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**ONVIF<sup>™</sup>**  
**Profile A Specification**  
**RELEASE CANDIDATE**  
Version RC 1.2  
November 2016

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40 **REVISION HISTORY**

Vers.	Date	Description	Contributors
RC 1.0	2015-06-29	Release Candidate version 1.0	See Annex A
RC 1.1	2016-03-25	Release Candidate version 1.1: Additional mandatory Client requirements have been introduced and respective changes are done to the sections 6.3.4, 6.4.4, 6.5.4 and 7.2.4.	See Annex A
RC 1.2	2016-11-14	Release Candidate version 1.2 a) Editorial changes to section 6.6, Introduced general requirements section 6.6.1, b) Changes to client mandatory events handling section 6.5 c) Changes in section 6.10 User handling d) Changes in section 6.9 System on client requirements	See Annex A

41

42

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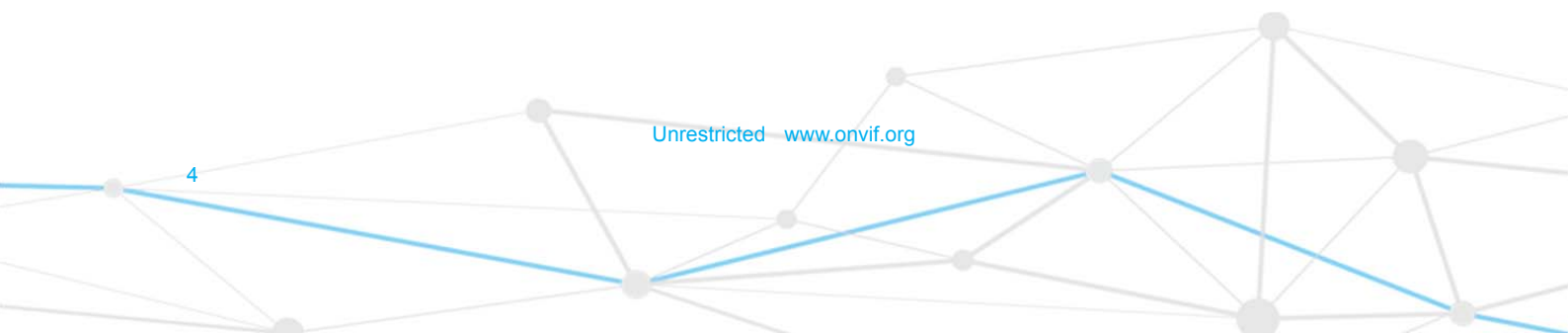
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## 72 1 Introduction

73 An ONVIF profile is described by a fixed set of functionalities through a number of services that are  
74 provided by the ONVIF standard. A number of services and functionalities are mandatory for each  
75 type of ONVIF profile. An ONVIF device and client may support any combination of profiles and  
76 other optional services and functionalities.

77 The profile will use the standard ONVIF framework for discovery, device management, general  
78 purpose I/O and events subscription.

### 79 1.1 Scope

80 This document defines the mandatory and conditional features required by either an ONVIF Device  
81 or an ONVIF Client that supports Profile A.

### 82 1.2 Normative references

- 83 • **ONVIF Profile Policy**

84 ONVIF Profile Policy version 2.0  
85 <http://www.onvif.org/Documents/Specifications.aspx>

- 86 • **ONVIF Network Interface Specification Set**

87 ONVIF Network Interface Specification Set version 2.6 or later.  
88 <http://www.onvif.org/Documents/Specifications.aspx>

- 89 • **Core Specification**

90 Part of [ONVIF Network Interface Specification Set]

- 91 • **Access Rules Service Specification**

92 Part of [ONVIF Network Interface Specification Set]

- 93 • **Credential Service Specification**

94 Part of [ONVIF Network Interface Specification Set]

- 95 • **Schedule Service Specification**

96 Part of [ONVIF Network Interface Specification Set]

## 97 2 Terms and Definitions

### 98 2.1 Conversions

99 The key words “shall”, “shall not”, “should”, “should not”, “may”, “need not”, “can”, “cannot” in this  
100 specification are to be interpreted as described in [ISO IEC Directives].

### 101 2.2 Definitions

<b>Profile</b>	See [ONVIF Profile Policy]
<b>ONVIF Device</b>	Networked appliance or software program that exposes one or multiple ONVIF Web Services
<b>ONVIF Client</b>	Networked appliance or software program that uses ONVIF Web Services
<b>Function</b>	Web Service call implemented to trigger some specific task or process on a product
<b>Feature</b>	Specified distinguishing characteristic or functionality of a product

102

## 103 3 Technical Specification Version Requirement

104 Implementation of [ONVIF Network Interface Specification Set] is required for conformance to  
105 Profile A.

106

## 107 4 Overview

108 An ONVIF profile is described by a fixed set of functionalities through a number of services that are  
109 provided by the ONVIF standard. A number of services and functionalities are mandatory for each  
110 type of ONVIF profile. ONVIF devices and clients may support any combination of profiles and  
111 other optional services and functionalities.

112 An ONVIF device compliant to Profile A is an ONVIF device that is a part of a Physical Access  
113 Control System (PACS). This device shall provide functionality to retrieve information, status and  
114 events and to configure the PACS related entities such as access rules, credentials and schedules.

115 An ONVIF client compliant to PACS Profile A can provide configurations of access rules,  
116 credentials and schedules. The client can also retrieve and receive standardized PACS related  
117 events.

## 118 5 Requirement Levels

119 Each feature in this document has a requirement level for Device and Client that claim  
120 conformance to Profile A and contains a Function List that states the functions requirement level for  
121 Device and Client that implement that feature.

122 The requirement levels for features are:

123 **Mandatory = Feature that shall be implemented by an ONVIF device or ONVIF client.**

124 **Conditional = Feature that shall be implemented by an ONVIF device or ONVIF client if**  
125 **it supports that functionality in any way, including any proprietary way. Features that**  
126 **are conditional are marked with “if supported” in the profile specification.**

127 The requirement levels for functions are:

128 **Mandatory = Function that shall be implemented by an ONVIF device or ONVIF client.**

129 **Conditional = Function that shall be implemented by an ONVIF device or ONVIF client**  
130 **if it supports that functionality.**

131 **Optional = Function that may be implemented by an ONVIF device or ONVIF client.**

132 Function Lists use the following abbreviations:

133 **M = Mandatory**

134 **O = Optional**

135 **C = Conditional**

136 All functions shall be implemented as described in corresponding ONVIF service specification  
137 document.

## 138 6 Profile Mandatory Features (normative)

139 The Profile Mandatory Features section lists the features that are guaranteed to be supported  
 140 between a device and client that are both conformant to the profile.

### 141 6.1 Security

#### 142 6.1.1 Authentication

- 143 • The device and client shall implement the HTTP digest authentication according to [RFC  
 144 2617] as described in [ONVIF Network Interface Specification Set].

### 145 6.2 Capabilities

- 146 • GetService is mandatory for both clients and devices.

#### 147 6.2.1 Device Requirements

- 148 • Devices shall support Services and Capabilities and WSDL URL operations as detailed in  
 149 the [Core Specification].
- 150 • Devices shall support providing pull points from the Events services.
- 151 • Devices shall support at least two pull points subscriptions from the Events services with  
 152 GetServiceCapabilities operation by returning MaxPullPoints set to at least two.

#### 153 6.2.2 Client Requirements

- 154 • Client shall determine the available Services using the GetServices operation.
- 155 • Client may determine specific Capabilities of different Services using GetServiceCapability  
 156 operation.
- 157 • Client may retrieve the WSDL using the GetWsdUrl operation.

#### 158 6.2.3 Capabilities Function List for Devices

Capabilities		Device MANDATORY	
Function	Service	Requirement	
GetServices	Device	M	
GetServiceCapabilities	Device	M	
GetWsdUrl	Device	M	
GetServiceCapabilities	Event	M	
GetServiceCapabilities	Access Rules	M	
GetServiceCapabilities	Credential	M	
GetServiceCapabilities	Schedule	M	

159



160 **6.2.4 Capabilities Function List for Clients**

Capabilities		Client MANDATORY	
Function	Service	Requirement	
GetServices	Device	M	
GetServiceCapabilities	Device	O	
GetWsdUrl	Device	O	
GetServiceCapabilities	Event	O	
GetServiceCapabilities	Access Rules	O	
GetServiceCapabilities	Credential	O	
GetServiceCapabilities	Schedule	O	

161

162 **6.3 Access Profiles**

- 163
- Listing of Access Profiles configured on the device.
- 164
- Functionality to configure access profiles.

165 **6.3.1 Device Requirements**

- 166
- Device shall be able to provide a list of access profiles configured in the system.
- 167
- Device shall provide the ability to configure access profiles.
- 168
- Device shall be able to notify about configuration events.

169 **6.3.2 Client Requirements**

- 170
- Client shall be able to request a list of configured access profiles from a device.
- 171
- Client offering functionality for configuring access profiles shall be able to configure access profiles in the device.
- 172
- Client shall be able to subscribe and receive configuration events.
- 173

174 **6.3.3 Access Profile Function List for Devices**

Access Profiles		Device MANDATORY	
Function	Service	Requirement	
GetAccessProfiles	Access Rules	M	
GetAccessProfileList	Access Rules	M	
GetAccessProfileInfo	Access Rules	M	
GetAccessProfileInfoList	Access Rules	M	
CreateAccessProfile	Access Rules	M	
ModifyAccessProfile	Access Rules	M	
DeleteAccessProfile	Access Rules	M	

175

176

177 **6.3.4 Access Profile Function List for Clients**

Access Profiles		Client MANDATORY	
Function	Service	Requirement	
GetAccessProfiles	Access Rules	C	
GetAccessProfileList	Access Rules	M*	
GetAccessProfileInfo	Access Rules	O	
GetAccessProfileInfoList	Access Rules	M*	
CreateAccessProfile	Access Rules	C	
ModifyAccessProfile	Access Rules	C	
DeleteAccessProfile	Access Rules	C	

178 \*Client shall implement either GetAccessProfileList or GetAccessProfileInfoList to get access  
 179 profiles from the device.

180 **6.3.5 Access Profile Event Topic List for Devices**

Access Profile Events		Device MANDATORY	
Function	Service	Requirement	
tns1:Configuration/AccessProfile/Changed	Event	M	
tns1:Configuration/AccessProfile/Removed	Event	M	

181

182 **6.3.6 Access Profile Event Topic List for Clients**

Access Profile Events		Client MANDATORY	
Function	Service	Requirement	
tns1:Configuration/AccessProfile/Changed	Event	M	
tns1:Configuration/AccessProfile/Removed	Event	M	

183

184 **6.4 Credentials**

- 185 • Listing of credentials configured on the device
- 186 • Functionality to configure credentials

187 **6.4.1 Device Requirements**

- 188 • Device shall provide the ability to list the credentials configured in the system
- 189 • Device shall provide the ability to configure the credentials in the system
- 190 • Device shall provide the state of a credential configured in the system
- 191 • Device shall provide the ability to enable / disable the credential in the system
- 192 • Device shall be able to notify about configuration and state events

193 **6.4.2 Client Requirements**

- 194 • Client shall be able to request a list of configured credentials from a device
- 195 • Client shall be able to configure credentials in the device
- 196 • Clients offering functionality for requesting credential state shall be able to request the state
- 197 of a credential configured in the device
- 198 • Clients offering functionality to enable / disable a credential shall be able to enable / disable
- 199 the credential in the device
- 200 • Client shall be able to subscribe and receive configuration and state events

201 **6.4.3 Credential Function List for Devices**

<b>Credentials</b>		<b>Device MANDATORY</b>	
<b>Function</b>	<b>Service</b>	<b>Requirement</b>	
GetCredentials	Credential	M	
GetCredentialList	Credential	M	
GetCredentialInfo	Credential	M	
GetCredentialInfoList	Credential	M	
CreateCredential	Credential	M	
ModifyCredential	Credential	M	
DeleteCredential	Credential	M	
GetCredentialAccessProfiles	Credential	M	
SetCredentialAccessProfiles	Credential	M	
DeleteCredentialAccessProfiles	Credential	M	
GetCredentialIdentifiers	Credential	M	
SetCredentialIdentifier	Credential	M	
DeleteCredentialIdentifier	Credential	M	
EnableCredential	Credential	M	
DisableCredential	Credential	M	
GetCredentialState	Credential	M	
GetSupportedFormatTypes	Credential	M	

202

203

204 **6.4.4 Credential Function List for Clients**

Credentials		Client MANDATORY	
Function	Service	Requirement	
GetCredentials	Credential	M	
GetCredentialList	Credential	M*	
GetCredentialInfo	Credential	O	
GetCredentialInfoList	Credential	M*	
CreateCredential	Credential	M	
ModifyCredential	Credential	M	
DeleteCredential	Credential	M	
GetCredentialAccessProfiles	Credential	O	
SetCredentialAccessProfiles	Credential	O	
DeleteCredentialAccessProfiles	Credential	O	
GetCredentialIdentifiers	Credential	O	
SetCredentialIdentifier	Credential	O	
DeleteCredentialIdentifier	Credential	O	
EnableCredential	Credential	C	
DisableCredential	Credential	C	
GetCredentialState	Credential	C	
GetSupportedFormatTypes	Credential	M	

205 \*Client shall implement either GetCredentialList or GetCredentialInfoList to get credentials from the  
 206 device.

207

208 **6.4.5 Credential Event Topic List for Devices**

Credential Events		Device MANDATORY	
Function	Service	Requirement	
tns1:Configuration/Credential/Changed	Event	M	
tns1:Configuration/Credential/Removed	Event	M	
tns1:Credential/State/Enabled	Event	M	

209

210 **6.4.6 Credential Event Topic List for Clients**

Credential Events		Client MANDATORY	
Function	Service	Requirement	
tns1:Configuration/Credential/Changed	Event	M	
tns1:Configuration/Credential/Removed	Event	M	
tns1:Credential/State/Enabled	Event	M	

211

212 **6.5 Schedules**

- 213 • Listing of schedules configured on the device
- 214 • Functionality to configure the schedules

215 **6.5.1 Device Requirements**

- 216 • Device shall provide the ability to list the schedules configured
- 217 • Device shall provide the ability to configure the schedules
- 218 • Device with StateReportingSupported capability set to true shall be able to provide the
- 219 state and notify events of a schedule

220 **6.5.2 Client Requirements**

- 221 • Client shall be able to request a list of configured schedules
- 222 • Client offering functionality to configure schedules shall be able to configure the schedules
- 223 in the device
- 224 • Client with StateReportingSupported capability set to true shall be able to get the state of a
- 225 schedule in the device

226 **6.5.3 Schedule Function List for Devices**

Schedules		Device MANDATORY	
Function	Service	Requirement	
GetSchedules	Schedule	M	
GetScheduleList	Schedule	M	
GetScheduleInfo	Schedule	M	
GetScheduleInfoList	Schedule	M	
CreateSchedule	Schedule	M	
ModifySchedule	Schedule	M	
DeleteSchedule	Schedule	M	
GetScheduleState	Schedule	C	

227

228 **6.5.4 Schedule Function List for Clients**

Schedules		Client MANDATORY	
Function	Service	Requirement	
GetSchedules	Schedule	C	
GetScheduleList	Schedule	M*	
GetScheduleInfo	Schedule	O	
GetScheduleInfoList	Schedule	M*	
CreateSchedule	Schedule	C	
ModifySchedule	Schedule	C	
DeleteSchedule	Schedule	C	
GetScheduleState	Schedule	C	

229 \*Client shall implement either GetScheduleList or GetScheduleInfoList to get schedules from the  
 230 device.

231

232 **6.5.5 Schedule Event Topic List for Devices**

Schedule Events		Device MANDATORY	
Function	Service	Requirement	
tns1:Configuration/Schedule/Changed	Event	M	
tns1:Configuration/ Schedule /Removed	Event	M	
tns1:Schedule/State/Active	Event	C	

233

234 **6.5.6 Schedule Event Topic List for Clients**

Schedule Events		Client MANDATORY	
Function	Service	Requirement	
tns1:Configuration/Schedule/Changed	Event	M	
tns1:Configuration/ Schedule /Removed	Event	M	
tns1:Schedule/State/Active	Event	C	

235

236 **6.6 Event handling**

- 237 • Retrieving and filtering of events from a device

238 **6.6.1 General Requirements**

- 239 • The Real-time Pull-Point Notification Interface described in [ONVIF Network Interface  
 240 Specification Set] is Mandatory for Profile A conformance. The Base Notification Interface  
 241 of the WS-BaseNotification as described in [ONVIF Network Interface Specification Set] is  
 242 not Mandatory for Profile A conformance.

243

244 **6.6.2 Device Requirements**

- 245 • Device shall support pull point operations as described by the Event Service
- 246 • A device shall support at least two concurrent pull point subscriptions
- 247 • Device shall be able to provide information about what filter dialects and what topics are  
 248 supported by the device using the GetEventProperties operation
- 249 • Device shall provide support for topic filters so that a client can select which events to  
 250 retrieve using TopicFilter

251 **6.6.3 Client Requirements**

252 Client shall implement event handling with a pull point using the CreatePullPointSubscription and  
 253 PullMessage operations if any of the specific events described in this specification are supported.

254

255 **6.6.4 Event Handling Function List for Devices**

Event Handling		Device MANDATORY	
Function	Service	Requirement	
SetSynchronizationPoint	Event	M	
CreatePullPointSubscription	Event	M	
PullMessage	Event	M	
Renew	Event	M	
Unsubscribe	Event	M	
GetEventProperties	Event	M	
TopicFilter parameter of CreatePullPointSubscriptionRequest	Event	M	

256

257 **6.6.5 Event Handling Function List for Clients**

Event Handling		Client MANDATORY	
Function	Service	Requirement	
SetSynchronizationPoint	Event	O	
CreatePullPointSubscription	Event	M	
PullMessage	Event	M	
Renew	Event	O	
Unsubscribe	Event	O	
GetEventProperties	Event	O	
TopicFilter parameter of CreatePullPointSubscriptionRequest	Event	O	

258 .

259 **6.7 Discovery**

- 260 • Discovery of a device on the network
- 261 • Setting of discovery mode
- 262 • Listing, adding, modifying and removing of discovery scopes

263 **6.7.1 Device requirements**

- 264 • WS-Discovery as covered by the [Core Specification]
- 265 • Discovery configuration and scope operations as covered by the Device service
- 266 • The specific scope parameter is listed in section 6.7.5

267 **6.7.2 Client requirements**

- 268     • Client shall be able to discover a device using WS-Discovery as specified in the [Core  
269         Specification]

270 **6.7.3 Discovery Function List for Devices**

Discovery		Device MANDATORY	
Function	Service	Requirement	
WS-Discovery	Core	M	
GetDiscoveryMode	Device	M	
SetDiscoveryMode	Device	M	
GetScopes	Device	M	
SetScopes	Device	M	
AddScopes	Device	M	
RemoveScopes	Device	M	

271

272 **6.7.4 Discovery Function List for Clients**

Discovery		Client MANDATORY	
Function	Service	Requirement	
WS-Discovery	Core	M	
GetDiscoveryMode	Device	O	
SetDiscoveryMode	Device	O	
GetScopes	Device	O	
SetScopes	Device	O	
AddScopes	Device	O	
RemoveScopes	Device	O	

273 **6.7.5 Scope Parameters**

Category	Defined values	Description
Profile	A	The scope indicates if the device is compliant to the Profile A. The device compliant to the Profile A shall include a scope entry with this value in its scope list.

274

275 **6.8 Network Configuration**

- 276     • Configuration of network settings on the device

277 **6.8.1 Device requirements**

- 278     • Hostname, DNS, network interface, network protocol and network default gateway  
279         operations as covered by the device service



280 **6.8.2 Client requirements (if supported)**

- 281     • Client shall be able to list and configure the device network interface using the  
282         GetNetworkInterfaces and SetNetworkInterfaces operations.
- 283     • Client shall be able to list and set the default gateway of the device using the  
284         GetNetworkDefaultGateway and SetNetworkDefaultGateway operations.

285 **6.8.3 Network Configuration Function List for Devices**

Network Configuration		Device MANDATORY	
Function	Service	Requirement	
GetHostname	Device	M	
SetHostname	Device	M	
GetDNS	Device	M	
SetDNS	Device	M	
GetNetworkInterfaces	Device	M	
SetNetworkInterfaces	Device	M	
GetNetworkProtocols	Device	M	
SetNetworkProtocols	Device	M	
GetNetworkDefaultGateway	Device	M	
SetNetworkDefaultGateway	Device	M	

286

287 **6.8.4 Network Configuration Function List for Clients**

Network Configuration		Client CONDITIONAL	
Function	Service	Requirement	
GetHostname	Device	O	
SetHostname	Device	O	
GetDNS	Device	O	
SetDNS	Device	O	
GetNetworkInterfaces	Device	M	
SetNetworkInterfaces	Device	M	
GetNetworkProtocols	Device	O	
SetNetworkProtocols	Device	O	
GetNetworkDefaultGateway	Device	M	
SetNetworkDefaultGateway	Device	M	

288

289 **6.9 System**

- 290     • Configuration of system settings
- 291     • Device information
- 292     • Synchronization of time using manual methods or NTP servers

293 **6.9.1 Device requirements**

- 294     • Device shall support get information, date and time, NTP, factory defaults and reboot

295 operations as covered by the device service

296 **6.9.2 Client requirements (if supported)**

- 297 • Client shall be able to get device information such as manufacturer, model and firmware
- 298 version using the GetDeviceInformation operation
- 299 • Client shall be able to get the time of the device using the GetSystemDateAndTime
- 300 operation
- 301 • Client shall be able to configure time of the device using either SetNTP or
- 302 SetSystemDateAndTime operations
- 303 • A Client that supports SetNTP shall also support GetNTP

304 **6.9.3 System Function List for Devices**

System		Device MANDATORY	
Function	Service	Requirement	
GetDeviceInformation	Device	M	
GetSystemDateAndTime	Device	M	
SetSystemDateAndTime	Device	M	
GetNTP	Device	M	
SetNTP	Device	M	
SetSystemFactoryDefault	Device	M	
Reboot	Device	M	

305

306 **6.9.4 System Function List for Clients**

System		Client CONDITIONAL	
Function	Service	Requirement	
GetDeviceInformation	Device	M	
GetSystemDateAndTime	Device	M	
SetSystemDateAndTime	Device	C	
GetNTP	Device	C	
SetNTP	Device	C	
SetSystemFactoryDefault	Device	O	
Reboot	Device	O	

307

308 **6.10 User handling**

- 309 • Manage users on the device

310 **6.10.1 Device requirements**

- 311 • Device shall support user handling operations as covered by the device service
- 312 • Device shall signal the maximum number of users supported via its capabilities

313 **6.10.2 Client requirements**

- 314     • Client shall be able to create, list, modify and delete users from the device using the  
 315         CreateUsers, GetUsers, SetUsers and DeleteUsers operations

316 **6.10.3 User Handling Function List for Devices**

User Handling		Device MANDATORY	
Function	Service	Requirement	
GetUsers	Device	M	
CreateUsers	Device	M	
DeleteUsers	Device	M	
SetUser	Device	M	

317

318 **6.10.4 User Handling Function List for Clients**

User Handling		Client MANDATORY	
Function	Service	Requirement	
GetUsers	Device	M	
CreateUsers	Device	M	
DeleteUsers	Device	M	
SetUser	Device	M	

319

## 320 7 Profile Conditional Features (normative)

321 The Profile Conditional Features section list the features that shall be implemented if the device or  
 322 client supports the feature. The requirements represent the minimum required to be implemented  
 323 for conformance.

### 324 7.1 Reset Antipassback Violations (if supported)

- 325 • To reset the antipassback violation of a credential

#### 326 7.1.1 Device requirements (if supported)

- 327 • Device shall provide the ability to reset the antipassback violation of a credential
- 328 • Device shall be able to notify about antipassback violation

#### 329 7.1.2 Client requirements (if supported)

- 330 • Client shall be able to reset the antipassback violation of a credential
- 331 • Client shall be able to subscribe and receive antipassback violation

#### 332 7.1.3 Reset Antipassback Violation Function List for Devices

Reset Antipassback Violation		Device <b>CONDITIONAL</b>	
Function	Service	Requirement	
ResetAntipassbackViolation	Credential	M	

333

#### 334 7.1.4 Reset Antipassback Violation Function List for Clients

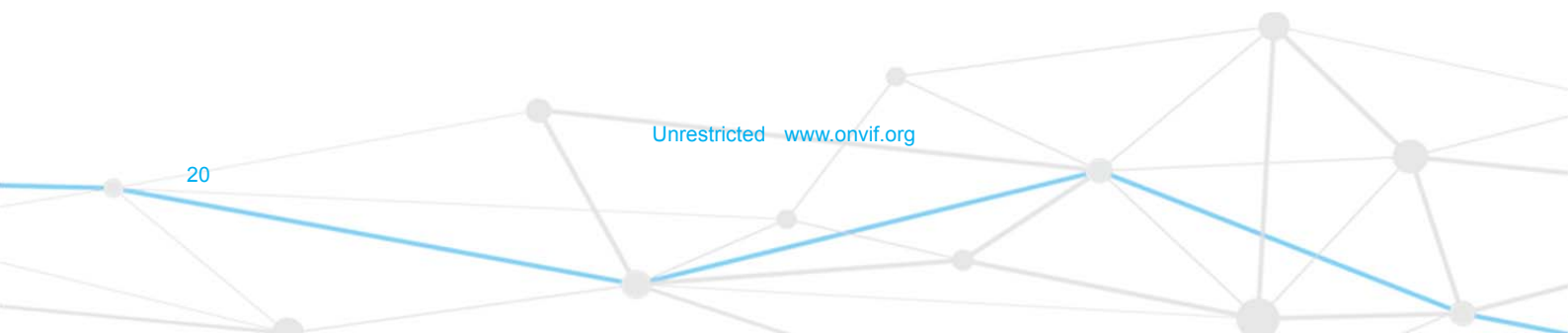
Reset Antipassback Violation		Client <b>CONDITIONAL</b>	
Function	Service	Requirement	
ResetAntipassbackViolation	Credential	M	

335

#### 336 7.1.5 Reset Antipassback Violation Event Topic List for Devices

Reset Antipassback Violation Events		Device <b>CONDITIONAL</b>	
Function	Service	Requirement	
tns1:Credential/State/ApiViolation	Event	M	

337



338 **7.1.6 Reset Antipassback Violation Event Topic List for Clients**

Reset Antipassback Violation Events		Client <b>CONDITIONAL</b>	
Function	Service	Requirement	
tns1:Credential/State/ApbViolation	Event	M	

339

340 **7.2 Special Days Schedule (if supported)**

- 341 • Listing of special day schedules configured on the device
- 342 • Functionality to configure special day schedules

343 **7.2.1 Device requirements (if supported)**

- 344 • Device shall provide the ability to list the special day schedules
- 345 • Device shall provide the ability to configure the special day schedules
- 346 • Device shall be able to notify about configuration events

347 **7.2.2 Client requirements (if supported)**

- 348 • Client shall be able to request a list of special day schedules from a device
- 349 • Client shall be able to configure the special day schedules to the device
- 350 • Client shall be able to subscribe and receive configuration events

351 **7.2.3 Special Days Schedule Function List for Devices**

Special Day Schedules		Device <b>CONDITIONAL</b>	
Function	Service	Requirement	
GetSpecialDayGroups	Schedule	M	
GetSpecialDayGroupList	Schedule	M	
GetSpecialDayGroupInfo	Schedule	M	
GetSpecialDayGroupInfoList	Schedule	M	
CreateSpecialDayGroup	Schedule	M	
ModifySpecialDayGroup	Schedule	M	
DeleteSpecialDayGroup	Schedule	M	

352

353 **7.2.4 Special Days Schedule Function List for Clients**

Special Day Schedules		Client CONDITIONAL	
Function	Service	Requirement	
GetSpecialDayGroups	Schedule	M	
GetSpecialDayGroupList	Schedule	M*	
GetSpecialDayGroupInfo	Schedule	O	
GetSpecialDayGroupInfoList	Schedule	M*	
CreateSpecialDayGroup	Schedule	M	
ModifySpecialDayGroup	Schedule	M	
DeleteSpecialDayGroup	Schedule	M	

354 \*Client shall implement either GetSpecialDayGroupList or GetSpecialDayGroupInfoList to get  
 355 special days from the device.

356

357 **7.2.5 Special Days Schedule Event Topic List for Devices**

Special Day Schedule Events		Device CONDITIONAL	
Function	Service	Requirement	
tns1:Configuration/SpecialDays/Changed	Event	M	
tns1:Configuration/SpecialDays/Removed	Event	M	

358

359 **7.2.6 Special Days Schedule Event Topic List for Clients**

Special Day Schedule Events		Client CONDITIONAL	
Function	Service	Requirement	
tns1:Configuration/SpecialDays/Changed	Event	M	
tns1:Configuration/SpecialDays/Removed	Event	M	

360

361 **7.3 Persistent notification storage (if supported)**

- 362 • Storing events on device.

363 **7.3.1 Device requirements (if supported)**

- 364 • Device that supports persistent notification storage shall provide the possibility to send  
 365 stored events to the client.

366 **7.3.2 Client requirements (if supported)**

- 367 • Client that supports persistent notification storage shall provide the possibility to seek  
 368 stored events in a device.

369 **7.3.3 Stored Events Function List for Devices**

Stored Events		Device CONDITIONAL	
Function	Service	Requirement	
Seek	Event	M	

370

371 **7.3.4 Stored Events Function List for Clients**

Stored Events		Client CONDITIONAL	
Function	Service	Requirement	
Seek	Event	M	

372

373 **7.4 IP Address Filtering (if supported)**

- 374
  - Configuration of IP Address Filters.

375 **7.4.1 Device requirements (if supported)**

- 376
  - Device shall return Device->Network->IPFilter capability set to “true” in GetCapabilities response.
- 377
- 378
  - IP Address Filter operations as covered by the device service.

379 **7.4.2 Client requirements (if supported)**

- 380
  - Client shall be able to configure, add and remove IP Address Filters on device using GetIPAddressFilter, SetIPAddressFilter, AddIPAddressFilter and RemoveIPAddressFilter operations.
- 381
- 382

383 **7.4.3 IP Address Filtering Function List for Devices**

IP Address Filtering		Device CONDITIONAL	
Function	Service	Requirement	
GetIPAddressFilter	Device	M	
SetIPAddressFilter	Device	M	
AddIPAddressFilter	Device	M	
RemoveIPAddressFilter	Device	M	

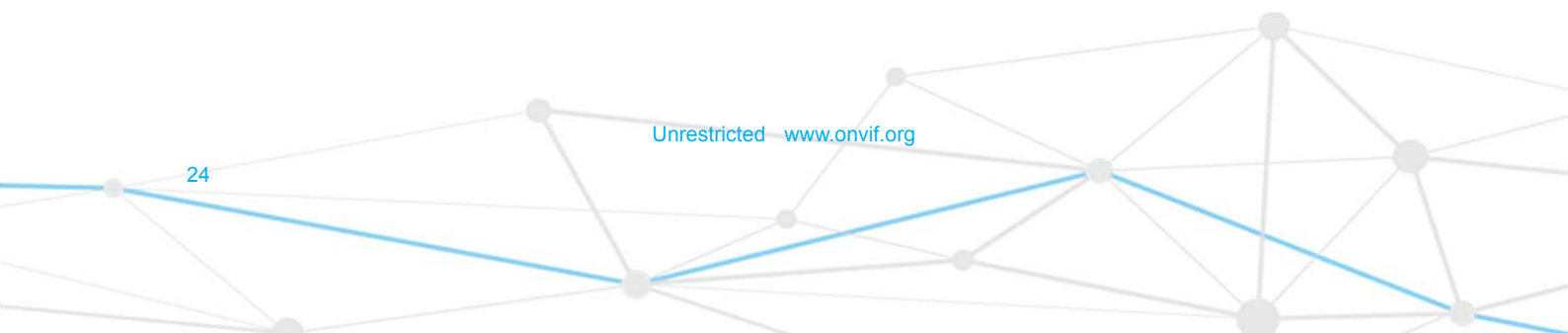
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385

386 7.4.4 IP Address Filtering Function List for Clients

IP Address Filtering		Client <b>CONDITIONAL</b>	
Function	Service	Requirement	
GetIPAddressFilter	Device	M	
SetIPAddressFilter	Device	M	
AddIPAddressFilter	Device	M	
RemoveIPAddressFilter	Device	M	

387





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# Annex A

389

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