ONVIF Profile Feature Overview v1.1

This table contains a summary of the features of the currently released OVNIF 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		С		A* * Release Candidate	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
		Gen	eral								
System settings		М	С	М	С	М	С	М	С	М	С
User authentication	WS-Username token					М	М				
	HTTP digest	М	М	М	М	0	М	М	М	М	М
User handling		М	С	М	М	М	С	М	С	М	М
Query services (functions) and service	GetSerivces	М	М	М	М	М	М	М	М	М	М
capabilities	GetCapabilities			М	М	М	М	М	М	М	М
Device discovery		М	С	М	М	М	С	М	С	М	М
Default Access Policy				М	М						
Network configuration		М	С	М	С	М	С	М	М	М	С
Firmware Upgrade				С	С						
Backup and Restore				С	С						
TLS Configuration				С	С						
IP Address Filtering						С	С			С	С
NTP						С	С			М	С
Automatic IP Assignment				С	С						
		Vid	leo	<u>'</u>		<u>'</u>		'			
Streaming	MJPEG					М	М				
	MPEG4					С	С				
	H.264					С	С				
Video encoder configuration						М	М				
Media Profile Configuration						М	С				
Video Source Configuration						М	С				
Metadata Configuration						М	С				
Video streaming	RTSP/RTP					М	М				
Multicast streaming	RTSP initiation					С	С				
Zero configuration				С	С	С	С				
Recording Search		М	М								
Replay Control		М	М								
Recording Control		М	С								
Recording Control	Using an on-board media source	С	С								
	Using a Receiver as Source	С	С	0				/			
Recording Control - Dynamic Recording	Recording	С	С								

Features				Profiles									
Recording Control Dynamic Tracks	Features		G		Q		S		С				
Recording Source Configuration Part Pa			Device	Client	Device	Client	Device	Client	Device	Client			
Publication	Recording Control – Dynamic Tracks	Tracks	С	С									
Pulsaria	Recording Source Configuration		М	С									
Sandard Monitoring Events for Devices		<u>Events</u>											
Standard Monitoring Events for Devices Image: Control For Streaming ready Out-of-the-box Image: Control For Strea	Event handling	Pull-point	M	С	M	М	М	M	М	М	M	М	
Media profile for streaming ready out-of-the-box Regis perice Image: Control of the Profile profile configuration Media service Image: Control of the Profile profile profile configuration Media service Image: Control of the Profile p		Base-notification					М	М					
out-of-the-box color of the configuration color of the c	Standard Monitoring Events for Devices				М	С							
Media profile configuration Media Service Image: Configuration of the control of the	Media profile for streaming ready						М	С					
Access control events Door Image: Control events Image: Contr	out-of-the-box												
External authorization Events Companies Persisted Companies	Media profile configuration	Media Service					М	М					
Duries Events Changes on Profile Changes on Profile Changes on Profile Changes on Condential Changes on Condential Changes on Schedule Cha	Access control events	Door							М	М			
Access Profile Event Changes on Profile Image: Contential Event Image: Contential Even	External authorization Events								С	С			
Credential Event Changes on Credential Images on Schedule Images	Duress Events								С	С			
Schedule Event Changes on schedule Image on schedule	Access Profile Event	Changes on Profile									М	М	
Special Days Schedule Event Image: Control of Schedule E	Credential Event	Changes on Credential									М	М	
Reset Antipassback Violation Event Image: Reset Antipassback Violation Event E	Schedule Event	Changes on schedule									М	М	
Stored Events Seek Seek	Special Days Schedule Event										С	С	
Audio Streaming	Reset Antipassback Violation Event										С	С	
Audio Streaming 6.711 Image: Control of the properties of t	Stored Events	Seek							С	С	С	С	
Audio Streaming 6.711 Image: Control of the control of			Au	dio									
Madio streaming Mathematical Mathematica	Audio Streaming	G.711											
Audio streaming RTSP/RTP I I I I C C I		AAC					С	С					
PTZ Function		G726					С	С					
PTZ Function Image: Continuous of the properties of the prope	Audio streaming	RTSP/RTP					С	С					
PTZ Move Absolute Image: Continuous of the property o			P	ΓZ					'	ı			
PTZ Move Absolute Image: Continuous of the property o	PTZ Function						С	С					
Continuous Con		Absolute											
Relative Relative													
PTZ Presets PTZ - Home Position Additional Relay Outputs C C C													
PTZ - Home Position C C C S S S S S S S S S S S S S S S S	PTZ Presets												
Additional Relay Outputs C C C													
	Relay Outputs						С	С					
Auxiliary commands	Auxiliary commands	0			/		С	С					

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



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