Remote playback API testing

Test coverage

👤 **FritzHeiden** Implemented all tests ⋯		on Aug 16 🕐 **History**
..			
📄 META.yml	Add spec links to META.yml	4 years ago
📄 README.md	Create README.md (web-platform-tests#6223)	5 years ago
📄 cancel-watch-availability.html	[remote-playback] Fixed 404 media source (web-platform-tests...	3 years ago
📄 disable-remote-playback-cancel...	[remote-playback] Fixed 404 media source (web-platform-tests...	3 years ago
📄 disable-remote-playback-promp...	Replace some "promise_rejects(t, 'SomeDOMError', stuff)" call...	3 years ago
📄 disable-remote-playback-watch-...	Replace some "promise_rejects(t, 'SomeDOMError', stuff)" call...	3 years ago
📄 event-handlers-manual.html	Implemented all API tests	last month
📄 idlharness.window.js	Mark remote-playback/idlharness.window.js as timeout=long	3 years ago
📄 prompt-and-cancel-selection-m...	Implemented all tests	last month
📄 prompt-and-select-device-manu...	Implemented all API tests	last month
📄 prompt-and-watch-availability-n...	Implemented all API tests	last month
📄 prompt-and-watch-availability-w...	Implemented all API tests	last month
📄 prompt-in-detached-iframe.html	Fix crash in RemotePlayback::prompt() in detached window	10 months ago
📄 remote-video-control-pausing-...	Implemented all tests	last month
📄 remote-video-control-seek-man...	Implemented all tests	last month
📄 remote-video-playback-manual...	Implemented all tests	last month
📄 state-attribute-changes-when-s...	Implemented all API tests	last month
📄 state-attribute-changes-with-ev...	Implemented all API tests	last month
📄 watch-availability-callback-para...	Implemented some tests for remote-playback api	last month
📄 watch-availability-initial-callback...	[remote-playback] Fixed 404 media source (web-platform-tests...	3 years ago
📄 watch-availability-promise-retur...	Implemented some tests for remote-playback api	last month

- 12 new tests
- most are manual
- testing events and side effects
- testing use cases:
  - finding remote devices
  - connecting with remote device
  - playing content
  - playback controls
  - synchronized play position

Click the button below to prompt for a remote playback device and select one!

[Pick device]

00:00:00

Results

- remote playback API only supported on Chrome 104 for Android
- all tests passed (on Chromecast Ultra)

All Results

Test files: 19; Total subtests: 65

Test Files

1. /remote-playback/cancel-watch-availability.html
2. /remote-playback/disable-remote-playback-cancel-watch-availability-throws.html
3. /remote-playback/disable-remote-playback-prompt-throws.html
4. /remote-playback/disable-remote-playback-watch-availability-throws.html
5. /remote-playback/idlharness.window.html
6. /remote-playback/prompt-in-detached-iframe.html
7. /remote-playback/watch-availability-callback-parameter.html
8. /remote-playback/watch-availability-initial-callback.html
9. /remote-playback/watch-availability-promise-return-callback-id.html
10. /remote-playback/event-handlers-manual.html
11. /remote-playback/prompt-and-cancel-selection-manual.html
12. /remote-playback/prompt-and-select-device-manual.html
13. /remote-playback/prompt-and-watch-availability-no-device-manual.html
14. /remote-playback/prompt-and-watch-availability-with-device-manual.html
15. /remote-playback/remote-video-control-pausing-manual.html
16. /remote-playback/remote-video-control-seek-manual.html
17. /remote-playback/remote-video-playback-manual.html
18. /remote-playback/state-attribute-changes-when-selecting-device-manual.html
19. /remote-playback/state-attribute-changes-with-event-handlers-manual.html

Test	Ch104
/remote-playback/cancel-watch-availability.html	
Test that calling cancelWatchAvailability() with an id does remove the callback.	PASS
Test that calling cancelWatchAvailability() without an id removes all the callbacks.	PASS
/remote-playback/disable-remote-playback-cancel-watch-availability-throws.html	
Test that calling cancelWatchAvailability() when disableRemotePlayback attribute is set throws an exception.	PASS
/remote-playback/disable-remote-playback-prompt-throws.html	
Test that calling prompt() when disableRemotePlayback attribute is set throws an exception.	PASS
/remote-playback/disable-remote-playback-watch-availability-throws.html	
Test that calling watchAvailability() when disableRemotePlayback attribute is set throws an exception.	PASS
/remote-playback/idlharness.window.html	
Element includes ChildNode: member names are unique	PASS
Element includes NonDocumentTypeChildNode: member names are unique	PASS
Element includes ParentNode: member names are unique	PASS
Element includes Slottable: member names are unique	PASS
HTMLElement includes DocumentAndElementEventHandlers: member names are unique	PASS
HTMLElement includes ElementContentEditable: member names are unique	PASS
HTMLElement includes GlobalEventHandlers: member names are unique	PASS

HTMLMediaElement interface: attribute disableRemotePlayback	PASS
HTMLMediaElement interface: attribute remote	PASS
Partial interface HTMLMediaElement: member names are unique	PASS
Partial interface HTMLMediaElement: original interface defined	PASS
RemotePlayback interface object length	PASS
RemotePlayback interface object name	PASS
RemotePlayback interface: attribute onconnect	PASS
RemotePlayback interface: attribute onconnecting	PASS
RemotePlayback interface: attribute ondisconnect	PASS
RemotePlayback interface: attribute state	PASS
RemotePlayback interface: calling cancelWatchAvailability(optional long) on media.remote with too few arguments must throw TypeError	PASS
RemotePlayback interface: calling watchAvailability(RemotePlaybackAvailabilityCallback) on media.remote with too few arguments must throw TypeError	PASS
RemotePlayback interface: existence and properties of interface object	PASS
RemotePlayback interface: existence and properties of interface prototype object	PASS
RemotePlayback interface: existence and properties of interface prototype object's "constructor" property	PASS
RemotePlayback interface: existence and properties of interface prototype object's @@unscopables property	PASS
RemotePlayback interface: media.remote must inherit property "cancelWatchAvailability(optional long)" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "onconnect" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "onconnecting" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "ondisconnect" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "prompt()" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "state" with the proper type	PASS
RemotePlayback interface: media.remote must inherit property "watchAvailability(RemotePlaybackAvailabilityCallback)" with the proper type	PASS
RemotePlayback interface: operation cancelWatchAvailability(optional long)	PASS
RemotePlayback interface: operation prompt()	PASS
RemotePlayback interface: operation watchAvailability(RemotePlaybackAvailabilityCallback)	PASS
RemotePlayback must be primary interface of media.remote	PASS
Stringification of media.remote	PASS
idl_test setup	PASS
idl_test validation	PASS

/remote-playback/prompt-in-detached-iframe.html	
Calling remote.prompt() in a detached context should throw InvalidAccessError	PASS
/remote-playback/watch-availability-callback-parameter.html	
Test that the callback is called with boolean parameter when calling watchAvailability().	PASS
/remote-playback/watch-availability-initial-callback.html	
Test that the callback is called once watchAvailability() resolves.	PASS
/remote-playback/watch-availability-promise-return-callback-id.html	
Test that the promise returns the callback id when calling watchAvailability().	PASS
/remote-playback/event-handlers-manual.html	
Prompt to connect device	PASS
Test that all event handlers are called.	PASS
/remote-playback/prompt-and-cancel-selection-manual.html	
Test that promise is rejected when user cancels device selection.	PASS
/remote-playback/prompt-and-select-device-manual.html	
Prompt resolves	PASS
Test that promise is resolved when user selects a device.	PASS
/remote-playback/prompt-and-watch-availability-no-device-manual.html	
Test that watchAvailability returned false when there is no device for the user to select.	PASS
/remote-playback/prompt-and-watch-availability-with-device-manual.html	
Test that watchAvailability returned true when user selects device.	PASS
/remote-playback/remote-video-control-pausing-manual.html	
Prompt resolves	PASS
Test if video is playing on remote device.	PASS
/remote-playback/remote-video-control-seek-manual.html	
Prompt resolves	PASS
Test if video is playing on remote device.	PASS
/remote-playback/remote-video-playback-manual.html	
Prompt resolves	PASS
Test if video is playing on remote device.	PASS
/remote-playback/state-attribute-changes-when-selecting-device-manual.html	
Prompt call resolves	PASS
Test that the remote playback state changes when selecting a device.	PASS
/remote-playback/state-attribute-changes-with-event-handlers-manual.html	
Prompt to connect device	PASS
Prompt to disconnect device	PASS
Test that remote playback state changes when connecting and disconnecting.	PASS

Next steps

Adding tests for remote playback API #35827

- pull request requires review
  (https://github.com/web-platform-tests/wpt/pull/35827)
- when merged, run tests one more devices
  - which browsers are supported?
- generate implementation report
- create pull request for test results
  (https://w3c.github.io/test-results/remote-playback/all.html)