

*BrassRing and Onboard Release Notes  
May 2021*



**Note**

Before you use this information and the product it supports, read the information in "Safety and environmental notices" on page x and "Notices" on page x.

This edition applies to the current release, and to all subsequent releases and modifications until otherwise indicated in the new editions.

© **Copyright International Business Machines Corporation 2021.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

# Terms and conditions for product documentation

---

Permissions for the use of these publications are granted subject to the following terms and conditions.

## **Applicability**

These terms and conditions are in addition to any terms of use for the IBM website.

## **Personal use**

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

## **Commercial use**

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

## **Rights**

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.



---

# Contents

- Terms and conditions for product documentation.....iii**
  
- Chapter 1. BrassRing and Onboard Release Notes, May 2021..... 1**
  - BrassRing..... 1
    - Client Reminders.....1
    - Dark Launch Features..... 1
    - Visible Changes..... 3
    - Configurable Changes..... 9
    - BrassRing Workbench.....11
  - Onboard.....12
    - Client Reminders.....12
    - Visible Changes..... 12
    - Configurable Changes..... 13
    - Fixed Defects.....14
  
- Notices.....15**
  - Programming interface information.....16
  - Trademarks..... 16
  - Terms and conditions for product documentation..... 17
  - IBM Online Privacy Statement.....17
  - Safety and environmental notices..... 17



---

# Chapter 1. BrassRing and Onboard Release Notes, May 2021

**This document is a common Release Notes document for BrassRing and Onboard.**

## **Training and Enablement Sessions:**

To access training and enablement sessions for IBM Talent Management Solutions and Watson Talent products (which includes BrassRing and Onboard), refer to [Training and Enablement Sessions](#).

## **eLearning and User Documentation:**

To access eLearning and user documentation for IBM Talent Management Solutions (which includes BrassRing and Onboard), refer to the [IBM Knowledge Center](#).

## **Browser and Language Support:**

- BrassRing and Lead Manager [Supported Browsers and Languages](#).
- Onboard [Supported Browsers and Languages](#).

## **Badge and Training Courses:**

- BrassRing and Workbench [Badge Courses](#).
- BrassRing Addon [Training Courses](#).
- Onboard [Training and Badges](#).
- Lead Manager [Training and Badges](#).

## **Downloadable Release Notes:**

- BrassRing and Lead Manager [Downloadable PDF Release Notes](#).
- Onboard browser [Downloadable PDF Release Notes](#).

## BrassRing

---

BrassRing new features for the current release are listed here.

Refer to the [BrassRing Welcome page](#) on the IBM Documentation for a **Release** version of the BrassRing Release Notes.

## Client Reminders

The **Client Reminders** section reminds clients of recently distributed important notices and links to comprehensive documentation and training for the special features recently introduced.

## Client Training and Enablement Sessions

Please join the IBM Talent Management Solutions Training team for the regularly scheduled Training and Enablement sessions. These sessions might include release information, product demonstrations, implementation processes, and so much more!

See the [site](#) often for the most up-to-date schedule and agenda topics!

## Dark Launch Features

Dark Launch features are those features that are released to **Staging environment - Only** and are NOT released to Production environment for a considerable amount of time. This process gives an opportunity and enough time to test these features thoroughly before they are available in the production

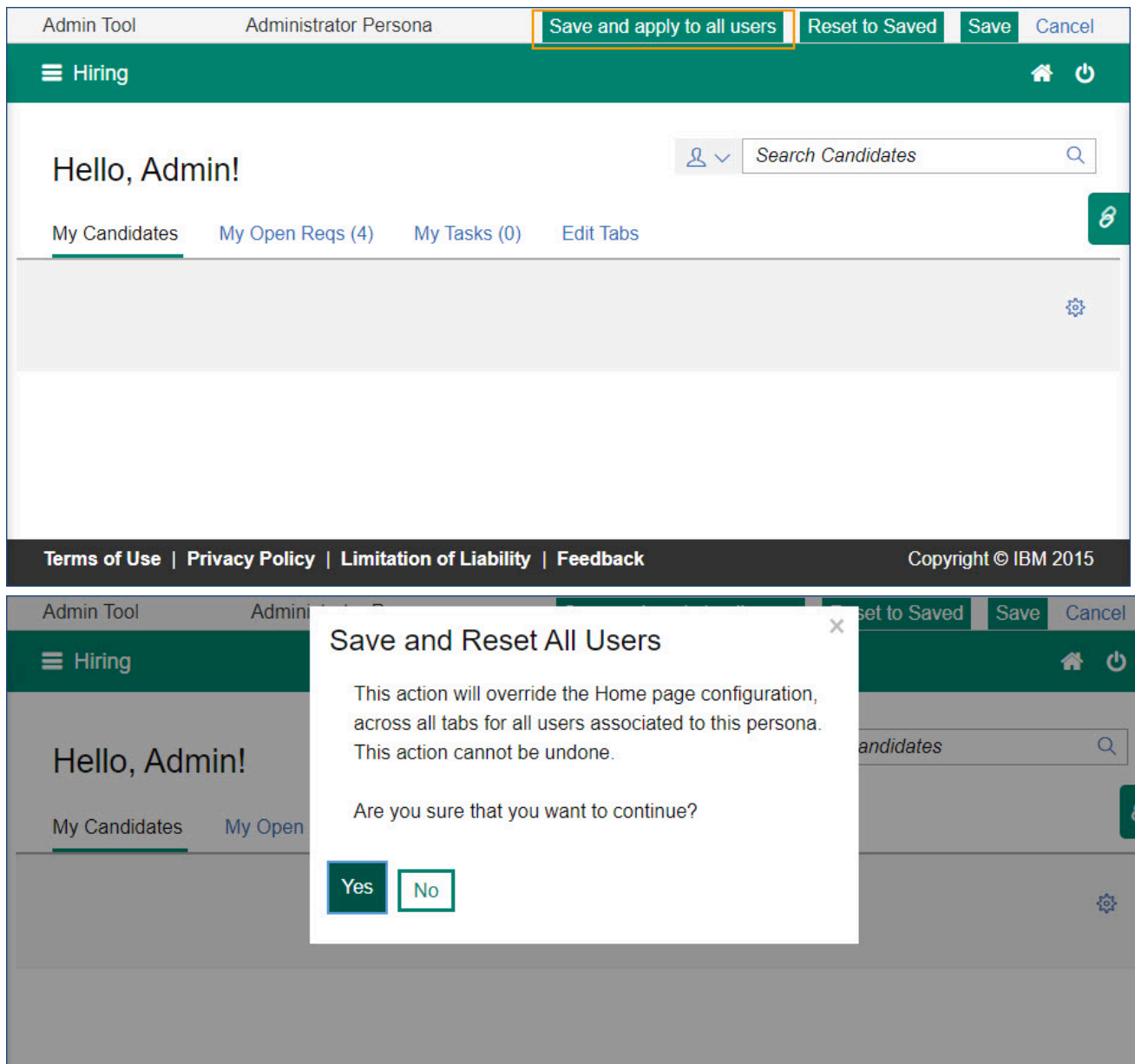
environment. Clients are requested to configure and test these features and provide their feedback and inputs to your respective IBM representatives.

### BrassRing home page - Override User Configuration

**Note:** This feature is deployed to the **Staging environment - Only** release. This feature will NOT be released to Production on 18 May 2021. A Production date is yet to be determined. See the upcoming release notes for status updates on this feature.

Based on client setting configuration, workbench administrators can override BrassRing home page settings of all users that belong to a specific persona. A new button **Save and apply to all users** is added to the home page admin tool in workbench. Workbench users select this setting to apply the changes to the home page of all BrassRing users of a persona.

The following message is displayed for confirmation: **This action will override the home page configuration, across all tabs for all users associated to this persona. This action cannot be undone. Are you sure you want to continue?.** Selection of Yes over rides the existing home page settings that include grid and table configurations of all of the users within the persona.



RTC internal reference # 134519.



## Visible Changes

The current release of IBM Kenexa BrassRing on Cloud includes the following visible changes for BrassRing and IBM Kenexa Lead Manager.

### Talent Gateway username - Show Meaningful Name

Candidates can create Talent Gateway profiles without having a username. Candidates can create a profile without a username in the following scenarios:

- When candidates skip sign in, and apply for a job.
- Enter the Talent Gateway by using an SSOID (if the Talent Gateway is SSO enabled).
- The candidates use their social media profile instead of providing a set of username and password.

Previously, when a BrassRing user accessed the Talent Gateway usernames, the username field displayed a GUID instead of the username.

The screenshot displays a candidate profile page with an 'Actions' dropdown menu open. The profile information includes:

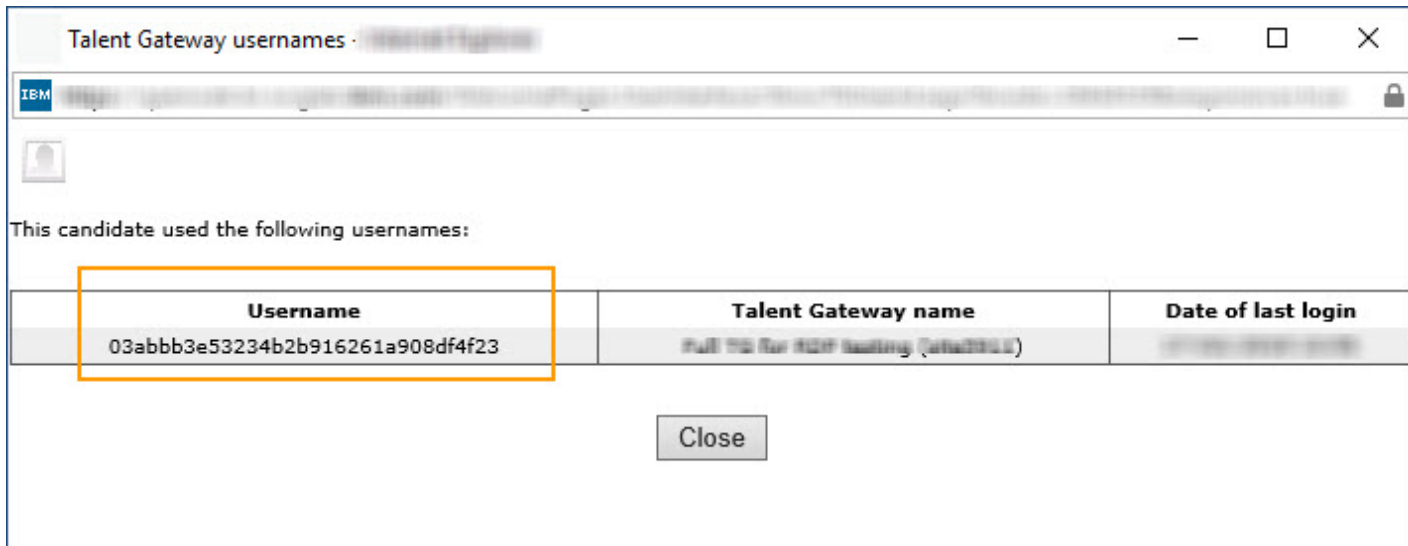
- Candidate ref num:** 481540
- Candidate Type:** Jimbo
- Email:** [redacted]
- HR Status:** Default Start
- Home phone:** 02155
- HR status date:** 17-Jul-2018
- Address 1:** N/A
- HR status updated by:** [redacted]

The 'Actions' menu contains the following options:

- Send eLink
- Send candidate ad-hoc email
- Send Candidate Communication
- Email Agency Contact
- Create Document
- Post to Candidate Zone
- Add Notes
- Add Form
- Update HR Status
- Move/Copy to Req
- Move/Copy to Folder
- Remove From Folder
- Print Resume/CV
- Prepare For Bulk Print
- Send Interview Request
- Schedule Interview
- Upload Attachment
- Send To Event Manager
- Candidate Export
- Talent Match
- Run Assessment
- Retake Assessment
- Talent Gateway User Names** (highlighted)

The 'Activity' section shows an 'Action log' table with the following data:

Action	Date	Action By	Details	Name/Type	From
Form to complete - posted	17-Jul-2018 11:18:28	[redacted]	Status: Posted	Single per candidate/req combination	[redacted]



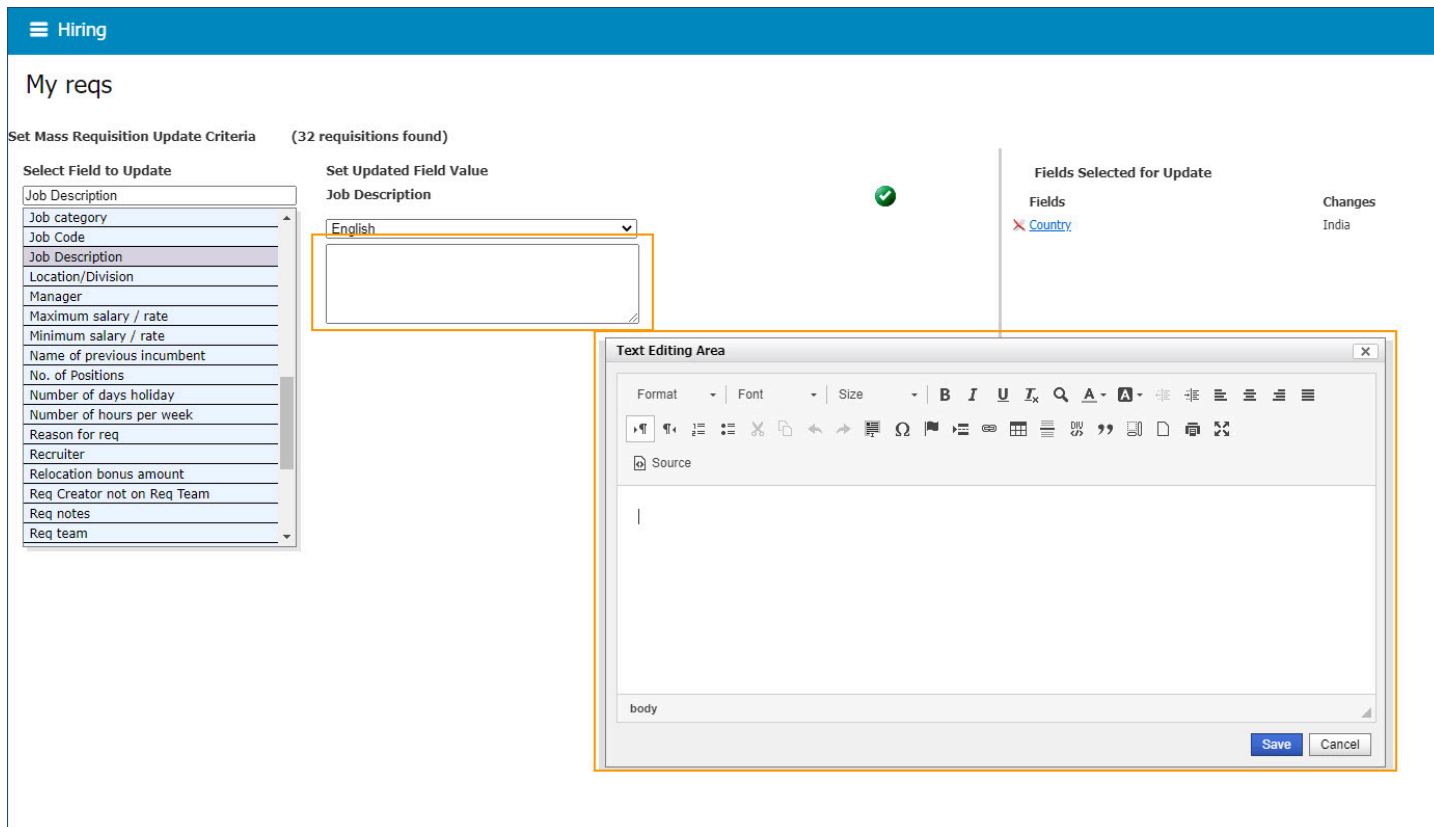
Starting this release to improve user experience and candidate experience, the username field displays an appropriate username or message. Depending on the method in which the user's profile was created in the Talent Gateway, one of the following messages is displayed in the username field:

- Skip Sign In: **User skipped sign in (no username).**
- Single-Sign-On: **Single-Sign-On account ([SSOID]).**
- Social Media: The specific social media name is displayed. Example: **Facebook account** or **LinkedIn account.**

RTC internal reference # 109231.

#### Mass Req Update - Text and Text Area Fields

Starting this release, the Text and Text Area fields are available in the Mass Req Update tool in BrassRing. BrassRing users with appropriate privileges select a field from the list of available fields. This action displays a drop-down menu for locale selection and Text or Text Area field. If the user selects a text area field for which text editor is enabled, the editor is displayed as a pop-up window. User provides appropriate update text in the text field or the text area fields and selects the **Green tick** to complete the update. If the user needs to undo the change, they select the **Blue Undo** icon.



The following validations are added to ensure that the fields are completed and the language is selected for the fields.

1. When users select update without selecting a language from the drop-down **Please select a language** is displayed.
2. When more than permitted number of characters are entered in text or text area field **The character limit of <MAXLENGTH> has been exceeded for this field** is displayed.
3. When a text area field that does not have editor that is enabled has invalid HTML code, **Please select a language** is displayed.

RTC internal reference # 133708.

### Communication Templates - Cross Environment URL Detection

There is a possibility that BrassRing users add staging related URLs in the document templates or communication templates in the Production environment. This template works without an issue unless the Staging environment is under maintenance while the templates are used for communication. To avoid such lapse, starting this release, a message is displayed when users add Staging URLs. The message **Unable to generate document due to either incorrect image URLs or system issue. Please contact your BrassRing System Administrator to check for incorrect image URLs and correct them if any** is displayed.

When users see this message the following are the actions that they can choose to take:

- BrassRing administrators can determine by going into Doc template admin page and edit the template to see which template has image URLs (like template itself or any blurb).
- Switch to source view of the HTML Editor
- Look at the URL of the image in <imgsrc> attribute of the HTML and verify that it is the same environment URL (like US Production must have one of "trm.brassring.com" or "trmx.brassring.com" or "trm128.brassring.com")

- If the environment and URL do not match, then they must remove this image and reinsert it into the template by uploading it again and save the template.

RTC internal reference # 134130.

### Data Insight Tool - Add URL While Creating Template

Previously, when BrassRing users were creating a Data Insight Template, they were unable to add a URL to the template in the notification section. The colon and slashes that are a part of the URL were removed. Based on client request, starting this release, the colon, and slashes are not removed when a URL is added. The URL can be added to the Message section of the Notification Content. Any other script-related tags apart from the colon and slash are not allowed to be added.

Before this release.

The screenshot shows a web interface for configuring a notification template. The breadcrumb trail at the top reads "Frequency > Distribution List > Notification Content > Summary". The main heading is "Notification Content". Below this, a prompt says "Specify the content for the e-mail containing the results of the scheduled template." There are two main input sections: "Subject(max 50 characters):" and "Message(max 800 characters):". Each section has a "Default" button to its right. The subject field contains the text "Your Data Insight job is ready". The message field contains a multi-line text block: "Your scheduled Data Insight Tool template is ready for download via the eLink in the attachment. If you cannot open the eLink, copy and paste it into your browser. If you are a Data Insight Tool user, you can also access the output at BrassRing > Reports > Data Insight Tool > Manage Templates > My Scheduled Jobs. Results are available for 14 days." Below the message text, a URL "httpswww.ibm.comus-enar=1" is entered in a text box and highlighted with a yellow border. At the bottom of the form, there are three buttons: "< Back", "Next >", and "Cancel".

After this release.

Frequency > Distribution List > **Notification Content** > Summary

### Notification Content

Specify the content for the e-mail containing the results of the scheduled template.

**Subject**(max 50 characters): Default  
Your Data Insight job is ready

**Message**(max 800 characters): Default  
Your scheduled Data Insight Tool template is ready for download via the eLink in the attachment. If you cannot open the eLink, copy and paste it into your browser.  
If you are a Data Insight Tool user, you can also access the output at BrassRing Reports Data Insight Tool Manage Templates My Scheduled Jobs.  
Results are available for 14 days.  
<https://www.ibm.com/us-en?ar=1>

< Back Next > Cancel

RTC internal reference # 134867.

#### **Gateway Questionnaires - File Upload error message Update**

The Responsive Gateway Questionnaire widget that is used to upload files, displays an error message when a user tries to upload more number of files than permitted. It was observed that the error message was ambiguous. The error message previously displayed was: **The uploaded files must be less than 25. Please upload files smaller than this limit.** The error message is now updated to **We're sorry ...You may only upload 25 files maximum in this section.**

RTC internal reference # 62859.

#### **Talent Gateway - File Upload Error Message Update**

It was observed if a candidate tries to upload more than five resumes or cover letter, an appropriate error message is not displayed. In the apply workflow, instead of error message, upload error is displayed. This behavior is addressed now. Starting this release, appropriate error messages are displayed:

- When uploading more than five resume/CV: **We're Sorry.. You may store up to 5 resumes/CVs.**
- When uploading more than five cover letters: **We're sorry ... You may store up to 5 cover letters.**

RTC internal reference # 134928.

#### **Talent Gateways - Accessibility Link Text Updated**

The following link text on the Talent Gateway, is updated based on client request. This update is to avoid ambiguity and for better candidate experience:

Before this change: **Skip to first action element of main content.**

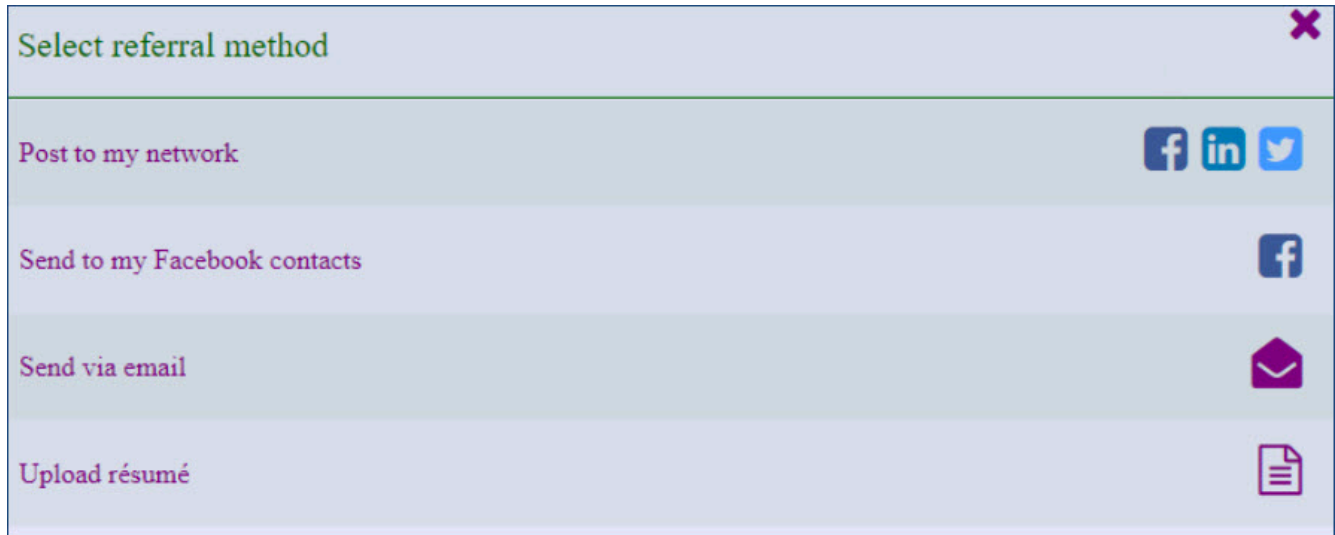
After this change: **Skip to main content.**

RTC internal reference # 134688.

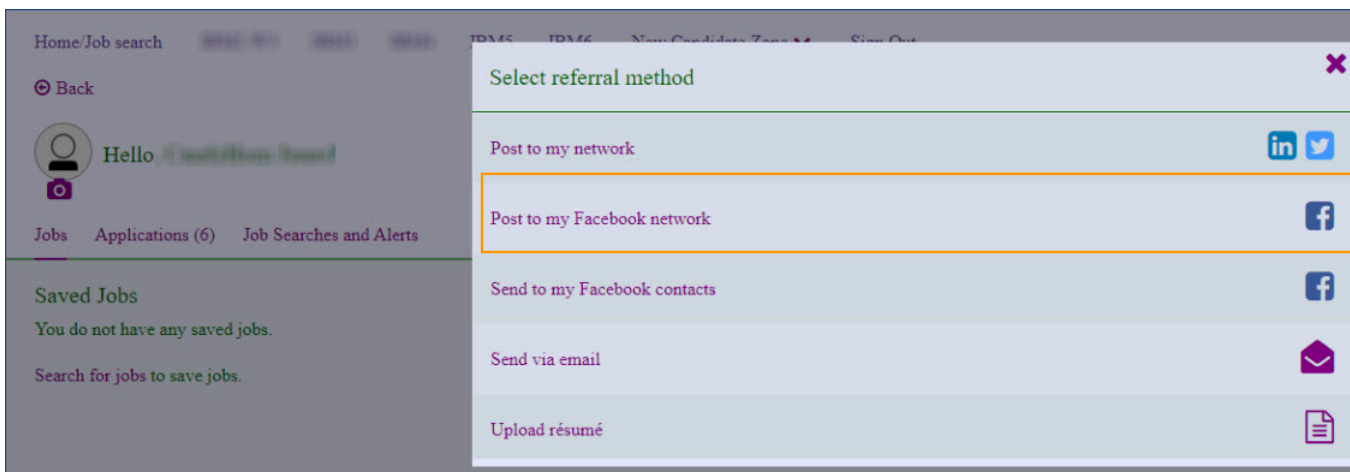
### Social Referral - Post to My Network - Facebook

Based on a change at Facebook, candidates that use the **Post to my network** referral method, are required to select the Facebook icon present in the **Select referral method** modal. However, for accessibility users, there is no indication that they are required to select this icon and it is difficult for keyboard users to select this icon. In order to improve user experience for the accessibility users, the **Facebook** icon is moved to a different row in the same modal with appropriate label. The new label is **Post to my Facebook network**.

Before this release.



After this release.



RTC internal reference # 134572.

### eLink - Form Name Display

It was observed that when a single form is sent by using an eLink, the name of the form is not displayed in the eLink. This behavior is addressed starting this release. The form's name is displayed in the eLink even when only one form is sent.

RTC internal reference # 133578.

### Lead Manager - Do Not Over-write During Parse

When users upload an MS Excel document with candidate information for an existing lead profile, existing information present in the standard fields is being overwritten. Starting this release, when an excel file is uploaded with candidate information, only standard fields that are blank are updated. Fields that already have a value are not updated.

RTC internal reference # 113378.

## Configurable Changes

The current release of IBM Kenexa BrassRing on Cloud includes the following configurable features for BrassRing and IBM Kenexa Lead Manager. Configurable features must be configured or turned on to be visible and available to users.

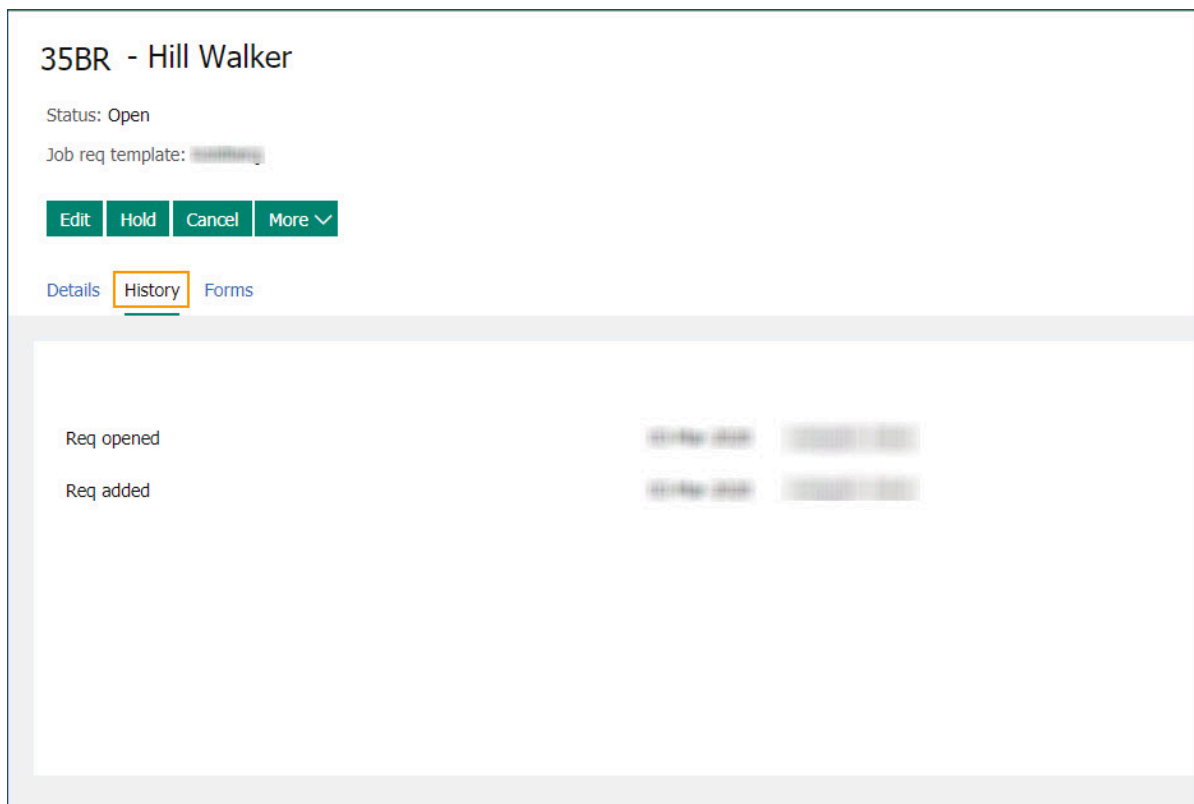
### Reqs - View Req Posting History

Previously, a req's posting history was available only in the Data Insight Report and the reports are not available to all users. Starting this release, based on user type privilege configuration and the req status, BrassRing users can view a requisition's posting history.

The History tab in **View Req** now displays a new collapsible section **Job posting history**. Users with appropriate user type privilege can see the section. The view is also dependent on the req's status. Reqs that are in a status that does not allow posting, hide the View Req Posting History section. The dates that are displayed in the grid are based on the user's time zone. The time zone is displayed in the grid in the user's locale. A search field is available in the Job posting history where free form search can be conducted across all fields. Search can be conducted for day, month, year, hours, and minutes by using numeric format only.

The information that was previously posted in the History tab is now available under the new **Req history** section.

Before this release.



After this release.

35BR - Hill Walker

Status: Open  
Job req template: Standard Req

Edit Hold Cancel More ▾

Details **History** Attachments Forms Notes

Req history ▾

Job posting preview eLink history ▾

**Job posting history** ▾

35BR - Hill Walker

Status: Open  
Job req template: Standard Req

Edit Hold Cancel More ▾

Details **History** Attachments Forms Notes

Job posting preview eLink history

**Job posting history**

Search:

*Dates are in (GMT-05:00) Eastern Time (US & Canada)*

Site Name	Site Type	Action	Action By	Action Date ▾	Posted Date	Removal Date
Internal Careers (English)	Talent Gateway	Post	[User]	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00
Gateway To Talentz	Talent Gateway	Repost	[User]	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00
External Careers (English) - No Login	Talent Gateway	Post	[User]	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00
External Careers (English) - Classic	Talent Gateway	Post	[User]	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00	11-Mar-2022 09:00:00

< 1 >

A new user type privilege is added to configure and control access to this feature. For more information, see the [Workbench section](#) of this document.



RTC internal reference # 133818.

### Talent Gateways - Single Sign-On (SSO) - Send to Friend

Previously, the Send to Friend feature was not enabled on the Single Sign-On Talent Gateways (Global or Full Talent Gateways). Based on the following criteria, the Send to Friend is now enabled:

- **Full Talent Gateway** - If Job details Page is part of the deep links selection, then, the validation 'Send to Friend cannot be turned on for SSO enabled Talent Gateways' on 'Disable send to a friend' setting is relaxed.
- **Global Talent Gateway** - The 'Disable send to a friend' setting in the UI is hidden. This setting is now enabled at the member Gateway level.
- **Member Talent Gateway** - The setting 'Disable Send to friend' is enabled. Validation on this setting is similar to any full Talent Gateway.

RTC internal reference # 127471.

## BrassRing Workbench

The current release of IBM Kenexa BrassRing on Cloud has the following new features for IBM Kenexa BrassRing Workbench. Configurable features must be configured or turned on to be visible and available to users.

### Req Posting History - New User Type Privilege

A new user type privilege **View posting history** is added. This privilege is added to the Reqs2 functional area.

**Tools > Users > User Types > Edit type permissions > Reqs 2**

The screenshot shows a dialog box titled "Edit Hiring Manager step 2: Set Reqs 2 privileges". It has two steps: "Step 1: Set name and functions" and "Step 2: Set privileges". The main content area is titled "Reqs 2" privileges and contains a "Set privileges" section with "Select All" and "Clear All" buttons. Below this is a list of 16 privileges, each with a checkbox. The "View posting history" privilege at the bottom is highlighted with an orange box. The "Save req as new" privilege is checked. At the bottom of the dialog are "Done", "Revert to Saved", and "Cancel" buttons.

Privilege	Checked
All reqs - edit autofiler notifications setting on reqs	<input type="checkbox"/>
All reqs - mass update	<input type="checkbox"/>
All reqs - notes (Notes tab) - add/view	<input type="checkbox"/>
All reqs - notes (Notes tab) - delete	<input type="checkbox"/>
All reqs - notes (Notes tab) - edit	<input type="checkbox"/>
All reqs - re-open	<input type="checkbox"/>
All reqs - view Evergreen req archived folder	<input type="checkbox"/>
Save req as new	<input checked="" type="checkbox"/>
Social Networks - Authorize Company accounts	<input type="checkbox"/>
Social Networks - Post to Company accounts	<input type="checkbox"/>
Social Networks - Post to my accounts	<input type="checkbox"/>
Social Networks - Post to my pages	<input type="checkbox"/>
Social Networks - Send Social referral email	<input type="checkbox"/>
Social Networks - Source information	<input type="checkbox"/>
View all reqs Open menu - hide	<input type="checkbox"/>
View all reqs Pending menu - hide	<input type="checkbox"/>
View posting history	<input type="checkbox"/>

By default, the checked box is cleared. Enabling this privilege provides the selected user with privileges to view a requisition's posting history.

RTC internal reference # 133818.

### **Client Setting - Assessment Vendor Configuration**

The client setting **IntegrationAssessment** allows users to update the assessment vendor integration. However, if a user changes the vendor without taking care of the existing assessment information, previously no validation was available that restricted such user actions. Starting this release, if a Workbench administrator changes an assessment vendor, an error message is displayed stating: **Cannot remove assessment vendor!! Please delete all assessments information (including associations from RAM triggers) before unchecking this configuration.**

The assessment vendors that have a dependency are unavailable. They can be changed only after the dependencies are removed.

RTC internal reference # 121137.

### **BrassRing home page Administration Configuration - New Client setting**

A new client setting is added to workbench by using which clients can allow administrators to override the home page configuration. A new setting **Allow home page configurations to be overridden by WB Admins** is added to client settings with Yes and No as options. The setting is set to No by default. When set to Yes, workbench administrators can make configuration changes to the BrassRing home page that override the existing settings of all of the users in a specific persona.

RTC internal reference # 134752.

## **Onboard**

---

Onboard new features for the current release are listed here.

### **Client Reminders**

Client reminders remind clients of recently distributed important notices and links to comprehensive documentation and training for the special features recently introduced.

This document presents changes for the **May 2021 release of Onboard:**

- US Staging - May 08, 2021
- US Production - May 17, 2021

### **Searchable PDF Release Notes**

In addition to the existing link in the Onboard Downloadable PDF Release Notes topic to a PDF version of the release notes, the major enhancements were added to the topic, making them searchable.

Access the [Downloadable PDF Release Notes](#) topic to view (for each release) a summary of the major enhancements, and also access a PDF version of the release notes.

### **Visible Changes**

Visible changes alter the appearance or performance of the product without requiring any configuration. The changes are immediately visible or available to users.

#### **Manage Users - Reduced Loading Time**

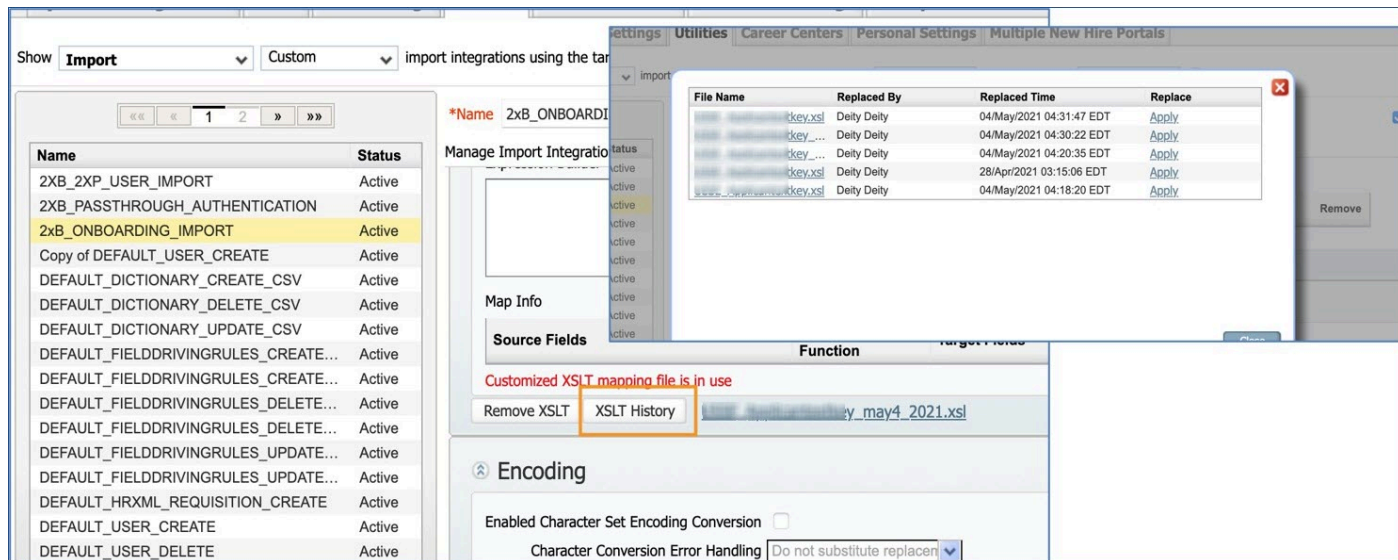
Previously, the time that is taken to load the users in the **Manage users** screen was too long. To improve user experience, changes were made to the pagination logic. Starting this release, the **Manage users** page loads up to a maximum of 1000 users. Filter search option can be used to search for the users that were loaded and users that were not loaded.

RTC internal reference # 244779.

#### **XSLT Files - Audit Log**

Starting this release, the XSLT imports are logged for audit purposes. The last 10 XSLT import history is maintained in the system. The following information about each import is displayed:

- XSLT file name.
- Date and Time of the change.
- Name of the user responsible for the change.
- Ability to set older versions as "current".



RTC internal reference # 151987.

### I9 Audit Trail - Investigations

The following issues in the I9 audit report were resolved during the current release:

- Reopen action was being repeated - This issue is resolved now.
- Reopen actions from e-verify page was not being audited. This issue is resolved now.
- Reopen I9 section2 from task list page was not being audited every time.
- After reopen action, the I9 must create action (This change is new implementation- after 'REOPEN\_I9SECTIONONE' action I9\_CREATE is shown with DRAFT status for new I9 after 'REOPEN\_I9SECTIONTWO' action I9\_CREATE is shown with SECTION1\_COMPLETED status for new I9.)

RTC internal reference # 244514.

## Configurable Changes

Configurable features must be configured or enabled to be visible and available to users.

### Personal Information - Saving BWS Audit

Previously, when users save personal information, the information was not being saved in BWS audit. Starting this release, the information is also saved in the BWS Audit.

RTC internal reference # 244882.

### Attachments - New File Types

Starting this release the following three types of files are can be used for attachment in Onboard.

- .jpeg
- .heic
- .heif

RTC internal reference # 244316.

## Fixed Defects

In the current IBM Kenexa Onboard release, the following defects were addressed.

<b>RTC Jazz Number</b>	<b>Defect Description</b>
244676	TS005145542 - External Key missing in MNH - Indexing
244918	TS005252162 -Dis-positioned by in MNH
244929	TS005265011 - Unable to preview Email template in Manage Correspondence page in legacy
244957	TS005276646 - Legacy error when searching for candidate
245014	TS005287934 -New Hire Start Date update not showing correctly in MNH
245239	TS005376069 -Field Validation Issues
245370	TS005459191 - Manage New Hires page is blank under Portuguese Brazil locale
245407	TS005470366 -US (Production) / E-Verify not pulling up correctly
245414	TS005470830 - unable to re-open the I-9 Section 1 or 2 within E-verify once a Confirm Details/Case Incomplete result is received

## Notices

---

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive, MD-NC119  
Armonk, NY 10504-1785  
US*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing  
Legal and Intellectual Property Law  
IBM Japan Ltd.  
19-21, Nihonbashi-Hakozakicho, Chuo-ku  
Tokyo 103-8510, Japan*

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you provide in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive, MD-NC119  
Armonk, NY 10504-1785  
US*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

The client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work must include a copyright notice as follows:

© (your company name) (year).

Portions of this code are derived from IBM Corp. Sample Programs.

© Copyright IBM Corp. \_enter the year or years\_.

## Programming interface information

---

## Trademarks

---

IBM, the IBM logo, and [ibm.com](http://ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at [www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

## Terms and conditions for product documentation

---

Permissions for the use of these publications are granted subject to the following terms and conditions.

### **Applicability**

These terms and conditions are in addition to any terms of use for the IBM website.

### **Personal use**

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

### **Commercial use**

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

### **Rights**

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

## IBM Online Privacy Statement

---

## Safety and environmental notices

---







