ONVIF Profile Feature Overview v2.1

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 T Specification Release Candidate v1.4 [April 2018]
- ONVIF Profile A Specification [June 2017]
- ONVIF Profile Q Specification [July 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

		Profiles											
Features			G		2	5	5	T Release Candidate		С		A	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
		Ge	nera	ı									
System Settings		M	С	M	С	М	С	М	С	М	С	М	С
User Authentication	WS-Username Token					М	М						
	Digest Authentication	М	М	М	М	0	М	М	М	М	М	М	М
User Handling		М	С	М	М	М	С	М	С	М	С	М	М
Query Services and Capabilities		М	М	М	М	М	М	М	М	М	М	М	М
Device Discovery		М	С	М	М	М	С	М	М	М	С	М	М
Default Access Policy				М									
Network Configuration		М	С	М	С	М	С	М	М	М	М	М	С
Zero configuration				С	С	С	С						
Firmware Upgrade				С	С								
Backup and Restore				С	С								
TLS Configuration				С	С								
IP Address Filtering						С	С					С	С
NTP						С	С	С	С			М	С
Automatic IP Assignment				С	С								
Media Profile Configuration						М	С	М	С				
Media Transport	RTP/UDP					М	M ¹	М	M ¹				
	RTP/RTSP/HTTP/TCP					М	IVI	М	IVI				
	RTP/RTSP/HTTPS/TCP							С	С				
	RTP/RTSP/TCP/WebSocket							С	0				
	RTP/UDP Multicast					С	С	М	С				
		Vi	deo										
Video Streaming	мјред					М	М						
Tideo oticuling	MPEG4					C	C						
	H.264					С	С		М				
	H.265							M ²	M				
Video Encoder Configuration						M	М	М	M				
Video Source Configuration						M	C	M	C				

 $^{^{1}\,}$ Client must support at least one of UDP and HTTP

² Device must support at least one of H.264 and H.265

Features			3	Q		S		T Release Candidate		С		А	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
Video Video													
Media Profile for Streaming Ready						М	С	М	М				
out-of-the-box													
Video Source Mode								С	С				
Video Streaming	RTSP/RTP					М	М	М	М				
Imaging Settings								М	М				
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										
Recording Control - Dynamic	Recording	С	С										
Recording													
Recording Control – Dynamic	Tracks	С	С										
Tracks													
Recording Source Configuration		М	С										
		Ev	ents										
Event Handling	Pull-point	М	С	М	М	M	М	М	М	М	М	М	M
Event nanamig	Base-notification	141		141	141	M	M	141	141	141	141	141	141
Standard Monitoring Events for	base-notification			М	С	IVI	IVI						
Devices				IVI									
Media Profile Configuration								М	0				
Events								IVI					
Access Control Events	Door									M	М		
External Authorization Events	5001									C	C		
Duress Events										С	С		
Access Profile Event	Changes on Profile											М	N //
Credential Event	Changes on Profile Changes on Credential												M
												M	M
Schedule Event	Changes on schedule											M	M
Special Days Schedule Event												С	С
Reset Antipassback Violation												С	С
Event	Cook									_		_	_
Stored Events	Seek									С	С	С	С
Motion Alarm Events								M	M				
Motion Region Detector Events								С	С				
Tampering Event								M	М				

Features		(ŝ	Q		S		T Release Candidate		С		A	
	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	
Audio													
Audio Streaming	G.711					С	С	2	М				
	AAC					С	С	C ³	М				
	G726					С	С						
Audio Output Streaming	G.711							С	М				
	AAC							С	С				
Audio Encoder Configuration						С	С	С	С				
		F	PTZ										
PTZ Move	Absolute					С	С	С	М				
	Continuous					С	С	С	М				
	Relative					С	С						
PTZ Presets						С	С	С	С				
PTZ – Home Position						С	С	С	С				
PTZ Configuration						С	С	С	С				
		Add	ition	al									
Relay Outputs						С	С	С	С				
Auxiliary commands						С	С	С	С				
Focus Control								С	С				
Digital Inputs								С	С				
Configuration of On-Screen								М	С				
Display (OSD)													
JPEG Snapshot								М	0				
Motion Region Detector								С	С				
Configuration													
Metadata Configuration						М	С	M	С				
Metadata Streaming								М	С				

 $^{^{\}rm 3}$ If supported, Device must support at least one of G.711 and AAC

Features			3	Q		S		T Release Candidate		С		A	
		Device	Client	Device	Client	Device	Client	Device	Client	Device	Client	Device	Client
		Reco	ordir	ıg									
Recording Search		М	М										
Replay Control		М	М										
Recording Control	Using an on-board media source	С	С										
	Using a Receiver as Source	С	С										
	Dynamic Tracks	С	С										
Recording Source Configuration		М	С										
		Ac	cess										
Access Profiles												М	М
Credential												М	М
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. Sep. 2016	ONVIF Profile Feature Overview v.1	André Eichhorn
1.1	10. Feb. 2017	ONVIF logo updated, Profile A RCv1.2: NTP	Andreas Schneider
		feature added, hyperlinks to specifications	
		updated	
2.0	09. Sep. 2017	ONVIF Profile A v1.0 released,	Andrew Downs,
		Profile T RC v1.0 added,	André Eichhorn,
		overall review and consolidation of table for	Andreas Schneider,
		clarity	Fredrik Svensson,
			Nicolas Brochu,
			Hiroyuki Sano
2.1	10. Apr. 2018	Profile T (RC v1.4) updates:	Andrew Downs,
		Media Profile Configuration Events changed	Andreas Schneider,
		to Client Optional.	Fredrik Svensson
		Make Snapshot Client Optional.	
		Remove Audio Output Configuration.	
		Move Profile for Streaming Ready out-of-the-	
		box from Event to Video section.	
		Remove duplicate Zero Configuration entry.	