# Voluntary Product Accessibility Template Blackboard Connect 5

(Published Feb 19, 2013)

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### Introduction

Blackboard<sup>®</sup> is fully committed to ensuring that our platform contains no barriers for users with disabilities and is both usable and accessible by everyone, regardless of age, ability, or situation. With valuable input from our clients and a strong set of development and testing tools, we invest in accessible products and capabilities that meet the wide range of our client's needs. To fulfill this promise we are continually partnering with industry experts to audit our code and user interface design techniques to ensure the accessibility of the products.

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government.

As we work with all of our clients, if a critical compliance issue is discovered in any of our releases, our Support and Product Development teams endeavor to address the issue in a timely manner to maintain system accessibility.

#### **Key Improvements**

The web interface for Connect 5 has been upgraded with new workflows that reduce the number of clicks to send messages. Previously, the workflows in Connect 4 would require users to access information linearly across multiple steps and pages. This linear design makes it extremely time consuming and difficult to change or jump ahead to certain parts of the application. In Connect 5, information can be quickly found in a single page and a secondary modal if additional information is required.

We have expanded the text-to-speech capabilities to support additional spoken voice messages for users. Connect 4 only supported text-to-speech voice messages in English and Spanish. Today, Connect 5 supports up to seven TTS languages. The entire application has undergone a complete UI review to standardize user experience across all parts of the web application. This provides users with a familiar layout to reduce training times.

Improvements have been made to the structure of forms to ensure users are always aware of what they are filling out and what is required within the form. A new global navigation menu has been developed providing quick links to message templates and for sending new messages. This menu that is located at the beginning of every page can be accessed at any time throughout the application.

# **Summary Table**

Date: Feb 17, 2013 Name of Product: Blackboard Connect Contact for more Information: Bing Chen, VP Product Management

| Summary Table   |                        |  |  |
|---|------------------------|--|--|
| Criteria  | Supporting<br>Features | Remarks and explanations                               |  |
| Section 1194.21 <u>Software Applications and</u><br>Operating Systems | Supports               | See below  |  |
| Section 1194.22 Web-based internet<br>information and applications    | Supports               | See below  |  |
| Section 1194.23 <u>Telecommunications</u><br>Products                 | NA                     |  |  |
| Section 1194.24 Video and Multi-media<br>Products                     | NA                     |  |  |
| Section 1194.25 <u>Self-Contained, Closed</u> Products                | NA                     |  |  |
| Section 1194.26 Desktop and Portable<br>Computers                     | NA                     | 1997 - 1997 - 1997 - 1997<br>1997 - 1997 - 1997 - 1997 |  |
| Section 1194.31 Functional Performance<br>Criteria                    | Supports               | See below  |  |
| Section 1194.41 Information,<br>documentation, and support.           | Supports               | See below  |  |

| Criteria  | Supporting Features | Remarks and explanations  |
|---|---------------------|---|
| (a) When software is designed to<br>run on a system that has a<br>keyboard, product functions shall<br>be executable from a keyboard<br>where the function itself or the<br>result of performing a function<br>can be discerned textually.  | Supports            | Features of Blackboard<br>Connect are designed<br>to be fully functional<br>with the use of a<br>keyboard.  |
| (b) Applications shall not disrupt<br>or disable activated features of<br>other products that are identified<br>as accessibility features, where<br>those features are developed and<br>documented according to<br>industry standards. Applications<br>also shall not disrupt or disable<br>activated features of any<br>operating system that are<br>identified as accessibility features<br>where the application<br>programming interface for those<br>accessibility features has been<br>documented by the manufacturer<br>of the operating system and is<br>available to the product<br>developer. | Supports            | The product does not<br>disrupt or disable any<br>activated features of<br>other products<br>including the operating<br>system.   |
| (c) A well-defined on-screen<br>indication of the current focus<br>shall be provided that moves<br>among interactive interface<br>elements as the input focus<br>changes. The focus shall be<br>programmatically exposed so<br>that Assistive Technology can<br>track focus and focus changes.  | Supports            | The product is<br>designed to provide<br>focus for the<br>interactive elements in<br>a way that Assistive<br>Technology can track<br>it.  |
| (d) Sufficient information about a<br>user interface element including<br>the identity, operation and state<br>of the element shall be available<br>to Assistive Technology. When an<br>image represents a program<br>element, the information<br>conveyed by the image must also   | Supports            | The product is<br>designed to use labels<br>to identify interactive<br>elements and uses<br>either a readable and<br>visible label or<br>alternative text to<br>describe any iconic |

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| be available in text.   |          | representations of information.  |
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| (e) When bitmap images are<br>used to identify controls, status<br>indicators, or other programmatic<br>elements, the meaning assigned<br>to those images shall be<br>consistent throughout an<br>application's performance.              | Supports | Images are used<br>consistently throughout<br>the application, such as<br>for form submission or<br>to indicate availability<br>or status of content;<br>additionally these<br>images are not the<br>only means of<br>communicating this<br>information as<br>alternative text is<br>provided.                             |
| (f) Textual information shall be<br>provided through operating<br>system functions for displaying<br>text. The minimum information<br>that shall be made available is<br>text content, text input caret<br>location, and text attributes. | Supports | All information is<br>provided through text<br>in the web-browser<br>and is not dependent<br>upon the operating<br>system.   |
| (g) Applications shall not<br>override user selected contrast<br>and color selections and other<br>individual display attributes.   | Supports | The product does not override user settings.   |
| (h) When animation is displayed,<br>the information shall be<br>displayable in at least one non-<br>animated presentation mode at<br>the option of the user.  | Supports | The product uses an<br>animated loading<br>image that can be<br>stopped and started by<br>stopping and starting<br>the loading of the page<br>by the browser. If a<br>user provides<br>animation as content in<br>the product, they are<br>provided with a means<br>to provide a non-<br>animated presentation<br>as well. |
| (i) Color coding shall not be used<br>as the only means of conveying<br>information, indicating an action,<br>prompting a response, or<br>distinguishing a visual element.  | Supports | The product does not<br>use color coding as the<br>only means to convey<br>information, indicate<br>an action, prompt a<br>response or distinguish<br>a visual element in a  |

| -<br>Day, watarn Yol 10   | Soden Bassan Bassar | meaningful way. When<br>colors are used, there<br>are corresponding text<br>equivalents to covey<br>information.                         |
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| (j) When a product permits a<br>user to adjust color and contrast<br>settings, a variety of color<br>selections capable of producing a<br>range of contrast levels shall be<br>provided.  | Not applicable      | There is no user<br>selection of color<br>settings available.  |
| (k) Software shall not use<br>flashing or blinking text, objects,<br>or other elements having a flash<br>or blink frequency greater than 2<br>Hz and lower than 55 Hz.  | Supports            | The product does not<br>utilize flashing or<br>blinking text, objects<br>or other elements.  |
| (I) When electronic forms are<br>used, the form shall allow people<br>using Assistive Technology to<br>access the information, field<br>elements, and functionality<br>required for completion and<br>submission of the form, including<br>all directions and cues. | Supports            | Electronic forms are<br>designed to include<br>properly labeled<br>instructions and<br>elements including the<br>submission of the form. |

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| Section 1194.22 Web-based Internet information and applications  |                     |   |
|--|---------------------|---|
| Criteria   | Supporting Features | Remarks and explanations  |
| (a) A text equivalent for every<br>non-text element shall be<br>provided (e.g., via "alt",<br>"longdesc", or in element<br>content).   | Supports            | The product is designed<br>to provide all non-text<br>elements that are not<br>purely graphical in<br>nature alternative<br>descriptions via the alt<br>text attribute.               |
| (b) Equivalent alternatives for<br>any multimedia presentation<br>shall be synchronized with the<br>presentation.  | Not applicable      | The product does not provide any multimedia presentations.  |
| (c) Web pages shall be designed<br>so that all information conveyed<br>with color is also available<br>without color, for example from<br>context or markup.                 | Supports            | All occurrences of color<br>are not used as the only<br>method for conveying<br>information. Text<br>alternatives are also<br>provided to assist the<br>user with the<br>information. |
| (d) Documents shall be<br>organized so they are readable<br>without requiring an associated<br>style sheet.  | Supports            | The reporting documents<br>in the Blackboard<br>Connect product are<br>organized so they can be<br>read without style<br>sheets.  |
| (e) Redundant text links shall be provided for each active region of a server-side image map.  | Not applicable      | We do not utilize server-<br>side image maps for<br>navigational purposes.  |
| (f) Client-side image maps shall<br>be provided instead of server-<br>side image maps except where<br>the regions cannot be defined<br>with an available geometric<br>shape. | Not applicable      | We do not utilize client-<br>side image maps for<br>navigational purposes.  |
| (g) Row and column headers shall be identified for data tables.  | Supports            | Data tables in the product take advantage   |

|   | and the  | of headers for rows and columns to identify relevant information.  |
|---|--|--|
| (h) Markup shall be used to<br>associate data cells and header<br>cells for data tables that have<br>two or more logical levels of row<br>or column headers.  | Supports   | Data is displayed using<br>captions tooltips and<br>summary properties of<br>the rendered HTML<br>elements.  |
| (i) Frames shall be titled with<br>text that facilitates frame<br>identification and navigation   | Not applicable   | We do not utilize frames within our application.   |
| (j) Pages shall be designed to<br>avoid causing the screen to<br>flicker with a frequency greater<br>than 2 Hz and lower than 55 Hz.  | Supports   | The product is not<br>designed in a way that<br>would cause flickering.  |
| (k) A text-only page, with<br>equivalent information or<br>functionality, shall be provided to<br>make a web site comply with the   | i letroit<br>acces   |  |
| provisions of this part, when<br>compliance cannot be<br>accomplished in any other way.<br>The content of the text-only page<br>shall be updated whenever the<br>primary page changes.  | Not applicable   | We do not provide text-<br>only content pages.   |
| (I) When pages utilize scripting<br>languages to display content, or<br>to create interface elements, the<br>information provided by the<br>script shall be identified with<br>functional text that can be read<br>by Assistive Technology.               | Supports when<br>combined with<br>Compatible Assistive<br>Technology | Scripting language is<br>used to display and hide<br>interface elements,<br>however, the content of<br>the interface elements<br>are a part of the body of<br>the html and are<br>therefore understood by<br>screen readers. |
| (m) When a web page requires<br>that an applet, plug-in or other<br>application be present on the<br>client system to interpret page<br>content, the page must provide a<br>link to a plug-in or applet that<br>complies with Û1194.21(a)<br>through (I). | Not applicable   | We do not utilize applets<br>or plug-ins within our<br>application.  |
| (n) When electronic forms are<br>designed to be completed on-<br>line, the form shall allow people<br>using Assistive Technology to<br>access the information, field<br>elements, and functionality   | Supports   | The product includes<br>electronic forms<br>designed to properly<br>label instructions and<br>elements including the   |

| required for completion and submission of the form, including all directions and cues.   |          | submission of the form.   |
|--|----------|---|
| (o) A method shall be provided<br>that permits users to skip<br>repetitive navigation links.   | Supports | "Skip navigation" links<br>are provided when<br>necessary but the<br>product has been<br>designed with significant<br>header descriptions so<br>the user easily can jump<br>to their desired location.  |
| (p) When a timed response is<br>required, the user shall be<br>alerted and given sufficient time<br>to indicate more time is required. | Supports | Timed response is<br>required for security<br>reasons to automatically<br>log the user out of<br>his/her account. When<br>the system is about to<br>time out due to<br>inactivity, we display a<br>text alert to inform the<br>user to request more<br>time to accommodate<br>the activity. |

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| Criteria   | Supporting<br>Features | Remarks and explanations |
|--|------------------------|--------------------------|
| a) Telecommunications products<br>or systems which provide a<br>function allowing voice<br>communication and which do not<br>chemselves provide a TTY<br>functionality shall provide a   |                        |                          |
| standard non-acoustic<br>connection point for TTYs.<br>Microphones shall be capable of<br>being turned on and off to allow<br>the user to intermix speech with<br>TTY use.   | NA                     |                          |
| (b) Telecommunications products<br>which include voice<br>communication functionallty shall<br>support all commonly used<br>cross-manufacturer non-<br>proprietary standard TTY signal<br>protocols.   | NA                     |                          |
| (c) Voice mail, auto-attendant,<br>and interactive voice response<br>telecommunications systems<br>shall be usable by TTY users with<br>their TTYs.  | NA                     |                          |
| (d) Voice mail, messaging, auto-<br>attendant, and interactive voice<br>response telecommunications<br>systems that require a response<br>from a user within a time<br>interval, shall give an alert when<br>the time interval is about to run<br>out, and shall provide sufficient<br>time for the user to indicate<br>more time is required. | NA                     |                          |
| (e) Where provided, caller<br>identification and similar<br>telecommunications functions<br>shall also be available for users<br>of TTYs, and for users who<br>cannot see displays.  | NA                     |                          |
| (f) For transmitted voice signals,   | NA                     |                          |

| telecommunications products<br>shall provide a gain adjustable<br>up to a minimum of 20 dB. For<br>incremental volume control, at<br>least one intermediate step of 12<br>dB of gain shall be provided.  | Charles or size 1 | Liped L |
|--|-------------------|---------|
| (g) If the telecommunications<br>product allows a user to adjust<br>the receive volume, a function   |                   | 1999    |
| shall be provided to<br>automatically reset the volume<br>to the default level after every<br>use.   | NA                |         |
| (h) Where a telecommunications<br>product delivers output by an<br>audio transducer which is<br>normally held up to the ear, a<br>means for effective magnetic<br>wireless coupling to hearing<br>technologies shall be provided.  | NA                |         |
| (i) Interference to hearing<br>technologies (including hearing<br>aids, cochlear implants, and<br>assistive listening devices) shall<br>be reduced to the lowest<br>possible level that allows a user<br>of hearing technologies to utilize<br>the telecommunications product.   | NA                |         |
| (j) Products that transmit or<br>conduct information or<br>communication, shall pass<br>through cross-manufacturer,<br>non-proprietary, industry-<br>standard codes, translation<br>protocols, formats or other<br>information necessary to provide<br>the information or<br>communication in a usable<br>format. Technologies which use<br>encoding, signal compression,<br>format transformation, or similar<br>techniques shall not remove<br>information needed for access or<br>shall restore it upon delivery. | NA                |         |
| (k)(1) Products which have<br>mechanically operated controls<br>or keys shall comply with the<br>following: Controls and Keys<br>shall be tactilely discernible  | NA                |         |

| without activating the controls or keys.   |    |  |
|--|----|--|
| (k)(2) Products which have<br>mechanically operated controls<br>or keys shall comply with the<br>following: Controls and Keys<br>shall be operable with one hand<br>and shall not require tight<br>grasping, pinching, twisting of<br>the wrist. The force required to<br>activate controls and keys shall<br>be 5 lbs. (22.2N) maximum. | NA |  |
| (k)(3) Products which have<br>mechanically operated controls<br>or keys shall comply with the<br>following: If key repeat is<br>supported, the delay before<br>repeat shall be adjustable to at<br>least 2 seconds. Key repeat rate<br>shall be adjustable to 2 seconds<br>per character.  | NA |  |
| (k)(4) Products which have<br>mechanically operated controls<br>or keys shall comply with the<br>following: The status of all<br>locking or toggle controls or keys<br>shall be visually discernible, and<br>discernible either through touch<br>or sound.   | NA |  |

| Criteria   | Supporting<br>Features | Remarks and explanations |
|--|------------------------|--------------------------|
| (a) All analog television displays 13 inches and<br>larger, and computer equipment that includes analog<br>television receiver or display circuitry, shall be<br>equipped with caption decoder circuitry which<br>appropriately receives, decodes, and displays closed<br>captions from broadcast, cable, videotape, and DVD<br>signals. As soon as practicable, but not later than<br>July 1, 2002, widescreen digital television (DTV)<br>displays measuring at least 7.8 inches vertically, DTV<br>sets with conventional displays measuring at least 13<br>inches vertically, and stand-alone DTV tuners,<br>whether or not they are marketed with display<br>screens, and computer equipment that includes DTV<br>receiver or display circuitry, shall be equipped with<br>caption decoder circuitry which appropriately<br>receives, decodes, and displays closed captions from<br>broadcast, cable, videotape, and DVD signals. | NA                     |                          |
| (b) Television tuners, including tuner cards for use in computers, shall be equipped with secondary audio program playback circuitry.  | NA                     |                          |
| (c) All training and informational video and<br>multimedia productions which support the agency's<br>mission, regardless of format, that contain speech or<br>other audio information necessary for the<br>comprehension of the content, shall be open or<br>closed captioned.   | NA                     |                          |
| (d) All training and informational video and<br>multimedia productions which support the agency's<br>mission, regardless of format, that contain visual<br>information necessary for the comprehension of the<br>content, shall be audio described.  | NA                     |                          |
| (e) Display or presentation of alternate text presentation or audio descriptions shall be user-selectable unless permanent.  | NA                     |                          |

# Section 1194.24 Video and Multi-media Products

| Criteria   | Supporting<br>Features | Remarks and explanations |
|--|------------------------|--------------------------|
| (a) Self contained products shall be usable by people<br>with disabilities without requiring an end-user to<br>attach Assistive Technology to the product. Personal<br>neadsets for private listening are not Assistive<br>Technology.   | NA                     |                          |
| (b) When a timed response is required, the user shall be alerted and given sufficient time to indicate more time is required.  | NA                     |                          |
| (c) Where a product utilizes touchscreens or contact-<br>sensitive controls, an input method shall be provided<br>that complies with $\hat{U}1194.23$ (k) (1) through (4).   | NA                     |                          |
| (d) When biometric forms of user identification or<br>control are used, an alternative form of identification<br>or activation, which does not require the user to<br>possess particular biological characteristics, shall also<br>be provided.  | NA                     |                          |
| (e) When products provide auditory output, the audio<br>signal shall be provided at a standard signal level<br>through an industry standard connector that will<br>allow for private listening. The product must provide<br>the ability to interrupt, pause, and restart the audio<br>at anytime.  | NA                     |                          |
| (f) When products deliver voice output in a public<br>area, incremental volume control shall be provided<br>with output amplification up to a level of at least 65<br>dB. Where the ambient noise level of the<br>environment is above 45 dB, a volume gain of at<br>least 20 dB above the ambient level shall be user<br>selectable. A function shall be provided to<br>automatically reset the volume to the default level<br>after every use. | NA                     |                          |
| (g) Color coding shall not be used as the only means<br>of conveying information, indicating an action,<br>prompting a response, or distinguishing a visual<br>element.  | NA                     |                          |
| (h) When a product permits a user to adjust color<br>and contrast settings, a range of color selections<br>capable of producing a variety of contrast levels shall<br>be provided.   | NA                     |                          |
| (i) Products shall be designed to avoid causing the screen to flicker with a frequency greater than 2 Hz and lower than 55 Hz.   | NA                     |                          |

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| (j) (1) Products which are freestanding, non-<br>portable, and intended to be used in one location and<br>which have operable controls shall comply with the<br>following: The position of any operable control shall<br>be determined with respect to a vertical plane, which<br>is 48 inches in length, centered on the operable<br>control, and at the maximum protrusion of the<br>product within the 48 inch length on products which<br>are freestanding, non-portable, and intended to be<br>used in one location and which have operable<br>controls. | NA |
|---|----|
| (j)(2) Products which are freestanding, non-portable,<br>and intended to be used in one location and which<br>have operable controls shall comply with the<br>following: Where any operable control is 10 inches or<br>less behind the reference plane, the height shall be<br>54 inches maximum and 15 inches minimum above<br>the floor.  | NA |
| (j)(3) Products which are freestanding, non-portable,<br>and intended to be used in one location and which<br>have operable controls shall comply with the<br>following: Where any operable control is more than<br>10 inches and not more than 24 inches behind the<br>reference plane, the height shall be 46 inches<br>maximum and 15 inches minimum above the floor.  | NA |
| (j)(4) Products which are freestanding, non-portable,<br>and intended to be used in one location and which<br>have operable controls shall comply with the<br>following: Operable controls shall not be more than<br>24 inches behind the reference plane.  | NA |

| Section 1194.26 Desktop and Portable Computers  |                        |                          |
|---|------------------------|--------------------------|
| Criteria  | Supporting<br>Features | Remarks and explanations |
| (a) All mechanically operated controls and keys shall comply with 01194.23 (k) (1) through (4).   | NA                     |                          |
| (b) If a product utilizes touchscreens or touch-<br>operated controls, an input method shall be<br>provided that complies with Û1194.23 (k) (1)<br>through (4).   | NA                     |                          |
| (c) When biometric forms of user identification or<br>control are used, an alternative form of<br>identification or activation, which does not require<br>the user to possess particular biological<br>characteristics, shall also be provided. | NA                     |                          |
| (d) Where provided, at least one of each type of expansion slots, ports and connectors shall comply with publicly available industry standards  | NA                     |                          |

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| Criteria   | Supporting<br>Features                                 | Remarks and<br>explanations  |
|--|--|--|
| (a) At least one mode of operation and<br>information retrieval that does not<br>require user vision shall be provided, or<br>support for Assistive Technology used<br>by people who are blind or visually<br>impaired shall be provided.  | Supports with<br>Compatible<br>Assistive<br>Technology | The product is designed to<br>be functional for blind and<br>visually impaired users with<br>the addition of assistive<br>technology.  |
| (b) At least one mode of operation and<br>information retrieval that does not<br>require visual acuity greater than 20/70<br>shall be provided in audio and enlarged<br>print output working together or<br>independently, or support for Assistive<br>Technology used by people who are<br>visually impaired shall be provided. | Supports with<br>Compatible<br>Assistive<br>Technology | The product is designed to<br>be functional for blind and<br>visually impaired users with<br>the addition of assistive<br>technology.  |
| (c) At least one mode of operation and<br>information retrieval that does not<br>require user hearing shall be provided,<br>or support for Assistive Technology<br>used by people who are deaf or hard of<br>hearing shall be provided.  | Supports   | The default mode of the product does not require the user to have hearing.   |
| (d) Where audio information is<br>important for the use of a product, at<br>least one mode of operation and<br>information retrieval shall be provided<br>in an enhanced auditory fashion, or<br>support for assistive hearing devices<br>shall be provided.   | Supports   | Blackboard Connect<br>supports delivering<br>messages in audio formats<br>as text alternatives to<br>TTY/TDD and SMS devices.  |
| (e) At least one mode of operation and<br>information retrieval that does not<br>require user speech shall be provided,<br>or support for Assistive Technology<br>used by people with disabilities shall be<br>provided.   | Supports   | Blackboard Connects uses<br>text-to-speech to convert<br>text messages into speech<br>audio files.   |
| (f) At least one mode of operation and<br>information retrieval that does not<br>require fine motor control or<br>simultaneous actions and that is<br>operable with limited reach and<br>strength shall be provided.   | Supports   | The default mode of the<br>product does not require<br>the user to have fine motor<br>control. The user can use a<br>keyboard and/or mouse of<br>their choosing to operate<br>the product. |

| Section 1194.41 Information, documentation, and support  |                        |   |  |
|--|------------------------|---|--|
| Criteria   | Supporting<br>Features | <b>Remarks and explanations</b>   |  |
| (a) Product support documentation<br>provided to end-users shall be<br>made available in alternate<br>formats upon request, at no<br>additional charge.  | Supports               | The product documentation is<br>available in HTML, Word and PDF<br>formats at no additional charge.<br>Institutions are free to request<br>any additional format of that<br>documentation as desired. |  |
| (b) End-users shall have access to<br>a description of the accessibility<br>and compatibility features of<br>products in alternate formats or<br>alternate methods upon request,<br>at no additional charge. | Supports               | The product documentation is<br>available in HTML, Word and PDF<br>formats at no additional charge.<br>Institutions are free to provide<br>any additional format of that<br>documentation as desired. |  |
| (c) Support services for products shall accommodate the communication needs of end-users with disabilities.  | Supports               | Support services are provided online, via email and by telephone.   |  |

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