

Dimdim SAAS Hosted Integration Guide (v4.0)

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Introduction:

Dimdim is the free web conferencing service where you can share your desktop, show slides, collaborate, chat, talk and broadcast via webcam with absolutely no download required for attendees. Dimdim is 100% browser-based and is your easy, open and free web meeting alternative.

This document is the API specification for the Dimdim Hosted SAAS Edition v4.0.

Audience:

Anyone who wishes to integrate any Web based Application with the Dimdim Web Meeting Functionality can refer this document to get a detailed overview of how to perform the integration along with samples for each scenario.

API Organization: This API is organized based on Integration scenario, each scenario covers a specific Use Case i.e. Start a Meeting and explains how to integrate it based on HTTP GET or HTTP POST.

Pre-requisite:

You need to have a Dimdim Account in order to integrate your Application with Dimdim Web Meeting. Please go to <http://dimdim.com> and create you Dimdim Account.

Architecture:

The dimdim Web Meeting Infrastructure (WMI) aims for a synergy of multiple components that are responsible for various unit functions using two levels of interaction protocols.

The first set is called the End User Protocol Suite (EUPS) which run over HTTP/S and is designed for communication between End Users (Web Console, Dimdim Plugin) and the dimdim Web Meeting Infrastructure. The only member of the EUPS which does not run over HTTP is RTMP used for live Audio Video streaming and white-boarding (in case of clients who can access the TCP 1935 port directly. A fallback to this running over HTTP/S also is included in the EUPS.

The second set is the Inter Component Protocol Suite (ICoPS) that are used for communication between the backend components which constitute the Web Meeting Infrastructure.

The dimdim WMI is reverse proxied by an nginx front server that provides transparent access for the EUPS end points.

The major components of dimdim WMI are:

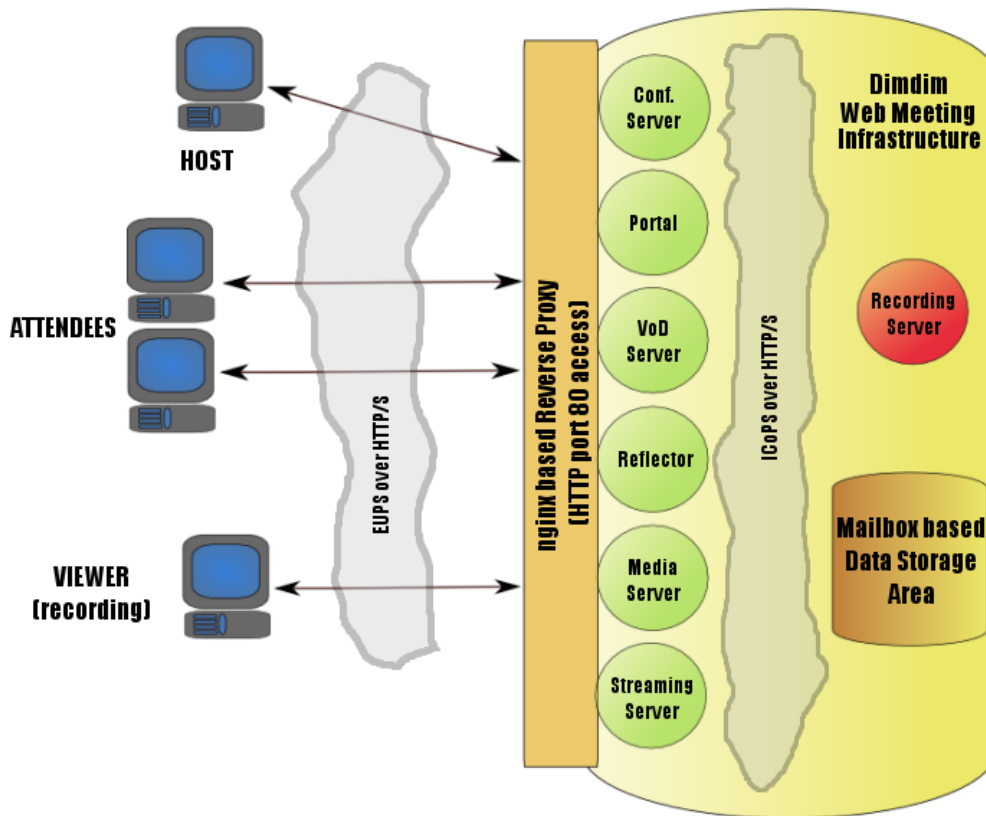
- Dimdim Conference Server (DCS)
- Dimdim Media Server (DMS)
- Dimdim Screenshare Server (Reflector)
- Dimdim Streaming Server (DSS)
- Dimdim Recording Server (DRS)
- Dimdim VoD Server (DVoD)
- Dimdim Web Meeting Portal

These components are accessed via an nginx based reverse proxy and thus from an external perspective all of them are available at a single HTTP port end point with the URL patterns serving as the differentiator.

This reduces the complexity of the port architecture and also allows for easier firewall management policies when deploying dimdim Web Meeting Infrastructure.

Architecture Diagram

The following picture shows the Web meeting infrastructure in detail.



(fig. 1 - Dimdim component architecture diagram)

Component Description:

Dimdim Conference Server (DCS) is majorly a pub-sub system that provides the infrastructure for conferences (along with attendees and hosts) to interact using a messaging infrastructure that is responsible for state management of the conference itself along with its participants. The EUPS part of DCS is a JSON over HTTP/S based system that leverages Web 2.0 messaging and interaction paradigm to the fullest.

Dimdim Media Server (DMS) is responsible for handling varied media resources like powerpoint presentations, pdf files etc. and also handles pre-uploaded content for conferences in future. In conjunction with portal it also provides a mailbox system namespaced by dimdim user id and meeting id to provide dynamic as well as static content required for personalization / branding of dimdim Web Meeting.

Dimdim Screenshare Server (Reflector) provides a robust scalable screen share protocol server that runs a modified VNC protocol over HTTP/S by leveraging the FastCGI protocol. It can support multiple screens each with one presenter and multiple viewers.

Dimdim Streaming Server (DSS) provides live streaming capabilities for Audio and Video using RTMP or RTMPT (RTMP over HTTP/S) and whiteboard features. It is usually commoditized by using either Flash Media Server (FMS) or Wowza Media Server (WMS) or Red5 Open source media server.

Dimdim Recording Server (DRS) is used by the DSS, Reflector and Conf Server to generate Flash Video (FLV) recordings of the meetings. It manages the Recording and Archiving toolkit to produce FLV movies out of the recorded meeting content. DRS is supplied the data by DSS, Reflector and Conf Server in a raw form and it exposes a server-to-server API over HTTP/S to trigger the creation of the archive.

Dimdim VoD Server (DVoD) leverages the built in FLV Streaming of the nginx web server to provide a means to view the recorded FLV movies of the meetings on demand.

Dimdim Portal provides a central touch point to manage the users, user sessions, launch the meetings and provide meeting details like link to recording, chat logs etc.

Port Architecture

One of the central design motifs of dimdim was to lower the number of ports that have to be opened up for the dimdim infrastructure to function. Because of the wonderful reverse-proxy capabilities of nginx web server, it is possible to run dimdim with only one HTTP port open to the world at large. However it is recommended to open up TCP/1935 for direct RTMP access for optimized performance of live A/V streaming and Whiteboard features.

Development API

In keeping with the open architecture philosophy, Dimdim publishes a series of Development and Integration APIs. Most notable are the integrations with Moodle and SugarCRM. This document also elaborated on these APIs and integration points.

References

1. NGINX Web Server (<http://www.nginx.ru>)
2. FastCGI protocol specification (<http://www.fastcgi.com>)
3. Moodle (<http://www.moddle.org>)
4. SugarCRM (<http://www.sugarCRM.com>)
5. CentOS (<http://www.centos.org>)
6. VMWare (<http://www.vmware.com>)
7. VNC (<http://www.tightvnc.com>)
8. dimdim inc (<http://www.dimdim.com>)

Start Meeting Scenarios:

Start a Dimdim Web Meeting using username and password only

This API can be used to integrate the “Start Web Meeting” scenario with any Web based Application. User needs to provide their Dimdim Username and Password as specified in the below table in order to start a meeting.

Sample HTTP GET URL: <http://hostname:port/portal/start.action?name=user&password=pwd>

On successful authentication, the browser is redirected to a Dimdim meeting with users settings that are available / configured in portal for that user.

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 1](#) for Code Snippet.

Parameter Name	Optional/Mandatory	Parameter Value	Description
portal/ start.action	Mandatory		Name of the Action
name	Mandatory		User Name of registered Dimdim user.
password	Mandatory		Password of registered Dimdim user.
response	Optional	json/portal	A json response is returned

On successful authentication a json response is returned which contains meeting start url, this can be set to window on client side so that a meeting is started. The json response in this case looks like

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"http://HOSTNAME:PORT/dimdim/html/envcheck/connect.action?uri=8459ceac-e151-41de-a827-136782dfe534"}}
```

In case of unsuccessful authentication the json response will look like

```
{success:"false",code:"300",dataType:"object",objClass:"Message",data:{text:"Username and Password do not match"}}
```

In this json, success:"false" indicates an error condition and success:"true" indicates success. In case of a json success:"true", the “text” will have the start meeting URL, using which we can start the meeting.

Start a Dimdim Web Meeting using username / password and certain meeting settings.

This API can be used to integrate the “Start Web Meeting” scenario with any Web based Application. User needs to provide their Dimdim Credentials and whatever meeting settings as specified in the below table in order to start a meeting.

Sample HTTP GET URL:

http://hostname:port/portal/start.action?name=dimdimUserId&password=dimdimPassword&waitingarea=true&network=L&hours=3&minutes=0&participants=100&mikes=2&returnurl=http%3A%2F%2Fwww.dimdim.com&displayname=DIMDIM&email=abc@gmail.com&feedback=abc@gmail.com&confname=DIMDIM&toll=1234-1234-1234&tollFree=aaa-aaa-aaa&internToll=bbb-bbb-bbb&internTollFree=sss-sss-sss&moderatorPassCode=1111&attendeePasscode=2222&preseterPwd=rajesh&attendeePwd=rajeshdimdim&featurePrivateChat=false&featurePublicChat=false&featurePublisher=false&featureWhiteboard=false&audioVideo=D&attendees=abc@dimdim.com;123@dimdim.com&timezone=Asia/Calcutta&agenda=ComeAndJoinTheWebMeeting&lc=en_US&assistantEnabled=true&collabUrl=http%3A%2F%2Fwww.google.co.in%2Fsearch%3Fq%3Dtest&displayDialInfo=true

In this case a meeting will be started with all the settings specified in this url

The following table explains all the parameters.

Parameter name	Optional/Mandatory	Parameter Value	Description
name	Mandatory		Should be picked from the user details
password	Mandatory		Initially a password I set at user creation if not changed it is that value or if the user has changed it, the new password should be used
response	Optional	json/portal	Here the way the response has to be sent is mentioned, if the value is json, server sends out json response. By default it sends http response
waitingarea	Optional	true/false	This setting indicates waiting area should be enabled or not
network	Optional	L/M/H	This indicates network availability
hours	Optional		Meeting duration hours
minutes	Optional		Meeting duration minutes

participants	Optional		# of max participants allowed in the Meeting.
mikes	Optional		No of mikes allowed during meeting.
returnurl	Optional		After meeting browser is redirected to this location (this value should be URL Encoded Error! Reference source not found.)
displayname	Optional		Name that is shown in meeting for the presenter
confname	Optional		The name of the Meeting. Default is "From Thirdparty Portal"
toll	Optional		Local Dial in number
tollFree	Optional		Local Dial in (toll free) number
internToll	Optional		International Dial in number
internTollFree	Optional		International Dial in (toll free) number
moderatorPassCode	Optional		Moderator pass code
attendeePasscode	Optional		Attendee pass code
preseterPwd	Optional		Presenter Password is specified by the Host of the Meeting. This is known as Host Key and is used by the host to rejoin the meeting. Each meeting should have unique host key
attendeePwd	Optional		Attendee Password is specified by the Host of the Meeting and the Attendees need to know this password to join the Meeting. This parameter is known as Meeting key and each meeting should have a different Meeting key.
participantListEnabled	Optional	true/false	This indicates whether participant list enabled or not

featurePrivateChat	Optional	true/false	This is used to enable/disable Private Chat during a particular Meeting
featurePublicChat	Optional	true/false	This is used to enable/disable Public Chat during a particular Meeting
featurePublisher	Optional	true/false	This is used to enable/disable Desktop Sharing during a particular Meeting
featureWhiteboard	Optional	true/false	This is used to enable/disable Whiteboard during a particular Meeting
audioVideo	Optional	A/V/D/Z	A – Audio Allowed Z – Video chat Allowed D – Audio-Video Disabled V – Audio and Video Allowed
attendees	Optional		Add email address with ; separated. Like abc@gmail.com;123@gmail.com
timezone	Optional (Mandatory if attendees to be invited)		If attendees have to be invited, this is required to be specified. If not specified default value will be taken.
agenda	Optional		Agenda for the email that needs to be sent to the attendees
lc	Optional		Locale code in which the meeting should be started (default en_US) (example en_US, es_ES)
feedback	Optional		Feedback emails would be sent to this email id.
assistantEnabled	Optional	true/false	Indicates whether “Meeting Assistant” should be made visible or not, defaults to true
collabUrl	Optional		When nothing is being shared, the collaboration area shows this url (this value should be URL Encoding)
displayDialInfo	Optional	true/false	This controls the visibility of the phone info to be displayed or not defaults to true

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 2](#) for Code Snippet.

Join Scenarios

Join a Web Meeting by giving the Meeting Room Name

This API can be used to integrate the “Join Web Meeting” scenario with any Web based Application. User needs to provide the name of the Dimdim Web Meeting Room which they wish to join along with their Display Name as specified in the below table in order to start a meeting.

Sample HTTP GET URL: <http://hostname:port/portal/join.action?confkey=demoRoom>

Parameter	Optional/Mandatory	Parameter Value	Description
Confkey	Mandatory		Room Name of the Web Meeting.
displayname	Optional		Attendee Name as displayed on the Web Meeting Console
Response	Optional	json/portal	A json response is returned

Same “response=json” can be used in order to get the meeting join url in the form of a json instead of redirect. Example usage is

<http://hostname:port/portal/join.action?confkey=demoRoom&response=json>

This is the sample response that we get on success

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"http://HOSTNAME:PORT/dimdim/html/envcheck/connect.action?uri=b031b250-6d5f-462d-b917-ecfd01a04216"}}
```

In case of unsuccessful join attempt a sample json like this is returned

```
{success:"false",code:"300",dataType:"object",objClass:"Message",data:{text:"There is no meeting running in the specified meeting room. Please check the meeting room and the meeting time"}}
```

Join a Web Meeting by giving the Roomname and MeetingKey

This API can be used to integrate the “Join Web Meeting” scenario with any Web based Application. User needs to provide the name of the Dimdim Web Meeting Room and the Meeting Key to join along with their Display Name as specified in the below table in order to start a meeting.

Sample HTTP GET URL:

<http://hostname:port/portal/join.action?confkey=demoRoom&attendeePwd=demoKey>

Meeting Key (i.e. attendeewd) is specified by the Host of the Meeting at the start of the Web Meeting in order to protect the Web Meeting, the attendees need to be aware of the Meeting Key in order to join the meeting. Such Web Meetings are also known as private meetings as they are secured with Meeting Key.

Parameter	Optional/Mandatory	Parameter Value	Description
Confkey	Mandatory		Room Name of the meeting started by presenter
attendeePwd	Mandatory		Meeting key to join the private meeting hosted by presenter
displayname	Optional		Attendee Name
Response	Optional	json/portal	A json response is returned

Same “response=json” can be used in order to get the meeting join url in the form of a json instead of redirect. Example usage is

<http://hostname:port/portal/join.action?confkey=demoRoom&attendeePwd=demoKey&response=json>

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 3](#) for Code Snippet.

Schedule Scenario

This API can be used to integrate the “Schedule Web Meeting” scenario with any Web based Application. User needs to provide the Dimdim Credentials and any other Meeting Setting as they wish in order to schedule a Dimdim Web Meeting.

Sample HTTP GET URL:

http://hostname:port/portal/schedule.action?name=dimdimUserId&password=dimdimPassword&&startDate=July 28, 2008&meetingRecurrence=SINGLE_EVENT&startHour=7&startMinute=30&timeAMPM=PM&waitingarea=true&network=L&hours=3&minutes=0&participants=100&mikes=2&returnurl=http://www.dimdim.com&displayname=DIMDIM&email=abc@gmail.com&feedback=abc@gmail.com&conname=DIMDIM&toll=1234-1234-1234&tollFree=aaa-aaa-aaa&internToll=bbb-bbb-bbb&internTollFree=sss-sss-sss&moderatorPassCode=1111&attendeePasscode=2222&preseterPwd=rajesh&attendeePwd=rajeshdimdim&featurePrivateChat=false&featurePublicChat=false&featurePublisher=false&featureWhiteboard=false&audioVideo=D&attendees=abc@dimdim.com;123@dimdim.com&timezone=Asia/Calcutta&agenda=ComeAndJoinTheWebMeeting

The following table explains all the parameters.

Parameter name	Optional/ Mandatory	Parameter Value	Description
name	Mandatory		Should be picked from the user details
password	Mandatory		Initially a password I set at user creation if not changed it is that value or if the user has changed it, the new password should be used
startDate	Mandatory	should be like July 1, 2008	Start date for the scheduled meeting
meetingRecurrence	Mandatory	SINGLE_EVENT / DAILY / WEEKLY / MON_DATE	Meeting occurrence. It can be a single event or a daily or weekly or a monthly event.
startHour	Mandatory	0 to 12	Start hour for the meeting. The value can be between 0 and 12 hours
startMinute	Mandatory	0 - 60	Start minutes. The value can be between 0 and 60
timeAMPM	Mandatory	AM / PM	Start time. This can be AM or PM

waitingarea	Optional	true/false	This setting indicates waiting area should be enabled or not
network	Optional	L/M/H	This indicates network availability
hours	Optional		Meeting duration hours
minutes	Optional		Meeting duration minutes
participants	Optional		# of max participants allowed in the Meeting.
mikes	Optional		No of mikes allowed during meeting.
returnurl	Optional		After meeting browser is redirected to this location
displayname	Optional		Name that is shown in meeting for the presenter
confname	Optional		The name of the Meeting. Default is "From Thirdparty Portal"
toll	Optional		Local Dial in number
tollFree	Optional		Local Dial in (toll free) number
internToll	Optional		International Dial in number
internTollFree	Optional		International Dial in (toll free) number
moderatorPassCode	Optional		Moderator pass code
attendeePasscode	Optional		Attendee pass code

preseterPwd	Optional		Presenter Password is specified by the Host of the Meeting. This is known as Host Key and is used by the host to rejoin the meeting. Each meeting should have unique host key
attendeePwd	Optional		Attendee Password is specified by the Host of the Meeting and the Attendees need to know this password to join the Meeting. This parameter is known as Meeting key and each meeting should have a different Meeting key.
participantListEnabled	Optional	true/false	This indicates whether participant list enabled or not
featurePrivateChat	Optional	true/false	This is used to enable/disable Private Chat during a particular Meeting
featurePublicChat	Optional	true/false	This is used to enable/disable Public Chat during a particular Meeting
featurePublisher	Optional	true/false	This is used to enable/disable Desktop Sharing during a particular Meeting
featureWhiteboard	Optional	true/false	This is used to enable/disable Whiteboard during a particular Meeting
audioVideo	Optional	A/V/D/Z	A – Audio Allowed Z – Video chat Allowed D – Audio-Video Disabled V – Audio and Video Allowed
attendees	Optional		Add email address with ; separated. Like abc@gmail.com;123@gmail.com
timezone	Optional (Mandatory if attendees to be invited)		If attendees have to be invited, this is required to be specified. If not specified default value will be taken.
agenda	Optional		Agenda for the email that needs to be sent to the attendees
feedback	Optional		Feedback emails would be sent to this email id.

response	Optional	json/portal	Here the way the response has to be sent is mentioned, if the value is json, server sends out json response. By default it sends http response
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Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 4](#) for Code Snippet.

The response in case of success would be like

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"The meeting ID to start this scheduled meeting is d7bc8698-aec4-102b-9fab-67e64cc702b5"}}
```

This contains the MeetingID which is to be used to edit/delete this schedule

In case of failue, when response = json, the response looks like

```
{success:"false",code:"300",dataType:"object",objClass:"Message",data:{text:"Username and Password do not match"}}
```

Otherwise an error page with proper message is displayed

Start Scheduled Meeting Scenario

This API can be used to integrate the “Start a Scheduled Web Meeting” scenario with any Web based Application. User needs to provide the Dimdim Credentials and the MeetingID to start an already Scheduled Dimdim Web Meeting.

Sample HTTP GET URL:

<http://hostname:port/portal/StartScheduledMeeting.action?name=dimdimUserId&password=dimdimPassword&meetingID=3e389b32-97e1-102b-b1eb-b32bbb28977d>

The following table explains all the parameters.

Parameter name	Optional/Mandatory	Parameter Value	Description
name	Mandatory		Should be picked from the user details
password	Mandatory		Initially a password I set at user creation if not changed it is that value or if the user has changed it, the new password should be used
meetingID	Mandatory		This is meetingID provided by the schedule meeting API

This would start the meeting and the browser will load the meeting console on success

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 5](#) for Code Snippet.

Edit Meeting Schedule Scenario

This API can be used to integrate the “Edit a Scheduled Web Meeting” scenario with any Web based Application. User needs to provide the Dimdim Credentials, MeetingID of the Scheduled Dimdim Web Meeting and whatever parameter they wish to modify.

Sample HTTP GET URL:

http://hostname:port/portal/EditScheduledMeeting.action?name=dimdimUserId&password=dimdimPassword&meetingID=3e389b32-97e1-102b-b1eb-b32bbb28977d&startDate=July 2, 2008&meetingRecurrence=SINGLE_EVENT&startHour=7&startMinute=30&timeAMPM=PM&waitingarea=true&network=L&hours=3&minutes=0&participants=100&mikes=2&returnurl=http://www.dimdim.com&displayname=DIMDIM&email=abc@gmail.com&feedback=abc@gmail.com&confname=DIMDIM&toll=1234-1234-1234&tollFree=aaa-aaa-aaa&internToll=bbb-bbb-bbb&internTollFree=sss-sss-sss&moderatorPassCode=1111&attendeePasscode=2222&preseterPwd=rajesh&attendeePwd=rajeshdimdim&featurePrivateChat=false&featurePublicChat=false&featurePublisher=false&featureWhiteboard=false&audioVideo=D&attendees=abc@dimdim.com;123@dimdim.com&timezone=Asia/Calcutta&agenda=ComeAndJoinTheWebMeeting

The following table explains all the parameters.

Parameter name	Optional/Mandatory	Parameter Value	Description
name	Mandatory		Should be picked from the user details
password	Mandatory		Initially a password I set at user creation if not changed it is that value or if the user has changed it, the new password should be used
meetingID	Mandatory		This is meetingID provided by the schedule meeting API
displayname	Optional		Name that is shown in meeting for the presenter
response	Optional		Here the way the response has to be sent is mentioned, if the value is json, server sends out json response. By default it sends http response
waitingarea	Optional	true/false	This setting indicates waiting area should be enabled or not
network	Optional	L/M/H	This indicates network availability

hours	Optional		Meeting duration hours
minutes	Optional		Meeting duration minutes
participants	Optional		# of max participants allowed in the Meeting.
mikes	Optional		No of mikes allowed during meeting.
returnurl	Optional		After meeting browser is redirected to this location
feedback	Optional		Feedback emails would be send to this email id.
confname	Optional		The name of the Meeting. Default is "From Thirdparty Portal"
toll	Optional		Local Dial in number
tollFree	Optional		Local Dial in (toll free) number
internToll	Optional		International Dial in number
internTollFree	Optional		International Dial in (toll free) number
moderatorPassCode	Optional		Moderator pass code
attendeePasscode	Optional		Attendee pass code
preseterPwd	Optional		Presenter Password is specified by the Host of the Meeting. This is known as Host Key and is used by the host to rejoin the meeting. Each meeting should have unique host key
attendeePwd	Optional		Attendee Password is specified by the Host of the Meeting and the Attendees need to know this password to join the Meeting. This parameter is known as Meeting key

			and each meeting should have a different Meeting key.
participantListEnabled	Optional	true/false	This indicates whether participant list enabled or not
featurePrivateChat	Optional	true/false	This is used to enable/disable Private Chat during a particular Meeting
featurePublicChat	Optional	true/false	This is used to enable/disable Public Chat during a particular Meeting
featurePublisher	Optional	true/false	This is used to enable/disable Desktop Sharing during a particular Meeting
featureWhiteboard	Optional	true/false	This is used to enable/disable Whiteboard during a particular Meeting
audioVideo	Optional	A/V/D/Z	A – Audio Allowed Z – Video chat Allowed D – Audio-Video Disabled V – Audio and Video Allowed
attendees	Optional		Add email address with ; separated. Like abc@gmail.com;123@gmail.com
timezone	Optional (Mandatory if attendees to be invited)		If attendees have to be invited, this is required to be specified. If not specified default value will be taken.
agenda	Optional		Agenda for the email that needs to be sent to the attendees

On success a response of like below is sent

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"The meeting edited successfully"}}
```

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 6](#) for Code Snippet.

Manage User Preferences

Edit User Preferences Scenario

This API can be used to integrate the “Edit User Preferences” scenario with any Web based Application. User needs to provide the Dimdim Credentials and whatever User Preferences parameter they wish to modify.

Sample HTTP GET URL:

http://hostname:port/portal/editPref.action?name=dimdimUserId&password=dimdimPassword&waitingarea=true&network=L&hours=3&minutes=0&participants=100&mikes=2&returnurl=http://www.dimdim.com&displayname=DIMDIM&feedback=abc@gmail.com&toll=1234-1234-1234&tollFree=aaa-aaa-aaa&internToll=bbb-bbb-bbb&internTollFree=sss-sss-sss&moderatorPassCode=1111&attendeePasscode=2222&featurePrivateChat=false&featurePublicChat=false&featurePublisher=false&featureWhiteboard=false&audioVideo=D&timezone=Asia/Calcutta&lc=en_US

The following table explains all the parameters.

Parameter name	Optional/ Mandatory	Parameter Value	Description
name	Mandatory		Should be picked from the user details
password	Mandatory		Initially a password I set at user creation if not changed it is that value or if the user has changed it, the new password should be used
displayname	Optional		Name that is shown in meeting for the presenter
waitingarea	Optional	true/false	This setting indicates waiting area should be enabled or not
network	Optional	L/M/H	This indicates network availability
hours	Optional		Meeting duration hours
minutes	Optional		Meeting duration minutes
participants	Optional		# of max participants allowed in the Meeting.

mikes	Optional		No of mikes allowed during meeting.
returnurl	Optional		After meeting browser is redirected to this location
feedback	Optional		Feedback emails would be send to this email id.
lc	Optional		Locale code in which the meeting should be started (default en_US) (example en_US, es_ES)
toll	Optional		Local Dial in number
tollFree	Optional		Local Dial in (toll free) number
internToll	Optional		International Dial in number
internTollFree	Optional		International Dial in (toll free) number
moderatorPassCode	Optional		Moderator pass code
attendeePasscode	Optional		Attendee pass code
participantListEnabled	Optional	true/false	This indicates whether participant list enabled or not
featurePrivateChat	Optional	true/false	This is used to enable/disable Private Chat during a particular Meeting
featurePublicChat	Optional	true/false	This is used to enable/disable Public Chat during a particular Meeting
featurePublisher	Optional	true/false	This is used to enable/disable Desktop Sharing during a particular Meeting
featureWhiteboard	Optional	true/false	This is used to enable/disable Whiteboard during a particular Meeting

audioVideo	Optional	A/V/D/Z	A – Audio Allowed Z – Video chat Allowed D – Audio-Video Disabled V – Audio and Video Allowed
timezone	Optional		This will change the default timezone that the user is using

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 10](#) for Code Snippet.

Manage Dimdim Web Meeting

Dimdim Web Meeting Room Status

This API can be used to integrate the “Dimdim Web Meeting Room Status” scenario with any Web based Application. User needs to provide the Dimdim Web Meeting Room Name and they can check the status of the room as in if the room is occupied or empty at the moment.

Sample HTTP GET URL: <http://hostname:port/portal/IsMeetingRoomOccupied.action?roomName=aaa>

In this case a json response will be shown based on the meeting room’s status.

The following table explains all the parameters.

Parameter name	Optional/ Mandatory	Parameter Value	Description
roomName	Mandatory		The room name for which the user needs to check the status

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 8](#) for Code Snippet.

The response in case no meeting is running in the room would look like

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"The room is free. You can start a meeting"}}
```

In case there is a meeting running the response would look like

```
{success:"true",code:"300",dataType:"object",objClass:"Message",data:{text:"The room is occupied"}}
```

Dimdim End Web Meeting

This API can be used to integrate the “Dimdim End Web Meeting” scenario with any Web based Application. User needs to provide the user name and password (presenter key – optional) and they can end the meeting that is running currently.

Sample HTTP GET URL: <http://hostname:port/portal/End.action?name=XXX&password=YYY>

In this case a json response will be shown based on the meeting room’s status.

The following table explains all the parameters.

Parameter name	Optional/ Mandatory	Parameter Value	Description
name	Mandatory		The user name of the portal user
password	Mandatory		The password of the above mentioned user
presenterPwd	Optional		This is the password that is provided as “host key” at the start of the meeting

If meeting is started with “host key” then to get the meeting info caller should provide the “host key” else meeting will not be ended.

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 9](#) for Code Snippet.

The response in case of successful execution

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"Closed the meeting"}}
```

In case of un-successful execution

```
{success:"false",code:"300",dataType:"object",objClass:"Message",data:{text:"Presenter password required to perform this action"}}
```

Dimdim Edit Settings

This API can be used to integrate the “Dimdim Edit Settings” scenario with any Web based Application. User needs to provide the user name and password (presenter key – optional) and all other optional settings. All the possible parameters are explained below

Sample HTTP GET URL: <http://hostname:port/portal/End.action?name=XXX&password=YYY>

In this case a json response will be shown based on the meeting room’s status.

The following table explains all the parameters.

Parameter name	Optional/ Mandatory	Parameter Value	Description
name	Mandatory		The user name of the portal user
password	Mandatory		The password of the above mentioned user
presenterPwd	Optional		This is the password that is provided as “host key” at the start of the meeting
waitingarea	Optional	true/false	This setting indicates waiting area should be enabled or not
participants	Optional	Integer (ex: 20, 30 etc...)	# of max participants allowed in the Meeting.
maxMeetingTime		Integer (ex: 60, 70 etc...)	This is the Meeting time that needs to be set. (the # of minutes give here are set to the meeting not added)
returnurl	Optional	String (ex: http://www.dimdim.com)	After meeting browser is redirected to this location

If meeting is started with “host key” then to get the meeting info caller should provide the “host key” else meeting will not be ended.

maxMeetingTime, if a meeting is started with meeting duration of 60min, and user wants to extend it to 90min then this parameter’s value should be 90 but not 30. If the value is 30, the meeting duration will be set to half an hour.

Sample HTTP POST CODE SNIPPET

Sample HTML code that shows how parameters can be posted using a form is below. Any of the fields can be made hidden, so that the end user would not change the values.

Please refer [Appendix 10](#) for Code Snippet.

The response in case of successful execution

```
{success:"true",code:"200",dataType:"object",objClass:"Message",data:{text:"Setting changed successfully"}}
```

In case of un-successful execution

```
{success:"false",code:"300",dataType:"object",objClass:"Message",data:{text:"No meeting by key"}}
```

Appendix

Appendix 1 : Code Snippet for Scenario I – Start a Web Meeting

```
<html>
<head><title>Welcome to Dimdim</title> </head>
<body>

<form name="sample" action="http://host:port/portal/start.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal<br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>
```

Appendix 2 : Code Snippet for Scenario I – Start a Web Meeting with some settings

```
<html>
<head>

</head>

<body>

<br>
<form name="sample" action="http://host:port/portal/start.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal
<br>
agenda:
<input type="text" name="confname" value="sample agenda">
<br>
featurePrivateChat:
<select name="featurePrivateChat" id="featurePrivateChat" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
featurePublicChat:
```

```

<select name="featurePublicChat" id="featurePublicChat" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>

```

```

featurePublisher:
<select name="featurePublisher" id="featurePublisher" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>

```

```

featureWhiteboard:
<select name="featureWhiteboard" id="featureWhiteboard" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>

```

```

<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>

```

Appendix 3 : Code Snippet for – Joining a Web Meeting

```

<html>
<head></head>

<body>

<br>
<form name="sample" action="http://host:port/portal/join.action" method="post">
Room name:
<input type="text" name="confkey" > You have to enter the room name
<br>
Meeting Key:
<input type="password" name="attendeePwd"> You have to enter the meeting key
<br>
Display Name:
<input type="text" name="displayname" value="attendee1">
<br>

<input type="submit" name="submit" value="submit"/>
</form>

```

```
</body>
</html>
```

Appendix 4 : Code Snippet for – Schedule a Web Meeting

```
<html>
<head>

</head>

<body>

<br>
<form name="sample" action="http://host:port/portal/schedule.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal
<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal<br>
Start Date:
<input type="text" name="startDate" value="July 28, 2008">
<br>

Recurrence Type:
<select name="meetingRecurrance" id="meetingRecurrance" >
  <option value="SINGLE_EVENT">Single</option>
  <option value="DAILY">Daily</option>
  <option value="WEEKLY">Weekly</option>
  <option value="MON_DATE">Monthly</option>
</select>
<br>
Start Hour:
<input type="text" name="startHour" value="7">
<br>
Start Minute:
<input type="text" name="startMinute" value="30">
<br>

AM/PM:
<select name="timeAMPM" id="timeAMPM" >
  <option value="AM">AM</option>
  <option value="PM">PM</option>
</select>
<br>
Lobby:
<select name="waitingarea" id="waitingarea" >
```

```

    <option value="true">enable</option>
    <option value="false">disable</option>
</select>
<br>

```

Network:

```

<select name="&network" id="&network" >
    <option value="L">Low</option>
    <option value="M" selected="selected">Medium</option>
    <option value="H">High</option>
</select>
<br>

```

Meeting hours:

```

<select size="1" name="hours" >
    <option value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
    <option value="4">4</option>
    <option value="5">5</option>
</select>

```


Meeting Minutes

```

<select size="1" name="minutes" >
    <option value="0">0</option>
    <option value="15">15</option>
    <option value="30">30</option>
    <option value="45">45</option>
</select>

```


Mikes:

```

<select size="1" name="mikes" id="mikes" >
    <option value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
</select>

```


Return URL:

```

<input type="text" name="returnurl" value="http%3A%2F%2Fwww.dimdim.com" >
<br>

```

Feedback Email:

```

<input type="text" name="feedback" value="user@dimdim.com" >
<br>

```

Agenda:

```

<input type="text" name="confname" value="QandA" >
<br>

```

Local Dial in:

```
<input type="text" name="toll" value="1234-1234-1234" >
```

```
<br>
```

Local Dial in (toll free):

```
<input type="text" name="tollFree" value="ccc-ccc" >
```

```
<br>
```

International Dial in:

```
<input type="text" name="internToll" value="bbb-bbb" >
```

```
<br>
```

International Dial in (toll free):

```
<input type="text" name="internTollFree" value="aaa-aaa" >
```

```
<br>
```

Moderator pass code:

```
<input type="text" name="moderatorPassCode" value="1111" >
```

```
<br>
```

Attendee pass code:

```
<input type="text" name="attendeePasscode" value="2222" >
```

```
<br>
```

Presenter Password :

```
<input type="text" name="preseterPwd" value="2222" >
```

```
<br>
```

Attendee Password:

```
<input type="text" name="attendeePwd" value="2222" >
```

```
<br>
```

featurePrivateChat:

```
<select name="featurePrivateChat" id="featurePrivateChat" >
```

```
  <option value="true">enable</option>
```

```
  <option value="false">disable</option>
```

```
</select>
```

```
<br>
```

featurePublicChat:

```
<select name="featurePublicChat" id="featurePublicChat" >
```

```
  <option value="true">enable</option>
```

```
  <option value="false">disable</option>
```

```
</select>
```

```
<br>
```

featurePublisher:

```
<select name="featurePublisher" id="featurePublisher" >
```

```
  <option value="true">enable</option>
```

```
  <option value="false">disable</option>
```

```
</select>
```

```
<br>
```

featureWhiteboard:

```
<select name="featureWhiteboard" id="featureWhiteboard" >
```

```
  <option value="true">enable</option>
```

```
  <option value="false">disable</option>
```

```

</select>
<br>

Audio/Video:
<select name="audioVideo" id="audioVideo" >
  <option value="A">Audio Allowed</option>
  <option value="V">Audio Video Allowed</option>
  <option value="D">Audio Video Disabled</option>
  <option value="Z">Video Chat Allowed</option>
</select>
<br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>

```

Appendix 5 : Code Snippet for – Start a Scheduled Web Meeting

```

<html>
<head>

</head>

<body>

<br>
<form name="sample" action="http://host:port/portal/StartScheduledMeeting.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal
<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal
<br>
Meeting Id:
<input type="text" name="meetingID" >
<br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>

```

Appendix 6 : Code Snippet for – Edit a Scheduled Web Meeting

```

<html>
<head>

</head>

<body>

<br>
<form name="sample" action="http://host:port/portal/EditScheduledMeeting.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal
<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal
<br>
Meeting Id:
<input type="text" name="meetingID" >
<br>

Lobby:
<select name="waitingarea" id="waitingarea" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>

Network:
<select name="network" id="network" >
  <option value="L">Low</option>
  <option value="M" selected="selected">Medium</option>
  <option value="H">High</option>
</select>
<br>

Meeting hours:
<select size="1" name="hours" >
  <option value="1">1</option>
  <option value="2">2</option>
  <option value="3">3</option>
  <option value="4">4</option>
  <option value="5">5</option>
</select>

<br>
Meeitng Minutes
<select size="1" name="minutes" >

```

```

        <option value="0">0</option>
        <option value="15">15</option>
        <option value="30">30</option>
        <option value="45">45</option>
    </select>
<br>

Mikes:
<select size="1" name="mikes" id="mikes" >
    <option value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
</select>
<br>
Return URL:
<input type="text" name="returnurl" value="http%3A%2F%2Fwww.dimdim.com" >
<br>
Feedback Email:
<input type="text" name="feedback" value="user@dimdim.com" >
<br>
Agenda:
<input type="text" name="confname" value="QandA" >
<br>

Local Dial in:
<input type="text" name="toll" value="1234-1234-1234" >
<br>
Local Dial in (toll free):
<input type="text" name="tollFree" value="ccc-ccc" >
<br>
International Dial in:
<input type="text" name="internToll" value="bbb-bbb" >
<br>
International Dial in (toll free):
<input type="text" name="internTollFree" value="aaa-aaa" >
<br>
Moderator pass code:
<input type="text" name="moderatorPassCode" value="1111" >
<br>
Attendee pass code:
<input type="text" name="attendeePasscode" value="2222" >
<br>
Presenter Password :
<input type="text" name="preseterPwd" value="2222" >
<br>
Attendee Password:
<input type="text" name="attendeePwd" value="2222" >
<br>

```

```
featurePrivateChat:
<select name="featurePrivateChat" id="featurePrivateChat" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
featurePublicChat:
<select name="featurePublicChat" id="featurePublicChat" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
featurePublisher:
<select name="featurePublisher" id="featurePublisher" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
featureWhiteboard:
<select name="featureWhiteboard" id="featureWhiteboard" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
Audio/Video:
<select name="audioVideo" id="audioVideo" >
  <option value="A">Audio Allowed</option>
  <option value="V">Audio Video Allowed</option>
  <option value="D">Audio Video Disabled</option>
  <option value="Z">Video Chat Allowed</option>
</select>
<br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>
```

Appendix 7 : Code Snippet for – Edit Preferences

```

<html>
<head>

</head>

<body>

<br>
<form name="sample" action="http://host:port/portal/editPref.action" method="post">
User name:
<input type="text" name="name" > You have to enter the user name of the portal
<br>
Pwd:
<input type="password" name="password"> You have to enter the pwd of the portal
<br>

Lobby:
<select name="waitingarea" id="waitingarea" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>

Network:
<select name="&network" id="&network" >
  <option value="L">Low</option>
  <option value="M" selected="selected">Medium</option>
  <option value="H">High</option>
</select>
<br>

Meeting hours:
<select size="1" name="hours" >
  <option value="1">1</option>
  <option value="2">2</option>
  <option value="3">3</option>
  <option value="4">4</option>
  <option value="5">5</option>
</select>
<br>
Meeitng Minutes
<select size="1" name="minutes" >
  <option value="0">0</option>
  <option value="15">15</option>
  <option value="30">30</option>

```

```

        <option value="45">45</option>
    </select>
<br>

Mikes:
<select size="1" name="mikes" id="mikes" >
    <option value="1">1</option>
    <option value="2">2</option>
    <option value="3">3</option>
</select>
<br>
Return URL:
<input type="text" name="returnurl" value="http%3A%2F%2Fwww.dimdim.com" >
<br>
Feedback Email:
<input type="text" name="feedback" value="user@dimdim.com" >
<br>
Local Dial in:
<input type="text" name="toll" value="1234-1234-1234" >
<br>
Local Dial in (toll free):
<input type="text" name="tollFree" value="ccc-ccc" >
<br>
International Dial in:
<input type="text" name="internToll" value="bbb-bbb" >
<br>
International Dial in (toll free):
<input type="text" name="internTollFree" value="aaa-aaa" >
<br>
Moderator pass code:
<input type="text" name="moderatorPassCode" value="1111" >
<br>
Attendee pass code:
<input type="text" name="attendeePasscode" value="2222" >
<br>
featurePrivateChat:
<select name="featurePrivateChat" id="featurePrivateChat" >
    <option value="true">enable</option>
    <option value="false">disable</option>
</select>
<br>
featurePublicChat:
<select name="featurePublicChat" id="featurePublicChat" >
    <option value="true">enable</option>
    <option value="false">disable</option>
</select>
<br>

```

```
featurePublisher:
<select name="featurePublisher" id="featurePublisher" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
```

```
featureWhiteboard:
<select name="featureWhiteboard" id="featureWhiteboard" >
  <option value="true">enable</option>
  <option value="false">disable</option>
</select>
<br>
```

```
Audio/Video:
<select name="audioVideo" id="audioVideo" >
  <option value="A">Audio Allowed</option>
  <option value="V">Audio Video Allowed</option>
  <option value="D">Audio Video Disabled</option>
  <option value="Z">Video Chat Allowed</option>
</select>
<br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>
```

Appendix 8 : Code Snippet for – Room Status

```
<html>
<head><title>Welcome to Dimdim</title> </head>
<body>

<form name="sample" action="http://host:port/portal/IsMeetingRoomOccupied.action "
method="post">
Room name:
<input type="text" name="roomName" > You have to enter the room names <br>
<input type="submit" name="submit" value="submit"/>
</form>
</body>
</html>
```

Appendix 9 : Code Snippet for – End Meeting

```
<html>
<head><title>Welcome to Dimdim</title> </head>
<body>

<br>
<form name="sample" action="http://host:port/portal/End.action" method="post">
<input type="submit" name="submit" value="submit"/>
user name:
<input type="text" name="name" > You have to enter the user name
<br>
pwd:
<input type="text" name="password" > You have to enter the pwd
<br>
Host Key:
<input type="text" name="presenterPwd" value="" >
<br>

</form></body>
</html>
```

Appendix 10 : Code Snippet for – Edit Settings

```
<html>
<head><title>Welcome to Dimdim</title> </head>
<body>

<br>
<form name="sample" action="http://host:port/portal/EditSettings.action" method="post">
<input type="submit" name="submit" value="submit"/>
user name:
<input type="text" name="name" > You have to enter the user name
<br>
pwd:
<input type="text" name="password" > You have to enter the pwd
<br>
Host Key:
<input type="text" name="presenterPwd" value="" >
<br>

Return URL:
<input type="text" name="returnUrl" value="http://www.dimdim.com" >
<br>
```

Lobby:

```
<select name=" waitingarea" id="waitingarea" >  
  <option value="true">enable</option>  
  <option value="false">disable</option>  
</select>  
<br>
```

Meeting Time(in minutes):

```
<input type="text" name="maxMeetingTime" value="60" >  
<br>  
<br>
```

Meeting participants:

```
<input type="text" name="maxParticipants" value="60" >  
</form>  
</body>  
</html>
```

Appendix 11 : URL Encoding

Please refer to this <http://en.wikipedia.org/wiki/Percent-encoding> for more details. There are few online tools which can be used to get the encoded string example: <http://urldecoder.waraxe.us/>