   **Television**  
  
      **SeekInformation**  
         Gets seek information for television playback.  
         **Parameters:**  
            File: The base file of the television program. (default: )  
            Time: The time to get seeking information for. (default: )  
         **Response:**  
            AudioSeekByte: The seek byte for the audio stream.  
            VideoSeekByte: The seek byte for the video stream.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/SeekInformation)  
  
      **PlayChannel**  
         Requests the player to find a TV control and start buffering a TV channel for the client.  
         **Parameters:**  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/PlayChannel?Channel=-1&Zone=-1&ZoneType=ID)  
  
      **GetPlayerServingChannel**  
         Get the player that was previously started serving the given channel.  
         **Parameters:**  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            TVPlayer: The pointer to CTVPlayer object that serves the channel.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetPlayerServingChannel?Channel=-1&Zone=-1&ZoneType=ID)  
  
      **GetJTVFile**  
         Get the jtv file from the given TVPlayer for the client to play.  
         **Parameters:**  
            Channel: The key of the TV channel to play. (default: -1)  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            JTVFilename: The jtv file the server serves.  
            JTVFileKey: The key of the jtv file the server serves  
            PlaybackInfo: The PlaybackInfo tag.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetJTVFile?Channel=-1&TVPlayer=0&Zone=-1&ZoneType=ID)  
  
      **StopChannel**  
         Informs TV control that a client has stopped playing the given TV channel  
         **Parameters:**  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            File: The jtv file key that has been played by client (default: )  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/StopChannel?TVPlayer=0&Channel=-1&Zone=-1&ZoneType=ID)  
  
      **GetAudioPrograms**  
         Get available audio programs on the currently playing channel  
         **Parameters:**  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            File: The jtv file key that has been played by client (default: )  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            AudioPrograms: Returns a list of audio programs  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetAudioPrograms?TVPlayer=0&Channel=-1&Zone=-1&ZoneType=ID)  
  
      **SetAudioProgram**  
         Set audio program on the currently playing channel  
         **Parameters:**  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            File: The jtv file key that has been played by client (default: )  
            Channel: The key of the TV channel to play. (default: -1)  
            AudioProgram: A string representing the audio program (default: )  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            NotAllowed: Returns 1 if the tuner has more tasks than just serving this client alone  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/SetAudioProgram?TVPlayer=0&Channel=-1&Zone=-1&ZoneType=ID)  
  
      **SetActiveAudioProgramAsDefault**  
         Save active audio program on the currently playing channel as default  
         **Parameters:**  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            File: The jtv file key that has been played by client (default: )  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            NotAllowed: Returns 1 if the tuner has more tasks than just serving this client alone  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/SetActiveAudioProgramAsDefault?TVPlayer=0&Channel=-1&Zone=-1&ZoneType=ID)  
  
      **ClientCallback**  
         Informs TV control that a client is still alive playing a TV channel  
         **Parameters:**  
            TVPlayer: The pointer to the CTVPlayer object that started the TV control on the given channel (default: 0)  
            File: The jtv file key that has been played by client (default: )  
            Channel: The key of the TV channel to play. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/ClientCallback?TVPlayer=0&Channel=-1&Zone=-1&ZoneType=ID)  
  
      **GetRecordingRuleConflict**  
         Query TV recording database whether a given recording rule has any conflicts  
         **Parameters:**  
            RuleID: RecordingRule ID (default: 0)  
            ParentRuleID: The parent ID of the recording rule (default: 0)  
            Name: The name of the recording rule (default: )  
            Properties: The recording rule properties (default: )  
         **Response:**  
            HasConflicts: Returns true or false  
            Messages: String messages to be displayed to user  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetRecordingRuleConflict?RuleID=0&ParentRuleID=0)  
  
      **GetRecordingActionConflicts**  
         Query TV recording database whether a given recording rule has any conflicts  
         **Parameters:**  
            ProgramKey: Program key (default: -1)  
         **Response:**  
            HasConflicts: Returns true or false  
            Messages: String messages to be displayed to user  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetRecordingActionConflicts?ProgramKey=-1)  
  
      **GetPlayerRecordingFile**  
         Get the player that is currently recording a given file.  
         **Parameters:**  
            File: The key of the file that is being recorded. (default: -1)  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            TVPlayer: The pointer to CTVPlayer object that serves the channel.  
            ChannelKey: The television channel being recorded.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetPlayerRecordingFile?File=-1&Zone=-1&ZoneType=ID)  
  
      **GetRecordingSchedule**  
         Get a list of recordings scheduled for the next specified number of hours.  
         **Parameters:**  
            RangeInHours: The number of hours of schedules to report starting from current hour. (default: -1)  
         **Response:**  
            NumberRecordings: The number of recordings in the specified period.  
            ProgKey#: The program key of the recording at index #.  
            ChannelKey#: The channel key of the recording at index #.  
            RecordingID#: The recording rule ID of the recording at index #.  
            StartTime#: The start time of the recording at index #.  
            Duration#: The duration of the recording at index #.  
            ProgName#: The program name of the recording at index #.  
            Description#: The description of the recording at index #.  
            Status#: The status of the recording at index #.  
            TypeOfRecording#: The type of recording at index #.  
            IsRecordingNow#: Boolean indicating whether the recording at index # has started.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetRecordingSchedule?RangeInHours=-1)  
  
      **GetRecordingScheduleXML**  
         Get a list of recordings scheduled for the next specified number of hours.  
         **Parameters:**  
            RangeInHours: The number of hours of schedules to report starting from current hour. (default: -1)  
         **Response:**  
            Recordings: The recordings in the specified period, in an xml formatted string. Empty if no recording is scheduled.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetRecordingScheduleXML?RangeInHours=-1)  
  
      **GetOrderedListOfTVChannels**  
         Get television channel custom ordering  
         **Response:**  
            OrderedList: Returns an ordered list of television channels  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetOrderedListOfTVChannels)  
  
      **SetOrderedListOfTVChannels**  
         Set television channel custom ordering  
         **Parameters:**  
            OrderedList: Ordered list of television channels (default: )  
         **Response:**  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/SetOrderedListOfTVChannels)  
  
      **ResetChannelOrderSetting**  
         Reset television channel ordering  
         **Response:**  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/ResetChannelOrderSetting)  
  
      **GetChannelKeyPlayingInZone**  
         Get television channel key that is being served to the client  
         **Parameters:**  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            ChannelKey: Returns a channel key  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetChannelKeyPlayingInZone?Zone=-1&ZoneType=ID)  
  
      **GetPlayingChannelAndRecordingProgramKeys**  
         Get television channel key that is being served to the client and all program keys currently being recorded  
         **Parameters:**  
            Zone: The zone the command is targetted for. (default: -1)  
            ZoneType: The type of value provided in 'Zone' (ID: zone id; Index: zone index; Name: zone name (default: ID)  
         **Response:**  
            ChannelKey: Returns a channel key  
            ProgramKeys: Returns a comma separated list of program keys  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetPlayingChannelAndRecordingProgramKeys?Zone=-1&ZoneType=ID)  
  
      **GetAllRecordingProgramKeys**  
         Get all television program keys currently being recorded  
         **Response:**  
            ChannelKey: Returns a channel key  
            ProgramKeys: Returns a comma separated list of program keys  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetAllRecordingProgramKeys)  
  
      **GetTelevisionStatus**  
         Get Standard View television status text line  
         **Response:**  
            TVStatus: Returns status text  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetTelevisionStatus)  
  
      **ReadRecordingFolderTestFile**  
         Request the server to read the content of the folder test file  
         **Parameters:**  
            TestFile: The file path and name of a client created file (default: )  
         **Response:**  
            FileContent: Returns a string read from the test file  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/ReadRecordingFolderTestFile)  
  
      **GetTVStatusPage**  
         Ask the server to send tuner status page contents (tuner status and recording actions)  
         **Response:**  
            TVStatus: Returns a string from GetStatus  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetTVStatusPage)  
  
      **GetTVLogs**  
         Ask the server to send TV Logs  
         **Response:**  
            TVLogs: Returns a string from ReadLogLines  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetTVLogs)  
  
      **GetGuidePrograms**  
         Ask the server to send guide programs  
         **Parameters:**  
            StartDate: Start datetime (empty means starting now) (default: )  
            EndDate: End datetime (empty means 24 hours from start time) (default: )  
            Channels: Comma-separated list of channel keys (empty means all channels) (default: )  
         **Response:**  
            Programs: XML formatted EPG program info  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/GetGuidePrograms)  
  
      **SetRecording**  
         Ask the server to send guide programs  
         **Parameters:**  
            RuleName: Specify a rule name. For example you can use the program name (series name or episode name). Optional, especially if ExistingRuleID is provided. (default: )  
            RecType: Type of recording. 1: record program; 2: record by time and channel; 3: set to no recording (do not use for this function); 4: subscription search; 5: subscription by time. (default: 1)  
            ProgKey: Program key of the guide program to record, must be included if RecType of 1. Can be included for other types too. (default: )  
            ExistingRuleID: Existing recording rule ID. Optional. Needed only if calling this function to modify an existing recording rule. Can also be skipped if ProgKey is valid and RecType is 1. (default: 0)  
            Channels: Semicolon-separated list of channel keys (empty or -1 means all channels). Needed for RecType of 2 (single channel), 4 (multiple channels allowed), and 5 (single channel) (default: )  
            ExtBefore: Recording prepadding. Specifies number of minutes by which to start recording early. Empty means use user configured default value. (default: )  
            ExtAfter: Recording postpadding. Specifies number of minutes by which to end recording late. Empty means use user configured default value. (default: )  
            SubRules: Subscription rules using expression language, used with RecType 4 only. Optional if ProgKey is also provided. Example: ([Name]="College Basketball" or [Series]="College Basketball") ([Name]="Duke" or [Description]="Duke"). (default: )  
            ProgName: Program name. Needed only with time-based recordings (RecType 2 and 5) (default: )  
            SubTimeMode: Subscription search time mode, used with RecType of 4. 0: All showing; 1: One per week near anchor time; 2: One per day near anchor time; 3: One per day near prime time; 4: One per day near middle of night. (default: )  
            SubTimeAnchor: Subscription search anchor time, used with RecType of 4. Use string representation of system date-time format. Not needed for other recording types, and not needed if a ProgKey is also provided. (default: )  
            NoRerun: Subscription search do not include reruns. 0 or 1. Needed only for RecType of 4. Optional. If not specified, default value will be applied. (default: )  
            OnlyIfNotPrevRecorded: Subscription search only programs not previously recorded. Needed only for RecType of 4. Optional. If not specified, default value will be applied. (default: )  
            FieldsToCompare: When OnlyIfNotPrevRecorded is specified, which fields are used to determine whether a program is previously already recorded. Bitwise ORing of the following values: 1: [Name], 2: [Seires], 4: [Description], 8: [Season], 16: [Episode]. So a value of 7 means [Name], [Seires], and [Description] all must match to be considered a match. Needed only for RecType of 4. Optional. If not specified, default value 7 will be applied. (default: 7)  
            StartTime: Starting time of the recording. Needed only for RecType of 2 and 5, and may be skipped if ProgKey is provided. (default: )  
            Duration: Duration of the recording, in minutes. Needed only for RecType of 2 and 5, and only if ProgKey is not provided. (default: )  
            DaysOfWeek: Semi-colon separated list of days. 1: Sunday, 2: Monday, 3: Tuesday, etc. Needed only for RecType of 5. (default: )  
            QualityPref: Preferred video quality. 0: HD video, 1: SD video. Needed only for RecType of 4. (default: )  
            Priority: Priority of the recording. Integers 1 - 100. Predefined values are 25: Low, 40: Medium-low, 50: Medium (default), 60: Medium-high, 75: High. Optional, defaults to Medium. (default: )  
            KeepDays: Number of days to keep the recording before it is automatically deleted. Optional. Default to no cleanup (0). (default: )  
            KeepEpisodes: Number of episodes to keep. Applicable only for subscription recordings (types 4 and 5). Oldest episodes over this number will be deleted. Optional. Default to no cleanup (0). (default: )  
            Tags: Apply specified tags to the recording. Optional. If not specified (or empty), the default in TV options (or previously set tags, in case of modifying an exisitng recording) will be used. Special value of "-1" means apply no tags. (default: )  
            ExecCom: The command to execute after recording is done. Optional. If not specified, the default in TV options will be used. (default: )  
            ComArgs: Commnad line arguments for ExecCom. Optional. If not specified (or empty), the default in TV options (or previously set tags, in case of modifying an exisitng recording) will be used. Special value of "-1" means execute no command. (default: )  
         **Response:**  
            RecRuleID: Recording rule ID. Positive values are valid. 0 is invalid.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/SetRecording?RecType=1&ExistingRuleID=0&FieldsToCompare=7)  
  
      **CancelRecording**  
         Cancel a scheduled recording. Note that if CancelType 0 is used with a RecRuleID that represents a recording type of 5 (time-based subscription), it is equivalent to CancelType of 1.  
         **Parameters:**  
            RecRuleID: Recording rule ID (default: )  
            CancelType: Type of canceling. 0: Cancel specified program only (not meaningful if RecRuleID represents a recording of type 5), 1: Cancel subscription, 2: Suspend subscription recording (SuspStart and SuspEnd must be supplied). (default: 0)  
            ProgKey: Program database key of the program to cancel (not needed if canceling an entire subscription) (default: )  
            SuspStart: Date on which suspension starts (used with CancelType of 2) (default: )  
            SuspEnd: Date on which recording resumes (used with CancelType of 2) (default: )  
         **Response:**  
            Result: Success or failure. 1: canceling succeeded, 0: canceling failed.  
         **Examples:**  
            [Click here](http://localhost:52199/MCWS/v1/Television/CancelRecording?CancelType=0)