

# ONVIF Profile Feature Overview v1.1

This table contains a summary of the features of the currently released ONVIF Profiles, for more details or in case of lack of clarity please refer to the Profile Specifications.

- [ONVIF Profile Q Specification](#) [July 2016]
- [ONVIF Profile A Specification - Release Candidate](#) v 1.2 [November 2016]
- [ONVIF Profile G specification](#) [June 2014]
- [ONVIF Profile C Specification](#) [December 2013]
- [ONVIF Profile S Specification](#) [December 2011 /March 2016 v1.1.1]

Function Lists use the following abbreviations:

- M: Mandatory
- C: Conditional
- O: Optional

Features		Profiles									
		G		Q		S		C		A*	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
<b>General</b>											
System settings		M	C	M	C	M	C	M	C	M	C
User authentication	WS-Username token					M	M				
	HTTP digest	M	M	M	M	O	M	M	M	M	M
User handling		M	C	M	M	M	C	M	C	M	M
Query services (functions) and service capabilities	GetServices	M	M	M	M	M	M	M	M	M	M
	GetCapabilities			M	M	M	M	M	M	M	M
Device discovery		M	C	M	M	M	C	M	C	M	M
Default Access Policy				M	M						
Network configuration		M	C	M	C	M	C	M	M	M	C
Firmware Upgrade				C	C						
Backup and Restore				C	C						
TLS Configuration				C	C						
IP Address Filtering						C	C			C	C
NTP						C	C			M	C
Automatic IP Assignment				C	C						
<b>Video</b>											
Streaming	MJPEG					M	M				
	MPEG4					C	C				
	H.264					C	C				
Video encoder configuration					M	M					
Media Profile Configuration					M	C					
Video Source Configuration					M	C					
Metadata Configuration					M	C					
Video streaming	RTSP/RTP					M	M				
Multicast streaming	RTSP initiation					C	C				
Zero configuration				C	C	C	C				
Recording Search		M	M								
Replay Control		M	M								
Recording Control		M	C								
Recording Control	Using an on-board media source	C	C								
	Using a Receiver as Source	C	C								
Recording Control - Dynamic Recording	Recording	C	C								

Features		Profiles									
		G		Q		S		C		A*	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
<b>Recording Control – Dynamic Tracks</b>	Tracks	C	C								
<b>Recording Source Configuration</b>		M	C								
<b>Events</b>											
<b>Event handling</b>	Pull-point	M	C	M	M	M	M	M	M	M	M
	Base-notification					M	M				
<b>Standard Monitoring Events for Devices</b>				M	C						
<b>Media profile for streaming ready out-of-the-box</b>						M	C				
<b>Media profile configuration</b>	Media Service					M	M				
<b>Access control events</b>	Door							M	M		
<b>External authorization Events</b>								C	C		
<b>Duress Events</b>								C	C		
<b>Access Profile Event</b>	Changes on Profile									M	M
<b>Credential Event</b>	Changes on Credential									M	M
<b>Schedule Event</b>	Changes on schedule									M	M
<b>Special Days Schedule Event</b>										C	C
<b>Reset Antipassback Violation Event</b>										C	C
<b>Stored Events</b>	Seek							C	C	C	C
<b>Audio</b>											
<b>Audio Streaming</b>	G.711					C	C				
	AAC					C	C				
	G726					C	C				
<b>Audio streaming</b>	RTSP/RTP					C	C				
<b>PTZ</b>											
<b>PTZ Function</b>						C	C				
<b>PTZ Move</b>	Absolute					C	C				
	Continuous					C	C				
	Relative					C	C				
<b>PTZ Presets</b>						C	C				
<b>PTZ – Home Position</b>						C	C				
<b>Additional</b>											
<b>Relay Outputs</b>						C	C				
<b>Auxiliary commands</b>						C	C				

Features		Profiles									
		G		Q		S		C		A*	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
<b>Recording</b>											
Recording Search		M	C								
Replay Control	Stream URI / Configuration	M	M								
Recording Control	Job	M	C								
Recording Control – Using an on-board media source		C	C								
Recording Control – Using a Receiver as Source		C	C								
Recording Control – Dynamic Recording		C	C								
Recording Control – Dynamic Tracks		C	C								
Recording Source Configuration		C	C								
<b>Access</b>											
Access Profiles										M	M
Credential										M	M
Schedule										M	M
System component information	Access points							M	M		
	Doors							M	M		
	Areas							M	M		
Component state	Access points							M	M		
	Doors							M	M		
	Areas							M	M		
Door control							M	M			
Access control decisions							M	M			
Configuration change notification	Access							C	C		
	Doors							C	C		
	Areas							C	C		
Access point control							C	C			
Reset Anti-Pass back Violation									C	C	
Special Days Schedule									C	C	
Persistent notification storage									C	C	

## Revision History

Version	Date	Description	
1.0	28. September 2016	ONVIF Profile Feature Overview v.1	André Eichhorn
1.1	10. February 2017	ONVIF logo updated, Profile A RCv1.2: NTP feature added, hyperlinks to specifications updated	Andreas Schneider