



**Product Name:** VIA Campus

Current Version:	Ver.Type	Ver No.	Date
	Firmware	2.0.0916.788	September 2016
	Software	–	–
	Web	–	–
	Hardware	–	–

**RN Date:** September 2016 (Ver.2)

**Reference:** 11272

#### Kramer Product Affected:

Product Name	Minimum FW Version for Upgrade	Recommended for All Units	Only if Added Features are Required
VIA Campus	2.0.0716.774	Yes	N/A

#### Technical Notes:

- This version is issued to support iOS10 mirroring feature.
- New TCP/IP and UDP ports were added or modified.
- From now on, only one file is available for performing the update. It must be done through the Web admin page, using the .zip file (zipped and unchanged).

#### Codependency with Other Products and Software:

- This version can only be applied on a unit running version 2.0 FW and requires an authentication file. Register your units on Kramer VIA portal to get your authentication file.



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	Firmware	2.0.0916.788	September 2016
	Software	–	–
	Web	–	–
	Hardware	–	–

**RN Date:** September 2016 (Ver. 2)

**Reference:** 11272

The following changes were made in this version:

### New Features:

	Description																								
	Add iOS10 and MAC OS Sierra mirroring support																								
	New TCP/IP and UDP ports were added or modified: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Traffic Client to VIA</th> <th>Type</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>9987</td> <td>TCP</td> <td>Display mobile device</td> </tr> <tr> <th>iOS to VIA</th> <th>Type</th> <th>Function</th> </tr> <tr> <td>7000</td> <td>TCP</td> <td>Server port authentication</td> </tr> <tr> <td>7100 – 7300*</td> <td>TCP</td> <td>Data</td> </tr> <tr> <td>29053</td> <td>TCP</td> <td>Event port</td> </tr> <tr> <td>2001 - 2201*</td> <td>UDP</td> <td>Timing</td> </tr> <tr> <td>61875-62000</td> <td>UDP</td> <td>Audio data</td> </tr> </tbody> </table>	Traffic Client to VIA	Type	Function	9987	TCP	Display mobile device	iOS to VIA	Type	Function	7000	TCP	Server port authentication	7100 – 7300*	TCP	Data	29053	TCP	Event port	2001 - 2201*	UDP	Timing	61875-62000	UDP	Audio data
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61875-62000	UDP	Audio data																							

### Bugs Fixed:

QC ID	Description
	Date/Time as well as Room Name/Room code are displayed on screen as an overlay on apps open from the VIA gateway.



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## Bugs to be Fixed in Future Version:

QC ID	Description
	iOS Mirroring – we do not support video playback from AppStore or iTunes.
	iOS 9&10 Mirroring – Using YouTube, when a video has finished playing a disconnection can sometimes be observed.
	ChromeBook app has some limitations, such as unsupported Audio and Collaboration features. Also, the gateway IP address must be entered instead of the DNS name. An Internet connection is required.
	If using Media Windows Center on the unit to open a picture, the client devices using the “View Main Display” feature see a black screen. Windows Viewer is recommended as a workaround.
	VIA gateway FW upgrade crashes if the FW is pushed from the VSM and the network connection between the VIA gateway and the VSM is dropped during the upgrade process (WOWApi.exe message).
	Sending a large file (>1GB) from the VIA gateway cloud to a participant leads to a system error (Server.exe message).
	In Dual display mode, some issues with the whiteboard can be observed: incorrect toolbar alignment, multi-touch screen dysfunction.
	If the Cloud directory path is set to Network or VIA Data, then the USB (External Hard Drive) path is not visible anymore after rebooting the gateway.
	New UI scaling feature may distort some icons.
	Mirroring a video being played on Quick Time Player (MAC only) to the main screen may display freezing artifacts.
	The new Extended Display mode feature for Windows clients (to present a second display on the main screen) is not supported on Microsoft Surface devices.
	Translations to foreign languages are not complete.
	The “Configuration” page of the Web interface scrolls to the top after every change applies.
	A running e-Exam cannot be ended if the Gateway and the Audience Response System are not in the same TimeZone (even if they show the same time).
	e-Exam and e-Polling do not support special characters and show some layout issues (pie chart conflicts with score table, and so on).



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QC ID	Description
	Wrong keyboard mapping in “collaboration” mode when using foreign language on a MacBook PRO.
	If the network falls/drops while mirroring an iOS device, the presented content freezes on the main display and only a manual disconnection from the gateway participants’ list stops the Airplay service.
	After disconnecting a device from iOS mirroring, one minute must pass before trying to re-connect using Airplay.
	iOS8 devices using Airplay to mirror their content may experience (sometimes) a green screen on the main display.
	Android: When saving a picture/document received using the Cloud/File Sharing feature, it overwrites an existing file with same name without warning, resulting in a blank picture/document being saved.
	Windows Phone: WhiteBoard select all feature (Ctrl+A) is not working.
	Windows Phone: VIA Login page appears instead of documents page when an upload completes.
	Memory overflow (causing slow response time and possible crashes of some services such as Web server, MySQL, ...) may occur if the unit is run for several days straight. Workaround: reboot the device once per day.

**Preceding Version:** F – 2.0.0716.774



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**Product Name:** VIA Campus

Preceding Version:	Ver.Type	Ver No.	Date
	Firmware	2.0.0716.774	August 2016
	Software	–	–
	Web	–	–
	Hardware	–	–

**RN Date:** August 2016 (Ver. 2)

**Reference:** 11082

#### Kramer Product Affected:

Product Name	Minimum FW Version for Upgrade	Recommended for All Units	Only if Added Features are Required
VIA Campus	1.9.0316.684	Yes	N/A

#### Technical Notes:

- Many modifications were made to enhance the features and the user experience.
- Two files are available for performing the update. Choose only one and do not use both:
  - For updating through the Web admin page, use the .zip file (zipped and unchanged).
  - For updating through the USB port of the device, use the .exe file with a USB drive.
- There is a potential issue with running the VIA Campus for several days straight. The unit may be subject to memory overflow (slow response and crash of some services such as Web server, MySQL, ...).  
Workaround: restart the unit once per day to clean up all memory processes.

#### Codependency with Other Products and Software:

- You must upgrade the client applications for your Windows and MAC computers and your Android, iOS and Windows Phone mobile applications. All must support version 1.9 (minimum). Version 2.0 is recommended.
- In order to use the VIA Pad with your VIA gateway, you must upgrade your unit to version 2.0.
- Version 2.0 FW can only be applied on a unit running version 1.9 FW



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**Product Name:** VIA Campus

**Current Version:**

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Firmware	2.0.0716.774	August 2016
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Web	–	–
Hardware	–	–

**RN Date:** August 2016 (Ver. 2)

**Reference:** 11082

The following changes were made in this version:

## New Features:

	Description
	User interface skin with redesigned icons and layout.
	Reduced the available settings in the VIA menu to LAN, System Configuration and Third Party Apps. All other settings were moved to the Web interface management UI.
	Audio and TimeZone settings can be adjusted from the Web interface only.
	Whiteboard toolbar can be moved up and down.
	Skype, Go2Meeting and WebEx applications were moved to 3 <sup>rd</sup> party apps.
	VIA client apps for Windows and MAC now offer a Menu option: on the status bar for MAC and in the system tray for Windows.
	VIA client app for Windows devices supports Extended Display mode, for presenting a second display on the main screen. This feature is accessible from the system tray menu.
	Basic Authentication mode now requires a password. Default password is set to "supass", until reset by the user.
	The "VIA Room Manager" list was implemented to input preferred Room Names either manually, from a text file or by importing it from VSM.  JPEG or H.264 encoding algorithm (to adapt to client device performance) can be chosen in VIA app client settings.



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	Description
	The View Main Display feature for the VIA client app now automatically saves annotations to a document and clears all pending drawings when “Resume” is clicked.
	The “Help” icon was removed from the client app and the “Minimize” icon minimizes the app to the taskbar (instead of moving it to the side).
	In Windows devices, the VIA client UI supports up-scaled size (DPI-based) when device display resolution is greater than 1920x1080.
	<p>Web interface features were added, including:</p> <ul style="list-style-type: none"> <li>• Tooltips (in English only).</li> <li>• “Advanced Configuration” menu for defining default actions upon session end and configuring Time Zone, Audio preferences and UI scaling.</li> <li>• VSM offline configuration.</li> <li>• Gateway Activity logs.</li> <li>• Firmware upgrade requiring authentication (beginning with 2.0.XXX versions, only units under a SW warranty contract are eligible for FW upgrades).</li> <li>• Portuguese language support (in Beta version).</li> </ul>
	Security improvement: New Captcha and Web interface session automatically ends after 10 minutes of inactivity.
	<p>iPAD/ iPhone:</p> <ul style="list-style-type: none"> <li>• iPhone only: 3D touch support with shortcuts to QR code, documents and login screens.</li> <li>• The Photo Album feature was enhanced with new options and the photo selection counter was removed.</li> <li>• Login uses device names as default.</li> <li>• In the multimedia feature, “Photos” tab was removed (Photo Album feature replaces it).</li> <li>• In the Multimedia feature, documents and media files can be deleted using left swipe.</li> <li>• RTP/RTSP streaming player feature was added in multimedia.</li> <li>• Whiteboard was enhanced in View Main Display (Erase/Erase All</li> </ul>





	Description
	<p>options and Pause/Resume when annotating).</p> <ul style="list-style-type: none"> <li>• In Basic Authentication mode, “Become Moderator” now requires a password.</li> <li>• The Home Page of the Web browser can be set to your preferred Website (click on Home pin icon to select it once chosen).</li> <li>• The “Cloud” directory icon was renamed to “Files”.</li> <li>• The “Start Collaboration” feature now shows a trackpad with left and right buttons and a “Lock” button to maintain the left-click functionality while drawing/annotating.</li> <li>• The “Help” and “Minimize” icons were removed.</li> <li>• In Chat mode, the keyboard disappears after clicking “Send”.</li> </ul>
	<p>Android:</p> <ul style="list-style-type: none"> <li>• In the Multimedia feature, the “Photos” tab was removed (replaced by Photo Album feature).</li> <li>• In the Multimedia feature, documents and media files can be deleted using left swipe (“undo” option available for Android only).</li> <li>• RTP/RTSP streaming player feature was added in Multimedia.</li> <li>• In Basic Authentication mode, “Become Moderator” now requires a password.</li> <li>• Home Page of the Web browser can be set to your preferred Website (click on Home pin icon to select it once chosen).</li> <li>• The “Cloud” directory icon was renamed to “Files”.</li> <li>• The “Help” and “Minimize” icons were removed.</li> <li>• The “Start Collaboration” feature now shows a trackpad with left and right buttons and a “Lock” button to maintain the left-click functionality while drawing/annotating.</li> </ul>







	Description
	<p>Windows Phone:</p> <ul style="list-style-type: none"><li>• In the Multimedia feature, the “Photos” tab was removed (replaced by Photo Album feature).</li><li>• In the Multimedia feature, documents and media files can be deleted using a long press.</li><li>• MP4 files are now supported in multimedia streaming feature.</li><li>• RTP/RTSP streaming player feature was added in Multimedia.</li><li>• In Basic Authentication mode, “Become Moderator” now requires a password.</li><li>• Home Page of the Web browser can be set to your preferred Website (click on Home pin icon to select it once chosen).</li><li>• The “Cloud” directory icon was renamed to “Files”.</li><li>• The “Help” and “Minimize” icons were removed.</li><li>• The “Start Collaboration” feature now shows a trackpad with left and right buttons and a “Lock” button to maintain the left-click functionality while drawing/annotating.</li><li>• Moderator mode can now be activated for Windows Phone users.</li></ul>

## Bugs Fixed:

QC ID	Description
8514	Changing the time zone from the Web page didn't work



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## Known Issues (including compatibility limitations):

QC ID	Description
	ChromeBook app has some limitations, such as unsupported Audio and Collaboration features. Also, the gateway IP address must be entered instead of the DNS name. An Internet connection is required.
	If using Media Windows Center on the unit to open a picture, the client devices using the "View Main Display" feature see a black screen. Windows Viewer is recommended as a workaround.
	VIA gateway FW upgrade crashes if the FW is pushed from the VSM and the network connection between the VIA gateway and the VSM is dropped during the upgrade process (WOWApi.exe message).
	Sending a large file (>1GB) from the VIA gateway cloud to a participant leads to a system error (Server.exe message).
	In Dual display mode, some issues with the whiteboard can be observed: incorrect toolbar alignment, multi-touch screen dysfunction.
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	Translations to foreign languages are not complete.
	The "Configuration" page of the Web interface scrolls to the top after every change applies.
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	e-Exam and e-Polling do not support special characters and show some layout issues (pie chart conflicts with score table, and so on).
	Wrong keyboard mapping in "collaboration" mode when using foreign language on a MacBook PRO.



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QC ID	Description
	If the network falls/drops while mirroring an iOS device, the presented content freezes on the main display and only a manual disconnection from the gateway participants' list stops the Airplay service.
	After disconnecting a device from iOS mirroring, one minute must pass before trying to re-connect using Airplay.
	iOS8 devices using Airplay to mirror their content may experience (sometimes) a green screen on the main display.
	Android: When saving a picture/document received using the Cloud/File Sharing feature, it overwrites an existing file with same name without warning, resulting in a blank picture/document being saved.
	Windows Phone: WhiteBoard select all feature (Ctrl+A) is not working.
	Windows Phone: VIA Login page appears instead of documents page when an upload completes.
	Memory overflow (causing slow response time and possible crashes of some services such as Web server, MySQL, ...) may occur if the unit is run for several days straight. Workaround: reset the device once per day.

**Preceding Version:** F – 1.9.0316.684



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**Product Name:** VIA Campus  
**Preceding Version:** F – 1.9.0316.684  
**Version Date:** March 2016  
**Reference:** 10280

The following changes were made in this version:

### Added Features:

- Streaming input plays video streams from a remote location on the main display.
- A new API supports the streaming input feature.
- All API commands sent are now receiving an answer.
- Connecting to the embedded Web admin interface now uses a CAPTCHA test to increase security.
- TLS encryption layer added for transport security from control devices (using port 9986)
- In dual-display mode, the second display now shows the default wallpaper when only one user is stepped-in (instead of a black screen)
- Improved features on the E-Polling/e-Exam module (still in Beta mode)
- Support for multi-touch displays
- The device automatically generates a QR code to allow quick connection from mobile devices.
- NFC tags are supported for quick connection from Android devices equipped with NFC technology.
- A higher frame rate supports Android mirroring on devices running Lollipop (5.0) minimum.
- iOS mirroring support added
- A Windows mobile app is now available from Windows Store.
- Integration with VIA Site Management was finalized.
- Updated languages support new features.

### Fixes:

- Small bugs were fixed.



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## Internal Known Issues:

QC ID	Description
6920	Audio pops at audio line out
6930	Sometimes need to press twice the 'Login' button by the via client in order to get connected properly
6939	Audio noise/ ticking during pressing the PAUSE button (Multimedia page)

## Known Issues:

- There are no known issues.

**Preceding Version:** F – 1.8.0116.644



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**Product Name:** VIA Campus  
**Current Version:** F – 1.8.0116.644  
**Version Date:** February 2016  
**Reference:** 10051

The following changes were made in this version:

**Fixes:**

- Looping in DHCP mode when using FW version 1.8 with the patch was fixed.
- A boot-loop sequence problem was fixed.
- A dual display issue was fixed.

**Internal Known Issues:**

QC ID	Description
6921	WIN10 OS flashes during VIA system load
6935	Some supported files does not play AUDIO at all (video display properly)
6939	Audio noise/ ticking while pressing the PAUSE button (Multimedia page)

**Known Issues:**

- There are no known issues.

**Preceding Version:** NP – 1.0, F – 1.8.1215.643



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**Product Name:** VIA Campus  
**Preceding Version:** NP – 1.0, F – 1.8.1215.643  
**Version Date:** January 2016  
**Reference:** 9877

This is a release note for a new product.

The following changes were made in this version:

**Fixes:**

- A bug in streaming input was fixed.

**Known Issues:**

- There are no known issues.

**Preceding Version:** N/A



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