

| Title: | New Secure Activation Process for IP Cameras | | | | | | | |
|------------------|--|----------|-----|--------|--------|--|--|--|
| Date: | 05/05/2015 | Version: | 1.0 | Pages: | 1 of 9 | | | |
| Product: | All Hikvision IP Cameras | | | | | | | |
| Action Required: | None, information only | | | | | | | |

Summary

To ensure the highest level of protection, Hikvision has launched a new secure login procedure that requires users to create a new admin account password upon the first login to all devices. The password must contain 8 to 16 characters, combining numbers, lowercase letters, uppercase letters, and special characters. At least two types of the above-mentioned characters are required to activate the device. Passwords of inadequate strength will not be accepted.

Procedure

Cameras starting with firmware v5.3.0 *WILL NO LONGER HAVE A DEFAULT PASSWORD*. The user must activate the camera by creating a password for the ADMIN account, which can be done in one of three ways:

- SADP Software Activation (v2.xxxx or higher)
 - 1. Launch the new version of the SADP software (v2.2.3.5). The software will display all Hikvision devices on the network. A new field called "Security" will display whether the camera is active or not (Figure 1).
 - 2. If the camera is "Inactive," highlight the camera and enter a new password into the "New Password" field on the bottom right of the screen (Figure 2). The password strength will be displayed, accompanied by a color indicator (red indicates inadequate strength; green indicates adequate strength. Bar length indicates strength magnitude). Activation will not be allowed unless the password is of adequate strength (Figure 3).
 - 3. Retype the password into the "Confirm Password" field.
 - 4. After the password has been entered and confirmed, press the **OK** button. A confirmation window will appear (**Figure 4**).



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| 0 | | | | | SADP | | | | - - > |
|-------------------------|---|--|--|------------------------------|---|---|--|--|--------------|
| 2 | Online Devices | 🕡 Help | | | | | | | |
| Q | Total number of onli | ne devices: 3 | | | Save as Exc | el 🕼 Refresh | Modify Network Para | meters | |
| ID 001 002 003 | Device Type DS-2CD4A35F DS-7608NI-SE/ DS-6704HFI | IPv4 Address 192.168.1.64 10.102.102.210 10.102.102.209 | Security Inactive Active Active | Port 8000 8000 8000 | Software Version V5.3.0build 150417 V2.3.10build 141128 V1.2.0build 140414 | IPv4 Gateway 192.168.1.1 10.102.102.1 10.102.102.1 | IP Address: Port Subnet Mask: IPv4 Gateway: IPv6 Address: IPv6 Gateway: | 192.168.1.6 8000 255.255.25 192.168.1.1 :: | 5.0 I |
| | | | | | | | IPv6 Prefix Length: HTTP Port: Device Serial No.: Enable DHCP | 0 80 DS-2CD4A | 35FWD-IZHS20 |
| | | | | | | | Password Device Activation New Password: Confirm Password: | | Save |
| 4 | | | | | | | | | ОК |

Figure 1 Security Field

| | Online Devices | 👔 Help | | | SADP | | | × | |
|------------------------------|--|--|--|------------------------------|--|--|--|--|---|
| © 10 001 002 003 | Total number of onl Device Type DS-2CD4A35F DS-7608NI-SEI DS-6704HFI | IPV4 Address 3 192.168.1.64 10.102.102.210 10.102.102.209 | Security Inactive Active Active | Port 8000 8000 8000 | Save as Exc Software Version V5.3.0build 150417 V2.3.10build 141128 V1.2.0build 140414 | e @ Refresh IPv4 Gateway 192.168.1.1 10.102.102.1 10.102.102.1 | Modify Network Par IP Address: Port: Subnet Mask: IPv6 Address: IPv6 Address: IPv6 Address: IPv6 Gateway: IPv6 Prefix Length: HTTP Port: Device Serial No: Enable DHCP Password Device Addvation New Password: Weak Confirm Password | ameters 192 168.1.54 8000 255 255 255 0 192 168.1.1 800 DS-2CD4A35FWD-IZH520 Save OK | NOTE: The password strength is shown with a color indicator. |

Figure 2 Password Field



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| Action Required: | None, information only | | | | | | | |

| Q. | | | | | SADP | | | - • × |
|----------|---------------------|----------------|----------|------|---------------------|--------------|---------------------|----------------------|
| <u>_</u> | Online Devices | 🕡 Help | | | | | | |
| Q | Total number of onl | ine devices: 4 | | | Save as Exce | el 🗶 Refresh | Modify Network Para | ameters |
| ID | Device Type | IPv4 Address | Security | Port | Software Version | IPv4 Gateway | IP Address: | 192.168.1.64 |
| 001 | DS-2CD4A35F | 192.168.1.64 | Inactive | 8000 | V5.3.0build 150417 | 192.168.1.1 | Port | 8000 |
| 002 | DS-2CD2132F-I | 192.168.1.64 | Active | 8000 | V5.3.0build 150327 | 192.168.1.1 | Subnet Mask: | 255.255.255.0 |
| 003 | DS-6704HFI | 10.102.102.209 | Active | 8000 | V1.2.0build 140414 | 10.102.102.1 | IPv4 Gateway: | 192.168.1.1 |
| 004 | DS-7608NI-SE/ | 10.102.102.210 | Active | 8000 | V2.3.10build 141128 | 10.102.102.1 | IPv6 Address: | |
| | | | | | | | IPv6 Gateway: | |
| | | | | | | | IPv6 Prefix Length: | 0 |
| | | | | | | | HTTP Port | 80 |
| | | | | | | | Device Serial No.: | DS-2CD4A35FWD-IZHS20 |
| | | | | | | | | |
| | | | | | | | Enable DHCP | |
| | | | | | | | Password | Save |
| | | | | | | | | |
| | | | | | | | Device Activation | |
| | | | | | | | New Password: | |
| | | | | | | | Strong | |
| | | | | | | | Confirm Fussword: | |
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Figure 3 Password Strength Bar

| | | | | | SADP | | | - • × |
|-----|---------------------|----------------|----------|------------|---------------------|--------------|---------------------|----------------------|
| 0. | Online Devices | 🕡 Help | | | | | | |
| Q | Total number of onl | ine devices: 3 | | | B Save as Exc | el 🕼 Refresh | Modify Network Para | meters |
| D | Device Type | IPv4 Address | Security | Port | Software Version | IPv4 Gateway | IP Address: | 192.168.1.64 |
| 1 | DS-2CD4A35F | 192.168.1.64 | Active | 8000 | V5.3.0build 150417 | 192.168.1.1 | Port | 8000 |
| 02 | DS-7608NI-SE/ | 10.102.102.210 | Active | 8000 | V2.3.10build 141128 | 10.102.102.1 | Subnet Mask: | 255.255.255.0 |
| 03 | DS-6704HFI | 10.102.102.209 | Active | 8000 | V1.2.0build 140414 | 10 102 102 1 | IPv4 Gateway: | 192.168.1.1 |
| | | | | | Hint | × | IF 6 Address: | |
| | | | | | | | IF 6 Gateway: | |
| | | | | | | | IF 6 Prefix Length: | 0 |
| | | | | | | | H TP Port | 80 |
| | | | I | The device | is activated.ID:001 | | D vice Serial No.: | DS-2CD4A35FWD-IZHS20 |
| | | | | | | | Enable DHCP | |
| | | | | | | | ► Fassword | Save |
| | | | Ľ | | | _ | | |
| | | | | | | | D vice Activation | |
| | | | | | | | w Password: | •••••• |
| | | | | | | | Strong | |
| | | | | | | | Confirm Password: | •••••• |
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Figure 4 Confirmation Window



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| Action Required: | None, information only | | | | | | | |

iVMS-4200 Client Software (v2.3.3.5 or higher) Activation

- 1. Launch the iVMS-4200 software.
- Go to Control Panel→Device Management (Figure 5). On the bottom of the screen in the Online Devices portion the screen will display all Hikvision devices on the network. A new field called "Security" will display whether the camera is active or not (Figure 6).
- 3. If the camera is "Inactive," highlight the camera and press the **Activate** button (Figure 6) to display the "Activation" window.
- 4. Enter a new password into the "New Password" field (Figure 7). The password strength will be displayed, accompanied by a color indicator (red indicates inadequate strength; green indicates adequate strength. Bar length indicates strength magnitude). Activation will not be allowed unless the password is of adequate strength (Figure 8).
- 5. Retype the password into the "Confirm Password" field.
- 6. After the password has been entered and confirmed, press the **OK** button. The camera's status will change to "Active" (Figure 9).



Figure 5 iVMS 4200 Control Panel



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| Action Required: | None, information only | | | | | | | |

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|--|---|--|---|---|---|
| vice Management | | | | | |
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| Device for Management (0) | | | | | |
| 🕂 Add Device 🛛 Modify 🗙 | Delete 🗍 🏶 Remote Co 🏐 VCA. | Allocation 🎬 QR Code 🔮 A | tivate 💽 😯 Refresh All | Filter | |
| Nickname 🔺 IP | Device Serial No. | Security | Resource Usa HI | DD Statu | |
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| Online Device (3) | Refresh Every 15s | | | * | Camera Status |
| Contine Device (3) | Refresh Every 15s | | | * | Camera Status Inactive |
| Online Device (3) Add to Client Add All | € Refresh Every 15s | vord 🗣 Activate | Filter | • | Camera Status Inactive |
| Online Device (3) Add to Client Add All IP Device Type | Refresh Every 15s Modify NetInfo Reset Passw Firmware Version | vord Activate Security Server Port | Filter | * Ac | Camera Status Inactive |
| Online Device (3) Add to Client Add All IP Device Type 192-168.1.64 DS-2CD4A35FN | Refresh Every 15s Modify NetInfo Reset Passw Firmware Version WD-I2HS V5.3.0build 150417 | vord Activate Security Server Port Inactive Studio | Filter Birt Time 2015-05-09 04:37:28 | , Ac Nc | Camera Status Inactive |
| Online Device (3) Add to Client Add All IP Pevice Type 192.168.164 DS-2CD4A35F1 10.102.102.209 DS-6704HF1 | Refresh Every 15s Modify NetInfo Reset Passw Firmware Version WD-IZHS V5.3.0build 150417 V1.2.0build 140414 | vord Activate Security Server Port Inactive 8000 | Filter Birt Time 2015-05-09 04:37:28 2015-05-05 10:25:01 | , ac Ac Nc Nc | Camera Status Inactive |
| | Device for Management (0) Add Device Modify M Nickname A IP | Device for Management (0) Add Device Modify Celete Remote Co VCA. Nickname IP Device Serial No. | Device for Management (0) Add Device I Modify & Delete Remote Co VCA Allocation I OR Code Adv Nickname A IP Device Serial No. Security | Device for Management (0) Add Device 🖸 Modify 💥 Delete 🔷 Remote Co 🗢 VCA Allocation 🗟 OR Code 🔮 Activate 💽 Refresh All [Nickname 🔺 IP Device Serial No. Security Resource Usa HD | Device for Management (0) Add Device Modify X Delete Remote Co VCA Allocation R GR Code Advate Refresh All Filter Nickname A IP Device Serial No. Security Resource Usa HDD Statu |

Figure 6 Inactive Camera Status

| e System View Tool Help | 💩 iVMS-4200 | admin 🏵 🖼 🔠 13:48:32 🔒 🗕 🗖 🗙 | |
|--|--|--|--|
| Control Panel 💆 D | evice Management | | |
| Server 🗃 Group | | | |
| Organization | Device for Management (0) | | |
| Encoding Device | | 🚓 Gree ode 🍵 Activate 📀 Refresh All Filter | |
| 🕂 Add New Device Type | lickna Activation > | ecurity Resource Usa HDD Statu | |
| | User Name: admin Password: Valid password range (8-16). You can use a combination of numbers, lowercase, uppercase and special character for your password with at least | | |
| | Confirm Password: | | NOTE: The password strength is shown with a color indicator |
| | Online Device (3) Children Every 15s | Activate Either | |
| | IP IP IP IP IP IP IP IP | Server Port Start Time Ac | |
| | 10.102.102.210 DS-7608NI-SE/8P V2.3.10build 141128 Active | 8000 2015-04-09 09:00:59 Nc | |
| Encoding device: DVR/DVS/NVR/IPC/IPD/ iVMS-4200 PCNVR/iVMS-4200 EncodeCard | 10.102.102.209 DS-6704HFI V1.2.0build 140414 Active | 8000 2015-05-05 10:25:01 No | |
| server | | | |

Figure 7 Activation Window with Inadequate Password Strength



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| Action Required: | None, information only | | | | | | | |

| System View Tool Help | | ivms-4200 | | admin 🕀 | 13:49:21 | |
|---|---------------------------|---|--------------------|---------------|------------------------|--------|
| Control Panel 🚽 D | evice Management | | | | | |
| Server 🗃 Group | | | | | | |
| Organization | Device for Management (0) | | | | | |
| Encoding Device | 🕂 Add Device 🖸 Modif | y 🗶 Delete 🛛 🌣 Remote Co 🕥 | VCA Allocation 上版(| QR Code 🔮 Ac | tivate 🛛 📀 Refresh All | Filter |
| + Add New Device Type | Nickna | Activation | × | Security | Resource Usa | HDD SI |
| | User Name: | admin | | | | |
| | Password: | | | | | |
| | | | Strong | | | |
| | | Valid password range [8-16]. You can use a combination of numbers, | | | | |
| | | lowercase, uppercase and special character for your password with at lea | st | | | |
| | | two kinds of them contained. | - | | | |
| | Confirm Password | | | | | |
| | | ОК | Cancel | | | |
| | | | | | | |
| | · (| | | | | |
| | Online Device (3) | Refresh Every 15s | | | | |
| | + Add to Client + Add | 1 All 🚺 Modify Nation 🏠 Basat P | assword 🖉 Activ | oto | Filler | |
| | | no Eirmwara Varcian | | Senior Port | Stad Time | 1.0 |
| | 10 102 102 209 DS-6704 | HEI V1.2 Obuild 140414 | Active | 8000 | 2015-05-05 10:25:01 | N |
| coding device: /R/DVS/NVR/IPC/IPD/ iVMS-4200 | 10.102.102.210 DS-7608 | VI-SE/8P V2.3.10build 141128 | Active | 8000 | 2015-04-09 09:00:59 | N |
| CNVR/IVMS-4200 EncodeCard | | | | | | |
| erver | | | | | | |

Figure 8 Activation Window with Adequate Password Strength

| vice Management | | | | |
|--|--|---|---|---------------------------|
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| Device for Management (0) | | | | |
| 🕂 Add Device 🖸 Modify 🗙 | Delete 🗍 🏘 Remote Co 😂 VCA All | ocation 🎉 QR Code 🏾 🥊 Activat | e 📀 Refresh All Filter | |
| Nickname 🔺 IP | Device Serial No. | Security | Resource Usa HDD Statu | |
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| 4 (| | | | |
| < | Refresh Every 15s | _ | • | Camera Status |
| Online Device (3) | Refresh Every 15s | | | Camera Status |
| Conline Device (3) Add to Client Add All | Refresh Every 15s Modify Netinfo Seet Passwor | d 👰 Activate | • Filter | Camera Status Active |
| Conline Device (3) Add to Client Add All IP Device Type | Refresh Every 15s Modify Netinfo Reset Passwor Firmware Version Si | d • Activate ecurity Server Port Sta | • Filter rt Time | Camera Status Active |
| Online Device (3) Add to Client Add All IP Device Type 192 168.1.84 DS-2CD4A35FV | Refresh Every 15s Modify Netinfo Reset Passwor Firmware Version S ND-12HS V5.3.0build 150417 Ac | d • Activate ecurity Server Port Sta dtve 8000 <u>20</u> 0 | • Filter rt Time • • • • • • • • • • • • • • • • • | Camera Status Active |
| Online Device (3) Add to Client Add All IP Device Type 192.168.1.64 DS-2CD4A35FV | Refresh Every 15s Modify Netinfo Reset Passwor Firmware Version Si VD-IZHS V5.3.0build 150417 Ac | d Activate ecurity Server Port Sta titive 8000 20.0 | ۰ Filter rt Time الا مع 04:37:28 Ng | Camera Status Active |
| • • Online Device (3) • • Add to Client • • Add to Client • • IP • • Device Type 192.168.164 DS-2CD4A35FV 19.102.102.209 19.102.102.209 DS-8704HFI | Refresh Every 15s Modify Netinfo Reset Passwor Firmware Version Si WD-JZHS V5.3.0build 150417 Ac V1.2.0build 140414 Ac | d Activate ecurity Server Port Sta dive 8000 200 dive 8000 200 | Filter Filter rt Time r5 005 04:37:28 NC 15:05:05 10:25:01 Nc | Camera Status Active |
| | Device for Management (0) Add Device 🖸 Modify 🗶 Nickname 🔺 IP | Device for Management (0) Add Device I Modify X Delete Remote Co VCA All Nickname A P Device Serial No. | Device for Management (0) | Device for Management (0) |

Figure 9 Active Camera Status



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| Action Required: | None, information only | | | | |

- Web Interface Activation (use if the SADP or iVMS-4200 software do not support the activation procedure)
 - 1. In a Web browser (i.e., Internet Explorer, Chrome, Safari), type the camera's IP address and press **Enter**. The Activation Window will appear instead of the login page (Figure 10).
 - Enter a new password into the "Password" field. The password strength will be displayed, accompanied by a color indicator (red indicates inadequate strength; green indicates adequate strength. Bar length indicates strength magnitude) (Figure 11). Activation will not be allowed unless the password is of adequate strength (Figure 12).
 - 3. Press the **OK** button. After a successful activation the user will be logged in to the camera's live view page.

| HIKVISIO/ | V | | English |
|-----------|-----------------------|--|---------|
| Activ | ation | | |
| | User Name Password | admin Valid password range [8-6]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained. | |
| | Confirm | | |
| - | | | |
| | | | ок |

Figure 10 Activation Window



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| Action Required: | None, information only | | | | |

| | Activation | | | | | | | | |
|------|---------------------------|----------------------------------|---|---|-----------------|---------|----------|---------------------|---|
| | Activation | | | | | | | | |
| | _ | | | | | _ | | | |
| | U | lser Name | admin | | | | | | |
| | P | assword | | 0 | | | | | |
| | | | | Weak | | | | | |
| | | | Valid password range [8-16]. | You can use a | | | | | |
| | | | uppercase and special chara | cter for your | | | | | |
| | | | contained. | | | | | | |
| | | onfirm | | | | | | | |
| | | orminin. | | | | | | | |
| | | | | | | | | | |
| | | | | OK | | | | | |
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| | | | | | | | | | |
| Figu | ire 11 Ac | tivation W | indow with Inade | quate Passwo | ord Stren | nath | | | |
| ingu | I C I I AC | | | quale rasswi | nu Stiell | iyin | | | |
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| KVI | SION Activation | User Name | admin | | | English | × | ۲ نان م | IOTE: The bassword stre s shown with color indicator |
| KVI. | SION Activation | User Name Password | admin | | 0 | English | × | ۲ نان م | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin | | Strong | English | ~ | ۲ بن م | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin •••••• | 100 (8-16) You can us | Strong | English | × | ۲ بز د | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin •••••• Valid password rar combination of nur | nge [8-16]. You can us | ⊇ Strong e a | English | v | r is c | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin •••••• Valid password rat combination of nur uppercase and sp | nge [8-16]. You can us nbers, lowercase, scial character for your | Strong e a | English | ~ | ۲ بز د | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin ••••••• Valid password rat combination of nur uppercase and sp password with at le | nge [8-16]. You can us mbers, lowercase, ecial character for you east two kinds of them | Strong | English | × | р к с | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password | admin Valid password rat combination of nur uppercase and spi password with at le contained. | nge [8-16]. You can us mbers, lowercase, ecial character for your aast two kinds of them | Strong e a | English | ~ | р ix с | IOTE: The bassword stre is shown with color indicator |
| KVI | SION Activation | User Name Password | admin Valid password rat combination of nur uppercase and spr password with at le contained. | nge [8-16]. You can us mbers, lowercase, acial character for your east two kinds of them | Strong e a | English | × | р ік с | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password Confirm | admin •••••• Valid password rat combination of nur uppercase and spi password with at le contained. | nge [8-16]. You can us mbers, lowercase, acial character for your east two kinds of them | Strong | English | ~ | | IOTE: The bassword stre s shown with color indicator |
| KVI | SION Activation | User Name Password Confirm | admin Valid password rat combination of nur uppercase and sp password with at le contained. | nge [8-16]. You can us mbers, lowercase, acial character for your east two kinds of them | Strong | English | ~ | | IOTE: The bassword stre is shown with color indicator |
| KVI | SION Activation | User Name Password Confirm | admin Valid password rat combination of nur uppercase and sp password with at le contained. | nge [8-16]. You can us nbers, lowercase, acial character for you east two kinds of them | Strong | English | ~ | | IOTE: The bassword stre is shown with color indicator |
| KVI | SION Activation | User Name Password Confirm | admin Valid password rat combination of nur uppercase and spu password with at le contained. | nge [8-16]. You can us mbers, lowercase, ecial character for your east two kinds of them | Strong | English | | | IOTE: The bassword stre is shown with color indicator |
| KVI | SION | User Name Password Confirm | admin Valid password rat combination of nur uppercase and spi password with at le contained. | nge [8-16]. You can us nbers, lowercase, cial character for your east two kinds of them | Strong | English | | | IOTE: The bassword stre is shown with color indicator |

Figure 12 Activation Window with Adequate Password Strength



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| Action Required: | None, information only | | | | |

Password Strength Levels

| STRENGTH LEVEL | DESCRIPTION |
|--|--|
| Level 0 (Risky) Cameras <i>will not</i> accept a Level 0 password | Password length is fewer than eight characters, contains only one type of character, is the same as the user name, and/or is the mirror writing of the user name. |
| Level 1 (Weak) Cameras <i>will</i> accept a Level 1 password | Password contains two kinds of characters. The combination is number + lowercase letter or number + uppercase letter, and the password length is at least eight characters. |
| Level 2 (Medium) Cameras <i>will</i> accept a Level 2 password | Password contains two types of characters. The combination is neither number + lowercase letter <i>nor</i> number + uppercase letter, and the password length is at least eight characters. |
| Level 3 (Strong) Cameras <i>will</i> accept a Level 3 password | Password contains more than three types of characters, and the password length is at least eight characters. |

NOTE: Types of characters are lowercase letters, uppercase letters, numbers, and special characters. Only ASCII characters are allowed.