expansion
* Domains

## 3.1 Settings

The Presence > Settings section contains the following items:

* Standard Configuration
* Advanced Configuration

### 3.1.1 Presence - Standard Configuration

The following settings include global availability sharing capability for all clients that connect to IM and Presence.

| **Presence Settings** | |
| --- | --- |
| **Name** | **Value** |
| Cluster ID | StandAloneCluster0341f |
| Enable availability sharing | Y |
| Allow users to view the availability of other users without being prompted for approval | Y |
| Enable use of Email Address for Inter-domain Federation | Y |
| Maximum Contact List Size (per user) | 200 |
| Maximum Watchers (per user) | 200 |
| CUCM IM and Presence Publish Trunk | SIPTrunkforIMnP |
| Enable ad-hoc presence subscriptions | Y |
| Maximum number of ad-hoc subscriptions | 50 |
| Ad-hoc subscription time-to-live (seconds) | 900 |
| Enable Partitioned Intradomain Federation with LCS/OCS/Lync | Y |
| Partitioned Intradomain Routing Mode | Basic Routing Mode |

### 3.1.2 Presence - Advanced Configuration

The Advanced Presence Settings include default domain and the IM address scheme. The IM address scheme has two options:

* UserID@[Default Domain]: each user's IM address matches the format UserID@Default\_Domain
* Directory URI: each user's IM address matches their Cisco Unified Communications Manager Directory URI setting.

| **Advanced Presence Settings** | |
| --- | --- |
| **Default Domain** | **IM Address Scheme** |
| lab.test | UserID@[Default Domain] |

## 3.2 Presence - Gateways

The purpose of a presence gateway is to enable the transfer of presence status information from the configured gateway to the Presence Engine in IM and Presence. The following gateways are supported:

* **Cisco Unified Communications Manager gateway**: You can configure a Cisco Unified Communications Manager server as a presence gateway. The IM and Presence server sends SIP Subscribe messages to Cisco Unified Communications Manager over a SIP trunk (configured on Cisco Unified Communications Manager), which allows the IM and Presence server to receive presence information, for example, phone on/off hook status.
* **Microsoft Exchange (Calendaring) gateway**: You can configure a Microsoft Exchange server (for Microsoft Outlook) as a presence gateway. This allows the IM and Presence server to collect presence information (calendar/meeting status) on a per-user basis and incorporate it into the presence status of the user.

| **Presence Gateway** | |
| --- | --- |
| **Presence Gateway** | **Information** |
| 10.5.1.120 | |  |  | | --- | --- | | Presence Gateway Type | CUCM | | Description | New Presence Gateway | |

## 3.3 Presence - Inter-Clustering

You can associate one or more external IM and Presence clusters (peers), which enable you to route requests to user names and phone numbers on other IM and Presence clusters. You can transmit instant messages and presence status across multiple IM and Presence clusters.

| **Inter-cluster Peer(s)** | | | |
| --- | --- | --- | --- |
| **Peer Address** | **AXL Username** | **Protocol** | **Users** |
| 10.5.1.152 | admin | TCP | 1 |

## 3.4 Inter-Domain Federation

The Inter-Domain Federation section contains the following items:

* SIP Federation
* XMPP Federation

### 3.4.1 Inter-Domain Federation - SIP Federation

IM and Presence permits integration with a Microsoft OCS foreign domain for interdomain federation. This allows IM and Presence users in an enterprise domain to interact with users of Microsoft Office Communicator in a foreign domain.

| **Federated Domains** | | | |
| --- | --- | --- | --- |
| **Domain Name** | **Description** | **Integration Type** | **Direct Federation** |
| microsoft.com | Test SIP Federated Domain | Inter-Domain to OCS/Lync/S4B | N |

### 3.4.2 XMPP Federation

The Extensible Messaging and Presence Protocol (XMPP) is the core protocol on Cisco Unified Presence. This interface provides instant messaging, availability and roster management services. The following objects are defined:

* Settings
* Default Policy
* Exception Policy

#### 3.4.2.1 XMPP Federation - Settings

IM and Presence can be configured for inter-domain federation, that is to dynamically federate with IM and Presence, WebEx, IBM and any XMPP standards-compliant server.

| **XMPP Federation Settings** | |
| --- | --- |
| **Name** | **Value** |
| XMPP Federation Node Status | Y |
| Security Mode | TLS Optional |
| Require client-side security certificates | Y |
| Enable SASL EXTERNAL on all incoming connections | N |
| Enable SASL EXTERNAL on all outgoing connections | N |

#### 3.4.2.2 XMPP Federation - Default Policy

IM and Presence Service allows you to specify a default policy to either allow or deny all federated traffic from/to all configured federated enterprises. However, you can provision exceptions to this default policy.

|  |  |
| --- | --- |
| **XMPP Federation Default Policy** | |
| Default policy for all federated traffic | Allow |

#### 3.4.2.3 XMPP Federation - Exception Policy

These are the exceptions to the default XMPP Federation Policy

| **XMPP Federation Policy Exception** | |
| --- | --- |
| **Domain Name** | **Exception Applies To** |
| \*.example.com | All federated packets from/to the above domain/host |

### 3.4.3 Email Federated Domains

Email domains associated with users in the IM and Presence Service deployment. If the IM and Presence Service is configured to use the email address when federating, then all local users are identified by their email address to federated contacts, rather than their IM address. However, if the Enable use of Email Address for Inter-domain Federation parameter is disabled (default setting), then users are identified by their IM address instead, and the email domains listed on this window are not used.

By default, email domains are managed by the system. The system-managed email domains list contains the email domains of all users configured on the system. You can use this window to add email domains in addition to those already managed by the system.

In addition to providing the list of email domains, this window also specifies whether each administrator-managed email domain was configured on the local cluster, peer cluster, or both. Likewise, it also specifies whether each system-managed email domain is in use on the local cluster, peer cluster, or both.

System-managed email domains, by their nature, cannot be edited because they are in use. However, a system-managed email domain automatically becomes an administrator-managed email domain if there are no longer users on the system with that email domain (for example, due to user deletion). You can edit or delete administrator-managed domains.

| **Email Domains** | | | |
| --- | --- | --- | --- |
| **Domain Name** | **Type** | **Configured/In use on Local Cluster** | **Configured/In use on Peer Cluster(s)** |
| lab.test | Administrator Managed | N | Y |
| nd2.com | Administrator Managed | Y | N |
| lab.test | System Managed | Y | N |

## 3.5 Routing

The Routing section contains the following items:

* Settings
* Static Routes
* Method Event-Routing
* Number Expansion

### 3.5.1 Routing - Settings

This section contains the proxy server settings for the IM and Presence server.

The Method/Event Routing Status parameter specifies whether the method/event routing module is enabled or disabled in the SIP proxy server.

The Preferred Proxy Listener parameter specifies which SIP proxy listener is considered the preferred listener. The list contains SIP proxy server listeners that you defined in the Transport Listeners window.

| **Proxy Configuration Settings** | |
| --- | --- |
| **Name** | **Value** |
| CVP Enable ACL Configuration | N |
| Method/Event Routing Status | On |
| Preferred Proxy Listener | Default Cisco SIP Proxy TCP Listener |

### 3.5.2 Routing - Static Routes

This section defines static routes that the SIP proxy server uses. A dynamic route represents a path through the network that automatically get calculated according to routing protocols and routing update messages. A static route represents a fixed path through the network that you explicitly configure. Static routes take precedence over dynamic routes.

| **Method/Event-Based Routing** | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Destination Pattern** | **Blocked** | **Description** | **Next Hop** | **Next Hop Port** | **Priority** | **Weight** | **Protocol Type** | **Route Type** | **Allow Less-Specific Route** | **In Service** |
| 555..... | N | New Static Route | 10.5.1.150 | 5060 | 1 | 1 | TCP | User | On | On |
| 666..... | N | A Second Static Route | 10.5.1.120 | 5060 | 1 | 1 | TCP | User | On | On |

### 3.5.3 Routing - Method Event-Routing

Method-based or event-based routing configure the SIP proxy server to route SIP messages on the basis of their content.

| **Method/Event-Based Routing** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Description** | **Content Token** | **Content Category** | **Destination Address** | **Destination Port** | **Protocol Type** |
| New Method Based Routing Info | For testing | TEST | Method-Based | 10.5.1.122 | 5060 | TCP |
| ProfileConfig | Multi-Login/Change Notification | profileconfig | Event Type-Based | 10.5.1.122 | 5070 | TCP |
| SystemPublish | System Managed Publish | PUBLISH | Method-Based | 10.5.1.122 | 5070 | TCP |
| SystemSubscribe | System Managed Subscribe | SUBSCRIBE | Method-Based | 10.5.1.122 | 5070 | TCP |

### 3.5.4 Routing - Number Expansion

Number expansion configuration allows you to provision patterns that expand an extension number to its full E.164 telephone number. You can also use number expansion to strip numbers. You may want to manipulate the telephone number to match global dialing patterns and to route SIP requests accordingly.

Number expansion requires no precedence so ordering is not required. Instead the SIP Proxy processes the rules from the most specific to the least specific.

| **Number Expansion** | | | |
| --- | --- | --- | --- |
| **Name** | **Description** | **Input Pattern** | **Translation Pattern** |
| NewNumberExpansion | A test | 6..... | 00336166..... |
| NewNumberExpansion02 | Another test | 4..... | 00346166..... |

## 3.6 Presence - Domains

By default, domains are managed by the system. The system-managed domains list contains the domains of all users configured on the system. It also specifies whether each system-managed presence domain is in use on the local cluster, peer cluster, or both.

The following domains are managed by the IM and Presence Service:

| **Presence Domains** | | | |
| --- | --- | --- | --- |
| **Domain Name** | **Type** | **Configured/In use on Local Cluster** | **Configured/In use on Peer Cluster(s)** |
| newdomain.com | Administrator Managed | Y | N |
| newdomain2.com | Administrator Managed | Y | N |
| lab.test | System Managed | Y | N |
| lab.test | System Managed | N | Y |

# 4 Messaging

The Messaging section contains the following items:

* Settings
* External Server Setup
* External Database
* Third-Party Compliance Server
* External File Servers
* File Transfer
* Compliance
* Group Chat and Persistent Chat
* Group Chat Alias Mapping
* Group Chat System Administrators

## 4.1 Messaging - Settings

The following settings apply to the global instant messaging (IM) sharing capability for all clients that connect to IM and Presence.

| **Settings** | |
| --- | --- |
| **Name** | **Value** |
| Enable instant messaging | Y |
| Suppress offline instant messaging | N |
| Allow clients to log instant message history (on supported clients only) | Y |
| Allow cut & paste in instant messages | Y |

## 4.2 External Server Setup

The External Server Setup section contains the following items:

* External Database
* Third-Party Compliance Server

### 4.2.1 Messaging - External Databases

External databases are required for:

* To use persistent chat rooms, you must configure a unique external database instance per node.
* If you use an external database for persistent chat logging, consider the size of your database. Archiving all the messages in a chat room is optional, and will increase traffic on the node and consume space on the external database disk. In large deployments, disk space could be quickly consumed. Ensure that your database is large enough to handle the volume of information.

The following external databases are configured:

| **External Database Settings** | |
| --- | --- |
| **Database Name** | **Details** |
| mytestdb | |  |  | | --- | --- | | Database Type | MSSQL | | Tablespace | - | | Description | a test for IM and P | | User Name | admin | | Hostname | 10.5.1.166 | | Port Number | 1433 | | Enable SSL | N | | Certificate Name | < None > | |

### 4.2.2 Messaging - Third Party Compliance Servers

To use the third-party compliance solution you must configure a third-party compliance server for each node in the cluster. IM and Presence passes all messages that are sent to or from any users associated with a node to the designated third-party compliance server for that node. The third-party compliance server applies any relevant policy or filtering to the message, and then passes the message back to IM and Presence. IM and Presence delivers the message to the recipient.

The following third-party compliance servers are configured:

| **Compliance Server Settings** | |
| --- | --- |
| **Name** | **Settings** |
| newcomplianceserver | |  |  | | --- | --- | | Description | For testing | | IP Address | 10.5.1.166 | | Port | 8843 | |

### 4.2.3 Messaging - External File Servers

Settings for an External File Server on the IM and Presence Service, including the user credentials and the connection information for the External File Server

< No records found >

## 4.3 Compliance

A compliance server can be used to log and archive all instant messaging traffic. The IM and Presence Service administrator can select which IM, presence, or group chat events are passed to the compliance server(s), and which events are blocked. The events must be selected based on policy.

The IM and Presence IM compliance chapter includes:

* Compliance Settings
* Compliance Profiles
* Compliance Profiles Routing Priority

### 4.3.1 Compliance - Settings

The following options are available for Instant Message (IM) compliance:

* Not Configured: no compliance solution is used.
* Message Archiver: use built-in Message Archiver component on IM and Presence as the compliance solution and assign a preconfigured external database to one or more nodes.
* Third-Party Compliance Server: use a third-party server as the compliance option.

| **Compliance Settings** | |
| --- | --- |
| **Name** | **Value** |
| Compliance Server Selection | Message Archiver |
| Enable Outbound Message Logging | Y |
| Block message delivery if unable to record in compliance database | Y |
| Database Assignment | | **Node** | **External Database** | | --- | --- | | 10.5.1.122 | mytestdb | |

### 4.3.2 Compliance - Profiles

A compliance profile contains a set of Jabber Session Manager (JSM) and\or Text Conferencing (TC) events that you can use to monitor for compliance. You can create a compliance profile that consists of only JSM events, only TC events, or a combination of both JSM and TC events.

Within a compliance profile, JSM and TC events are configured which are logged to the compliance server. These events also decide what type of handling is performed by the compliance server, how IM and Presence Service handles error responses from the compliance server, and whether the IM and Presence Service node waits for a response from the compliance server before processing the event further.

| **Compliance Profile** | |
| --- | --- |
| **Name** | **Details** |
| NewComplianceProfile | |  |  | | --- | --- | | Description | Testing again | | JSM Events | | **Event** | **Packet Type** | **Handling** | **Fire and Forget** | | --- | --- | --- | --- | | e\_OFFLINE | presence | bounce | N | | e\_SERVER | subscription | pass | N | | | TC Events | | **Event** | **Handling** | **Fire and Forget** | | --- | --- | --- | | onClose | bounce | N | | |
| SystemDefaultComplianceProfile | |  |  | | --- | --- | | Description | Non-modifiable System Default Compliance Profile | | JSM Events | | **Event** | **Packet Type** | **Handling** | **Fire and Forget** | | --- | --- | --- | --- | | e\_SESSION | all | bounce | N | | es\_END | presence | bounce | N | | es\_IN | message | bounce | N | | es\_OUT | message | bounce | N | | | TC Events | | **Event** | **Handling** | **Fire and Forget** | | --- | --- | --- | | onBeforeInvite | bounce | N | | onBeforeJoin | bounce | N | | onBeforeRoomCreate | bounce | N | | onBeforeSend | bounce | N | | onLeave | bounce | N | | |

### 4.3.3 Compliance - Routing Priority

Events that are configured in multiple profiles will be routed in the order as specified here.

Compliance Profiles listed by routing priority (top is highest priority):

| **Compliance Profiles Routing Priority** | |
| --- | --- |
| **Compliance Profiles** | **Priority** |
| SystemDefaultComplianceProfile | 0 |
| NewComplianceProfile | 1 |

## 4.4 Messaging - File Transfer

File Transfer and Managed File Transfer configurations. Assign an External Database and an External File Server on all nodes where Managed File Transfer is to be active. Install the Node Public Key onto each associated External File Server.

The Node Public Key will be invalidated if the node''s assignment is removed. A new Node Public Key will be generated if the node is reassigned.

The Cisco XCP File Transfer Manager service must be active on each node where Managed File Transfer is required.

| **File Transer** | |
| --- | --- |
| **Name** | **Value** |
| File Transfer Type | PEER2PEER |
| Maximum File Size (kB) | 51200 |
| Managed File Transfer Assignment | | **Managed File Transfer Assignment** | | | | --- | --- | --- | | **Node** | **External Database** | **External File Server** | | 10.5.1.122 |  |  | |

## 4.5 Messaging - Group Chat and Persistent Chat

This section defines settings to manage the primary chat server alias associated with each node, and configure permanent chat rooms as opposed to temporary (ad-hoc) chat rooms.

|  |  |
| --- | --- |
| **Group Chat and Persistent Chat Settings** | |
| **Group Chat Alias Settings** | |
| System Automatically Manages Primary Conference Server Aliases | Y |
| **Enable Persistent Chat** | |
| Enable Persistent Chat | Y |
| Archive all room joins and exits | Y |
| Archive all room messages | Y |
| Allow only group chat system administrators to create persistent chat rooms | N |
| Maximum number of persistent chat rooms allowed | 1500 |
| Number of Connections to the Database | 5 |
| Database Connection Heartbeat Interval (seconds) | 300 |
| Timeout value for persistent chat rooms (minutes) | 0 |
| Persistent Chat Database Assignment | | **Node** | **External Database** | | --- | --- | | 10.5.1.122 | mytestdb | |
| **Room Settings** | |
| Maximum number of rooms allowed | 5500 |
| **Member Settings** | |
| Rooms are for members only by default | N |
| Room owners can change whether or not rooms are for members only | Y |
| Only moderators can invite people to members-only rooms | Y |
| Room owners can change whether or not only moderators can invite people to members-only rooms | Y |
| Users can add themselves to rooms as members | N |
| Room owners can change whether users can add themselves to rooms as members | N |
| **Presence Settings** | |
| Members and administrators who are not in a room are still visible in the room | Y |
| Room owners can change whether members and administrators who are not in a room are still visible in the room | Y |
| Rooms are backwards-compatible with older clients | N |
| Room owners can change whether rooms are backwards-compatible with older clients | Y |
| Rooms are anonymous by default | Y |
| Room owners can change whether or not rooms are anonymous | Y |
| **Invite Settings** | |
| Lowest participation level a user can have to invite others to the room | participant |
| Room owners can change whether members and administrators who are not in a room are still visible in the room | Y |
| **Occupancy Settings** | |
| How many users can be in a room at one time | 1000 |
| How many hidden users can be in a room at one time | 1000 |
| Default maximum occupancy for a room | 50 |
| Room owners can change default maximum occupancy for a room | Y |
| **Chat Message Settings** | |
| Lowest participation level a user can have to send a private message from within the room | visitor |
| Room owners can change the lowest participation level a user can have to send a private message from within the room | Y |
| Lowest participation level a user can have to change a room's subject | participant |
| Room owners can change the lowest participation level a user can have to change a room's subject | Y |
| Remove all XHTML formatting from messages | Y |
| Room owners can change XHTML formatting setting | Y |
| **Moderated Room Settings** | |
| Rooms are moderated by default | N |
| Room owners can change whether rooms are moderated by default | Y |
| **History Settings** | |
| Maximum number of messages that can be retrieved from the archive | 100 |
| Number of messages in chat history displayed by default | 15 |
| Room owners can change the number of messages displayed in chat history | N |

## 4.6 Messaging - Group Chat Server Aliases

The following additional aliases to a chat server are configured:

| **Group Chat Server Alias** | | |
| --- | --- | --- |
| **Group Chat Server Alias** | **Node Name** | **Primary Group** |
| conference-2-StandAloneCluster0341f.lab.test | 10.5.1.122 | Y |
| MyChatServer.lab.test | 10.5.1.122 | N |
| MyChatServer2.lab.test | 10.5.1.122 | N |

## 4.7 Messaging - Group Chat System Administrators

Group chat system administrators can do the following:

* Configure a room
* Join a password-protected room without supplying the password
* Change a room's subject
* Join any room (including members-only rooms)
* Moderate a room
* Join a room when the maximum occupancy is reached
* Destroy a room
* Browse a room for the list of participants
* Query a room and its items
* Remain in a room if the room changes to be members-only, or if their affiliation changes to "none" in a members-only room
* Change the affiliation of other users in a room
* Invite other users to a members-only room (even when members invite is not allowed)

The following Group chat system administrators are configured:

| **Group Chat System Administrators** | | |
| --- | --- | --- |
| **IM Address** | **Nickname** | **Description** |
| Admin@lab.test | ChatAdmin | Group Chat sysadmin |

# 5 Application

The Application section contains the following items:

* Legacy Client Settings
* Settings
* CCMCIP Profile
* Microsoft RCC
* Settings
* User Assignment
* Third-Party Clients
* Third-Party LDAP Servers
* Third-Party LDAP Search Settings
* Client Types

## 5.1 Application - Settings

The following lists then Cisco Unified Personal Communicator settings that apply to all Cisco Unified Personal Communicator users:

| **Client Settings** | |
| --- | --- |
| **Name** | **Value** |
| Proxy Listener | Default Cisco SIP Proxy TCP Listener |
| Primary TFTP Server | 10.5.1.120 |
| Backup TFTP Server 1 | 10.5.1.150 |
| Backup TFTP Server 2 |  |
| CSF certificate directory (relative to CSF install directory) |  |
| Directory Server Type | Microsoft Active Directory |
| Legacy Client LDAP Attribute Mapping | |  |  | | --- | --- | | **Mappings** | | | UserID | sAMAccountName | | FirstName | givenName | | LastName | sn | | MiddleName | middleName | | Nickname | nickname | | Photo |  | | Title | title | | DisplayName | displayName | | NamePrefix | namePrefix | | NameSuffix |  | | Gender | gender | | BusinessEMail | mail | | BusinessPhoneNumber | telephoneNumber | | BusinessVoiceMail |  | | BusinessMobilePhone | mobile | | BusinessPager | pager | | BusinessFax | facsimileTelephoneNumber | | BusinessOtherPhone | otherTelephone | | HomeEMail |  | | HomeMobilePhone |  | | HomeFax |  | | URL | url | | Organization | Company | | PrimaryPhoneNumber | telephoneNumber | | AddressStreet | streetAddress | | AddressLocation | l | | AddressState | st | | AddressPostalCode | postalCode | | AddressCountry | co | |

## 5.2 Application - CCMCIP Profile

The folllowing Cisco CallManager Cisco IP Phone (CCMCIP) profiles for Cisco Unified Personal Communicator are configured:

| **CCMCIP Profile** | | |
| --- | --- | --- |
| **Name** | **CCMCIP Profile Settings** | **Users in Profile** |
| CiscoIPPhoneProfile | |  |  | | --- | --- | | Description | The Cisco CallManager Cisco IP Phone (CCMCIP) service runs on CUCM and retrieves list of devices of user | | Primary CCMCIP Host | 10.5.1.120 | | Backup CCMCIP Host | 10.5.1.150 | | Server Certificate Verification | Self Signed or Keystore | | Is Default CCMCIP Profile | Y | | bpitt bwayne |

## 5.3 Microsoft RCC

The Microsoft RCC section contains the following items:

* Settings
* User Assignment

### 5.3.1 Microsoft RCC - Settings

This section lists the Computer Telephony Interface (CTI) gateway settings that apply to the CTI gateway. These settings enable call control via TAPI (TSP) to Cisco Unified Communications Manager (CUCM).

| **Desk Phone Control Settings** | |
| --- | --- |
| **Name** | **Value** |
| Application Status | On |
| Application Username | admin |
| Heartbeat Interval (seconds) | 8 |
| Session Timer (seconds) | 1810 |
| Microsoft Server Type | MOC server OCS/Lync |
| Cisco Unified Communications Manager Address (1 of 8) | 10.5.1.120 |
| Cisco Unified Communications Manager Address (2 of 8) |  |
| Cisco Unified Communications Manager Address (3 of 8) |  |
| Cisco Unified Communications Manager Address (4 of 8) |  |
| Cisco Unified Communications Manager Address (5 of 8) |  |
| Cisco Unified Communications Manager Address (6 of 8) |  |
| Cisco Unified Communications Manager Address (7 of 8) |  |
| Cisco Unified Communications Manager Address (8 of 8) |  |

### 5.3.2 Microsoft RCC - User Assignment

IM and Presence can use the Desk Phone Control service. This is not a licensed service, rather, the assignment is needed to limit the users for performance reasons.

| **Deskphone Control Usage** | | | | |
| --- | --- | --- | --- | --- |
| **User ID** | **Last Name** | **Manager** | **Department** | **Assigned Deskphone Control** |
| bpitt | Pitt |  | Brad & Pitt Org | N |
| bwayne | Wayne |  | Fictional | N |

## 5.4 Third-Party Clients

The Third-Party Clients section contains the following items:

* Third-Party LDAP Servers
* Third-Party LDAP Search Settings

### 5.4.1 Third-Party Clients - LDAP Servers

Third-Party XMPP clients may wish to provide LDAP based contact search. You can provision LDAP servers on IM and Presence to support LDAP based contact search by third party XMPP clients.

The following LDAP servers to support LDAP based contact search are configured:

| **LDAP Host Configuration** | | | | |
| --- | --- | --- | --- | --- |
| **Server ID** | **Hostname** | **Port** | **Username** | **Enable SSL** |
| lab.test | 10.5.1.166 | 389 | admin | N |

### 5.4.2 Third-Party Clients - LDAP Settings

You must specify the LDAP search settings that will allow IM and Presence to successfully perform contact search for third party XMPP clients.

This references an LDAP server for third-party XMPP client search.

| **LDAP Search Settings** | |
| --- | --- |
| **Name** | **Details** |
| LDAP Search Settings | |  |  | | --- | --- | | **LDAP Search Settings - Third-Party XMPP Clients** | | | LDAP Server Type | Microsoft Active Directory | | User Object Class | user | | Base Context | DC=lab,DC=test | | User Attribute | SamAccountName | | LDAP Server 1 | lab.test | | LDAP Server 2 | < None > | | LDAP Server 3 | < None > | | Build vCards from LDAP | N | | LDAP attribute to use for vCard FN |  | |
| LDAP Attributes | | **Searchable LDAP Attributes** | | | | --- | --- | --- | |  | **Client User Fields** | **LDAP User Fields** | | 1 | first | givenName | | 2 | last | sn | | 3 | fullname | cn | | 4 | email | mail | |

## 5.5 Application - Client Type

The IM and Presence service includes a default set of Cisco Unified Communications and third-party client types supported by the client configuration SOAP interface. You should only add a new client type if instructed to do so by a client application. Otherwise, new client types are unsupported and will be removed when you next upgrade IM and Presence.

Enable 'Version Check Required' to verify that users have the minimum version of the software clients installed. If users do not have the minimum version indicated, they will not be able to sign on

The following lists configured Client types:

| **Client Type** | | | |
| --- | --- | --- | --- |
| **Type** | **Minimum Version** | **Version Check Required** | **Description** |
| CAD | 0.0.0.0 | N | Cisco Agent Desktop |
| CUCC4ST | 7.0.0.0 | Y | Cisco Phone Control and Presence with IBM Lotus Sametime |
| CUPC | 7.1.0.00000 | Y | Cisco Jabber |
| ClientType | 0.0.0.0 | N | Report Tests |
| JABBERANDROID | 0.0.0.0 | N | Cisco Jabber for Android |
| JABBERBLACKBERRY | 0.0.0.0 | N | Cisco Jabber for Blackberry |
| JABBERCIUS | 0.0.0.0 | N | Cisco Jabber for Cius |
| JABBERIPAD | 0.0.0.0 | N | Cisco Jabber for iPad |
| JABBERIPHONE | 0.0.0.0 | N | Cisco Jabber for iPhone |
| JABBERNOKIA | 0.0.0.0 | N | Cisco Jabber for Nokia |
| THIRDAPPSTANDALONE | 0.0.0.0 | N | Third Party Application Client |
| THIRDCLIENT | 0.0.0.0 | N | Third-Party Client |
| THIRDPARTYAPP | 0.0.0.0 | N | Third-Party Application |