CWS Interface Specification

TM 3.1.0

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About this document

This document describes the CWS interface.

1 DTOs

1.1 UserDto

Id	string	Identifier	GUID
Sid	string	SID	^S-\d-\d+-(\d+-){1,14}\d+$
SamAccountName	string	Sam Account Name	^.+$
SipAddress	string	SIP Adresse of the endpoint	^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$
FirstName	string	Firstname	
LastName	string	Lastname	

1.2 TeamEndpointDto

Id	string	Unique Identifier	GUID
Sid	string	SID	^S-\d-\d+-(\d+-){1,14}\d+$
SamAccountName	string	Sam Account Name	^.+$
Name	string	Name	^.+$
TenantId	string	TenantId	GUID
SipAddress	string	SIP Address oft he endpoint	^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$
PhoneUri	string	Phone Uri of the endpoint	Empty or ^[sS][iI][pP]:.+@.+$
PhoneNumber	string	Phone number of the endpoint	Empty or ^\+\d+([;].*)?$
WorkflowInstanceId	string	Unique identifier of the assigned workflow	GUID
Language	string	Assigned language in the format en-US	^[a-z]{2}-[A-Z]{2}$
VoicemailBoxId	string	Unique identifier of the assigned Voicemail Box	Empty or GUID
OpeningHoursBoxId	string	Unique identifier of the assigned Opening Hours Box	Empty or GUID
VoicePolicyId	string	Unique identifier of the assigned Voice Policy	Empty or GUID
Active	bool	Indicator if this team should be activated. If a team was activated depends on the Activated flag.	true or false
Activated	bool	Indicator if this team was successfully	true or false

		activated from the system and all necessary configurations where made in CIC.	
MemerSids	List<SidDto>	List which contains for each team member a SID dto.	
TeamMemberCallGroupDefaultRingingDelayTimeInSec	int	Default time in seconds for team members after a call is distributed to the other team members	
TeamMemberCallFwdDefaultDelayTimeInSec	int	Default time in seconds for the team members after which a call is forwarded tot he specified target.	
TeamMemberCallFwdSipUri	string	Default forward target of the team members	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
TeamMemberBusyOnBuyInACallEnabled	bool	Indicator if for team members the busy on busy should be enabled	`true or false`
TeamMemberIsBusyInAMeetingSelectable	bool	Indicator if a team member should be for team call selectable when he is in a meeting	
TeamMemberIsBusySelectable	bool	Indicator if a team member should be for a team call selectable if he is in the presence state busy	
PresenceMappingDirectSelectable	int	Mapps the internal state “a person is direct selectable” to a presence state	1 = Available 3 = Busy 7 = Away
PresenceMappingInTimeSelectable	int	Mapps the internal state “a person is in	1 = Available 3 = Busy 7 = Away

		time selectable" to a presence state	
PresenceMappingNoOneAvailable	int	Mapps the internal state "no team members are signed in" to a presence state	1 = Available 3 = Busy 7 = Away
ServiceFwdSipUri	string	SIP address of the forward target 0	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
ServiceFwdSipUri1	string	SIP address of the forward target 1	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
ServiceFwdSipUri2	string	SIP address of the forward target 2	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
TeamChoiceEnabled	bool	Indicator if users can change teams	`true or false`
PublishAsAutomaton	bool	Indicator if team is treated in lync as non-person contact (true) or person contact (false)	`true or false`
BranchId	string	Branch Identifier	
TrustedApplication	string	Trusted application name	
VoicemailToAddress	string	To recipients for voice mails	`^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$`

VoicemailCcAddress	string	CC recipients for voice mails	^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$
TeamChoiceDefaultActive	bool	Default state for newly activated team	
UseDisplayNameInSubjectForNonPstnCall	bool	Determine if displayname or the sip-address for NonPSTN calls is displaying in the subject of a teamservice call.	

1.3 UserTeamEndpointDto

Id	string	Unique identifier of the user	GUID
Sid	string	SID of the	^S-\d-\d+-(\d+-){1,14}\d+$
SipAddress	string	SIP Address of the user	^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$
TeamId	string	Team identifier	GUID
IsUserTeamAdministrator	bool	Indicator if user is administrator of this team	boolean
LineUri	string	Phone Uri of the user	Empty or ^[sS][iI][pP]:.+@.+$
PrivateLineUri	string	Private phone Uri of the user	Empty or ^[sS][iI][pP]:.+@.+$
OrganizationUnitNodeId	string	Unique identifier of the assigned Organization Unit	Empty or GUID

1.4 TeamMembershipsDto

TeamMembershipDtos	List<TeamMembershipDto>	User's team membership information
TeamEndpointDto	TeamEndpointDto	Team information

1.5 TeamMembershipDto

UserDto	string	Language in the format en-US
IsActive	string	Indicator if user is active in team

1.6 ActivateTeamUserDto

TeamId	string	Unique identifier of the team
UserId	string	Unique identifier of the user

1.7 DeactivateTeamUserDto

TeamId	string	Unique identifier of the team
UserId	string	Unique identifier of the user

1.8 LanguageDto

Code	string	Language in the format en-US
Name	string	Name

1.9 OrganizationUnitDto

Id	string	Unique identifier of the organization unit
Name	string	Name
groupSid	string	GroupSid
parentId	string	Unique identifier of the parent organization unit

1.10 VoicemailBoxDto

Id	string	Unique identifier of the voicemail box
Name	string	Name
Address	string	Email address of the voice mail box

1.11 OpeningHourBoxDto

Id	string	Unique identifier of the opening hour box.
Address	string	Email address

1.12 WorkflowDto

Id	string	Unique identifier of the Workflow
Name	string	Name

1.13 ExternalAccessPolicyDto

Id	string	Unique identifier of the Policy
Name	string	Name
Description	string	Beschreibung

1.14 VoicePolicyDto

Id	string	Unique identifier of the Policy
Name	string	Name
Description	string	Beschreibung

1.15 SidDto

Sid	string	Sid

1.16 CreateOrUpdatePlaceholderValueRequestDto

ActiveDirectoryTeamDefinitionId	string	Unique identifier of the ActiveDirectoryTeamDefinition
Name	string	Name of placeholder
DefaultContactObjectId	string	ContactObjectId value
DefaultFreeText	string	Textual value
DefaultTime	string	Time value
DefaultNumber	string	Numeric value
DefaultWfResourceId	string	WorkflowResourceId value

1.17 PlaceholderDto

PlaceHolderId	string	Unique identifier of the PlaceHolder
PlaceHolderType	string	Type of the PlaceHolder (string, can be: WFRS, NMBR, TIME, COBJ, FTXT)
Name	string	Name of placeholder
DefaultContactObjectId	string	ContactObjectId value
DefaultFreeText	string	Textual value

DefaultTime	string	Time value
DefaultNumber	string	Numeric value
DefaultWfResourceId	string	WorkflowResourceId value

1.18 CreateOrUpdatePlaceholderValueResponseDto

CwsOperationResult	CwsOperationResult	Operation result (200 ok, 400 bad request, 500 internal server error, 404 not found)
PlaceholderDto	PlaceholderDto	Placeholder Dto

1.19 DeletePlaceholderValueDto

PlaceholderName	string	Name of placeholder
ActiveDirectoryTeamDefinitionId	string	Unique identifier of the ActiveDirectoryTeamDefinition

1.20 TrustedApplicationDto

Id	string	Unique identifier of the TrustedApplication
Name	string	Name of the Trusted Application
Port	string	Port number of trusted application
UserAgent	string	Use Agent
ServerType	string	LUCS ServerType

2 IcwsRestService – User Related Methods

This chapter describes the methods, which the interface ICwsRestService provides.

2.1 GetUsers

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetUsers

This method returns all configured users back

List<UserDto> GetUsers()

Parameter	-

Return	**List<UserDto>**	List<UserDto>	List of configured users

2.2 GetUserBySid

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetUserBySid

This method returns a user, which matches the provided parameter.

GetUserResponseDto GetUserBySid(string sid)

Parameter	**sid**	string	Sid of the desired user	^S-\d-\d+-(\d+-){1,14}\d+$

Return	**GetUserResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 404 NotFound, 500 Internal Server Error
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	UserDto	UserDto	Dto of the user, if the OperationResult returns 200.	

2.3 GetUserBySam

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetUserBySam

This method returns a user that matches the provided parameter.

GetUserResponseDto GetUserBySam(string samAccountName)

Parameter	**sam**	string	SAM Account name oft he desired user.	^.+$

Return	**GetUserResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 404 NotFound, 500 Internal Server Error
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	UserDto	UserDto	Dto of the user, if the OperationResult returns 200.	

2.4 GetUserBySipUri

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetUserBySipUri

This method returns a user which matches the provided parameter.

GetUserResponseDto GetUserBySid(string sipUri)

Parameter	**sipUri**	string	sipUri des gewünschten Benutzers	^[sS][iI][pP]:.+@.+$

Return	**GetUserResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 404 NotFound, 500 Internal Server Error
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	UserDto	UserDto	Dto of the created user, if the OperationResult returns 200.	

2.5 UpdateUser

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/UpdateUser

This method updates a user and sends the updated dto back. Properties, which cannot be null or empty, are Sid, Id, SamAccountName and SipAddress. The user will be identified over the Id. If there exists already a user with the same Sid, Id, SamAccountName or SipAddress no changes will be saved.

UpdateUserResponseDto UpdateUser(UserDto dto)

Parameter	**User**	UserDto	Dto of the to updated user

Return	**UpdateUserResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 404 NotFound, 500 Internal Server Error, 400 Bad Request
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	UserDto	UserDto	Dto of the updated user, if the OperationResult returns 200.	

2.6 **CreateUser**

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/CreateUser

This method creates a user and sends the dto back. Properties, which cannot be null or empty, are Sid, SamAccountName and SipAddress. The Id of the user will be generated by the system

CreateUserResponseDto CreateUser (UserDto dto)

Parameter	**User**	UserDto	Properties of new user. The Id will not be used, it will be generated by the system.

Return	**CreateUserResponseDto**		
	CwsOperationResult	CwsOperationResult	Operation Result

		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	UserDto	UserDto	Dto of the created user, if the OperationResult returns 200.	

2.7 RemoveUserBySipUri

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/RemoveUserBySipuri

This method removes a user from the system, which matches the provided parameter.

CwsOperationResult RemoveUserBySipUri(string sipUri)

Parameter	**sipUri**	string	SIP address of the user to be removed

Return	**CwsOperationResult**		
	OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

2.8 RemoveUserBySid

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/RemoveUserBySid

This method removes a user from the system, which matches the provided parameter.

CwsOperationResult RemoveUserBySid(string sid)

Parameter	**sid**	string	Sid of the user that should be removed.
Return	**CwsOperationResult**		
	OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

2.9 RemoveUserById

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/RemoveUserById

This method removes a user from the system, which matches the provided parameter.

CwsOperationResult RemoveUserById(string id)

Parameter	**id**	string	Id of the user that should be removed.

Return	**CwsOperationResult**		
	OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

2.10 ActivateTeamUser

Methode	POST
Request Format	XML

Response Format	XML
UriTemplate	/ ActivateTeamUser

This method activates a user for a selcted a team. Enabling and disabling of team users is possible with next conditions:

- Team Choice is enabled for the team
- Team has type TeamServiceOnly or TeamServiceAndTeamCallGroup

Update ActivateTeamUserRequestDto ActivateTeamUser (ActivateTeamUserRequestDto)

Parameter	***ActivateTeamUserRequestDto***			
	teamId	string	**Mandatory**	Identifier of the team
	userId	string	**Mandatory**	Identifier of the user

Return	**ActivateTeamUserRequestDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.11 DeactivateTeamUser

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/ DeactivateTeamUser

This method deactivates a user for a selected team. Enabling and disabling of team users is possible with next conditions:

- Team Choice is enabled for the team
- Team has type TeamServiceOnly or TeamServiceAndTeamCallGroup

UpdateDeactivateTeamUserRequestDto DeactivateTeamUser (DeactivateTeamUserRequestDto)

Parameter	***DeactivateTeamUserRequestDto***			
	teamId	string	**Mandatory**	Identifier of the team
	userId	string	**Mandatory**	Identifier of the user

Return	**DeactivateTeamUserRequestDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.12 GeTmTeamMemberActive

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/ GeTmTeamMemberActive

This method returns whether a person's teamchoice for a certain team is set to active or not.

GetIsTeamMemberActiveForTeamResponseDto (teamId, userId)

Parameter	**GetIsTeamMemberActiveForTeamResponseDto**			
	teamId	string	**Mandatory**	Identifier of the team

	userId	string	**Mandatory**	Identifier of the user

Return	**GetIsTeamMemberActiveForTeamResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	IsActiveForTeam	**boolean**	Returns true or false if a person's teamchoice for a certain team is set to active or not.	

2.13 Team related methods

2.14 GetTeamEndpoints

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetTeamEndpoints

This method returns all configured teams back.

List<TeamEndpointDto> GetTeamEndpoints()

Parameter	-

Return	**List<TeamEndpointDto>**	List<TeamEndpointDto>	List of the configured teams.

2.15 GetActivatedTeamEndpoints

Methode	GET
Request Format	-

Response Format	XML
UriTemplate	/GetActivatedTeamEndpoints

This method returns all activated teams back.

List<TeamEndpointDto> GetActivatedTeamEndpoints()

Parameter	-

Return	**List<TeamEndpointDto>**	List<TeamEndpointDto>	List of the activated teams.

2.16 GetDeactivatedTeamEndpoints

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetDeactivatedTeamEndpoints

This method returns all not activated teams back.

List<TeamEndpointDto> GetDactivatedTeamEndpoints()

Parameter	-

Return	**List<TeamEndpointDto>**	List<TeamEndpointDto>	List of the not activated teams.

2.17 GetTeamEndpointBySid

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamEndpointBySid

This method returns the team, which matches the provided parameter.

GetTeamEndpointResponseDto GetTeamEndpointBySid(string sid)

Parameter	sid	string	Sid of the team	`^S-\d-\d+-(\d+-){1,14}\d+$`

Return	**GetTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Dto of the team where the SID matches, as long the operation result returns 200	

2.18 GetTeamEndpointBySamAccountName

Methode	GET
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamEndpointBySamAccountName

This method returns the team, which matches the provided parameter.

GetTeamEndpointResponseDto GetTeamEndpointBySamAccountName(string samAccountName)

Parameter	samAccountName	string	SAM account name of the team	`^.+$`

Return	**GetTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound

		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Dto of the team where the SID matches, as long the operation result returns 200	

2.19 GetTeamUsersMembershipBySipUri

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamUsersMembershipBySipUri

This method returns users membership for specific team, which matches the provided parameter.

GetTeamMembershipResponseDto GetTeamUsersMembershipBySipUri(string sipUri)

Parameter	sipUri	string	SIP Address of the user	**^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$**

Return	**GetTeamMembershipResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamMembershipsDto	**List<TeamMembershipsDto>**	List of the team memberships, where the SipUri matches, as long the operation result returns 200	

2.20 GetTeamChoiceStatusesForTeamEndpointBySipUri

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamChoiceStatusesForTeamEndpointBySipUri

This method returns team choice statuses for specific team, which matches the provided parameter.

GetTeamChoiceStatusesForTeamEndpointResponseDto GetTeamChoiceStatusesForTeamEndpointBySipUri (string sipUri)

Parameter	sipUri	string	SIP Address of the endpoint in the format sip:<name>@<domain>.	`^.+$`

Return	**GetTeamMembershipResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamMembershipsDto	**TeamMembershipsDto**	Dto of the team memberships, where the SipUri matches, as long the operation result returns 200	

2.21 GetTeamChoiceStatusesForTeamEndpointBySid

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamChoiceStatusesForTeamEndpointBySid

This method returns team choice statuses for specific team, which matches the provided parameter.

GetTeamChoiceStatusesForTeamEndpointResponseDto GetTeamChoiceStatusesForTeamEndpointBySid (string sid)

Parameter	sid	string	Sid of the team	`^S-\d-\d+-(\d+-){1,14}\d+$`

Return	**GetTeamMembershipResponseDto**		
	CwsOperationResult	CwsOperationResult	Operation Result

		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamMembershipsDto	**TeamMembershipsDto**	Dto of the team memberships, where the SipUri matches, as long the operation result returns 200	

2.22 GetTeamChoiceStatusesForTeamEndpointBySam

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetTeamChoiceStatusesForTeamEndpointBySam

This method returns team choice statuses for specific team, which matches the provided parameter.

GetTeamChoiceStatusesForTeamEndpointResponseDto GetTeamChoiceStatusesForTeamEndpointBySam (string sam)

Parameter	sam	string	SAM account name of the team	**^.+$**

Return	**GetTeamMembershipResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamMembershipsDto	**TeamMembershipsDto**	Dto of the team memberships, where the SipUri matches, as long the operation result returns 200	

2.23 RemoveTeamEndpointBySid

Methode	POST
Request Format	XML
Response Format	XML

UriTemplate	/RemoveTeamEndpointBySid

This method deletes a team, which matches the provided parameter.

CwsOperationResult RemoveTeamEndpointBySid(string sid)

Parameter	sid	string	Sid of the team	`^S-\d-\d+-(\d+-){1,14}\d+$`
Return	**CwsOperationResult**			
	OperationResult	OperationResult		200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string		More information about the error can be found in this property if the OperationResult is not 200

2.24 RemoveTeamEndpointBySamAccountName

Methode	GET
Request Format	XML
Response Format	XML
UriTemplate	/RemoveTeamEndpointBySamAccountName

This method deletes a team which matches the provided parameter.

CwsOperationResult RemoveTeamEndpointBySamAccountName(string samAccountName)

Parameter	samAccountName	string	SAM account name of the team	**^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$**

Return	**CwsOperationResult**		
	OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

2.25 CreateTeam

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/CreateTeam

This method creates a new team, if the provided SID and SamAccountName does not exist. If the activate flag is set from the beginning, the SIP Address and PhoneNumber must be unique within all activated teams.

CreateTeamResponseDto CreateTeam (CreateTeamRequestDto)

	CreateTeamRequestDto				
	Sid	string	M	SID which identifies the AD object of the team	^S-\d-\d+-(\d+-){1,14}\d+$
	SamAccountName	string	M	Sam Account Name of the AD object	^.+$
	Name	string	M	Desired name oft he team	^.+$
	TenantId	string	/O	Desired tenant account, for which this team will belong	GUID
	TeamType	string	M	Desired team type	TeamServiceOnly TeamCallGroupOnly TeamServiceAndTeamCallGroup
	SipAddress	string	M /O	SIP Address of the endpoint in the format sip:<name>@<domain>. Mendatory if the teamtype is not TeamCallGroupOnly	^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$
	PhoneUri	string	O	Phone Uri of the endpoint in the format sip<number>@<domain>.	Empty or ^[sS][iI][pP]:.+@.+$
	PhoneNumber	string	O	Phone Number of the endpoint in the E.164 format.	Empty or ^\+\d+([;].*)?$
	WorkflowInstanceId	string	M /O	Unique identifier of the assigned workflow. Mendatory if the teamtype is not TeamCallGroupOnly	GUID
	Language	string	M	Assigned language in the format en-US	^[a-z]{2}-[A-Z]{2}$
	VoicemailBoxId	string	O	Unique identifier of the assigned Voicemail Box	Empty or GUID
	OpeningHoursBoxId	string	O	Unique identifier of the assigned Opening Hours Box	Empty or GUID
	VoicePolicyId	string	O	Unique identifier of the assigned Voice Policy	Empty or GUID
	ExternalAccessPolicyId	string	O	Unique identifier of the assigned External Access Policy	Empty or GUID
	Active	bool	O	Indicator if this team should be activated. Default is false.	true or false
	MemerSids	List<SidDto>	M	List that contains for each team member a SID dto.	
	TeamMemberCallGroupDefaultRingingDelayTimeInSec	int	O	Default time in seconds for team members after a call is distributed to the other team members	
	TeamMemberCallFwdDefaultDelayTimeInSec	int	O	Default time in seconds for the team members after which a call is forwarded tot he specified target.	

	TeamMemberCallFwdSipUri	string	O	Default forward target of the team members	(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)
	TeamMemberBusyOnBuyInACallEnabled	bool	O	Indicator if for team members the busy on busy should be enabled	true or false
	TeamMemberIsBusyInAMeetingSelectable	bool	O	Indicator if a team member should be for team call selectable when he is in a meeting	
	TeamMemberIsBusySelectable	bool	O	Indicator if a team member should be for a team call selectable if he is in the presence state busy	
	PresenceMappingDirectSelectable	int	M	Mapps the internal state “a person is direct selectable” to a presence state	1 = Available 3 = Busy 7 = Away
	PresenceMappingInTimeSelectable	int	M	Mapps the internal state “a person is in time selectable” to a presence state	1 = Available 3 = Busy 7 = Away
	PresenceMappingNoOneAvailable	int	M	Mapps the internal state “no team members are signed in” to a presence state	1 = Available 3 = Busy 7 = Away
	ServiceFwdSipUri	string		SIP address of the forward target 0	(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)
	ServiceFwdSipUri1	string		SIP address of the forward target 1	(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)

	ServiceFwdSipUri2	string		SIP address of the forward target 2	(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)
	TeamChoiceEnabled	bool	O	Indicator if users can change teams By default set to 'False'	true or false
	PublishAsAutomaton	bool	O	Indicator if team is treated in lync as non-person contact (true) or person contact (false)	true or false
	BranchId	string	O	Branch Identifier	
	TrustedApplication	string	O	Trusted application name	True or false
	VoicemailToAddress	string	O	To recipients for voice mails	^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$
	VoicemailCcAddress	string	O	Cc recipients for voice mails	^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$
	TeamChoiceDefaultActive	bool	O	Default state for newly activated team The setting depends on 'TeamChoice Enabled' setting. By default set to 'True'.	true or false
	UseDisplayNameInSubjectForNonPstnCall	bool	O	Determine if displayname or the sip-address for NonPSTN calls is displaying in the subject of a teamservice call.	

Return	**CreateTeamResponseDto**		
	CwsOperationResult	CwsOperationResult	Operation Result

		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the created team endpoint if the operation result returns 200	

2.26 **UpdateTeamEndpoint**

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/UpdateTeamEndpoint

This method updates the properties of a team. Some of the team parameters cannot be changed without de- / reactivation.

UpdateTeamEndpointResponseDto UpdateTeamEndpoint(UpdateTeamEndpointRequestDto)

	UpdateTeamRequestDto				
	Id	string	M	Unique identifier of the team. This will not be changed	GUID
	Name	string	M	Desired name oft he team	^.+$
	TenantId	string	/O	Desired tenant account, for which this team will belong	GUID
	PhoneUri	string	O	Phone Uri of the endpoint in the format sip<number>@<domain>.	Empty or ^[sS][iI][pP]:.+@.+$
	PhoneNumber	string	O	Phone Number of the endpoint in the E.164 format.	Empty or ^\+\d+([;].*)?$
	WorkflowInstanceId	string	M /O	Unique identifier of the assigned workflow. Mendatory if the teamtype is not TeamCallGroupOnly	GUID
	Language	string	M	Assigned language in the format en-US	^[a-z]{2}-[A-Z]{2}$
	VoicemailBoxId	string	O	Unique identifier of the assigned Voicemail Box	Empty or GUID
	OpeningHoursBoxId	string	O	Unique identifier of the assigned Opening Hours Box	Empty or GUID
	VoicePolicyId	string	O	Unique identifier of the assigned Voice Policy	Empty or GUID
	ExternalAccessPolicyId	string	O	Unique identifier of the assigned E Policy	Empty or GUID
	MemerSids	List<SidDto>	M	List which contains for each team member a SID dto.	
	TeamMemberCallGroupDefaultRingingDelayTimeInSec	int	O	Default time in seconds for team members after a call is distributed to the other team members	
	TeamMemberCallFwdDefaultDelayTimeInSec	int	O	Default time in seconds for the team members after which a call is forwarded tot he specified target.	
	TeamMemberCallFwdSipUri	string	O	Default forward target of the team members	(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)
	TeamMemberBusyOnBuyInACallEnabled	bool	O	Indicator if for team members the busy on busy should be enabled	true or false

	TeamMemberIsBusyInAMeetingSelectable	bool	O	Indicator if a team member should be for team call selectable when he is in a meeting	
	TeamMemberIsBusySelectable	bool	O	Indicator if a team member should be for a team call selectable if he is in the presence state busy	
	PresenceMappingDirectSelectable	int	M	Mapps the internal state “a person is direct selectable” to a presence state	1 = Available 3 = Busy 7 = Away
	PresenceMappingInTimeSelectable	int	M	Mapps the internal state “a person is in time selectable” to a presence state	1 = Available 3 = Busy 7 = Away
	PresenceMappingNoOneAvailable	int	M	Mapps the internal state “no team members are signed in” to a presence state	1 = Available 3 = Busy 7 = Away
	ServiceFwdSipUri	string		SIP address of the forward target 0	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
	ServiceFwdSipUri1	string		SIP address of the forward target 1	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
	ServiceFwdSipUri2	string		SIP address of the forward target 2	`(^sip:([0-9a-zA-Z\._%+-]+)@((\[[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}\.)|(([\w-]+\.)+))([a-zA-Z]{2,5}|[0-9]{1,3})(\]?)(;user=phone)?$)\|(^(\+)([0-9]{10,15})$)`
	TeamChoiceEnabled	bool	O	Indicator if users can change teams	`true or false`

	PublishAsAutomaton	bool	O	Indicator if team is treated in lync as non-person contact (true) or person contact (false)	`true or false`
	BranchId	string	O	Branch Identifier	
	TrustedApplication	string	O	Name of the Trusted Application	
	VoicemailToAddress	string	O	To recipients for voice mails	`^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$`
	VoicemailCcAddress	string	O	Cc recipients for voice mails	`^((?ix)([a-zA-Z0-9._%+-]+@[a-zA-Z0-9][\w\.-]*[a-zA-Z0-9]\.[a-zA-Z][a-zA-Z\.]*[a-zA-Z];?\s?)+$)?$`
	TeamChoiceDefaultActive	bool	O	Default state for newly activated team	
	UseDisplayNameInSubjectForNonPstnCall	bool	O	Determine if displayname or the sip-address for NonPSTN calls is displaying in the subject of a teamservice call.	

UpdateTeamEndpointResponseDto			
CwsOperationResult	CwsOperationResult	Operation Result	
	OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
	ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.27 **ActivateTeamEndpoint**

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/ActivateTeamEndpoint

This method starts the activation process of a deactivated team. Are in the team not all required fields filled out the method will return an error. In addition, a team cannot be activated if there are conflicts with other teams. Such as the same sip address or phone number.

UpdateTeamEndpointResponseDto ActivateTeam (ActivateTeamEndpointRequestDto)

Parameter	*ActivateTeamEndpointRequestDto*			
	Id	string	**Mandatory**	Identifier of the team

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.28 **DeactivateTeamEndpoint**

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/DeactivateTeamEndpoint

Diese Methode deactivate an activated team.

UpdateTeamEndpointResponseDto DeactivateTeam(DeactivateTeamEndpointRequestDto)

Parameter	*DeactivateTeamEndpointRequestDto*			
	Id	string	**Mandatory**	Identifier of the team

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.29 SetTeamEndpointLanguage

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointLanguage

This method sets the language of a specific team.

UpdateTeamEndpointResponseDto SetTeamEndpointLanguage(SetTeamEndpointLanguageRequestDto)

Parameter	***SetTeamEndpointLanguageRequestDto***				
	Id	String	**Mandatory**	Identifier of the team	GUID
	Language	String	**Mandatory**	Desired language in the format en-US	`^[a-z]{2}-[A-Z]{2}$`

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	

		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.30 SetTeamEndpointMembers

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointMembers

This method sets the memberlist of a team.

UpdateTeamEndpointResponseDto SetTEamEndpointMembersRequestDto(SetTeamEndpointMembersRequestDto)

Parameter	***SetTeamEndpointMembersRequestDto***				
	Id	String	**Mandatory**	Identifier of the team	GUID
	List<SidDto>	String	**Mandatory**	List of members dtos	

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.31 SetTeamEndpointVoicePolicy

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointVoicePolicy

This methods sets the voice policy of a team.

UpdateTeamEndpointResponseDto SetTeamEndpointVoicePolicy(SetTeamEndpointVoicePolicyRequestDto)

Parameter	***SetTeamEndpointVoicePolicyRequestDto***				
	Id	string	**Mandatory**	Identifier of the team	GUID
	VoicePolicyId	string	**optional**	Identifier of the voice policy	GUID

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.32 SetTeamEndpointWorkflow

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointWorkflow

This method sets the workflow for a specific geam

UpdateTeamEndpointResponseDto SetTeamEndpointWorkflow(SetTeamEndpointWorkflowRequestDto)

Parameter	***SetTeamEndpointWorkflowRequestDto***				
	Id	String	**Mandatory**	Identifier of the team	GUID
	WorkflowId	string	**Mandatory**	Identifier of the workflow	GUID

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.33 SetTeamEndpointName

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointName

This method sets the name of a team

UpdateTeamEndpointResponseDto SetTeamEndpointName(SetTeamEndpointNameRequestDto)

Parameter	***SetTeamEndpointNameRequestDto***				
	Id	string	**Mandatory**	Identifier of the team	GUID
	Name	string	**Mandatory**	Name of the team	Nicht Leer

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200

2.34 SetTeamEndpointPhoneNumber

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointPhoneNumber

This method updates the phone number of a team, if its not already used.

UpdateTeamEndpointResponseDto SetTeamEndpointPhoneNumber(SetTeamEndpointPhoneNumberRequestDto)

Parameter	***SetTeamEndpointPhoneNumberRequestDto***				
	Id	string	**Mandatory**	Identifier of the team	GUID
	PhoneNumber	string	Mandatory	PhoneNumber	Empty oder `^\+\d+([;].*)?$`
	PhoneUri	String	*Optional*	PhoneUri in the format sip:<nummer>@<domain>.	Empty oder `^[sS][iI][pP]:.+@.+$`

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.35 SetTeamEndpointVoicemailBox

Methode	POST
Request Format	XML
Response Format	XML

UriTemplate	/SetTeamEndpointVoicemailBox

This method updates the voicemail box of a team

UpdateTeamEndpointResponseDto SetTeamEndpointVoicemailBox(SetTeamEndpointVoicemailBoxRequestDto)

Parameter	***SetTeamEndpointVoicemailBoxRequestDto***				
	Id	string	**Mandatory**	Identifier of the team	GUID
	VoicemailBoxId	string	**optional**	Identifier of the voicemail box	GUID

Return	**UpdateTeamEndpointResponseDto**				
	CwsOperationResult	CwsOperationResult	Operation Result		
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound	
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200	
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200		

2.36 SetTeamEndpointOpeningHourBox

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointOpeningHourBox

This method sets the opening hours box id of a team

UpdateTeamEndpointResponseDto SetTeamEndpointOpeningHourBox(SetTeamEndpointOpeningHourBoxRequestDto)

Parameter	***SetTeamEndpointOpeningHourBoxRequestDto***				
	Id	string	**Mandatory**	Identifier of the team	GUID
	OpeningHourBoxId	string	**optional**	Identifier of the opening hours box	GUID

Return	**UpdateTeamEndpointResponseDto**

	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.37 SetTeamEndpointAdministrator

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointAdministrator

This method un- / sets a user (identified by users id, sid or sip address) as team administrator for a defined team (identified by id)

UpdateTeamEndpointAdministratorResponseDto SetTeamEndpointAdministrator (SetTeamEndpointAdministratorRequestDto)

Parameter	***SetTeamEndpointAdministratorRequestDto***				
	Id	string	**Mandatory**	Team identifier	GUID
	UserId*	String	**Optional**	User identifier	GUID
	UserSid*	string	**Optional**	Users SID	`^S-\d-\d+-(\d+-){1,14}\d+$`
	UserSipAddress*	String	**Optional**	Users SipAddress	`^((sip:|SIP:)[0-9a-zA-Z\._%+-]+@([a-zA-Z0-9-]+\.)+[a-zA-Z]+)$`
	IsUserTeamAdministrator	bool	**Optional**	Flag if user is set as administrator or not	
	* At least one of the marked parameters should be presented in request				

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound

		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

2.38 SetTeamEndpointVoicemailRecipientsRequestDto

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/SetTeamEndpointVoicemailRecipientsRequestDto

This method set to and cc (carbon copy) email addresses for voice mails.

UpdateTeamEndpointResponseDto
SetTeamEndpointVoicemailRecipients(SetTeamEndpointVoicemailRecipientsRequestDto requestDto)

Parameter	***SetTeamEndpointVoicemailRecipientsRequestDto***				
	Id	string	**Mandatory**	Team identifier	GUID
	VoicemailToAddress	String	**Optional**	To recipients (multiple values can be delimited by ;)	
	VoicemailCcAddress	string	**Optional**	From recipients ((multiple values can be delimited by ;)	
	***** At least one of the marked parameters should be presented in request				

Return	**UpdateTeamEndpointResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	TeamEndpointDto	TeamEndpointDto	Contains the updated team endpoint if the operation result returns 200	

3 IcwsRestService – Common Methods

3.1 GetLanguages

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetLanguages

This methods returns the available languages back

List<LanguageDto> GetLanguages()

Parameter	-

Return	**List<LanguageDto>**	List<LanguageDto>	List with the available languages

3.2 GetWorkflows

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetWorkflows

This method returns the available workflows back.

List<WorkflowDto> GetWorkflows()

Parameter	-

Return	**List<WorkflowDto>**	List<WorkflowDto>	List oft he available workflows

3.3 GetVoicePolicies

Methode	GET
Request Format	-
Response Format	XML

UriTemplate	/GetVoicePolicies

Diese Methode returns the available voice policies back.

List<VoicePolicyDto> GetVoicePolicies()

Parameter	-

Return	**List<VoicePolicyDto>**	List<VoicePolicyDto>	List of the available voice policies

3.4 GetExternalAccessPolicies

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetExternalAccessPolicies

Diese Methode returns the available external access policies back.

List<ExternalAccessPolicyDto> GetExternalAccessPolicies()

Parameter	-

Return	**List<ExternalAccessPolicyDto>**	List<ExternalAccessPolicyDto>	List of the available external access policies

3.5 GetVoicemailBoxes

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetVoicemailBoxes

This method returns the available voice mail boxes back.

List<VoicemailBoxDto> GetVoicemailBoxes()

Parameter	-

Return	List<VoicemailBoxDto>	List<VoicemailBoxDto>	List of the availble voice mail boxes

3.6 GetOpeningHourBoxes

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetOpeningHourBoxes

This method returns the available opening hours boxes back.

List<OpeningHourBoxDto> GetOpeningHourBoxes()

Parameter	-

Return	List<OpeningHourBoxDto>	List<OpeningHourBoxDto>	List of the available opening hours boxes.

3.7 GetTrustedApplications

Methode	GET
Request Format	-
Response Format	XML
UriTemplate	/GetTrustedApplications

This method returns all available trusted applications.

List<TrustedApplicationDto> GetTrustedApplications()

Parameter	-

Return	**List<TrustedApplicationDto>**	List<OpeningHourBoxDto>	List of the available trusted applications.

3.8 PlaceHolders related methods

3.9 GetPlaceholdersForAdTeamDefinition

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/GetPlaceholdersForAdTeamDefinition

This method returns the used placeholders values for choosen active directory team back.

List<PlaceholderDto> GetPlaceholdersForAdTeamDefinition ()

Parameter	**ActiveDirectoryTeamDefinitionId**	**string**	Mandatory	**Team identifier**	**GUID**

Return	**List<PlaceholderDto>**	List<PlaceholderDto>	List of the used placeholders values for choosen active directory team

3.10 CreateOrUpdatePlaceholderValue

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/CreateOrUpdatePlaceholderValue

This method returns the operation result and updated placeholder value dto back.

CreateOrUpdatePlaceholderValueResponseDto CreateOrUpdatePlaceholderValue ()

Parameter	***CreateOrUpdatePlaceholderValueRequestDto***				
	Name	string	**Mandatory**	Placeholder name	
	ActiveDirectoryTeamDefinitionId*	string	**Mandatory**	Team identifier	GUID
	DefaultWfResourceId *	string	**Optional**		GUID
	DefaultNumber *	string	**Optional**		Numeric value

	DefaultTime *	string	**Optional**		Time in format “hh:mm:ss”
	DefaultFreeText *	string	**Optional**		Text
	DefaultContactObjectId *	string	**Optional**		GUID
	***** At least one of the marked parameters should be presented in request				

Return	**CreateOrUpdatePlaceholderValueResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound
		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200
	PlaceholderDto	PlaceholderDto	Contains the used Placeholder Values for updated object	

3.11 RemovePlaceholderValue

Methode	POST
Request Format	XML
Response Format	XML
UriTemplate	/RemovePlaceholderValue

This method returns the operation result back.

CwsOperationResult RemovePlaceholderValue ()

Parameter	***DeletePlaceholderValueDto***				
	Name	string	**Mandatory**	Placeholder name	
	ActiveDirectoryTeamDefinitionId*	string	**Mandatory**	Team identifier	GUID

Return	**CreateOrUpdatePlaceholderValueResponseDto**			
	CwsOperationResult	CwsOperationResult	Operation Result	
		OperationResult	OperationResult	200 OK, 500 Internal Server Error, 400 Bad Request, 404 NotFound

		ErrorMessage	string	More information about the error can be found in this property if the OperationResult is not 200

4 Administration over TM PowerShell module

4.1 Introduction

The TeamManager has the ability to run read-only commands against TeamManager. Which such commands, it is possible to view configured Teams and Team-Members in TeamManager.

4.2 Prerequisites for TM PowerShell modules

In order to run, respectively connect to the TeamManager PowerShell module interface, the windows service “Luware-TM-CWS” must be installed und running on the TeamManager server. The Port to connect at CWS interface is always TCP 9030, no matter which Port is used at TeamManager instance.

4.3 Connect from the machine where CWS is installed

With successful installation of the “Luware-CWS-Setup” the perquisites are already installed for this machine.

4.4 Connect from another machine

If TM-Powershell commands should be run from another machine, the following prerequisites must be configured at the machine:

1. “Code Sign Certificate” from Luware
2. Access to the “TeamManager” Server(s) with TCP Port 9030
3. Powershell Modules at machine

Import-Module “C:\Modules\LUCS.CWS.Client.PowerShell.psm1”

4.5 Load TM Powershell modules and connect to CWS interface

To use the TeamManager Powershell Modules, these must be loaded and connected to CWS interface.

Step 1: Connect to TM-CWS service

1. Open Powershell
2. Type the following*: Set-CWSServer -URI http://172.16.11.141:9030/CWS*

5 PowerShell commands

5.1 Set-CWSServer

Stores CWS Server location in global variable so it can be used by all other TM functions. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Set-CWSServer [[-URI] <String>] [<CommonParameters>]
```

5.1.1 Example

In the presented example, the cmdlet connects to CWS that installed on a specified machine.

```
Set-CWSServer -URI http://172.16.10.60:9030/CWS
```

5.2 Get- TmOrganizationUnits

Returns all Organization Units, which are configured in Team Manager. Output contains contains groupsid, id, name and parentid of available units. This cmdlet was introduced in Team Manager 2.8.

Get-TmOrganizationUnits [[-CWSServer] <Object>] [<CommonParameters>]

5.2.1 Examples

In the presented example, the **Get- TmOrganizationUnits** cmdlet is called in order to return all available languages. There are no parameters required.

```
Get- TmOrganizationUnits
```

```
PS C:\Users\administrator.DEV> Get-TmOrganizationUnits
VERBOSE: GET http://172.16.253.139:9030/CWS/GetOrganizationUnits with 0-byte payload
VERBOSE: received 1263-byte response of content type application/xml; charset=utf-8

groupSid                id                                   name                    parentId
--------                --                                   ----                    --------
Canadian Global Bank    63e78650-8617-455a-a3c3-5ce8ab65f46a Canadian Global Bank    880d7bc0-4bdd-4642-acb1-29314...
Teammanager             880d7bc0-4bdd-4642-acb1-293149a06236 Teammanager             parentId
Service Powershell Group 958635c0-789e-4a04-a6b8-d6f01908345d Service Powershell Group 880d7bc0-4bdd-4642-acb1-29314...
German Global Bank      eab76fa8-28b9-4635-bef7-968ac852828d German Global Bank      880d7bc0-4bdd-4642-acb1-29314...
Team 01                 37f20568-e7e0-4e4c-832d-b1a1ce0e2221 Team 01                 880d7bc0-4bdd-4642-acb1-29314...
```

5.3 Get-TmLanguages

Returns all supported languages in TeamManager. Output contains name and code of available languages. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmLanguages [[-URI] <String>] [<CommonParameters>]
```

5.3.1 Examples

In the presented example, the **Get-TmLanguage** cmdlet is called in order to return all available languages. There are no parameters required.

```
Get-TmLanguages
```

```
PS C:\Users\administrator> get-tmlanguages
VERBOSE: GET http://172.16.10.60:9030/CWS/GetLanguages with 0-byte payload
VERBOSE: received 2007-byte response of content type application/xml; charset=utf-8

code                                                    name
----                                                    ----
de-DE                                                   German
fr-FR                                                   French
it-IT                                                   Italian
en-US                                                   English
es-ES                                                   Spanish
hr-HR                                                   Croatien
ca-ES                                                   Catalan
da-DK                                                   DanishDenmark
en-AU                                                   EnglishAustralia
en-CA                                                   EnglishCanada
en-GB                                                   EnglishUk
en-IN                                                   EnglishIndia
es-MX                                                   SpanishMexico
fi-FI                                                   FinnishFinland
fr-CA                                                   FrenchCanada
ja-JP                                                   Japanese
ko-KR                                                   Korean
nb-NO                                                   Norwegian
nl-NL                                                   Dutch
pl-PL                                                   Polish
pt-BR                                                   PortugueseBrazil
pt-PT                                                   PortuguesePortugal
ru-RU                                                   Russian
sv-SE                                                   Swedish
zh-CN                                                   ChineseChina
zh-HK                                                   ChineseHongKong
zh-TW                                                   ChineseTaiwan
```

5.4 **Get-TmWorkflows**

Returns all Workflows Instances in TeamManager. Output contains both id and name of available Workflow Instances. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmWorkflows [[-CWSServer] <Object>] [<CommonParameters>]
```

5.4.1 **Examples**

In the presented example, the **Get-TmWorkflows** cmdlet is called in order to return all available Workflow Instances. There are no parameters required.

```
Get-TmWorkflows
```

```
PS C:\Users\administrator> get-tmworkflows
VERBOSE: GET http://172.16.10.60:9030/CWS/GetWorkflows with 0-byte payload
VERBOSE: received 3149-byte response of content type application/xml; charset=utf-8

id                                                      name
--                                                      ----
a11aee22-3352-4b5f-aa00-0c013d18f794                    TM Welcome Structure
b0b5b83b-ea63-4b8a-bfa1-23b745782297                    TM_WI_CollectCustomerInfo
9a073d2b-5ccf-4e5e-ad0a-a7c5f0568638                    TM_WI_CollectParameter_Match
e740ec3a-79c3-4cc5-acc9-a351edb716eb                    TM_WI_PrefferedAgentRouting
a65aa8db-1ccb-44c1-92c9-a65abf2d13f0                    TM_WI_CollectInfo_PrefferedAgentRouting
061177c0-635b-4552-96c8-65a8edfaf3c7                    TM_WI_DBRouting
3380c023-9349-4328-bd26-b54d7f754d91                    TM_WI_DBLookup
7c5efb26-7003-4787-b097-33af8604fe29                    WI_TransferrerPrefAgent
fe2093bc-acd5-46f5-855c-d1a5681297eb                    TM_WI_Welcome
fdd9f063-5cb8-466b-94bc-225bf62515f8                    TM_SpecialTransferScenario
e4144632-5061-47a6-acba-7c069bfebc11                    TM_Recording
5fed3e95-14d8-4bae-a373-332c2a2336e7                    TM_WI_BlindTransfer
```

5.5 Get-TmVoicePolicies

Returns all VoicePolicies (on UserLevel) which have been configured in Lync/Skype for Business and synchronized into TeamManager. Output contains description, id and name of available voice policices. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmVoicePolicies [[-CWSServer] <Object>] [<CommonParameters>]
```

5.5.1 Examples

In the presented example, the **Get-TmVoicePolicies** cmdlet is called in order to return all available polices. There are no parameters required.

```
Get-TmVoicePolicies
```

```
PS C:\Users\administrator> get-tmvoicepolicies
VERBOSE: GET http://172.16.10.60:9030/CWS/GetVoicePolicies with 0-byte payload
VERBOSE: received 816-byte response of content type application/xml; charset=utf-8

description                          id                                   name
-----------                          --                                   ----
                                     e4d8de27-d58e-43af-bd2f-e515bb7c5fe8 PA Test
VoicePolicyWithLongNameMustBeCut     35a3c387-a449-46fd-9d15-943d9dec27e7 VoicePolicyWithLongNameMustBeCut
```

5.6 Get-TmExternalAccessPolicies

Returns all ExternalAccessPolicies (on UserLevel) which have been configured in Lync/Skype for Business and

synchronized into TeamManager. ExternalAccessPolicies can be configured on TeamServices.Output contains description, id and name of available voice policices.

```
Get-TmExternalAccessPolicies [[-CWSServer] <Object>] [<CommonParameters>]
```

5.6.1 Examples

In the presented example, the **Get-TmExternalAccessPolicies** cmdlet is called in order to return all available polices. There are no parameters required.

```
Get-TmExternalAccessPolicies
```

```
PS C:\Users\administrator.DEV> Get-TmExternalAccessPolicies
VERBOSE: GET http://172.16.10.62:9030/CWS/GetExternalAccessPolicies with 0-byte payload
VERBOSE: received 1285-byte response of content type application/xml; charset=utf-8

description                          id                                   name
-----------                          --                                   ----
                                     6d9e5fed-e57b-4c52-a38e-96d92d1369db FederatedLyncAccess
Enables all features                 eede4288-c9b2-484f-a320-48c2d68df691 AllowAll
                                     7f0cf4bb-3e58-4e89-8e62-99c71177434a TMExternalUserPolicy
                                     e310549f-af16-477d-90b1-96421e910037 External_Policy
test policy                          72fe5854-2d58-44bc-a49d-14b1b0fc2de3 TMExtAccessPolicy1
test policy                          43436c1a-cd87-4a68-80d6-a12618472e65 TMExtAccessPolicy3
                                     f23ef4ab-2955-45d7-bcdb-f92e9fb179c3 LucsExternalAccessPolicy
```

5.7 Get-TmOpeningHoursBoxes

Returns all OpeningHours-Boxes which are configured in TeamManager. Output contains both addresses and id of available boxes. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmOpeningHoursBoxes [[-CWSServer] <Object>] [<CommonParameters>]
```

5.7.1 **Examples**

In the presented example, the **Get-TmOpeningHoursBoxes** cmdlet is called in order to return all opening hours boxes available in TeamManager. There are no parameters required.

```
Get-TmOpeningHoursBoxes
```

```
PS C:\Users\administrator> Get-TmOpeningHoursBoxes
VERBOSE: GET http://172.16.10.60:9030/CWS/GetOpeningHourBoxes with 0-byte payload
VERBOSE: received 1441-byte response of content type application/xml; charset=utf-8

address                                                  id
-------                                                  --
mm.info@dev.local                                        9e2efe3a-be83-4e4a-973d-a11c6d7799e5
austria.baden.mail1@dev.local                            84e9e1f1-ab30-4688-b1cd-c99ce535ad05
```

5.8 **Get-TmVoicemailBoxes**

Returns all Voicemail-Boxes which are configured in TeamManager. Output contains addresses, id and name of available voicemail boxes. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmVoicemailBoxes [[-CWSServer] <Object>] [<CommonParameters>]
```

5.8.1 **Examples**

In the presented example, the **Get- TMVoicemailBoxes** cmdlet is called in order to return all opening hours boxes available in TeamManager. There are no parameters required.

```
Get-TmVoicemailBoxes
```

```
PS C:\Users\administrator> Get-TmVoicemailBoxes
VERBOSE: GET http://172.16.10.60:9030/CWS/GetVoicemailBoxes with 0-byte payload
VERBOSE: received 544-byte response of content type application/xml; charset=utf-8

address                                  id                                   name
-------                                  --                                   ----
                                         033ae873-3696-4981-9e9c-4af9b825df8e TestVoiceMail
                                         4f1a9c05-e7cf-466e-8bf1-b8ee5c025891 ServiceVoicemail
                                         36b61a83-065b-4c3a-8f23-35348023ec7a BadenServiceVoice
```

5.9 **New-TmTeam**

Allows to create new team with one of the following type: TeamCallGroupOnly, TeamServiceOnly and TeamServiceAndTeamCallGroup. This cmdlet was introduced in Team Manager 2.7.8.0001.

```
New-TmTeam [-SID] <Object> [-SamAccountName] <Object> [-Name] <String> [-TeamType]
<String> [-Language] <String> [[-SipAddress] <String>] [[-WorkflowInstanceId]
<Object>] [[-TenantId] <Object>] [[-PhoneUri] <String>] [[-PhoneNumber] <String>]
[[-VoicemailBoxId] <String>] [[-OpeningHoursBoxId] <String>] [[-VoicePolicyId]
<String>] [[-ExternalAccessPolicyId] <String>] [[-MemberSids] <String[]>] [[-
TeamMemberCallGroupDefaultRingingDelayTimeInSec] <Int32>][[-
TeamMemberCallFwdDefaultDelayTimeInSec] <Int32>] [[-TeamMemberCallFwdSipUri]
<String>] [[-TeamMemberBusyOnBusyInACallEnabled] <Boolean>] [[-
TeamMemberIsBusyInAMeetingSelectable] <Boolean>] [[-TeamMemberIsBusySelectable]
<Boolean>] [[-PresenceMappingDirectSelectable] <Int32>] [[-
PresenceMappingInTimeSelectable] <Int32>] [[-PresenceMappingNoOneAvailable]
<Int32>] [[-ServiceFwdSipUri] <String>] [[-ServiceFwdSipUri1] <String>] [[-
ServiceFwdSipUri2] <String>] [[-TeamChoiceEnabled] <Boolean>] [[-
PublishAsAutomaton] <Boolean>] [[-BranchId] <String>] [[-TrustedApplication]
<String>] [[-VoicemailToAddress] <String>] [[-VoicemailCcAddress] <String>] [[-
TeamChoiceDefaultActive] <Boolean>] [[-UseDisplayNameInSubjectForNonPstnCall]
<Boolean>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
Sam	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.
Name	Required	Desired name of the team that allows to identify a team in the system.
Language	Required	Language assigned to a team and used for making announcements.
SipAddress	Required/Optional	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com. Required for Service teams.
Workflow Instance	Required/Optional	Workflow instance which the team will use. Required for Service teams.
PhoneURI	Optional	Phone number assigned to the team. The line Uniform Resource Identifier (URI) must be specified using the E.164 format and use the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
PhoneNumber	Optional	Phone number for the team's private telephone line. The private line value should be specified using the E.164 format, and be prefixed by the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
TenantId	Optional	
VoicemailBoxId	Optional	Already preconfigured recording definition and mailbox which sends recorded messages.
OpeningHoursBoxId	Optional	A mailbox assigned to a team which the calendar events will be used.

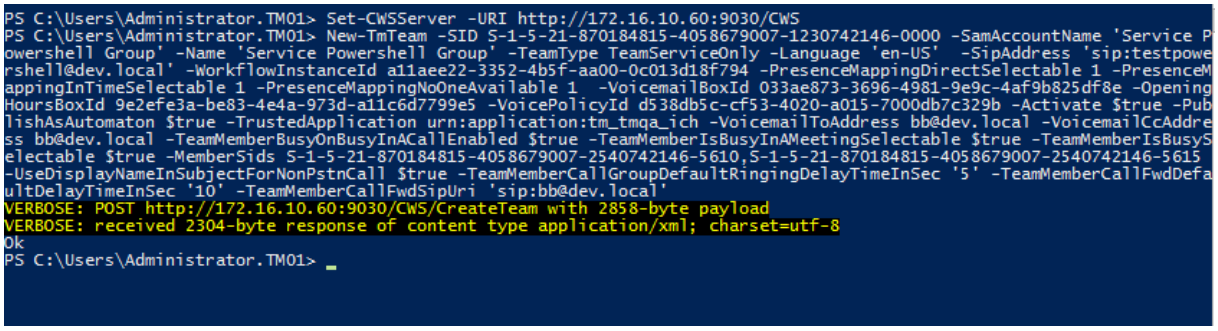
Parameter	Required	Description
VoicePolicyId	Optional	A voice policy assigned to a team of service type.
ExternalAccessPolicyId	Optional	An external access policy (user level) assigned to a team of service type.
MemberSids	Optional	List of team members sids.
TeamMemberCallGroupDefaultRingingDelayTimeInSec	Optional	Set the delay in seconds after which a call starts ringing all other team members
TeamMemberCallFwdDefaultDelayTimeInSec	Optional	Set the delay in seconds after which a call will be forwarder to another number or to another contact.
TeamMemberCallFwdSipUri	Optional	Define a number or a contact to which unanswered call will be forwarded.
TeamMemberBusyOnBusyInACallEnabled	Optional	Set to 'true' to make incoming callers hear a busy signal if team members are already on another call. The phone will not ring on a receiver's end and the receiver will not be alerted. Set to 'false' to let incoming callers reach team members even if they are busy on another call. The phone will ring on the receiver's end and the receiver will be alerted.
TeamMemberIsBusyInAMeetingSelectable	Optional	Set to 'true' to let a team member with 'Busy-In a meeting' Lync state recive calls. Set to 'false' to make a team member with 'Busy-In a meeting' Lync state not available for calls. The flag depends on 'TeamMemberBusyOnBusyInACallEnabled'
TeamMemberIsBusySelectable	Optional	Set to 'true' to let a team member with 'Busy' Lync state recive calls. Set to 'false' to make a team member with 'Busy' Lync state not available for calls.
PresenceMappingDirectSelectable	Required	Lync state the service will have if at least one team member is selectable.

Parameter	Required	Description
PresenceMappingInTimeSelectable	Required	Lync state the service will have if all agents are busy or away.
PresenceMappingNoOneAvailable	Required	Lync state the service will have if all agents are offline.
ServiceFwdSipUri	Optional	Define a forward target that will be used by a service during a workflow instance execution.
ServiceFwdSipUri1	Optional	Define additional forward target that will be used by a service during a workflow instance execution.
ServiceFwdSipUri2	Optional	Define additional forward target that will be used by a service during a workflow instance execution.
TeamChoiceEnabled	Optional	Allows team members to change their responsibility for the team service. By default set to 'False'.
TeamChoiceDefaultActive	Optional	Allows activate or inactivate new team members for a team. The setting depends on 'TeamChoice Enabled' setting. By default set to 'True'.
PublishAsAutomaton	Optional	Set to 'false' to make the service selectable as a Forward target in the Lync client. Set to 'true' to make the service not selectable as a Forward target in the Lync client
BranchId	Optional	Unique identifier to group teams by their affiliation to a branch
TrustedApplication	Optional	
VoicemailToAddress	Optional	Enter the 'To' address for voicemail. The recorded data will be sent to this email account.
VoicemailCcAddress	Optional	Enter the 'Cc' address for voicemail. The recorded data will be sent as carbon copy to this email account.
UseDisplayNameInSubjectForNonPstnCall	Optional	Allows showing a customer's name or sip address to an agent.

5.9.1 **Examples**

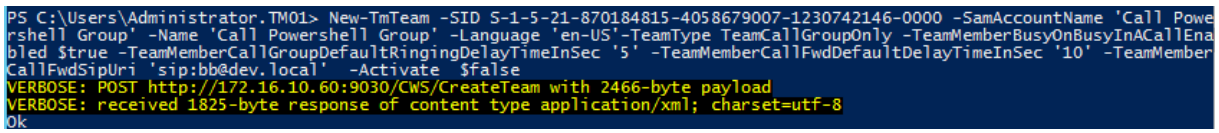
In the presented example, the **New-TmTeam** cmdlet is called with all parameters required for TeamServiceOnly.

```
New-TmTeam -SID S-1-5-21-870184815-4058679007-1230742146-0000 -SamAccountName
'Service Powershell Group' -Name 'Service Powershell Group' -TeamType
TeamServiceOnly -Language 'en-US'  -SipAddress 'sip:testpowershell@dev.local' -
WorkflowInstanceId a11aee22-3352-4b5f-aa00-0c013d18f794 -
PresenceMappingDirectSelectable 1 -PresenceMappingInTimeSelectable 1 -
PresenceMappingNoOneAvailable 1  -VoicemailBoxId 033ae873-3696-4981-9e9c-
4af9b825df8e -OpeningHoursBoxId 9e2efe3a-be83-4e4a-973d-a11c6d7799e5 -
VoicePolicyId d538db5c-cf53-4020-a015-7000db7c329b - ExternalAccessPolicyId
d538db5c-cf53-3420-b015-7000dc7c329b -PublishAsAutomaton $true -TrustedApplication
urn:application:tm_tmqa_ich -VoicemailToAddress bb@dev.local -VoicemailCcAddress
bb@dev.local -TeamMemberBusyOnBusyInACallEnabled $true -
TeamMemberIsBusyInAMeetingSelectable $true -TeamMemberIsBusySelectable $true -
MemberSids S-1-5-21-870184815-4058679007-2540742146-5610,S-1-5-21-870184815-
4058679007-2540742146-5615 -UseDisplayNameInSubjectForNonPstnCall $true -
TeamMemberCallGroupDefaultRingingDelayTimeInSec '5' -
TeamMemberCallFwdDefaultDelayTimeInSec '10' -TeamMemberCallFwdSipUri
'sip:bb@dev.local'
```



In the following example, the **New-TmTeams** cmdlet is called with all parameters required for TeamCallGroupOnly.

```
New-TmTeam -SID S-1-5-21-870184815-4058679007-1230742146-0000 -SamAccountName
'Call Powershell Group' -Name 'Call Powershell Group' -Language 'en-US'-TeamType
TeamCallGroupOnly -TeamMemberBusyOnBusyInACallEnabled $true -
TeamMemberCallGroupDefaultRingingDelayTimeInSec '5' -
TeamMemberCallFwdDefaultDelayTimeInSec '10' -TeamMemberCallFwdSipUri
'sip:bb@dev.local'  -Activate  $false
```



5.10 **Enable-TmTeam**

Allows to activate a team with one of the following type: TeamCallGroupOnly, TeamServiceOnly and TeamServiceAndTeamCallGroup. This cmdlet was introduced in Team Manager 2.8.0.

```
Enable-TmTeam [[-id] <Object>] [[-SID] <Object>] [[-SamAccountName] <String>] [[-
CWSServer] <Object>][<CommonParameters>]
```

Parameter	Required	Description
Identity	Required	Indicates the Identity of the team to be retrieved.

Parameter	Required	Description
SamAccountName	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.

5.10.1 **Examples**

In the presented examples, the **Enable-TmTeam** cmdlet is called with a team's SID.

Enable-TmTeam -SID S-1-5-21-870184815-4058679007-1230742146-0000

```
PS C:\Users\administrator.INT13> Enable-TmTeam -SID S-1-5-21-2307106174-819186819-1827121208-6433
VERBOSE: GET http://172.16.11.141:9030/CWS/GetTeamEndpoints with 0-byte payload
VERBOSE: received 19892-byte response of content type application/xml; charset=utf-8
VERBOSE: POST http://172.16.11.141:9030/CWS/ActivateTeamEndpoint with -1-byte payload
VERBOSE: received 2065-byte response of content type application/xml; charset=utf-8
```

5.11 **Disable-TmTeam**

Allows to deactivate a team with one of the following type: TeamCallGroupOnly, TeamServiceOnly and TeamServiceAndTeamCallGroup. This cmdlet was introduced in Team Manager 2.8.0.

```
Disable-TmTeam [[-id] <Object>] [[-SID] <Object>] [[-SamAccountName] <String>] [[-CWSServer] <Object>][<CommonParameters>]
```

Parameter	Required	Description
Identity	Required	Indicates the Identity of the team to be retrieved.
SamAccountName	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.

5.11.1 **Examples**

In the presented examples, the **Disable-TmTeam** cmdlet is called with a team's Id.

Disable-TmTeam -id bb9bb9e8-da39-4529-bcc1-f3671fc09eb4

```
PS C:\Users\administrator.INT13> Disable-TmTeam -id 942f401c-fa31-498a-9cce-50582b47ce35
VERBOSE: GET http://172.16.11.141:9030/CWS/GetTeamEndpoints with 0-byte payload
VERBOSE: received 19892-byte response of content type application/xml; charset=utf-8
VERBOSE: POST http://172.16.11.141:9030/CWS/DeactivateTeamEndpoint with -1-byte payload
VERBOSE: received 1639-byte response of content type application/xml; charset=utf-8
```

5.12 Set-TmTeam

Allows to change properties of a TM team.

```
Set-TmTeam [-Id] <Object> [-Name] <String> [-Language] <String> [[-
WorkflowInstanceId] <Object>] [[-TenantId] <Object>] [[-PhoneUri] <String>] [[-
PhoneNumber] <String>] [[-VoicemailBoxId] <String>] [[-OpeningHoursBoxId]
<String>] [[-VoicePolicyId] <String>] [[-ExternalAccessPolicyId] <String>] [[-
Activate] <Boolean>] [[-MemberSids] <String[]>] [[-
TeamMemberCallGroupDefaultRingingDelayTimeInSec] <Int32>] [[-
TeamMemberCallFwdDefaultDelayTimeInSec] <Int32>] [[-TeamMemberCallFwdSipUri]
<String>] [[-TeamMemberBusyOnBusyInACallEnabled] <Boolean>] [[-
TeamMemberIsBusyInAMeetingSelectable] <Boolean>] [[-TeamMemberIsBusySelectable]
<Boolean>] [[-PresenceMappingDirectSelectable] <Int32>] [[-
PresenceMappingInTimeSelectable] <Int32>][[-PresenceMappingNoOneAvailable]
<Int32>] [[-ServiceFwdSipUri] <String>] [[-ServiceFwdSipUri1] <String>] [[-
ServiceFwdSipUri2] <String>] [[-TeamChoiceEnabled] <Boolean>] [[-
PublishAsAutomaton] <Boolean>] [[-BranchId] <String>] [[-TrustedApplication]
<String>] [[-VoicemailToAddress] <String>] [[-VoicemailCcAddress] <String>] [[-
TeamChoiceDefaultActive] <Boolean>] [[-UseDisplayNameInSubjectForNonPstnCall]
<Boolean>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
Identity	Required	Indicates the Identity of the team to be retrieved.
Name	Required	Desired name of the team that allows identifying a team in the system.
Language	Required	Language assigned to a team and used for making announcements.
Workflow Instance	Required/Optional	Workflow instance that the team will use. Required for Service teams.
PhoneURI	Optional	Phone number assigned to the team. The line Uniform Resource Identifier (URI) must be specified using the E.164 format and use the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
PhoneNumber	Optional	Phone number for the team's private telephone line. The private line value should be specified using the E.164 format, and be prefixed by the "TEL:" prefix. For example: tel:+41584441010. Any extension number

Parameter	Required	Description
		should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
TenantId	Optional	
VoicemailBoxId	Optional	Already preconfigured recording definition and mailbox that sends recorded messages.
OpeningHoursBoxId	Optional	A mailbox assigned to a team which the calendar events will be used.
VoicePolicyId	Optional	A voice policy assigned to a team of service type.
ExternalAccessPolicyId	Optional	An external access (user level) policy assigned to a team of service type.
Activate	Optional	If set to 'true', the cmdlet enables newly created team.
MemberSids	Optional	List of team members sids.
TeamMemberCallGroupDefaultRingingDelayTimeInSec	Optional	Set the delay in seconds after which a call starts ringing all other team members
TeamMemberCallFwdDefaultDelayTimeInSec	Optional	Set the delay in seconds after which a call will be forwarder to another number or to another contact.
TeamMemberCallFwdSipUri	Optional	Define a number or a contact to which unanswered call will be forwarded.
TeamMemberBusyOnBusyInACallEnabled	Optional	Set to 'true' to make incoming callers hear a busy signal if team members are already on another call. The phone will not ring on a receiver's end and the receiver will not be alerted. Set to 'false' to let incoming callers reach team members even if they are busy on another call. The phone will ring on the receiver's end and the receiver will be alerted.
TeamMemberIsBusyInAMeetingSelectable	Optional	Set to 'true' to let a team member with 'Busy-In a meeting' Lync state recive calls. Set to 'false' to make a team member with 'Busy-In a meeting' Lync state not available for calls.

Parameter	Required	Description
		The flag depends on 'TeamMemberBusyOnBusyInACallEnabled'
TeamMemberIsBusySelectable	Optional	Set to 'true' to let a team member with 'Busy' Lync state recive calls. Set to 'false' to make a team member with 'Busy' Lync state not available for calls.
PresenceMappingDirectSelectable	Required	Lync state the service will have if at least one team member is selectable.
PresenceMappingInTimeSelectable	Required	Lync state the service will have if all agents are busy or away.
PresenceMappingNoOneAvailable	Required	Lync state the service will have if all agents are offline.
ServiceFwdSipUri	Optional	Define a forward target that will be used by a service during a workflow instance execution.
ServiceFwdSipUri1	Optional	Define additional forward target that will be used by a service during a workflow instance execution.
ServiceFwdSipUri2	Optional	Define additional forward target that will be used by a service during a workflow instance execution.
TeamChoiceEnabled	Optional	Allows team members to change their responsibility for the team service. By default set to 'False'.
TeamChoiceDefaultActive	Optional	Allows activate or inactivate new team members for a team. The setting depends on 'TeamChoice Enabled' setting. By default set to 'True'.
PublishAsAutomaton	Optional	Set to 'false' to make the service selectable as a Forward target in the Lync client. Set to 'true' to make the service not selectable as a Forward target in the Lync client
BranchId	Optional	Unique identifier to group teams by their affiliation to a branch
TrustedApplication	Optional	

Parameter	Required	Description
VoicemailToAddress	Optional	Enter the 'To' address for voicemail. The recorded data will be sent to this email account.
VoicemailCcAddress	Optional	Enter the 'Cc' address for voicemail. The recorded data will be sent as carbon copy to this email account.
UseDisplayNameInSubjectForNonPstnCall	Optional	Allows showing a customer's name or sip address to an agent.

5.12.1 **Examples**

In the presented example, the **Set-TmTeam** cmdlet is called with all parameters required for TeamServiceAndTeamCallGroup team.

Set-TmTeam -Id bb9bb9e8-da39-4529-bcc1-f3671fc09eb4 - -Name 'Service Powershell Group' -Language 'de-DE' -WorkflowInstanceId a11aee22-3352-4b5f-aa00-0c013d18f794 -PresenceMappingDirectSelectable 1 -PresenceMappingInTimeSelectable 1 -PresenceMappingNoOneAvailable 1 -VoicemailBoxId 033ae873-3696-4981-9e9c-4af9b825df8e -OpeningHoursBoxId 9e2efe3a-be83-4e4a-973d-a11c6d7799e5 -VoicePolicyId d538db5c-cf53-4020-a015-7000db7c329b a11c6d7799e5 -ExternalAccessPolicyId c545b5c-cf53-4020-a015-7000db7c329b -Activate $true -PublishAsAutomaton $true -TrustedApplication urn:application:tm_tmqa_ich -VoicemailToAddress bb@dev.local -VoicemailCcAddress bb@dev.local -TeamMemberBusyOnBusyInACallEnabled $true -TeamMemberIsBusyInAMeetingSelectable $true -TeamMemberIsBusySelectable $true -UseDisplayNameInSubjectForNonPstnCall $true -TeamMemberCallGroupDefaultRingingDelayTimeInSec '5' -TeamMemberCallFwdDefaultDelayTimeInSec '10' -TeamMemberCallFwdSipUri 'sip:bb@dev.local' -MemberSids S-1-5-21-870184815-4058679007-2540742146-68751

5.13 **Get-TmTeams**

Returns all configured/synchronized teams available in TeamManager. The amount of teams returned by default is set to a maximum of 100 teams. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmTeams [[-ResultSize] <int>] [[-Sam] <string>] [[-Sid] <string>] [-
IsActivated] [<CommonParameters>]
```

Parameter	Required	Description
ResultSize	Optional	Enables you to limit the number of records returned by the cmdlet. For example, to return seven teams (regardless of the number of teams that are in your system) include the ResultSize parameter and set the parameter value to 7. The result size can be set to any whole number between 0 and 2147483647, inclusive. If set to 0 the command will run, but no data will be returned. If you set the ResultSize to 7 but you have only three teams in your system, the command will return those three teams, and then complete without error. If ResultSize is not

Parameter	Required	Description
		set, the command will return first 100 available teams.
Sam	Optional	Security accounts manager (SAM) account name that allows identify an Active Directory team.
Sid	Optional	Security identifier (SID) that allows identify an Active Directory team.
IsActivated	Optional	Returns only activated teams.

5.13.1 **Examples**

In the presented example, the **Get-TmTeams** cmdlet is called without any parameters. First 100 teams will be returned.

```
Get-TmTeams
```

```
PS C:\Users\administrator> Get-TmTeams
VERBOSE: GET http://172.16.10.60:9030/CWS/GetTeamEndpoints with 0-byte payload
VERBOSE: received 21727-byte response of content type application/xml; charset=utf-8


id                                          : bfc42242-de89-4149-8289-38546467a313
sid                                         : S-1-5-21-870184815-4058679007-2540742146-10956
samAccountName                              : Flying Minsk Airlines
name                                        : Flying Minsk Airlines
tenantId                                    :
sipAddress                                  : sipAddress
phoneUri                                    : phoneUri
phoneNumber                                 : phoneNumber
workflowInstanceId                          : a11aee22-3352-4b5f-aa00-0c013d18f794
language                                    : de-DE
voicemailBoxId                              :
openingHourBoxId                            :
voicePolicyId                               :
active                                      : false
activated                                   : false
teamMemberCallGroupDefaultRingingDelayTimeInSec : 0
teamMemberCallFwdDefaultDelayTimeInSec      : 60
teamMemberCallFwdSipUri                     : teamMemberCallFwdSipUri
serviceFwdSipUri                            : serviceFwdSipUri
serviceFwdSipUri1                           : serviceFwdSipUri1
serviceFwdSipUri2                           : serviceFwdSipUri2
memberSids                                  : memberSids
teamMemberBusyOnBusyInACallEnabled          : true
teamMemberIsBusySelectable                  : true
teamMemberIsBusyInAMeetingSelectable        : true
presenceMappingDirectSelectable             : 1
presenceMappingNoOneAvailable               : 7
presenceMappingInTimeSelectable             : 3
teamChoiceEnabled                           : false
publishAsAutomaton                          : false
branchId                                    : branchId
serviceName                                 :
```

In the presented example, the **Get-TmTeams** cmdlet returns only two teams that were already activated.

```
Get-TmTeams -ResultSize 2 -isActivated
```

```
PS C:\Users\administrator> Get-TmTeams -ResultSize 2 -isActivated
VERBOSE: GET http://172.16.10.60:9030/CWS/GetTeamEndpoints with 0-byte payload
VERBOSE: received 21727-byte response of content type application/xml; charset=utf-8


id                                              : a62e63cb-f001-4e9b-8cd1-86e2e7872955
sid                                             : S-1-5-21-870184815-4058679007-2540742146-10955
samAccountName                                  : Flying Belavia Airlines
name                                            : Flying Belavia Airlines
tenantId                                        :
sipAddress                                      : sip:belavia@dev.local
phoneUri                                        : phoneUri
phoneNumber                                     : phoneNumber
workflowInstanceId                              : a11aee22-3352-4b5f-aa00-0c013d18f794
language                                        : de-DE
voicemailBoxId                                  :
openingHourBoxId                                :
voicePolicyId                                   :
active                                          : true
activated                                       : true
teamMemberCallGroupDefaultRingingDelayTimeInSec : 0
teamMemberCallFwdDefaultDelayTimeInSec          : 60
teamMemberCallFwdSipUri                         : teamMemberCallFwdSipUri
serviceFwdSipUri                                :
serviceFwdSipUri1                               :
serviceFwdSipUri2                               :
memberSids                                      : memberSids
teamMemberBusyOnBusyInACallEnabled              : true
teamMemberIsBusySelectable                      : true
teamMemberIsBusyInAMeetingSelectable            : true
presenceMappingDirectSelectable                 : 1
presenceMappingNoOneAvailable                   : 7
presenceMappingInTimeSelectable                 : 3
teamChoiceEnabled                               : false
publishAsAutomaton                              : false
branchId                                        : branchId
serviceName                                     : Flying Belavia Airlines

id                                              : 7c51745d-5fdf-4556-a238-05b0e590790d
sid                                             : S-1-5-21-870184815-4058679007-2540742146-10929
samAccountName                                  : Flying Griffin Airlines
name                                            : Flying Griffin Airlines
tenantId                                        :
sipAddress                                      : sip:Flying@dev.local
phoneUri                                        : phoneUri
phoneNumber                                     : phoneNumber
workflowInstanceId                              : a11aee22-3352-4b5f-aa00-0c013d18f794
language                                        : de-DE
voicemailBoxId                                  :
openingHourBoxId                                :
voicePolicyId                                   :
active                                          : true
activated                                       : true
teamMemberCallGroupDefaultRingingDelayTimeInSec : 0
teamMemberCallFwdDefaultDelayTimeInSec          : 60
teamMemberCallFwdSipUri                         : teamMemberCallFwdSipUri
serviceFwdSipUri                                :
serviceFwdSipUri1                               :
serviceFwdSipUri2                               :
memberSids                                      : memberSids
teamMemberBusyOnBusyInACallEnabled              : true
teamMemberIsBusySelectable                      : true
teamMemberIsBusyInAMeetingSelectable            : true
presenceMappingDirectSelectable                 : 1
presenceMappingNoOneAvailable                   : 7
presenceMappingInTimeSelectable                 : 3
teamChoiceEnabled                               : false
publishAsAutomaton                              : false
branchId                                        : branchId
serviceName                                     : Flying Griffin Airlines


PS C:\Users\administrator> _
```

Using SamAccountName or SID parameter , it's possible to get specific teams.

In the presented example, the **Get-TmTeams** cmdlet returns only team with specified SamAccountName.

```
Get-TmTeams -SamAccountName "Flying Zürich Airlines"
```

```
PS C:\Users\administrator> Get-TmTeams -SamAccountName "Flying Zürich Airlines"
VERBOSE: GET http://172.16.10.60:9030/CWS/GetTeamEndpoints with 0-byte payload
VERBOSE: received 21727-byte response of content type application/xml; charset=utf-8


id                                          : 247db2f7-c12e-4d72-928d-3824db10bb55
sid                                         : S-1-5-21-870184815-4058679007-2540742146-62108
samAccountName                              : Flying Zürich Airlines
name                                        : Flying Zürich Airlines
tenantId                                    :
sipAddress                                  : sip:zurich@dev.local
phoneUri                                    : phoneUri
phoneNumber                                 : phoneNumber
workflowInstanceId                          : a11aee22-3352-4b5f-aa00-0c013d18f794
language                                    : en-US
voicemailBoxId                              :
openingHourBoxId                            :
voicePolicyId                               :
active                                      : false
activated                                   : false
teamMemberCallGroupDefaultRingingDelayTimeInSec : 0
teamMemberCallFwdDefaultDelayTimeInSec      : 60
teamMemberCallFwdSipUri                     : teamMemberCallFwdSipUri
serviceFwdSipUri                            :
serviceFwdSipUri1                           :
serviceFwdSipUri2                           :
memberSids                                  : memberSids
teamMemberBusyOnBusyInACallEnabled          : true
teamMemberIsBusySelectable                  : true
teamMemberIsBusyInAMeetingSelectable        : true
presenceMappingDirectSelectable             : 1
presenceMappingNoOneAvailable               : 7
presenceMappingInTimeSelectable             : 3
teamChoiceEnabled                           : true
publishAsAutomaton                          : false
branchId                                    : branchId
serviceName                                 : Flying Zurich Airlines


PS C:\Users\administrator>
```

5.14 **Remove-TmTeam**

Remove a specific team from TeamManager.

```
Remove-TmTeam [[-SID] <Object>] [[-SamAccountName] <String>] [[-CWSServer]
<Object>] [<CommonParameters>]
```

Parameter	Required	Description
Sam	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.

5.14.1 **Examples**

In the presented example, the **Remove-TmTeam** cmdlet is used with a Sid to delete a specified team.

```
Remove-TmTeam -SID S-1-5-21-870184815-4058679007-1230742146-0000
```

5.15 **Get-TmUser**

Returns all configured/synchronized users available in TeamManager. The amount of users returned by default is set to a maximum of 100 users. This cmdlet was introduced in Team Manager 2.6.8.0001.

Get-TmUser [[-ResultSize] <Int32>] [[-SID] <Object>] [[-SamAccountName] <String>] [[-SipAddress] <String>] [<CommonParameters>]

Parameter	Required	Description
ResultSize	Optional	Enables you to limit the number of records returned by the cmdlet. For example, to return seven users (regardless of the number of teams that are in your system) include the ResultSize parameter and set the parameter value to 7. The result size can be set to any whole number between 0 and 2147483647, inclusive. If set to 0 the command will run, but no data will be returned. If you set the ResultSize to 7 but you have only three users in your system, the command will return those three users, and then complete without error. If ResultSize is not set, the command will return first 100 available users.
Sam	Optional	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Optional	Security identifier (SID) that allows identify an Active Directory user.
SipAddress	Optional	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com.

5.15.1 **Examples**

In the presented example, the **Get-TmUser** cmdlet is called without any parameters. First 100 users will be returned.

```
Get-TmUser
```

```
PS C:\Users\administrator> get-tmuser
VERBOSE: GET http://172.16.10.60:9030/CWS/GetUsers with 0-byte payload
VERBOSE: received 1453-byte response of content type application/xml; charset=utf-8


firstName      : TM Hansruedi
id             : b24bf234-8137-41c6-a19b-78ff60b6dc3b
lastName       : Hänni
samAccountName : tm.hh
sid            : S-1-5-21-870184815-4058679007-2540742146-5616
sipAddress     : sip:tm.hh@dev.local

firstName      : TM Julia
id             : 0a6680fb-a496-4452-a405-a256c319df0f
lastName       : Jackson
samAccountName : tm.jj
sid            : S-1-5-21-870184815-4058679007-2540742146-5619
sipAddress     : sip:tm.jj@dev.local

firstName      : TM Ivan
id             : 171fd000-999f-4ac6-9079-b179e7307c54
lastName       : Ignore
samAccountName : tm.ii
sid            : S-1-5-21-870184815-4058679007-2540742146-5648
sipAddress     : sip:tm.ii@dev.local

firstName      : TM Doris
id             : 5ebf1a4e-b0c6-4994-9c40-aaf22fe19e08
lastName       : Day
samAccountName : tm.dd
sid            : S-1-5-21-870184815-4058679007-2540742146-5613
sipAddress     : sip:tm.dd@dev.local

firstName      : TM Gustav
id             : d431ef78-632d-4800-a619-3aa5918d79f8
lastName       : Gans
samAccountName : tm.gg
sid            : S-1-5-21-870184815-4058679007-2540742146-5615
sipAddress     : sip:tm.gg@dev.local
```

In the presented example, the **Get-TmUsers** cmdlet returns only two available users.

```
Get-TmUser -ResultSize 2
```

```
PS C:\Users\administrator> Get-TMuser -ResultSize 2
VERBOSE: GET http://172.16.10.60:9030/CWS/GetUsers with 0-byte payload
VERBOSE: received 1453-byte response of content type application/xml; charset=utf-8


firstName      : TM Hansruedi
id             : b24bf234-8137-41c6-a19b-78ff60b6dc3b
lastName       : Hänni
samAccountName : tm.hh
sid            : S-1-5-21-870184815-4058679007-2540742146-5616
sipAddress     : sip:tm.hh@dev.local

firstName      : TM Julia
id             : 0a6680fb-a496-4452-a405-a256c319df0f
lastName       : Jackson
samAccountName : tm.jj
sid            : S-1-5-21-870184815-4058679007-2540742146-5619
sipAddress     : sip:tm.jj@dev.local


PS C:\Users\administrator>
```

Using SamAccountName, SIP or SID parameter , it's possible to get specific users.

In the presented example, the **Get-TmTeams** cmdlet returns only a user with specified SIP.

```
Get-TMUser -Sip "sip:tm.gg@dev.local"
```

```
PS C:\Users\administrator> Get-TMuser -Sip "sip:tm.gg@dev.local"
VERBOSE: GET http://172.16.10.60:9030/CWS/GetUsers with 0-byte payload
VERBOSE: received 1453-byte response of content type application/xml; charset=utf-8


firstName      : TM Gustav
id             : d431ef78-632d-4800-a619-3aa5918d79f8
lastName       : Gans
samAccountName : tm.gg
sid            : S-1-5-21-870184815-4058679007-2540742146-5615
sipAddress     : sip:tm.gg@dev.local


PS C:\Users\administrator>
```

5.16 **Remove-TmUser**

Remove a specific user from TeamManager. If the user was member of a team, he will be removed from all this teams . At least one identifier has to be specified. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Remove-TmUser [[-SID] <Object>] [[-SamAccountName] <String>] [[-SipAddress]
<String>] [[-CWSServer] <Object>]   [<CommonParameters>]
```

Parameter	Required	Description
Sam	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.
SipAddress	Required	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com.

5.16.1 **Examples**

In the presented example, the **Remove-TmUser** cmdlet is used with a user's sip to delete a specified user.

```
Remove-TmUser -SIP "sip:tm.aa@dev.local"
```

5.17 **Enable-TmTeamUser**

Activates a specific user for a specific team in TeamManager. Enabling and disabling of team users is possible with next conditions:

- Team Choice is enabled for the team
- Team has type TeamServiceOnly or TeamServiceAndTeamCallGroup

This cmdlet was introduced in Team Manager 2.9.0.

```
Enable-TmTeamUser [[-TeamId] <Object>] [[-TeamSID] <Object>] [[-UserId] <Object>]
[[-UserSID] <Object>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
TeamId	Required	Unique identifier for a selected team.
UserId	Required	Unique identifier for a selected user.

5.17.1 Examples

In the presented example, the **Enable-TmTeamUser** cmdlet is used with a user's and team's id to activate a specified user.

```
Enable-TmTeamUser –TeamId 6cb9ea19-c863-4ef5-b91e-7a47e8244315 –UserId
ef85b9f1-bd1b-4f58-a86b-9a8ea30e18e0
```

5.18 Disable-TmTeamUser

Deactivate a specific user for a specific team in TeamManager. Enabling and disabling of team users is possible with next conditions:

- Team Choice is enabled for the team
- Team has type TeamServiceOnly or TeamServiceAndTeamCallGroup

This cmdlet was introduced in Team Manager 2.9.0.

```
Disable-TmTeamUser [[-TeamId] <Object>] [[-TeamSID] <Object>] [[-UserId] <Object>]
[[-UserSID] <Object>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
TeamId	Required	Unique identifier for a selected team.
UserId	Required	Unique identifier for a selected user.

5.18.1 Examples

In the presented example, the **Disable-TmTeamUser** cmdlet is used with a user's and team's id to deactivate a specified user.

```
Disable-TmTeamUser –TeamId 6cb9ea19-c863-4ef5-b91e-7a47e8244315 –UserId
ef85b9f1-bd1b-4f58-a86b-9a8ea30e18e0
```

5.19 Get-TmTeamMemberActive

Returns a flag that indicates whether a person's teamchoice for a certain team is set to active or not.

This cmdlet was introduced in Team Manager 2.9.0.

```
Get-TmTeamMemberActive [[-TeamId] <Object>] [[-UserId] <Object>] [[-CWSServer]
<Object>] [<CommonParameters>]
```

Parameter	Required	Description
TeamId	Required	Unique identifier for a selected team.
UserId	Required	Unique identifier for a selected user.

5.19.1 **Examples**

In the presented example, the **Get-TmTeamMemberActive** cmdlet is used with a user's and team's id to deactivate a specified user.

```
Get-TmTeamMemberActive –TeamId 6cb9ea19-c863-4ef5-b91e-7a47e8244315 –UserId
ef85b9f1-bd1b-4f58-a86b-9a8ea30e18e0
```

5.20 **Get-TmTeamMembership**

Returns users membership for a specific team, which matches a provided parameter. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmTeamMembership [[-id] <Object>][[-SID] <Object>][[-SamAccountName] <Object>]
[<CommonParameters>]
```

Parameter	Required	Description
id	Required	Indicates the Identity of the team for which members to be retrieved.
SamAccountName	Required	Security accounts manager (SAM) account name that allows identify an Active Directory team.
Sid	Required	Security identifier (SID) that allows identify an Active Directory team.

5.20.1 **Examples**

In the presented example, the **Get-TmTeamMembership** cmdlet is running with a team's Sam account.

```
Get-TmTeamMembership -SamAccountName "Flying Belavia Airlines"
```

```
PS C:\Users\administrator> Get-TmTeamMembership -SamAccountName "Flying Belavia Airlines"
firstName      : TM Hansruedi
id             : b24bf234-8137-41c6-a19b-78ff60b6dc3b
lastName       : Hänni
samAccountName : tm.hh
sid            : S-1-5-21-870184815-4058679007-2540742146-5616
sipAddress     : sip:tm.hh@dev.local

firstName      : TM Julia
id             : 0a6680fb-a496-4452-a405-a256c319df0f
lastName       : Jackson
samAccountName : tm.jj
sid            : S-1-5-21-870184815-4058679007-2540742146-5619
sipAddress     : sip:tm.jj@dev.local

firstName      : TM Ivan
id             : 171fd000-999f-4ac6-9079-b179e7307c54
lastName       : Ignore
samAccountName : tm.ii
sid            : S-1-5-21-870184815-4058679007-2540742146-5648
sipAddress     : sip:tm.ii@dev.local
```

5.21 Get-TmUserMembership

Returns all teams for a specific user, which matches a provided parameter. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
Get-TmTeamMembership [[-id] <Object>][[-SID] <Object>][[-SamAccountName] <Object>]
[<CommonParameters>]
```

Parameter	Required	Description
id	Required	Indicates the Identity of the user for whom teams to be retrieved.
SamAccountName	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.

5.21.1 Examples

In the presented example, the **Get-TmUserMembership** cmdlet is used with a user's Sam account in order to specify a user.

```
Get-TmUserMembership -SamAccountName "tm.gg"
```

```
Get-TmUserMembership -Sam "tm.gg"
```

```
PS C:\Users\administrator> Get-TmUserMembership -SamAccountName  "tm.gg"
id                                   sid                                  samAccountName
--                                   ---                                  --------------
b80db6c8-8e5a-4b56-8c81-37d4975ca313 S-1-5-21-870184815-4058679007-254074... Flying Manticore Airlines
6d394cfa-712a-4fc3-901b-713f0e4ac67d S-1-5-21-870184815-4058679007-254074... Flying Bugs Airline
7c51745d-5fdf-4556-a238-05b0e590790d S-1-5-21-870184815-4058679007-254074... Flying Griffin Airlines
```

In the presented example, the **Get-TmUserMembership** cmdlet is used with a user's id.

```
Get-TmUserMembership -Id b24bf234-8137-41c6-a19b-78ff60b6dc3b
```

```
PS C:\Users\administrator> Get-TmUserMembership -Id b24bf234-8137-41c6-a19b-78ff60b6dc3b
id                                   sid                                  samAccountName
--                                   ---                                  --------------
a62e63cb-f001-4e9b-8cd1-86e2e7872955 S-1-5-21-870184815-4058679007-254074... Flying Belavia Airlines
```

5.22 **Set-TmUser**

Allows to change the properties of a user in TeamManager.

A valid identifier (ID, SID, SamAccountName or SipAddress) has to be provided. This cmdlet was introduced in Team Manager 2.6.8.0001.

Set-TmUser [[-id] <Object>] [[-SID] <Object>] [[-SamAccountName] <Object>] [[-SipAddress] <Object>] [[-Firstname] <String>] [[-Lastname] <String>] [[-LineUri] <String>] [[-PrivateLineUri] <String>] [[-OrganizationUnitId] <Object>] [[-CWSServer] <Object>] [<CommonParameters>]

Parameter	Required	Description
Identity	Required	Indicates the Identity of the user account to be retrieved.
FirstName	Optional	User's first name used in TM system.
LastName	Optional	User's last name used in TM system.
SamAccountName	Optional	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Optional	Security identifier (SID) that allows identify an Active Directory user.
SipAddress	Optional	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com.
LineUri	Optional	Phone number assigned to the user. The line Uniform Resource Identifier (URI) must be specified using the E.164 format and use the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
PrivateLineUri	Optional	Phone number for the user's private telephone line. The private line value should be specified using the E.164 format, and be prefixed by the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
OrganizationUnitId	Optional	Organization Unit that will be assigned to the user.

Parameter	Required	Description
		If nothing defined, root OrganizationUnitId is selected

5.22.1 Examples

In this example, FirstName and LastName data will be changed for a user. SamAccountName is used to specify the user account that will be changed.

```
Set-TmUser –SamAccountName “tm.jj” -Firstname Harry –Lastname Prestov
```

```
PS C:\Users\administrator.DEV> Set-TmUser -SamAccountName “tm.jj” -Firstname Harry -Lastname Prestov
firstName      : Harry
id             : 565d0dc7-8f9b-4f22-afe5-fe0bd6a0b921
lastName       : Prestov
samAccountName : tm.jj
sid            : S-1-5-21-870184815-4058679007-2540742146-5619
sipAddress     : sip:tm.jj@dev.local
```

In the following example, cmdlet cleans FirstName for the user account with the Identity (in this case user’s Sip)

```
Set-TmUser –SIP “sip:tm.jj@dev.local” -Firstname “ “
```

```
PS C:\Users\administrator> Set-TmUser -SIP “sip:tm.qq@dev.local” -Firstname “ “
firstName      : firstName
id             : d431ef78-632d-4800-a619-3aa5918d79f8
lastName       : Gans
samAccountName : tm.gg
sid            : S-1-5-21-870184815-4058679007-2540742146-5615
sipAddress     : sip:tm.gg@dev.local
```

5.23 New-TmUser

Allows to create a new user in TeamManager.

A valid identifier (SID, SamAccountName or SipAddress) has to be provided. This cmdlet was introduced in Team Manager 2.6.8.0001.

```
New-TmUser [-SID] <Object> [-SamAccountName] <Object> [-SipAddress] <Object> [-Firstname] <String> [-Lastname] <String> [[-LineUri] <String>] [[-PrivateLineUri] <String>] [[-OrganizationUnitId] <Object>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
FirstName	Optional	User’s first name used in TM system.
LastName	Optional	User’s last name used in TM system.
SamAccountName	Required	Security accounts manager (SAM) account name that allows identify an Active Directory user.
Sid	Required	Security identifier (SID) that allows identify an Active Directory user.

Parameter	Required	Description
SipAddress	Required	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com.
LineUri	Optional	Phone number assigned to the user. The line Uniform Resource Identifier (URI) must be specified using the E.164 format and use the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
PrivateLineUri	Optional	Phone number for the user's private telephone line. The private line value should be specified using the E.164 format, and be prefixed by the "TEL:" prefix. For example: tel:+41584441010. Any extension number should be added to the end of the line URI, for example: tel:+41584441010;ext=145.
OrganizationUnitId	Optional	Organization Unit that will be assigned to the user. If nothing defined, root OrganizationUnitId is selected

5.23.1 **Examples**

In this example a new TM user is created. All parameters are used.

```
New-TmUser –FirstName James LastName McDonald -SID S-1-5-21-870184815-4058679007-2540742146-5648 -SamAccount tm.harry_p -SipAddress sip:jm@dev.local –LineUri tel:+41584441090 –PrivateLineUri tel:+41584441095 -OrganizationUnitId  62306900-4610-447c-bcdd-1b7c24114557
```

5.24 **Set-TmTeamAdministrator**

Allows to set (or unset) a user (identified by users id, sid or sip address) as team administrator for a defined Team.

```
Set-TmTeamAdministrator [[-TeamId] <Object>] [[-UserId] <Object>] [[-UserSid] <Object>] [[-UserSipAddress] <Object>] [[-IsUserTeamAdministrator] <Boolean>] [[-CWSServer] <Object>] [<CommonParameters>]
```

Parameter	Required	Description
id	Required	Indicates the Identity of the team for which a member to be retrieved.

Parameter	Required	Description
UserId	Required	Indicates the Identity of the user account to be retrieved.
UserSid	Required	Security identifier (SID) that allows identify an Active Directory user.
UserSIpAddress	Required	Unique identifier (similar to an email address) that allows the user to communicate using SIP devices such as Skype for Business. The SIP address must use the sip: prefix as well as a valid SIP domain; for example: -SipAddress sip:kenmyer@litwareinc.com.
IsUserTeamAdministrator	Optional	Flag that allows setting a user as a team administrator.

5.24.1 **Examples**

In the presented example, the **Set-TmTeamAdministrator** cmdlet is running with a team's Id and a user's Id account.

```
Set-TmTeamAdministrator -TeamId c77e3821-af18-41fd-a3ac-a0cd76cb939b -UserId
482b1c5e-feda-4099-9895-d743bc902c02 -IsUserTeamAdministrator $true
```