

## HDPowerview Binding

### Specifics of Generation 1/2 and Generation 3 support

Common Class		Generation 1/2 Implementation Class		Generation 3 Implementation Class	
Class name	Description	Class name	Description	Class name	Description
<b>HDPowerviewWebTargets</b>	Base class for accessing a hub REST API. Declares abstract API accessor methods. Common fields. Common helper methods. Generic Gson serializer / deserializer support.	<b>HDPowerviewWebTargetsV1</b>	Implements abstract methods.	<b>HDPowerviewWebTargetsV2</b>	Implements abstract methods. Adds support for SSE subscription. Calls <b>SseSinkV3</b> for SSE callbacks. Registers binding with hub.
<b>ShadeData</b>	<i>Embedded <b>ShadeData</b> class originally in <b>Shades</b> class, refactored into an independent class.</i> Base class for Shade data. Declares abstract methods. Common DTO fields for both sub classes.	<b>ShadeDataV1</b>	Adds specific DTO fields for Gen 1/2. Implements abstract methods.	<b>ShadeDataV2</b>	Adds specific DTO fields for Gen 3. Implements abstract methods.
<b>ShadePosition</b>	Base class for Shade position. Declares abstract methods.	<b>ShadePositionV1</b>	Implements abstract methods.	<b>ShadePositionV2</b>	Implements abstract methods.
<b>Scene</b>	<i>Embedded <b>Scene</b> class originally in <b>Scenes</b> class, refactored into an independent class.</i> Base class for Scene data. Common DTO fields for both sub classes. Declares abstract methods.	<b>SceneV1</b>	Adds specific DTO fields for Gen 1/2. Implements abstract methods.	<b>SceneV2</b>	Adds specific DTO fields for Gen 3. Implements abstract methods.
<b>ScheduledEvent</b>	<i>Embedded <b>ScheduleEvent</b> class originally in <b>ScheduledEvents</b> class, refactored into an independent class.</i> Base class for Scheduled Event (automation). Common DTO fields for both sub classes. Declares abstract methods.	<b>ScheduledEventV1</b>	Adds specific DTO fields for Gen 1/2. Implements abstract methods.	<b>ScheduledEventV2</b>	Adds specific DTO fields for Gen 3. Implements abstract methods.
				<b>SseSinkV3</b> (interface)	New interface for SSE callbacks.
				<b>InfoV3</b>	New DTO for hub info request.
				<b>SseShadeV3</b>	New DTO for SSE Shade events.
				<b>SseSceneV3</b>	New DTO for SSE Scene events.
<b>HDPowerviewHubHandler</b>	Consumes common classes above. Pings hub to determine if it is V1 or V3.	<= if statement in common class	if (V1) .. - produces V1 classes above. - polls hub frequently.	<= if statement in common class	if (V3) .. - produces V3 classes above. - subscribes to SSE above. - implements SseSinkV3 to receive events. - polls hub only occasionally.
<b>HDPowerviewShadeHandler</b>	Consumes common classes above.	<= if statement in common class	if (V1) .. - produces V1 classes above. - implements V1 specific channels.	<= if statement in common class	if (V3) .. - produces V3 classes above.