

# Dahua Webplugin SDK Guide

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# 1. Introduction

## 1.1 Contents

### 1.1.1 Files Introduction

Demo	index.html	Demo web start page	
	module	foundation.js	Foundation function module
		WebVideoCtrl.js	Webplugin interface module:websdk
		modifyUI.js	UI configuration module
		demo.js	Demo' s logic module
	lib	Jquery Framework,open-source js framework	
	en/demo.html	Demo html file with english	
	cn/demo.html	Demo html file with chinese	
	css	CSS file of this demo	
Doc	This file(Dahua Webplugin SDK Guide)		
Package	Dahua webplugin install package		

### 1.1.2 Demo Introduction

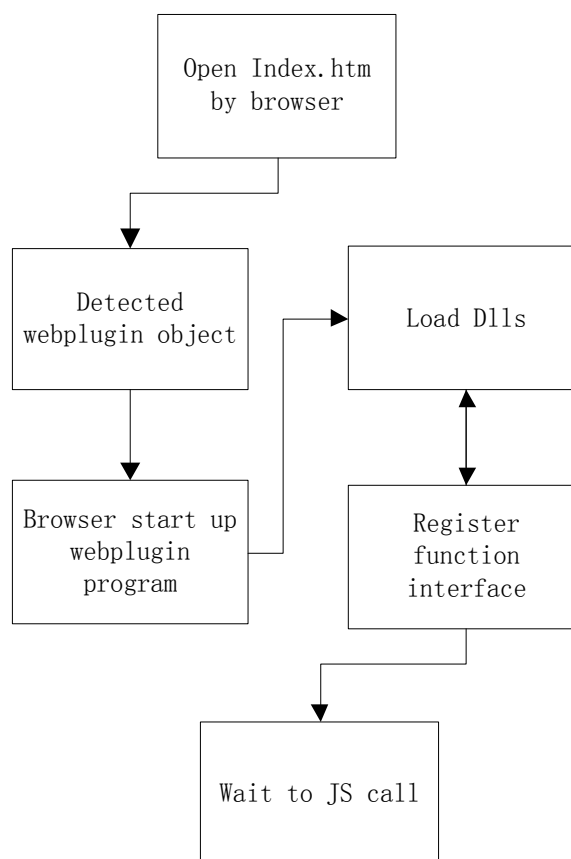
This Demo is how to build a web application using the NetSDK, It can connect device,get video,show video etc.

## 1.2 Runtime environment

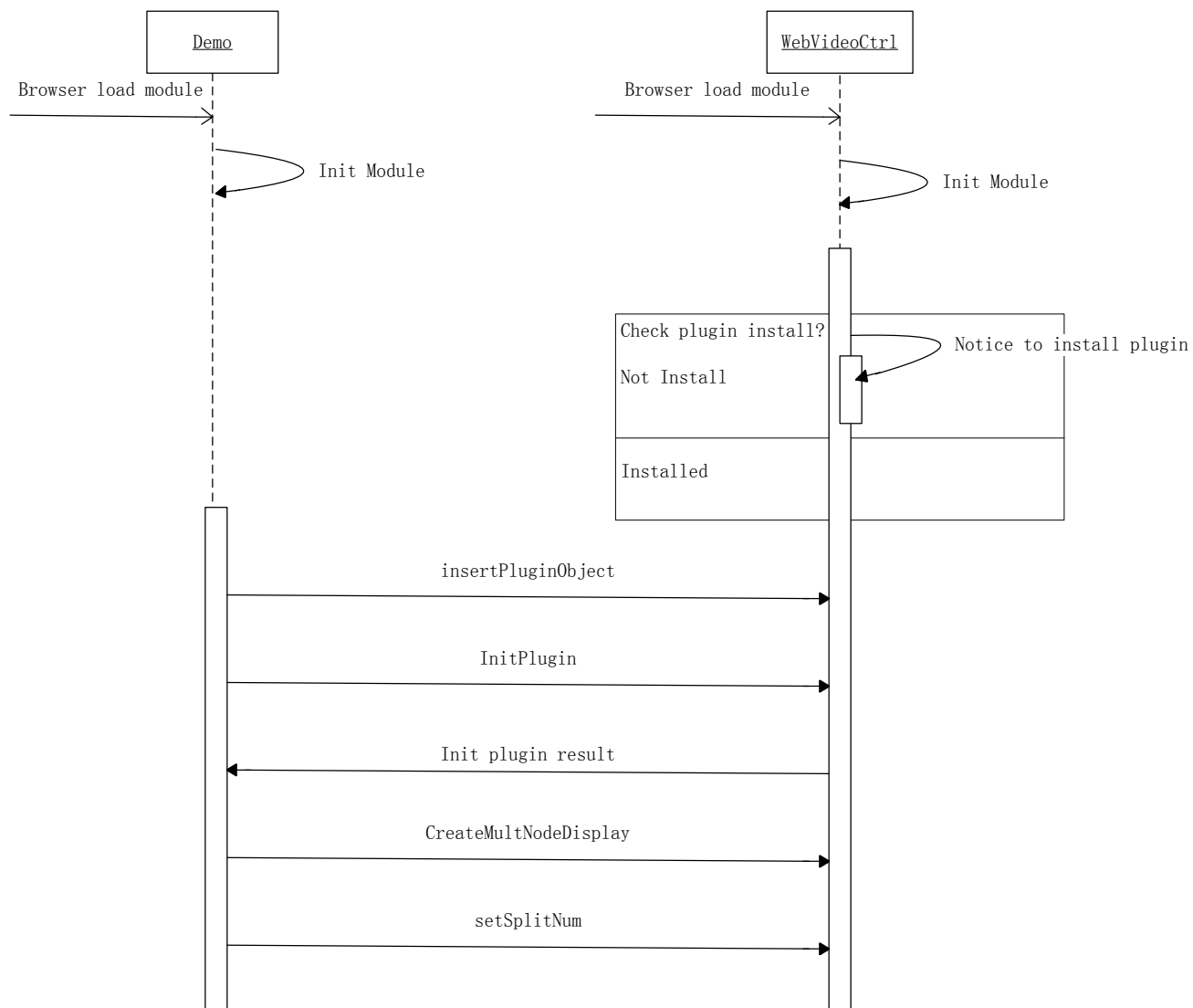
IE10-/Chrome 45-/Firefox, webplugin.exe Installed

## 2. Flow Introduction

### 2.1 Plugin Flow chart



### 2.2 Demo Flow chart



## 3. Web SDK Interface

### 3.1 Plugin Manager

#### checkPluginInstall

Name	Parameters	Description	Return	
checkPluginInstall		Check the plugin is installed or not in the system?	Type	Decription
			Boolean	true: Installed false: Not Installed

#### insertPluginObject

Name	Parameters			Description	Return	
insertPluginObject	Name	Type	Description	Load video container of plugin to web?	Type	Decription
	sContainerID	String	Container ID in Plugin		Boolean	true: Success false: Fail
	iWidth	Int	Container width			
	iHeight	int	Container height			

#### initPlugin

Name	Parameters			Description	Return	
initPlugin	Name	Type	Description	Initialize Plugin	Type	Decription
	sProtocol	String	Protocol type		Boolean	true: Success false: Fail
	fnCallback	Function	When function return,call this function			

## 3.2 Event Manager

### registerEvent

Name	Parameters			Description	Return	
registerEvent	Name	Type	Description	Register Event to plugin	Type	Decription
	sEventName	String	Event name		Boolean	true: Success false: Fail
	fnCallback	Function	When function return,call this function			

## Event Callback Function Definition

### SelectedView

Name	Parameters			Description	Return	
SelectedView	Name	Type	Description	When select one display window,then call this function?	Type	Decription
	iNodeIndex	int	Current Display window Node ID		Boolean	true: Success false: Fail
	iViewIndex	Int	Current Display window View ID			
	iWinID	int	Current Display window ID			

## 3.3 Display Window Manager

### createMultiNodeDisplay

Name	Parameters			Description	Return	
createMultiNodeDisplay	Name	Type	Description	Create the	Type	Decription



	iNum	int	The num of display window that you want to create	display windows		
					Boolean	true: Success false: Fail

## setSplitNum

Name	Parameters			Description	Return	
setSplitNum	Name	Type	Description	Set windows num to display	Type	Decription
	iNum	int	The num of display window that you want to display		Boolean	true: Success false: Fail

## setFullscreen

Name	Parameters	Description	Return	
setFullscreen		Switch to full screen,click “ESC” or right-hand click can exit full screen	Type	Decription
			Boolean	true: Installed false: Not Installed

## 3.4 Device Manager

### login

Name	Parameters			Description	Return		
login	Name	Type	Description	Login to the device	Type	Decription	
	sIp	int	Device's IP		int	>0	login success
	iPort	int	Protocol port,				

			3777:old device 80:new device			-1	UserName or Password is wrong
	sUserName	String	User Name				
	sPassword	String	Password				
	iRtspPort	Int	RTSP port, Default:80			-3	Time out
	iProtocol	Int	Protocol. 1:TCP 4:UDP 3:Multicast				
	fnSuccess	Function	If login success,call this function			-19	The interface not exist
	fnFail	Function	If login fail,call this function				

## logout

Name	Parameters			Description	Return	
logout	Name	Type	Description	Logout the device	Type	Decription
	sIp	String	Device's IP		Boolean	true: Success false: Fail

## 3.5 Live

### connectRealVideo

Name	Parameters			Description	Return	
connectRealVideo	Name	Type	Description	Live in current selected window	Type	Decription
	sIp	int	The device's IP			

					int	>0:Success -1:No Authority -2:Parameters wrong -3:Logic error -4:Operation error -5:Network error
	iChannel	int	The channel ID			
	iStreamType	int	The stream type			
	fnSuccess	Function	If return success,call this function			
	fnFail	Function	If return fail,call this function			

## 3.6 Player Manager

### closePlayer

Name	Parameters	Description	Return	
closePlayer		Close video in current selected window	Type	Decription
			Boolean	true: Success false: Fail

### getSelectedPlayerID

Name	Parameters	Description	Return	
getSelectedPlayerID		Get current selected player ID	Type	Decription
			int	>0: Player ID 0: Fail

### getPlayerInfo

Name	Parameters			Description	Return	
getPlayerInfo	Name	Type	Description	Get info of selected	Type	Decription
	iWinID	int	The window			

			ID	window	Object	ip	The device's IP
						channel	The channel ID
						streamType	The stream type
						type	The play mode: 1: Live 2: Playback by network 3: Local playback

## 3.7 Action with Video

### crabOnePicture

Name	Parameters			Description	Return	
crabOnePicture	Name	Type	Description	Shapshot from the selected video window	Type	Decription
	iFormat	int	The format of picture, 0: bmp 1: jpg		Boolean	true: Success false: Fail
	sPath	String	The path of picture to be saved			
	bOpen	Boolean	If return success, Open the picture or not			

### startRecordingVideo

Name	Parameters			Description	Return	
startRecordingVideo	Name	Type	Description	Download video from selected window	Type	Decription
	nFormat	int	The format of video to be saved 0: dav 1: avi 2: asf 3: mp4		Boolean	true: Success false: Fail

	sPath	String	The path of video to be saved			
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## stopRecordingVideo

Name	Parameters	Description	Return	
stopRecordingVideo		Stop Record from selected window	Type	Decription
			Boolean	true: Installed false: Not Installed

## enableEZoom

Name	Parameters	Description	Return	
enableEZoom		Enable enlarger video feature	Type	Decription
			Boolean	true: Installed false: Not Installed

## disableEZoom

Name	Parameters	Description	Return	
disableEZoom		Disable enlarger video feature	Type	Decription
			Boolean	true: Installed false: Not Installed

## 3.8 PTZ Control

### enablePTZLocate

Name	Parameters	Description	Return	
enablePTZLocate		Enable PTZ function with selected window	Type	Decription
			Boolean	true: Installed false: Not Installed

### disablePTZLocate

Name	Parameters	Description	Return	
disablePTZLocate		Disable PTZ function with selected window	Type	Decription
			Boolean	true: Installed false: Not Installed

### moveUpwards

Name	Parameters			Description	Return	
moveUpwards	Name	Type	Description	Let camera to move upward	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	bFlag	Boolean	The flag of stop moving			

## moveLower

Name	Parameters			Description	Return	
moveLower	Name	Type	Description	Let camera to move down	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	bFlag	Boolean	The flag of stop moving			

## moveLeft

Name	Parameters			Description	Return	
moveLeft	Name	Type	Description	Let camera to move left	Type	Decription
	iLevelSpeed	int	The speed of moving in horizontal direction		Boolean	true: Success false: Fail
	bFlag	Boolean	The flag of stop moving			

## moveRight

Name	Parameters			Description	Return	
moveRight	Name	Type	Description	Let camera to move right	Type	Decription
	iLevelSpeed	int	The speed of moving in horizontal direction		Boolean	true: Success false: Fail
	bFlag	Boolean	The flag of stop moving			

## moveUpperLeft

Name	Parameters			Description	Return	
moveUpperLeft	Name	Type	Description	Let camera to move upper left	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	iLevelSpeed	int	The speed in horizontal direction			
	bFlag	Boolean	The flag of stop moving			

## moveUpperRight

Name	Parameters			Description	Return	
moveUpperRight	Name	Type	Description	Let camera to move upper right	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	iLevelSpeed	int	The speed in horizontal direction			
	bFlag	Boolean	The flag of stop moving			

## moveLowerLeft

Name	Parameters			Description	Return	
moveLowerLeft	Name	Type	Description	Let camera to move bottom left	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	iLevelSpeed	int	The speed in			



			horizontal direction			
	bFlag	Boolean	The flag of stop moving			

## moveLowerRight

Name	Parameters			Description	Return	
moveLowerRight	Name	Type	Description	Let camera to move bottom right	Type	Decription
	iVerticalSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	iLevelSpeed	int	The speed in horizontal direction			
	bFlag	Boolean	The flag of stop moving			

## controlZoom

Name	Parameters			Description	Return	
controlZoom	Name	Type	Description	Control the video Zoom out of Zoom in	Type	Decription
	iSpeed	int	The speed of moving in vertical direction		Boolean	true: Success false: Fail
	iFlag	int	The flag of Zoom out or Zoom in 0: Zoom out 1: Zoom in			
	bFlag	Boolean	The flag of stop moving			

## controlAperture

Name	Parameters			Description	Return	
controlAperture	Name	Type	Description	Control the aperture bigger or smaller	Type	Decription
	iSpeed	int	The speed aperture changed		Boolean	true: Success false: Fail
	iFlag	int	The flag of change 0: bigger 1: smaller			
	bFlag	Boolean	The flag of stop change			

## PTZIrIn

Name	Parameters			Description	Return	
PTZIrIn	Name	Type	Description	Control the Iris bigger or smaller	Type	Decription
	iSpeed	int	The speed Iris changed		Boolean	true: Success false: Fail
	iFlag	int	The flag of change 0: bigger 1: smaller			
	bFlag	Boolean	The flag of stop change			

## 3.9 Traffic statistics

### startTrafficDataQuery

Name	Parameters			Description	Return	
startTrafficDataQuery	Name	Type	Description	Enable to	Type	Decription

	sIp	String	Device's IP	query traffic data		
	iChannel	int	The channel's ID			
	sStartTime	String	The starting time of querying Format: "2013-12-11 23:59:59"			
	sEndTime	String	The ending time of querying Format: "2013-12-11 23:59:59"		int	>0:The Query handle 0: Fail
	iRuleType	int	The rule's mode, 0: Counting In Region 1: People Counting			
	iSpan	int	The unit of interval 0:hour 1:day			
	iMinStayTime	int	The mini time of staying			

## getTrafficDataTotalCount

Name	Parameters			Description	Return	
getTrafficDataTotalCount	Name	Type	Description	Get total count of traffic data	Type	Decription
	iHandle	int	The query handle		int	The query result count