

XML API 5.9.0 SP1 Release Notes

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Introduction

XML API 5.9.0 SP1 is a service pack release that replaces version 5.9.0, which had a backward compatibility issue. This document covers features and bug fixes from XML API 5.9.0 SP1 and 5.9.0.

XML API 5.9.0 SP1 uses T27L FR26 as the reference web page version.

New Features

15327– Support SAML 2.0 in AuthenticateUser

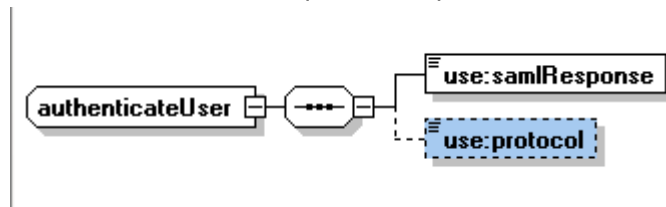
Affected APIs:

AuthenticateUser

AuthenticateUser API is has been updated to support SAML 2.0. We've added a new <protocol> element so that it will be backwardly compatible with integrations that are still using SAML 1.1 assertions

XSD Design

AuthenticateUser API request and <protocol> elements as below,



Element	Parent	Definition	Type	Default
protocol	root	Authentication protocol.	Enum, 0..1 {SAML1.1, SAML2.0}	SAML1.1

Logic

1. If request does not specify <protocol> or specifies <protocol>SAML1.1, then AuthenticateUser requires <samlResponse> to use the SAML 1.1 protocol.
2. If request specifies <protocol>SAML2.0, then AuthenticateUser requires <samlResponse> to use the SAML2.0 protocol.
3. AuthenticateUser ignores the site level SAML protocol configuration.

Use Cases

Use Case 1

1. Existing integration calls authenticateUser with a valid SAML 1.1 assertion in <samlResponse> and no <protocol> field.
2. XML API validates the SAML assertion and returns sessionTicket.

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Use Case 2

1. New integration calls authenticateUser with <protocol>SAML2.0 and a valid SAML 2.0 assertion in <samlResponse>.
2. XML API validates the SAML assertion and returns sessionTicket.

15333 – HQ video support for MC, TC, GetSite and

Create/Set/GetUser

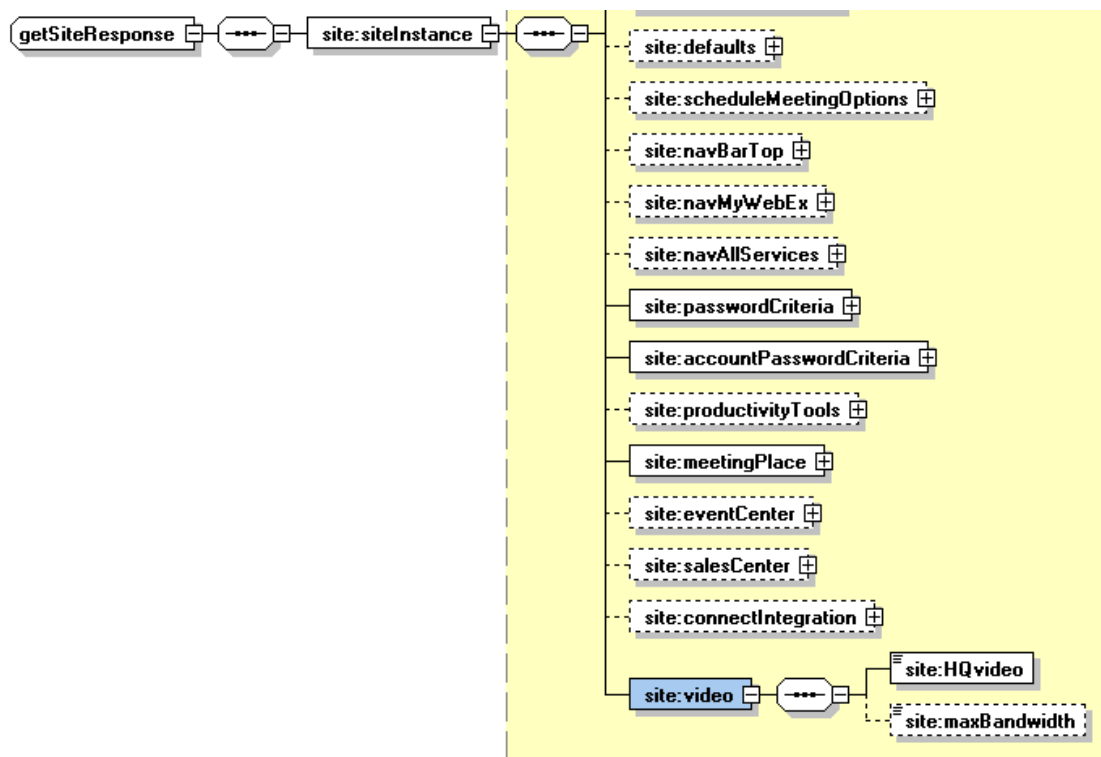
Affected APIs:

Create/Set/GetMeeting, Create/Set/GetTrainingSession, GetSite and Create/Set/GetUser.

High Quality Video (HQV) was added in Meeting Center in T27 FR17 and for Training Center and Support Center in FR 26. We've added support for this functionality in the XML API.

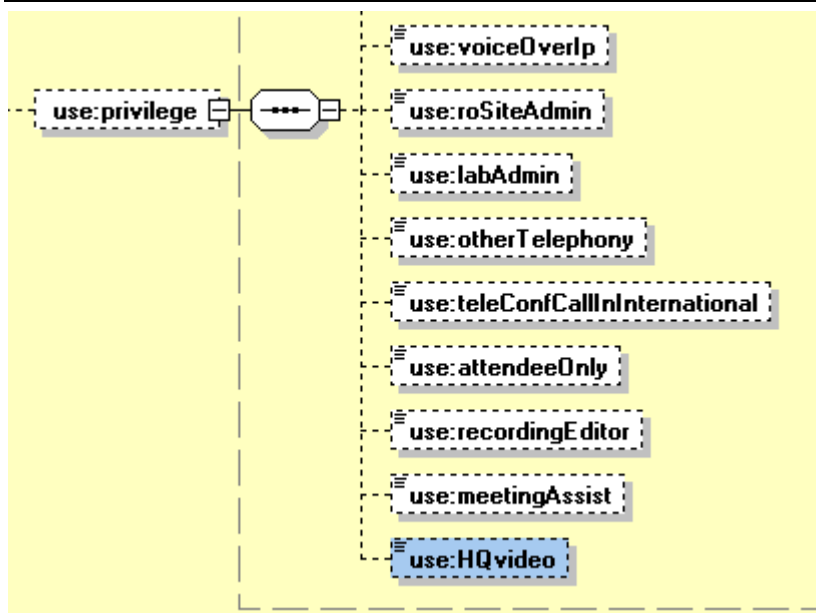
XSD Design

GetSite adds the following elements to return the HQvideo status



Element	Parent	Definition	Type
video	root	Holds video options	Container, 1..1
HQvideo	video	Returns true only if High Quality Vide is enabled in both Super and Site Admin.	Boolean, 1..1
maxBandwidth	video	Returns the HQ Video Maximum bandwidth setting from Site Admin.	Enum, 0..1 {LOW, MEDIUM, HIGH}

Create/Set/GetUser adds the following element,



Element	Parent	Definition	Type	Default
HQvideo	privilege	Enables/disables HQ video for the user	Boolean, 0..1	True, based on web page checkbox

Create/Set/GetMeeting adds the following element:



Element	Parent	Definition	Type	Default
HQvideo	enableOptions	Enables/disables HQ video for the session	Boolean, 0..1	Default to site admin-> "Default scheduler options" if site and user supports HQ video.

Create/Set/GetTrainingSession adds the following element:

- train:supportRemoteComputer
- train:supportShareWebContent
- train:supportUCFRichMedia
- train:networkBasedRecord
- train:presenterBreakoutSession
- train:attendeeBreakoutSession
- train:supportPanelists
- train:muteOnEntry
- train:multiVideo
- train:veryLargeSess
- train:HQvideo

Element	Parent	Definition	Type	Default
HQvideo	enableOptions	Enables/disables HQ video for the session	Boolean, 0..1	Default to site admin-> "Default scheduler options" if site and user supports HQ video.

Logic

GetSite

1. High Quality video is configured in the Super Admin and Site Admin tools as shown below:

- Multi-point Video (\$C, TC-Pre-FR26 and MC-Pre-FR17 only)
- High quality video (MC, TC and SC)
- True Color Mode
- Allow Site Admin to Input Password

Display feedback form after meeting (EC, TC, and SC)
 Allow host to customize personal meeting room branding: Below existing header
 iCalendar (Show Add to My Calendar for EC, MC, SC and TC)
 Set maximum video bandwidth to: Medium (15 fps, high resolution) (MC only)
 (Note: This setting does not apply to high quality video.)
 Enable high-quality video (MC, TC and SC)
 Enable teleconferencing CLI authentication
 Host and attendee must have a PIN

2. GetSite will return <HQvideo>>true ONLY if high quality video is checked in both Super Admin and Site Admin

Create/Set/GetUser

1. The <HQvideo> element is based on the Site Admin->Edit User screenshot as below:

Privileges:

Service	Session Type Allowed
	Select All Clear All
Meeting Center	<input checked="" type="checkbox"/> STD: Meeting Center Standard Meeting <input checked="" type="checkbox"/> PRO: Meeting Center Pro meeting <input type="checkbox"/> AUO: Personal Conference
Event Center	<input checked="" type="checkbox"/> ONS: Event Center Online Event
Training Center	<input checked="" type="checkbox"/> TRS: Training Center Training session

Security:

Force this user to change password on next login
 Reset password
 Account locked out

General:

Recording Editor
 Enable high-quality video

2. If Create/SetUser request specifies <HQvideo>>true, the API will return exception (ID=010081, "The site does not support High Quality Video") if either Super admin or Site admin do not have HQ video enabled.

Create/Set/GetMeeting and Create/Set/GetTrainingSession

1. If Create/SetMeeting and Create/SetTrainingSession specifies <HQvideo>>true but the site does not support it, then the API will throw exception (ID=010081 "The site does not support High Quality Video"). If the user does not support HQ video, then the API will throw exception (ID=030079, "The user does not support High Quality Video").
2. If Create/SetMeeting and Create/SetTrainingSession does not specify <HQvideo>

- a) If a session template is specified, the default HQ Video option will come from the session template.
- b) If a session template is not specified, the default HQ video option will come from Site Admin->Default Scheduler Options->" Enable high-quality video" setting as shown below:

Site Settings for: Common Select Common for settings that apply to more than one service
Select a service for settings that are specific to one service

Default Scheduler Options (These options are applied to the site as defaults, but individual users can change them.)

Meeting email reminders: On
(MC, EC, SC and TC) Off

Telephony entry and exit tone: Beep
 Announce name
 No tone

Join the teleconference without pressing "1": On
 Off

Default site audio options: Integrated VoIP
Teleconference None
 WebEx teleconferencing
Toll Type: Toll Toll free
 Allow access to teleconference via global call-in numbers
Select teleconferencing location US/Canada
 Call-in teleconferencing (This will only apply to EC)
 Call-back teleconferencing (This will only apply to EC)
 Other teleconferencing

Video options (MC and TC only): Video
 Enable high-quality video

3. The Meeting Center scheduler web page screenshot as below,

Meeting Options Set c

Return to [Quick Scheduler](#)

Select options that you want **participants** to have when meeting begins:

Meeting options: Chat
 Video
 Enable high-quality video
 Notes
 Allow all participants to take notes
 Single note taker
 Enable closed captioning
 File transfer
 Enable UCF rich media for attendees

4. The Training Center scheduler web page screenshot as shown below,

Session Options

Training session options

Select options that you want participants to have when a training session begins.

- Chat
- Video
- File transfer
- Enable high-quality video

Attendee Privileges

Select the attendee privileges that you want all attendees to have when a training session begins.

Sessions:

- Recording
- Number of attendees
- Send video
- Attendee list

Documents:

- Save
- Annotate
- Next or previous page
- Print
- Thumbnails

Security:

- Exclude password from emails sent to attendees
- Attendees must have an account on this service to attend session

5. If Create/SetMeeting or Create/SetTrainingSession specify <HQvideo>true, then <audioVideo> should also be enabled. If not, the API will throw exception (ID= 070001, "audioVideo should be enabled when enable HQvideo"),
6. The web page does not allow "Multi-point video" with High Quality Video. Thus if <HQvideo>true and <multiVideo>true simultaneously, the API will throw validation exception (ID=999999, "multiVideo and HQvideo cannot support at the same time").

Use Cases

Use Case 1

1. Integration calls GetSite and checks if <video><HQvideo>true to see if High Quality video is enabled for the site.
2. Integration calls CreateMeeting with <enableOptions><HQvideo>true.
3. Meeting is scheduled with High Quality video enabled.
3. Integration calls GethosturlMeeting to start meeting with HQ video.

#15329 – Create/SetMeeting to accept <afterMeetingNumber> up to 999 like the web page.

Affected APIs:

Create/SetMeeting

CreateMeeting and SetMeeting should be updated so that <repeat><afterMeetingNumber> accepts the same values as the web page (up to 999).

Logic

1. On the meeting scheduler page, the maximum “After X meetings” is 999 for Daily/Weekly/Monthly/Yearly repeat meeting as below,

Recurrence: None Daily Weekly Monthly Yearly

Every Days

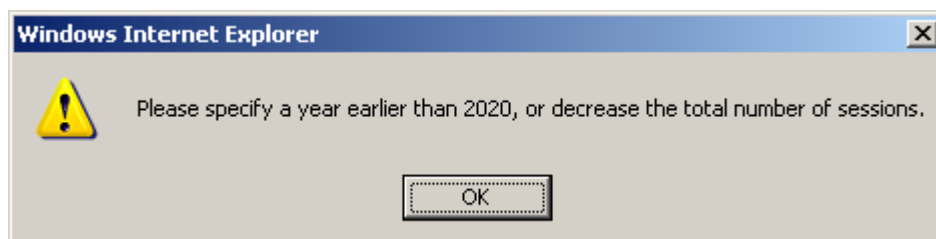
Every weekday

Ending: No end date

Ending

After meetings

2. If the last session of a recurring meeting occurs after 2020, the web page will show the following error message.



3. To conform to the Meeting Center scheduler web page, Create/SetMeeting will be updated as follows.
 - a) To allow <afterMeetingNumber> input scope between [0~999], if <afterMeetingNumber> is not in this valid scope, Create/SetMeeting API will throw validation exception (ID=999999 “AfterMeetingNumber should be [1-999]”)
4. If the last session for a recurring meeting occurs > 10 years after the first session, then Create/SetMeeting API will throw exception (ID=060024, “The last recurrence meeting exceeds maximum expiration time, please specify a year earlier than [X] or decrease the total number of sessions”). Note that web page’s maximum year for the last session in a recurring meeting is fixed at 2020.
5. After this task, the bug [268482](#) will be changed to match this task’s behavior.

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Use Cases

Use Case 1

1. Integration calls CreateMeeting specifying <afterMeetingNumber>=20 to schedule a monthly repeat meeting.
2. CreateMeeting returns success and schedules 20 monthly repeat meetings.

#14914 – Reserve Hands On Lab outside of TC Session

Affected APIs:

New API: ReserveLab, old API: CheckLabAvailability

Integrations need the ability to schedule a Hands on Lab session outside of a TC session. This is done in the TC web page from the “Hands-On-Lab” left hand option and clicking on “Reserve Computers” for any lab.

CheckLabAvailability is updated to correctly return only available computers and not return Maintenance Room machines.

Roles and Privileges

APIs	Site Admin	Site Admin -View Only	Hosts
ReserveLab	Self	Self	Self

Reserve Lab Computers for On-demand Use

Allow attendees to connect to computers of the specified lab from the website anytime between starting time and ending time:

Topic: (Required)

Reserve computers from lab:

Number of computers:

Starting time: am pm [Plan lab computer time zones...](#)

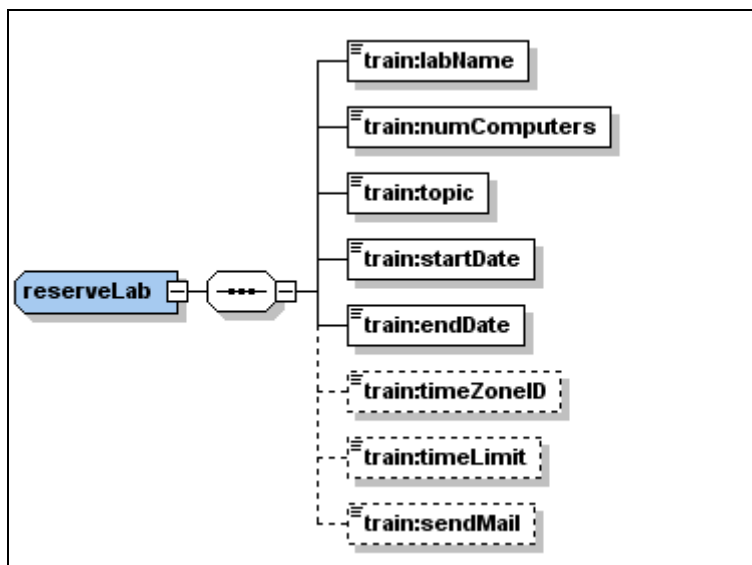
Ending time: am pm [Plan lab computer time zones...](#)

Time zone:

Total time limit per attendee:

Schema Design

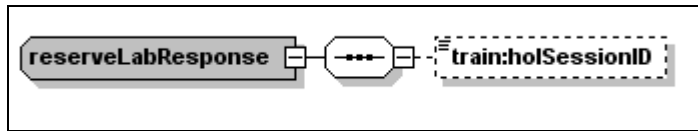
ReserveLab is a new function:



ReserveLab is a new function with the following elements to match the “Reserve Lab Computers for On-demand Use” webpage.

Element	Parent	Definition	Type	Default
labName	root	name of HOL. If specified lab is unavailable, an E080002 exception will be thrown.	string, 1..1	
numComputers	root	number of computers to reserve. If lab computers are unavailable at the time specified an E080003 exception will be thrown.	int, 0..1	“
topic	root	topic for lab		
startDate	root	starting date and time. The minute number must be 00, 15, 30 or 45, and second number must be 00, which follows the web page.	date/time string, 1..1	
endDate	root	ending date and time. starting date and time. The minute number must be 00, 15, 30 or 45, and second number must be 00, which follows the web page.	date/time string, 1..1	
timeZoneID	root	time zone. If unspecified, then API will use the user’s timeZoneID.	int, 0..1	same as web page
timeLimit	root	total time limit per attendee (in minutes)	int, 0..1	60
sendMail	root	enables sending lab reserved confirmation mail to host. (see notes below).	boolean	false

ReserveLab response and element



<holSessionID> is the unique identifier for a HOL session.

Logic

4. If the site doesn't support HOL, an E010013 exception will be thrown (The site doesn't support Hands-On lab.)
5. If sendMail=true, host reserve a Reserve Lab Computers for On-demand Use will receive a message email, the language support of the email is based on site configuration and template below

```
Hello %HostName%,
You have successfully scheduled the following on-demand hands-on lab session:
Topic: %HOLTopic%
Session start date: %HOLStartDate%
Session start time: %HOLStartTime%, %TimeZone%
Session end date: %HOLEndDate%
Session end time: %HOLEndTime%, %TimeZone%
Time limit: %HOLTimeLimit%
Hands-on Lab Key: %HOLKey%
Please click the following link to view or edit information about this hands-on lab session.
%HOLSessionInfoURLHost%
>EmailFooter%
```

Use Case

1. Integration calls CheckLabAvailability to display usage for a specific lab.
2. Integration calls ReserveLab to reserve lab computers for a specific time.

ReserveLab sample request and response

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<serv:message xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:serv="http://www.webex.com/schemas/2002/06/service">
  <header>
    <securityContext>
      <webExID>steve</webExID>
      <password>pass</password>
```

```
<partnerID>webexpartner</partnerID>
<siteName>aggenxml50</siteName>
</securityContext>
</header>
<body>
  <bodyContent
    xsi:type="java:com.webex.service.binding.training.ReserveLab">
    <labName>Lab2</labName>
    <numComputers>1</numComputers>
    <topic>reserve test01</topic>
    <timeLimit>60</timeLimit>
    <startDate>04/20/2011 10:00:00</startDate>
    <endDate>04/20/2011 11:00:00</endDate>
    <timeZoneID>4</timeZoneID>
    <sendMail>>false</sendMail>
  </bodyContent>
</body>
</serv:message>

<?xml version="1.0" encoding="ISO-8859-1" ?>
<serv:message xmlns:serv="http://www.webex.com/schemas/2002/06/service"
xmlns:com="http://www.webex.com/schemas/2002/06/common"
xmlns:sess="http://www.webex.com/schemas/2002/06/service/session"
xmlns:train="http://www.webex.com/schemas/2002/06/service/trainingession"
xmlns:qti="http://www.webex.com/schemas/2002/06/service/trainingessionqti"
xmlns:qtiasi="http://www.webex.com/schemas/2002/06/service/trainingessionqtiasi">
  <serv:header>
  <serv:response>
    <serv:result>SUCCESS</serv:result>
    <serv:gsbStatus>PRIMARY</serv:gsbStatus>
  </serv:response>
  </serv:header>
  <serv:body>
  <serv:bodyContent xsi:type="train:reserveLabResponse"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <train:holSessionID>65192</train:holSessionID>
  </serv:bodyContent>
  </serv:body>
</serv:message>
```

#14913 – Update TC attendee & presenter reminder emails.

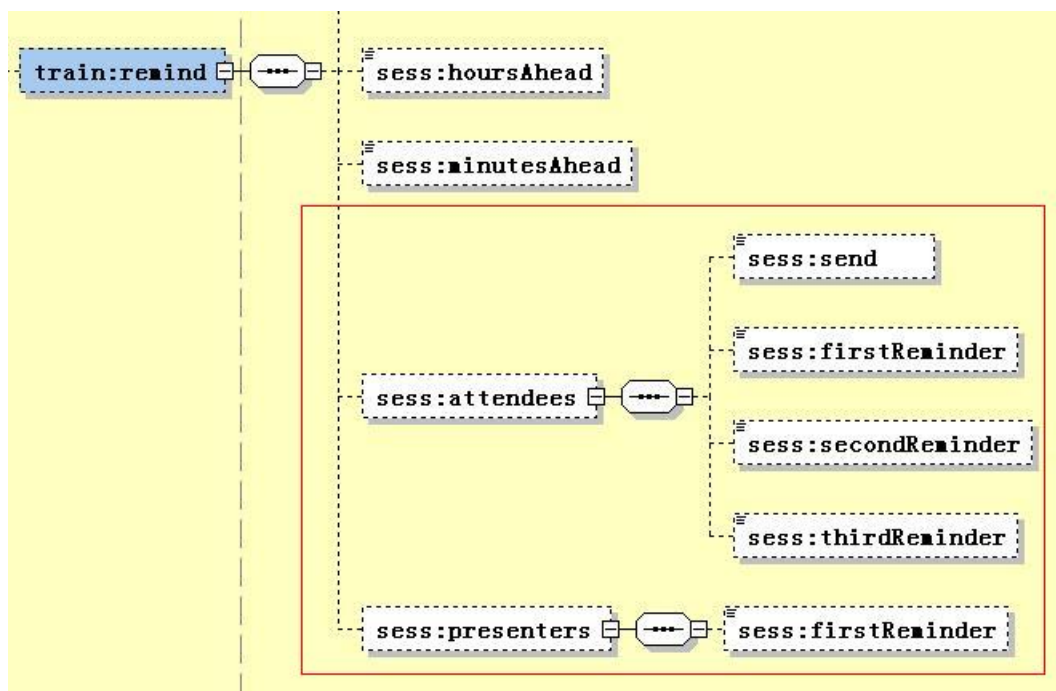
Affected APIs:

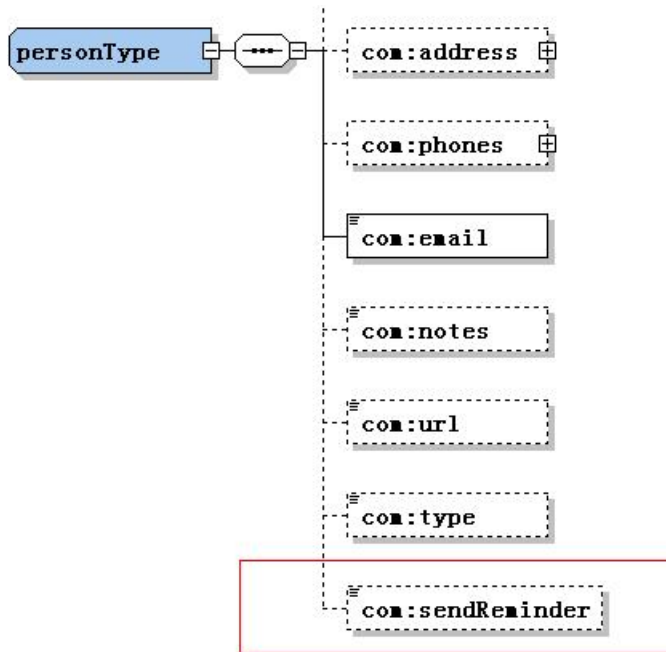
Create/Set/GetTrainingSession, Create/RegisterMeeting/DelAttendee.

Create/SetTrainingSession and CreateMeetingAttendee TC email reminder functionality has been updated as follows:

- All TC reminder will use the email templates that are customizable in Site Admin and all template variables should be supported
- Reminder emails will be individualized for each attendee. If registration is enabled, each attendee's reminder email will include their personal registration id.
- Create/SetTrainingSession will define when to send a presenter reminder, and up to three attendee email reminders.

XSD Design





Element	Parent	Definition	Type	Default
attendees	remind	holds attendee reminder elements	container, 0..1	
send	attendees	whether to send reminders	boolean, 0..1	
firstReminder	attendees	when reminder is sent before session starts. If null, deletes reminder.	enum, 1..1 {15MIN, 30MIN, 1HR, 2HR, 24HR, 2DAY, 7DAY, 14DAY}	24HR
secondReminder	attendees	when reminder is sent before session starts. If null, deletes reminder.	enum, 1..1 {15MIN, 30MIN, 1HR, 2HR, 24HR, 2DAY, 7DAY, 14DAY}	24HR
thirdReminder	attendees	when reminder is sent before session starts. If null, deletes reminder.	enum, 1..1 {15MIN, 30MIN, 1HR, 2HR, 24HR, 2DAY, 7DAY, 14DAY}	24HR
presenters	remind	holds attendee reminder elements	container, 0..1	
firstReminder	presenters	when reminder is sent before session starts. If null, deletes reminder.	enum, 1..1 {15MIN, 30MIN, 1HR, 2HR, 24HR, 2DAY, 7DAY, 14DAY}	24HR
sendReminder	personType	Whether to send Reminder to attendee/presenter	boolean, 0..1	

Logic

Create/SetTrainingSession references the following Training Center scheduling web page:

Registrations

- Registration Notification to Host
- [Attendee Registration Pending](#)
- [Attendee Registration Confirmed](#)
- [Attendee Registration Rejected](#)

Reminder

Send Training Session Reminder emails to:

<input checked="" type="checkbox"/> Attendees	Reminder 24 hours before session starts Add another reminder email Note: You can add up to 3 reminders emails
<input checked="" type="checkbox"/> Presenters	24 hours before session starts
<input checked="" type="checkbox"/> Host	15 minutes before session starts via email address: phillipl@webex.com

[Notification to Host Upon Attendee Joining a Session](#)

1. If Create/SetTrainingSession:
 - a) specifies <reminder><attendees><send>true, and <secondReminder>, but no <firstReminder>, XML API will throw existing exception (firstReminder cannot be null).
 - b) specifies <reminder><attendee><send>true and <firstReminder> and <thirdReminder>, XML API will throw existing exception (secondReminder cannot be null).
 - c) When using the session template:
 - i. if user specifies <reminder><attendees> or <presenters> value, XML API will save the specified value to DB
 - ii. if user does not specify <reminder><attendees> or <presenters>, XML API will use the template's value.
2. In this release, XML API does not support the site default settings for reminders.

Use Case

1. Customer uses Site Admin to customize the "Training Session Reminder to Attendees" email template

2. Integration calls CreateTrainingSession with:

```
<attendeeOptions><registration>true </registration></attendeeOptions>  
<remind><attendees>  
<send>true</send>  
<1stReminder>7Day</1stReminder>  
<2ndReminder>24HR</2ndReminder>  
<3rdReminder>2HR<3rdReminder>  
</attendees></remind>
```
3. Integration calls CreateMeetingAttendee to add attendees..
4. 7 days, 1 day, and 2 hours before the TC session, WebEx sends customized email reminders to each attendee which include each attendee's registration ID.
5. Each attendee clicks on their reminder email to register and join the TC session after it starts.

Bug Fixes

436490 – GetSite returns failure if site is inactive.

**# 437492 – “ParticipantLimit value exceeds entire session maximum”
exception typo**

424264- GetIMStestResult returning Server Error.

**# 424984 - GetIMStestResult returning 30M duration even if
scheduled with no time limit**

**# 424737 - GetIMStestResult <qti:response_form> returning all
choices instead of test-taker selected ones**

426285 - GetTestInformation returns incorrect <startDate>

427493 - GetTestInformation always returns <registerID>=0

**# 425199 - LstScheduledTests without <author> specified returning
all matching tests.**

422543 - LstMeetingAttendee cannot order by ATTENDEEID.

421646 - CreateMeetingAttendee not sending email invitations for EC.

293670 - TC & EC allowing attendee registrations beyond the maximum allowed.

Affected APIs:

CreateTrainingSession / SetTrainingSession

CreateEvent / SetEvent

CreateMeetingAttendee / RegisterMeetingAttendee

404781- LstSummarySession called w/<timeZoneID> not returning sessions

424912, 424913 – GetUser not returning NL & RU locale

424140 - CreateTrainingSession always shows reminder email sent to host 15 minutes before

423888- SetEvent does not set <entryExitTone> correctly

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425375 - CheckLabAvailability returns incorrect

<sessionStartTime>, <sessionEndTime>

426596 - <timeZone> string "GMT-09:00, Alaska (Anchorage)"

misspelled.

425829- LstSummaryMeeting DB performance problem

Name	XML API 5.9.0 SP1 Release Notes	Rev.	1	Date	06-07-2011
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New Exceptions

ID	Message
010081	The site does not support High Quality Video
030078	The user does not support High Quality Video
060024	The last recurrence meeting exceeds maximum expiration time, please specify a year earlier than {0} or decrease the total number of sessions
070001	audioVideo should be enabled when enable HQvideo
999999	multiVideo and HQvideo cannot support at the same time
080005	The maximum number of registrants for this WebEx training has been reached
100009	The maximum number of registrants for this WebEx event has been reached
140011	Corresponding test author not found