<pre>// -*- Mode: c++; tab-width: 2; indent-tabs-mode: nil; c-basic-offset: 2 -*- // // Copyright (C) 2016 Opera Software AS. All rights reserved. // // This file is an original work developed by Opera Software AS</pre>	
<pre>'use strict'; class VideoHandler { static get OBSERVER_ATTRIBUTE_FILTER() { return ['class', 'hidden']; } static get OBSERVER_FILTERS() { const filters = { 'attributes': true,</pre>	
<pre>'childList': true, 'subtree': true, }; if (this.OBSERVER_ATTRIBUTE_FILTER) { filters.attributeFilter = this.OBSERVER_ATTRIBUTE_FILTER; }</pre>	
<pre>return filters; } static get SELECTOR_PLAYER() { return null; } static get SELECTOR_PLAYER_SKIP_AD() { return null; } static get SELECTOR_PLAYER_FFORWARD() { return null; } </pre>	
<pre>static get SELECTOR_PLAYER_SEEK_BAR() { return null; } static get SELECTOR_PLAYER_LIVE() { return null; } static get SELECTOR_PLAYER_VOLUME() { return null; } constructor() { this.player_ = null; this.playerObserver_ = new MutationObserver(() => this.onPlayerChange_()); this.state_ = {};</pre>	
<pre>this.trackedVideo_ = null; this.isScrubbing_ = false; this.isPausedForScrubbing_ = false; this.initializeActionHandlers_(); this.onCreateBound_ = this.onCreatebind(this);</pre>	
<pre>this.onDetachBound_ = this.onDetachbind(this); this.onReleaseBound_ = this.onReleasebind(this); this.addListeners_(); VideoHandler.getCurrentURL = this.getCurrentURLbind(this); VideoHandler.SUPPORTS_SEND_TO_PHONE = this.supportsSendToPhone_(); }</pre>	
<pre>initializeActionHandlers_() { // Maps action names to our own MediaSession action handlers. this.actionHandlers_ = new Object(); this.actionHandlers_['skipad'] = () => { this.triggerClick_(this.constructor.SELECTOR_PLAYER_SKIP_AD); }; this.actionHandlers_['nexttrack'] = this.triggerFForwardClickbind(this);</pre>	
<pre>this.actionHandlers_['seekto'] = this.onSeekToActionbind(this); // Maps action names to IDs of our own MediaSession action handlers. this.actionHandlerIds_ = new Object(); } addListeners_() {</pre>	
<pre>VideoHandler.Events.onCreate.addListener(this.onCreateBound_); VideoHandler.Events.onDetach.addListener(this.onDetachBound_); VideoHandler.Events.onRelease.addListener(this.onReleaseBound_); } hasCustomDuration_() { return typeof this.getDuration_ === 'function'; }</pre>	
<pre>checkCustomControls_() { let enabledActions = []; if (this.hasSkipAdControl_()) { enabledActions.push('skipad'); } </pre>	
<pre>if (this.hasFForwardControl_()) { enabledActions.push('nexttrack'); } if (!this.isLive_() && !this.isSeekBarHidden_()) { enabledActions.push('seekto'); } this.updateMediaSessionActions_(enabledActions);</pre>	
<pre>getPlayer_(video) { return this.constructor.SELECTOR_PLAYER && video.closest(this.constructor.SELECTOR_PLAYER); }</pre>	
<pre>getPlayerElement_(selector) { return this.player_ && this.playerquerySelector(selector); } // Gets url to current video including time markers. // Note: This implementation was made for youtube.com and Twitch.tv only. // For other sites doublecheck if it works and override in subclasses if // recognary</pre>	
<pre>// necessary. getCurrentURL_(videoElement) { if (this.isLive_()) { return location.href; } const time = parseInt(videoElement.currentTime); const timeRegex = /t=[\dhm]+s/;</pre>	
<pre>let searchPart = location.search; if (location.search.search(timeRegex) >= 0) { searchPart = location.search.replace(timeRegex, `t=\${time}s`); } else { searchPart += `\${searchPart === '' ? '?' : '&'}t=\${time}s`; }</pre>	
<pre>if (location.search === '') { return location.href + searchPart; } return location.href.replace(location.search, searchPart); } supportsSendToPhone_() { return false;</pre>	
<pre>hasSkipAdControl_() { if (this.constructor.SELECTOR_PLAYER_SKIP_AD) { return Boolean(this.getPlayerElement_(this.constructor.SELECTOR_PLAYER_SKIP_AD)); }</pre>	
<pre>return false; } hasFForwardControl_() { if (this.constructor.SELECTOR_PLAYER_FFORWARD) { return Boolean(this.getPlayerElement_(this.constructor.SELECTOR_PLAYER_FFORWARD));</pre>	
<pre> return false; } isSeekBarHidden_() { if (this.constructor.SELECTOR_PLAYER_SEEK_BAR) { </pre>	
<pre>return !Boolean(</pre>	
<pre>return Boolean(this.getPlayerElement_(this.constructor.SELECTOR_PLAYER_LIVE)); } return false; }</pre>	
<pre>onCreate_(video) { const player = this.getPlayer_(video); if (!player) { return; } // The video element may have changed, so let the listeners below know. player[VideoHandler.VIDEO_ELEMENT] = video;</pre>	
<pre>if (this.player_ === player) { return; } this.player_ = player; video[VideoHandler.PLAYER_ELEMENT] = player;</pre>	
<pre>this.playeraddEventListener('mousemove', () => { const video = this.player_[VideoHandler.VIDEO_ELEMENT]; if (video) { VideoHandler.Events.onVideoAreaOver.dispatch(video); } }); this.playeraddEventListener('mouseout', () => { const video = this.player_[VideoHandler.VIDEO_ELEMENT]; }</pre>	
<pre>if (video) { VideoHandler.Events.onVideoAreaOut.dispatch(video); } }); } onDetach_(video) {</pre>	
<pre>if (this.trackedVideo_) { if (this.trackedVideo_ === video) { return; } this.onRelease_(this.trackedVideo_); } this.trackedVideo_ = video;</pre>	
<pre>this.trackedvideo_ = video, this.state_ = {}; this.track_(video); this.updateMediaSessionActions_(['seekto']); } onPlayerChange_() { }</pre>	
<pre>onRelease_(video) { if (!video this.trackedVideo_ !== video) { return; } this.updateMediaSessionActions_([]);</pre>	
<pre>this.trackedVideo_ = null; this.untrack_(video); } track_() { this.player_ = this.getPlayer_(this.trackedVideo_); if (this.player_) {</pre>	
<pre>this.playerObserverobserve(this.player_, this.constructor.OBSERVER_FILTERS); this.onPlayerChange_(); } triggerClick_(selector) { if (!selector) {</pre>	
<pre>return false; return false; const element = this.getPlayerElement_(selector); if (element) { element.click(); return true; </pre>	
<pre> } return false; } triggerFForwardClick_() { return this.triggerClick_(this.constructor.SELECTOR_PLAYER_FFORWARD); } </pre>	
<pre>onSeekToAction_(actionDetails) { if (!this.isScrubbing_ && actionDetails.fastSeek) { this.beginScrubbing_(); } // TODO: Use HTMLMediaElement.fastSeek() when it's available.</pre>	
<pre>this.trackedVideocurrentTime = actionDetails.seekTime; // §10 of the MediaSession spec says fastSeek "will be true if the action // is being called multiple times as part of a sequence and this is not the // last call in that sequence." if (this.isScrubbing_ && !actionDetails.fastSeek) { this.endScrubbing_(); }</pre>	
<pre>beginScrubbing_() { if (!this.trackedVideopaused) { this.trackedVideopause(); this.isPausedForScrubbing_ = true; } this.isScrubbing_ = true; }</pre>	
<pre>this.isScrubbing_ = true; } endScrubbing_() { if (this.isPausedForScrubbing_) { this.trackedVideoplay(); this.isPausedForScrubbing_ = false; }</pre>	
<pre>this.isScrubbing_ = false; } untrack_(video) { this.playerObserverdisconnect(); } // Make sume our bandlons for actions specified in lactions, and enabled.</pre>	
<pre>// Make sure our handlers for actions specified in actions are enabled, // removing any action handlers set by us previously for actions that are not // in actions . updateMediaSessionActions_(actions) { for (const action in this.actionHandlers_) { if (actions.includes(action)) { this.maybeEnableMediaSessionActionHandler_(action); } else {</pre>	
<pre>this.maybeDisableMediaSessionActionHandler_(action); } } } // Set up our custom action handler iff we know the page doesn't provide its // own handler. maybeEnableMediaSessionActionHandler_(action) { const currentHandlerId = opr.detachedVideoPrivate.getActionHandlerId(</pre>	
<pre>if (currentHandlerId === this.actionHandlerIds_[action]) { // Already enabled. return; } const pageHandlesAction = currentHandlerId !== 0; if (!pageHandlesAction) { navigator.mediaSession.setActionHandler(action, this.actionHandlers_[action]); const newHandlerId = opr.detachedVideoPrivate.getActionHandlerId(navigator.mediaSession, action); this actionHandlerIds_[action] = newHandlerId;</pre>	
<pre>this.actionHandlerIds_[action] = newHandlerId; } maybeDisableMediaSessionActionHandler_(action) { if (!this.actionHandlerIds_[action]) { // Already disabled. return;</pre>	
<pre>const currentHandlerId = opr.detachedVideoPrivate.getActionHandlerId(navigator.mediaSession, action); // The page may have overwritten our handler, that's fine. if (this.actionHandlerIds_[action] === currentHandlerId) { navigator.mediaSession.setActionHandler(action, null); } this.actionHandlerIds_[action] = null; }</pre>	
<pre>} } VideoHandler.PLAYER_ELEMENT = Symbol(); VideoHandler.VIDEO_ELEMENT = Symbol(); VideoHandler.Events = { onCreate: opr.detachedVideoPrivate.onCreate, }</pre>	
<pre>onCreate: opr.detachedVideoPrivate.onCreate, onDetach: opr.detachedVideoPrivate.onDetach, onRelease: opr.detachedVideoPrivate.onRelease, onVideoAreaOut: opr.detachedVideoPrivate.onVideoAreaOut, onVideoAreaOver: opr.detachedVideoPrivate.onVideoAreaOver, };</pre>	