

Interactive Session Recorder

Release Notes



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Interactive Session Recorder Release Notes, Release 6.3

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About This Guide

The Interactive Session Recorder (ISR) Release Notes provides the following information:

- An introduction to the full release
- An overview of the new features available
- A summary of caveats, known issues, and fixes

If any of these sections does not appear in the document, then there were no changes to summarize in that category for that specific release.

Related Documentation

The following table describes the documentation set for this release.

Document Name	Document Description
ISR Release Notes	Contains information about new ISR features, caveats, and known issues.
ISR Installation Guide	Provides an overview of the ISR, hardware/software requirements and recommendations, storage considerations, pre-installation information, installation procedures, post-install verification procedures, making the first call, and additional advanced topics about the ISR.
ISR User Guide	Contains information about using the ISR Dashboard for all levels of users. Provides information about viewing, playing, deleting recordings, running reports, and managing user profiles.
ISR Administrator Guide	Contains information about using the ISR Dashboard for the Administrator level user (Super User, Account Administrator, Tenant Administrator). Provides information about creating and managing accounts, routes, and users. Also provides information about configuring the ISR, running reports, viewing active calls, and securing the ISR deployment.
ISR API Reference Guide	Contains information about ISR FACE, Recording File Types/Formats Supported, Return Codes, and Troubleshooting.
ISR Monitoring Guide	Provides provisioning, configuration and test instructions for the NET-SNMP implementation to monitor all ISR component hosts.

Document Name	Document Description
ISR Security Guide	Contains information about security considerations and best practices from a network and application security perspective for the ISR product.

Revision History

This section provides a revision history for this document.

Date	Description
July 2019	• Initial release of ISR 6.3 software.
October 2019	• Updates Oracle Linux support to Releases 7.2 - 7.6.
January 2020	• Updated for release 6.3.0M0P1.
July 2020	• Updated for release 6.3.0M0P2.
November 2020	• Updated for release 6.3.0M0P3.
February 2021	• Updated for release 6.3.0M0P4.
April 2021	• Updated for release 6.3.0M0P5.
July 2021	• Updated for release 6.3.0M0P6.
July 2021	• Updated for release 6.3.0M0P7.

1

Introduction to Oracle Communications Interactive Session Recorder 6.4

The Oracle Communications Interactive Session Recorder (ISR) 6.4 Release Notes provide the following information about this product:

- Hardware and software requirements
- An overview of the new features available in this release
- A summary of Known Issues, Resolved Known Issues, and Caveats

Hardware

The Interactive Session Recorder (ISR) components are distributed as applications running on Oracle Linux Releases 7.2 - 7.7, which abstracts the ISR application from the physical hardware. As such, ISR can be deployed on any hardware platforms that support Oracle Linux Releases 7.2 - 7.7. For a comprehensive list of the hardware platforms currently certified, see the [Oracle Linux and Oracle VM Hardware Certification List \(HCL\)](#).

ISR testing is predominantly done on Oracle Server X5-2 and Oracle Server X6-2 systems with the following resource configurations:

Hardware Description	Quantity
Intel® Xeon® E5-2630 v3 8-core 2.4 GHz processor	2
One 16 GB DDR4-2133 DIMM	8
One 1.2 TB 10000 rpm 2.5-inch SAS-3 HDD with marlin bracket in RAID 10 configuration using 12Gb SAS RAID HBA	4



Note:

RAID must be configured BEFORE performing the ISR component installation.

Each of the ISR components must be installed on their own server/VM instance.

Installation Prerequisites

Before beginning your Interactive Session Recorder (ISR) installation, ensure you have completed the following prerequisites:

1. Have at least three servers (physical or virtual) with Oracle Linux Releases 7.2 - 7.7 installed.
2. Have access to the ISR rpms:
 - `isr-Index-<release#>.x86_64.rpm`

- `isr-Dashboard-<release#>.x86_64.rpm`
- `isr-rss-<release#>.x86_64.rpm`
- `isr-Face-<release#>.x86_64.rpm` (optional)

 **Note:**

You may access these files via <https://edelivery.oracle.com..>

3. Have access to the Ruby 2.6 rpm (`ruby-2.6.3.el7.centos.x86_64.rpm`). Ruby is the framework the ISR Dashboard uses and must be installed as part of the ISR Dashboard installation.

 **Note:**

As of Release 6.3M0P1, the ISR supports Ruby version 2.6.4.

4. Configure a Linux User named **isradm** on each of the Linux instances created in step 1 to allow you to automatically gain access to config and log files. Once you have configured the **isradm** Linux user, you must add the user to the "sudoers" group.
5. Verify that the hosts you are installing the ISR components on are connected to the internet.

 **Note:**

If your ISR hosts do not have internet connectivity, see "Oracle Public Yum Repository Configuration and Offline Installation Pre-Requisites in the *Installation Guide*.

6. Oracle Linux 7 has the yum package management utility configured by default with access to the "public-yum.oracle.com" repositories in the file located at `/etc/yum.repos.d/public-yum-ol7.repo`. If, for some reason, this file needs to be created, see the Appendix, "Oracle Public Yum Repository Configuration File" in the *Oracle Communications Interactive Session Recorder Installation Guide*, which contains the specific repository entries.
7. Configure interfaces; ISR expects network configuration to include 4 interfaces, connecting to separate Administration, Local, Data, and Voice networks. Refer to the Oracle Communications Interactive Session Recorder Security Guide for more information on networking and trusted boundaries. For more information on configuring networking in Oracle Linux 7, see the *man nmtui* guide and <http://www.unixarena.com/2015/04/rhel-7-network-management-nmcli-or-nmtui.html>.
8. If access to the external yum repository is gated by a proxy, ensure the **proxy** parameter in the `/etc/yum.conf` file is set to:

```
proxy=http://<your_proxy_host>
```



Note:

During the installation process, you will be asked to provide and/or verify the users, passwords and interfaces you created during the Oracle Linux installation. Ensure you have that information before you begin the installation process.

Oracle Communications Interactive Session Recorder Dashboard Requirements

The ISR (ISR) Dashboard is the web portal used for recording configuration and playback. As web technologies advance, some functionality may not be available on older browser versions. The ISR has been tested with the following web browsers and versions:

- Google Chrome (Version 63.0.3239.84 64-bit)
- Mozilla Firefox (Version 52.5.2 32-bit)
- Microsoft Edge (Version 40.15063.674.0)



Note:

Browser playback support for recording codecs changes frequently. Refer to the *Oracle Communications Interactive Session Recorder Release Notes* for current details.

Supported Codecs

The ISR supports the following transmission codecs:

- g.711 mulaw
- g.711 alaw
- g.729
- g.722 and g.722.2 (excluding g.722.1)
- H.264

The audio transmission codecs can be mapped to the following recording formats:

Header Raw	Header WAVE	Format	Bit Rate	Sample Rate (KHz)	Channels Mono	Channels Stereo
YES	YES	ulaw	8	8	YES	YES
YES	YES	alaw	8	8	YES	YES
YES	YES	Linear PCM	8	8	YES	YES
NO	YES	Linear PCM	16	8	YES	YES
NO	YES	Linear PCM	16	1	YES	NO
NO	YES	Linear PCM	16	16	NO	YES
NO	YES	ADPCM	4	8	YES	YES

H.264 video content is stored and replayed in MP4 format.

Upgrade Prerequisites

To upgrade the ISR components, you must complete the following prerequisites:

1. The ISR component hosts are properly running on the Oracle Linux Release 7.2 - 7.7 OS
2. Access to the following upgrade tar files from the ISR component hosts:
 - isr-Index-<release#>-upgrade.tgz
 - isr-Dashboard-<release#>-upgrade.tgz
 - isr-rss-<release#>-upgrade.tgz
 - isr-Face-<release#>-upgrade.tgz
3. Have access to the Ruby 2.6 rpm (ruby-2.6.3.el7.centos.x86_64.rpm).
4. For the duration of the maintenance window, all call traffic is stopped on all sites and outside client access to the Dashboard and API services is prohibited.



Note:

The following instructions assume the recommended "isradm" Linux user has sudo permissions.

WARNING: The upgrade process for each component includes a critical backup step that copies important host configuration, ISR application configuration, ISR application platform configuration, ISR application data, encrypted keys, keystores, and log files to a temporary directory before consolidating these copies into a compressed set of files for a potential rollback situation. This backup step requires additional disk space to successfully write the files, and a warning prompt is displayed to detail concerns and recommend an option to mount an additional drive if disk space may be an issue. Oracle strongly recommends you consider these details and the recommended option carefully before continuing with the upgrade. For more information about mounting remote storage, see [Chapter 22, Shared File System Administration](#) from the Oracle Linux Administrators Guide Release 7.

For more information on upgrading the ISR, see the *Installation Guide*.

Upgrade Caveats

The following items provide key information about upgrading with this software version.

Upgrading from 5.2 to 6.4

The nokogiri 1.8.4 gem installation failed during ISR 5.2 to 6.4 upgrade using the Dashboard.

Workaround: When the error occurs, run the following commands:

```
sudo yum install -y gcc ruby-devel libxml2 libxml2-devel libxslt libxslt-  
devel  
bundle config build.nokogiri --use-system-libraries
```

Then run *config/sr.sh* to install the remaining gems.

Dashboard Rack Issue

A Dashboard rack issue has been observed during ISR 6.0.5 to 6.4 upgrade.

Workaround: Stop the puma server, using the **service puma stop** command, before running *upgrade/sr.sh*. Execute the **gem uninstall rack** and **gem uninstall nio4r** commands to uninstall the rack and nio4r gems, then execute the *upgrade/sr.sh* and *config/sr.sh* scripts.

Conversion Errors

An upgrade from 5.2 to 6.x likely results in conversion failures until each Location has been updated to properly reflect connections to the Converter using the Data Network. Log into the Dashboard and update each Location in the "Recording Converter" section by setting the "Converter IP Address" field to the Converter's data network IP address. You may confirm the Converter data IP in the "Converter Server Configurations" accordion of the corresponding RSS.

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New Features in Oracle Communications Interactive Session Recorder 6.3

This section lists and describes features developed and released new for Interactive Session Recorder (ISR) 6.3.

Dashboard GUI Uplift

The ISR Dashboard GUI is upgraded to the new Oracle JavaScript Extension Toolkit (JET) based framework, making the look and navigation more consistent and accessible.

Note:

In previous versions of the ISR Dashboard, the Accounts page contained **Routes** and **Users** accordions. By clicking on these accordions, selecting a Route or User, and clicking the Details icon, the ISR would navigate the user to the Edit Route or Edit User page. The ISR Dashboard no longer behaves this way. The Accounts page contains Routes and Users train stops that display view-only lists of the Routes and Users associated with the Account.

Multiple Partition Support

The ISR can be configured with more than one partition. For more information on configuring multiple partitions on the ISR, see "Multiple Partition Support" in the *Installation Guide*.

Log In Banner Customization

The ISR supports customizing welcome banners for users and user groups when logging into the system. For information on configuring a custom log in banner, see "Customizing a Log In Banner" in the *Security Guide*.

Configuring ISR Recordings for Encryption Using Third-Party Software

The ISR supports encryption capabilities, as well as restriction of access to recording files, using the Oracle ZFS Storage Appliance.

For information on mounting the ISR to a NFS, see "Configuring an NFS Share For Archival".

For more information on the Oracle ZFS Storage Appliance and instructions on how to configure this functionality, see https://docs.oracle.com/cd/E27998_01/html/E48433/.

3

Caveats and Known Issues

This chapter lists the caveats, known issues, and limitations for this release. Oracle updates this Release Notes document to distribute issue status changes. Check the latest revisions of this document to stay informed about these issues.

Caveats in Oracle Communications Interactive Session Recorder 6.3

The following information lists and describes the caveats and limitations for this release. Oracle updates this Release Notes document to distribute issue status changes. Check the latest revisions of this document to stay informed about these issues.

Oracle Linux

- In Oracle Linux version 7.4, the default SELinux and FirewallD versions have stricter policies that impact application file handling and communications from the Linux host. The impact is very disruptive to ISR, with RSS internal API, FACE, and Archival unable to initialize with their configurations in the database and unable to write to their expected log files. Also, Recorder and converter processes cannot initialize as well, since the internal API cannot return their configurations. While the incompatibilities are expected to be addressed in a subsequent Oracle Linux release, Oracle recommends the following two workaround options:
 - Permissive access to the Tomcat process—Execute the **semanage permissive -a tomcat_t** command.

Note:

Permissive access to the Tomcat process requires that you have an additional package installed on the system (i.e., **yum install polycycoreutils-python**).

- Downgrade certain SELinux components—Execute the following command:

```
$ sudo yum downgrade selinux-policy-3.13.1-102.0.3.el7_3.16 selinux-policytargeted-3.13.1-102.0.3.el7_3.16 firewalld-0.4.3.2-8.1.el7_3.2 pythonfirewall-0.4.3.2-8.1.el7_3.2 firewalld-filesystem-0.4.3.2-8.1.el7_3.2 firewallconfig-0.4.3.2-8.1.el7_3.2
```

- The Oracle Linux firewalld services, enabled by default on all ISR component hosts, have demonstrated a performance impact (of as much as 25%), using Oracle hardware. When considering the balance of security vs. performance, see the Oracle Communications Interactive Session Controller Security guide for more information on the configuration options of firewalld services and their benefits.

- RTP IO port initialization fails in performance load testing when there is a port conflict between the RTP port and the Linux Ephemeral port, which is used by Archiver/API for DB connection. As a result, RSS fails to record calls on the conflicted port. The Recorder process maintains a port pool to listen to RTP and this RTP port range depends upon configured session capacity. The formula to calculate RTP port pool range is as follows:

```
RTP start port -> {RTP start port + (Number of sessions * max
number ports per session)}
```

For each channel (session) the Recorder process requires 8 ports (2 Audio, 2 Video; these must be on even numbers). The RTP Start port default value is 11000. For example, if Channel capacity is configured as 2500, then the RTP port pool range will be as follows:

```
11,000 -> {11,000 + (2500*8)} => 11,000 -> 31,000
```

The Linux default ephemeral port range is 32768 - 60999 (this can be found at `/proc/sys/net/ipv4/ip_local_port_range`).

This issue will occur only if session capacity is configured over 2500 for a single site. If configured session capacity is more than 2500, there will be port conflict between RTP and Linux ephemeral port.

To avoid conflict, first calculate the RTP port range using the formula above and then change the Linux ephemeral range value accordingly.

Workaround:

1. Login as root and use a text editor to open `/etc/sysctl.conf`.
2. Add or change the following:

```
net.ipv4.ip_local_port_range = <start_Port> <End_port>
```

Replace `<start_Port>` and `<End_port>` with the required values.

3. Restart the network using the following command:

```
# /etc/rc.d/init.d/network restart
```

4. Verify that your changes are present using the following command:

```
cat /proc/sys/net/ipv4/ip_local_port_range
```

ISR Dashboard

- The Dashboard fails to load in certain scenarios with an error message that complains of too many redirects. The following is an example message in the Chrome browser:

```
This page isn't working
<Dashboard host name> redirected you too many times.
Try clearing your cookies.
ERR_TOO_MANY_REDIRECTS
```

An example message in the Firefox browser:

```
The page isn't redirecting properly
Firefox has detected that the server is redirecting the request for
this address in a way that will never complete.
This problem can sometimes be caused by disabling or refusing to
accept cookies.
```

To resolve the problem, clear the browser's cookies.

- In certain scenarios with the Chrome browser, when the **Allow HTTP Cache of Recording files?** Dashboard configuration property set to **True**, the scroll bar still does not function properly for scrolling forward or back during recording playback.
- A certificate handling conflict exists with the ISR Dashboard web server that occasionally leads to latency and perceived unresponsiveness when clicking links and submit buttons. The request is properly transmitted, and the response ultimately does arrive, but much later than the expected time frames of previous versions of the Dashboard.
- The current Oracle JavaScript Extension Toolkit (OJET) release does not support aria labels for tables. As a result, the JAWS tool does not detect aria labels.
- Upon implementation of OJET, when a browser is zoomed out to less than 100%, the **Show Columns** drop-down checkboxes are not visible.

ISR Archival

- When multiple Archival hops are configured for a single Archival instance (i.e., Account Archival plus RSS Primary to Secondary Locations), a thread conflict may occur that leads to unresponsiveness from the Archival process.
- The Source Location's Advanced Configuration settings control the Archival decisions during the "hop", (i.e. the move of the recording from the Source to Destination Location).
- If the Archival cron schedule has been set to any other value than the default two minutes ("0 0/2 * * ? * *"), this setting will be lost and the schedule reverted to 2 minutes. For more information on changing the Archival schedule, contact your Oracle representative.
- Deletion and renaming of historical recordings that have been archived may fail due to changes in Archival Location directory paths, SFTP servers, or client user permissions.

ISR Index

- Oracle recommends you configure the ISR Index component time zone to be set to UTC. To do this, upon installation the configIsr.sh script prompts the user for permission to configure the system time zone to UTC. You can configure all other ISR components' time zone as needed.
- To add ISR users from the primary Index to the Secondary Index, you must execute replication configuration for mysql database in `/etc/my.cnf` file in single site implementations. In double site implementations, in `/configIsr.sh` script, ensure you give all users the same password.

ISR RSS

- You can only have one MySQL user password across all RSSs for each RSS user type. For example, if multiple RSSs are configured to use the same 'israpi' MySQL user name, the password must be the same for every RSS.

Web Browsers

ISR recording playback errors have been reported for the following web browsers:

- Firefox—Firefox is not supporting playback of the 8-bit/8 kHz audio format set in the "Default Recording Format Profile" for the g711 transmission codec (historically the most popular transmission codec). Most commonly, the Dashboard's playback controls appear only briefly before becoming unavailable. To work around this issue, for routes using the "Default Recording Format Profile", change the setting to the Firefox Supported Recording Format Profile, where the g711 transmission codec is converted to the PCM 16-bit/16 kHz recording format.
- Internet Explorer—You must use the Windows Media Player plugin to play recorded wave files via Internet Explorer. Without the plugin, an "Invalid Source" error appears in the player popup. This browser support issue impacts ObservIT Screen Recording integrations with ISR, where the Chrome or Firefox browsers must be used for playback instead of Internet Explorer.
- Chrome—Displays some inconsistent behavior with playback of long recordings in internal tests, where the browser stops playback prematurely. Playback in another browser rectifies the problem.
- Video and screen capture slide playback may display recording length as NaN. Close the playback window and repeat playback.
- Subsequent video playback only plays audio. Close the playback window and repeat playback.
- Screen capture slide playback progress bar may not move or move accurately. Close the playback window and repeat playback.

 **Note:**

Playback failures may also occur with the Quicktime plug-in version 7.7.7. If you encounter these issues, downgrade to version Quicktime 7.7.4.

General

- The Segmentation feature, when enabled, may cause corruption to video recording. Oracle recommends disabling this feature for recording video.
- In a commitment to the more flexible design of Custom Data Fields, FACE and Dashboard no longer present the following specific fields in recording segment details:
 - agent ID
 - agent terminal
 - categories
 - completed
 - hours
 - notes
 - rating

- transcriptions
 - Double-check network settings to ensure that interfaces are enabled at boot, (ONBOOT=yes). For example, /etc/sysconfig/network-scripts/ifcfg-XXXX.
 - To use NFS shares to backup ISR configurations and data, you must meet the following prerequisites:
 - Configured ISR host (with networking access to NFS share on the remote host)
 - NFS share with no_root_squash option and writable by root user on the client
- To store ISR configuration and data backups on a remote host via NFS:
1. Set up and export the remote share. For more information, see the Oracle Communications Interactive Session Recorder Installation Guide.
 2. Configure and test the client on the ISR host.
 3. Ensure that the "isradm" user (or other configured non-root user) can connect, read, and write files from the share.
 4. Backup ISR configuration and data files using the b menu option in the configIsr.sh file and use the local path to the remote share to the location to store configuration and data backups.
 5. Verify the contents of the data and configuration backups using the **tar tzf /backup/path/<isr_component>-data.tgz** or **tar tzf /backup/path/<isr_component>-configs.tgz** commands (replacing <isr_component> with the specific component data and backup filenames).
- After upgrading FACE, existing tokens become invalid and you must login again to proceed.

Known Issues in Oracle Communications Interactive Session Recorder 6.3

The following table lists the Interactive Session Recorder (ISR) known issues:

ID	Description	Severity	Found In
30010471	Locale files are removed after upgrading the ISR Dashboard.	3	6.3.0
32428888	'Advanced Search' not working properly for some fields.	4	6.3.0M0P5
29899684	Issues with audio sync with captured screens while playing ObserveIT recordings.	3	6.3.0
28577986	Deleting recordings via FACE successfully deletes recorded file(s), but fails to delete some files in certain scenarios.	3	6.2M0P0
28579059	FACE recording details responses have improperly segment formatting in JSON.	4	6.2M0P0
28575227	Dashboard Security Settings fields are not properly reset to saved value when dialog is closed without updating	4	6.1M0P0
27430649	Playback of AMR-WB encoded session recordings is distorted and even unintelligible in certain scenarios.	3	6.1M0P0
27580390	MD5 checksums are not calculated for video recordings.	4	6.0M0P0

ID	Description	Severity	Found In
27580403	Renaming video or other "supplemental" files is not possible using Archival.	4	6.1M0P0
N/A	Install and upgrade, do not explicitly set FACE recording retrieval timeouts for downloads. To edit the default setting, contact your Oracle account representative.	N/A	6.1M0P2
27580607	Subsequent video playback attempts may not be successful and may force the user to close the player to play again. This issue is specific only to the Chrome browser.	3	6.1M0P0
28945217	ISR Dashboard latency during service puma stop/start/restart.	3	6.2M0P0
N/A	Major browsers may display an invalid recording duration during playback (for example, "NaN" in Chrome). To fix this, enable the security setting Allow HTTP Cache of Recording files? (disabled by default) and reload the recording playback.	N/A	6.2M0P0

Resolved Known Issues

The following table provides a list of previous Known Issues that are now resolved.

ID	Description	Severity	Found In	Fixed In
30505546	External Event Notifications forming improperly after upgrading to 6.2M0P4.	3	6.2.0M0P4	6.3.0M0P2
32737872	Recordings are incorrectly sorted at 12 AM time with 12 hour time format.	4	6.4.0M0P4	6.3.0M0P7
32863067	Call fail with 488 not acceptable here.	2	6.4.0M0P4	6.3.0M0P7
32891716	Recording_Missing not created for the recording with no media when the purge request is enabled.	4	6.4.0M0P4	6.3.0M0P7
32891740	Archival exception when the file rename exceeds max attempt.	4	6.4.0M0P4	6.3.0M0P7
32643410	Archiver is working but with errors being logged.	3	6.4.0M0P0	6.3.0M0P6
N/A	Sever.xml content getting emptied on running configlsr on 6.3 RSS and 6.3 FACE.	3	6.3.0M0P0	6.3.0M0P6
N/A	Not able to update 'Route Mode' to 'record and save' in Routes.	3	6.4.0M0P0	6.3.0M0P6
32653916	Backup some config files during upgrade to allow smooth rollback.	4	6.4.0M0P0	6.3.0M0P6
32644465	The Dashboard's Search functionality is not working properly when doing Sort Order.	3	6.4.0M0P0	6.3.0M0P6
32649489	The Dashboard's Recorder configuration is not editable upon upgrading from 5.2 to 6.4.	4	6.4.0M0P0	6.3.0M0P6
32619516	ISR Dashboard Tenant Admin error with primary account.	3	6.4.0M0P0	6.3.0M0P6
32524940	Recording Format Profiles is defaulted to default accounts and routes after an Index upgrade.	3	6.4.0M0P0	6.3.0M0P6
32536160	MYSQL Data truncation error on Duration along with negative duration of recording.	2	6.4.0M0P0	6.3.0M0P6

ID	Description	Severity	Found In	Fixed In
321000 12	FACE recording control requests are unsuccessful with a fresh ISR installation.	3	6.4.0M OP0	6.3.0M OP5
N/A	FACE API pause/resume error messages may omit details.	N/A	6.2.0M OP0	6.3.0M OP5
N/A	Some special parameters ignored in FACE.	N/A	6.2.0M OP0	6.3.0M OP5
N/A	FACE API resume should log pause during duration.	N/A	6.2.0M OP0	6.3.0M OP5
N/A	FACE must allow exact 'end' search for segments.	N/A	6.2.0M OP0	6.3.0M OP5
N/A	Inconsistent Allow headers in FACE API.	N/A	6.2.0M OP0	6.3.0M OP5
N/A	FACE API HTTP 405 expansion.	N/A	6.2.0M OP0	6.3.0M OP5
323192 59	ISR server not recording calls due to an error in transit conferenced.	2	6.4.0M OP0	6.3.0M OP5
321644 15	Searching by category not working.	4	6.4.0M OP0	6.3.0M OP5
N/A	Record save search (quick search) not working properly.	4	6.4.0M OP0	6.3.0M OP5
N/A	CSV import for users, routes, and accounts fails if improper column values are provided.	4	6.2.0M OP0	6.3.0M OP5
322846 55	Post upgrade to 6.4m0p2 unable to fetch users in Dashboard.	3	6.4.0M OP0	6.3.0M OP5
321652 60	Recordings incorrectly stored based on data.	3	6.4.0M OP0	6.3.0M OP5
321645 60	Search results reset in ISR 6.4p1 Dashboard.	3	6.4.0M OP0	6.3.0M OP5
321045 35	Dashboard taking long time to load recording.	4	6.4.0M OP0	6.3.0M OP5
321045 34	Live session recordings optimization.	4	6.4.0M OP0	6.3.0M OP5
320860 60	Dashboard not displaying Tab Segment1.	2	6.4.0M OP0	6.3.0M OP5
N/A	Routes section displaying 'undefined' message.		6.4.0M OP0	6.3.0M OP5
N/A	Record save search (quick search) not working properly.	4	6.4.0M OP0	6.3.0M OP5
321974 98	ISR Dashboard displays issue in Routes section.	3	6.4.0M OP0	6.3.0M OP5
304320 52	Incorrect formatting of port in RSS advanced settings.	4	6.3.0M OP0	6.3.0M OP5
323057 56	Archiver process silently stopped on RSS.	2	6.4.0M OP0	6.3.0M OP5
319316 33	Archiver created in site2 beign added to site1.	4	6.3.0M OP0	6.3.0M OP5
275340 39	Converter does not apply amr-wb concurrent sessions configuration.	3	6.1.0M 0	6.3.0M OP5
321895 11	Call sets up as G.711 codec being sent in SIPREC as G.729.	2	6.4.0M 0	6.3.0M OP5

ID	Description	Severity	Found In	Fixed In
27353471	User Audit shows invalid entries for a new user.	3	6.1.0M0	6.3.0M0P4
N/A	Dashboard Advanced Search time zone issue.	N/A	6.4.0M0	6.3.0M0P4
31666480	Issue with advance search download CSV with include details.	4	6.2.0M0P0	6.3.0M0P4
28787447	Dashboard needs to support user configurable SFTP port numbers.	3	6.2.0M0P0	6.3.0M0P4
31613255	Ojet Dashboard issue when two different users, tenantadmin and TENANTADMIN, are created.	3	6.2.0M0P0	6.3.0M0P4
31785463	Files not converted after being recorded.	3	6.2.0M0P0	6.3.0M0P4
31872892	The DB table, mysql/ innodb_index_stats has length mismatch in the column name table_name.	4	6.2.0M0P0	6.3.0M0P4
31888064	Issue with Download split recordings when the call is going on.	4	6.2.0M0P0	6.3.0M0P4
N/A	Issue with Mysql upgrade to 5.7.31.	N/A	6.2.0M0P0	6.3.0M0P4
27740537	API INFO level logs for keys, DB password, and no codec updates.	4	6.2.0M0P0	6.3.0M0P4
N/A	Time zone applicable for FACE users.	N/A	6.4.0M0	6.3.0M0P4
31929775	Update tomcat to always latest 7.* version.	4	6.2.0M0P0	6.3.0M0P4
N/A	Remove LOCAL Access type while enabling Archive by Account.	N/A	6.2.0M0P0	6.3.0M0P4
27599754	Converter logs filled with INFO-level configuration updates.	4	6.2.0M0P0	6.3.0M0P4
31974048	Password reset security issue.	2	6.4.0M0P0	6.3.0M0P4
31971544	Dashboard GUI taking longer time on ISR version 6.3.	3	6.3.0M0P0	6.3.0M0P4
28353967	Temporary FACE tokens must be stored encrypted.	4	6.0M0P0	6.3M0p3
31218157	Error on Recordings Listing page when trying to use Advanced Search.	3	6.2M0P0	6.3M0P3
31217573	Archiver overrides the FACE deletion request.	4	6.3M0P0	6.3M0P3
31217546	FACE download fails when the Source and Destination of the Archiver are set to the same location.	4	6.3M0P0	6.3M0P3
31130139	Some fields are missing in the Accounts' section's Route Defaults page.	3	6.3M0P0	6.3M0P3
31003167	The Label field on the Route page is not searchable.	3	6.3M0P0	6.3M0P3
30815140	CSV reports export the full JSON payload for Custom Variables instead of the Custom Variable Data.	4	6.3M0P0	6.3M0P3
30736183	Custom Data Fields are shown in lower case in Recordings section.	3	6.3.0M0P0	6.3M0P3
28131531	Template definition update issues.	4	6.2M0P0	6.3M0P3

ID	Description	Severity	Found In	Fixed In
31303587	ISR notification issue when two accounts are opened.	3	6.3M0 P0	6.3M0 P3
30548412	Secondary database encrypted password not working.	3	6.2M0 P1	6.3M0 P3
28829401	Account admin user cannot view RSS, Archivers, or Locations.	4	6.2M0 P0	6.3M0 P3
28787925	After importing accounts, deletion errors are observed.	4	6.2M0 P0	6.3M0 P3
28782392	Dashboard does not recognize more than 2 Terabytes of disk space.	4	6.2M0 P0	6.3M0 P3
28639321	Error dialog box when using advanced search.	4	6.2M0 P0	6.3M0 P3
28570556	Null pointer exceptions/500 errors in FACE audioRecording/split.	4	6.2M0 P0	6.3M0 P3
28131558	When lower priority message shows in Routes, the Continue function does not work.	4	6.2M0 P0	6.3M0 P3
29222830	5.2M1 to 6.2P2 upgrade creates ifcfg artifact which prevents recorderd start.	3	6.2M0 P0	6.3M0 P3
31286756	RTP IO initialization failed in performance load.	3	6.2M0 P0	6.3M0 P3
31321506	Socket timeout exception in Face.log.	3	6.2M0 P0	6.3M0 P3
31321542	Server.xml connector string got modified incorrectly upon re-run of configlsr.sh.	3	6.3M0 P0	6.3M0 P3
27773863	Index configlsr script has no option to re-enter password if it is initially entered wrong.	4	6.2M0 P0	6.3M0 P3
27876985	Dashboard "sip auth password" is shown in clear text.	4	6.2M0 P0	6.3M0 P3
28583506	Dashboard segment details are not properly displaying DTMF.	4	6.2M0 P0	6.3M0 P3
31400206	Conversion failure during 300/15 cps AMR-WB load on VM.	4	6.3M0 P0	6.3M0 P3
31321555	Location drop-down is not refreshing with location listing in Recorder and Archiver configuration.	4	6.3M0 P0	6.3M0 P3
31287703	Recordings present in the DB are unavailable in Physical location for Performance load.	3	6.2M0 P0	6.3M0 P3
31166448	In 'Service' section's /var/log/message or Dashboard, "Unknown value 'ExecStatus'" shown.	4	6.3M0 P0	6.3M0 P3
30796850	Unable to associate System Account to other Account's user.	2	6.3M0 P0	6.3M0 P3
30452611	Error in Face Tomcat server.xml causing TLS 1.2 not to be enabled.	4	6.3.0M0P0	6.3.0M0P2
29589570	Disable the weak TLS1.0 and 1.1 ciphers.	4	6.3.0M0P0	6.3.0M0P2
30452640	When running Index configlsr.sh, the script does not pull the temporary mysql password.	4	6.3.0M0P0	6.3.0M0P2
30616680	Disable the weak TLS1.2 ciphers.	4	6.3.0M0P0	6.3.0M0P2
30610130	UI issues, including the Help field.	4	6.3.0M0P0	6.3.0M0P2

ID	Description	Severity	Found In	Fixed In
30620995	Duplication of some fields.	3	6.3.0M0P0	6.3.0M0P2
29435273	Error importing new certificates on certain ISR versions.	3	6.3.0M0P0	6.3.0M0P2
30515293	FACE recordings with the '+' character in the filename are saved with an incorrect file name.	3	6.3.0M0P0	6.3.0M0P2
30399966	Issues with the Filename when using the Start/Stop command.	2	6.3.0M0P0	6.3.0M0P2
30706496	Some values missing from the Routes section.	4	6.3.0M0P0	6.3.0M0P2
30717842	Some custom fields not appearing on Recording screen.	3	6.3.0M0P0	6.3.0M0P2
30772584	RSS restarting multiple times.	2	6.3.0M0P0	6.3.0M0P2
N/A	Remove DTMF digits from ISR logs in Debug mode.	4	6.2.0	6.3.0M0P1
30206625	ISR Certificates not updating when regenerating.	4	6.2.0	6.3.0M0P1
30037916	External Event containing Start time or End time failing.	2	6.2.0	6.3.0M0P1
29899906	Creating routes using .csv files may create problems, with the ISR replacing values from the .csv and replacing them with default values in the database.	3	6.3.0M0P0	6.3.0M0P1
29888245	Dashboard Recordings cannot be sorted based on identifying criteria, such as From, To, CallID, or sessionID data fields.	3	6.3.0M0P0	6.3.0M0P1
30009374	Deleting custom data does not remove it from "Recording List Settings".	3	6.3.0M0P0	6.3.0M0P1
30061160	Recordings alignment and Saved search not sorting and not showing when multiple searches are saved.	4	6.3.0M0P0	6.3.0M0P1
30231758	API query for recordings receiving two records with same callID (wav and rpdd).	3	6.2.0	6.3.0M0P1
30231747	"Session Metadata" and "Session Participant Metadata" missing.	3	6.2.0	6.3.0M0P1
30203063	A Null pointer exception issued in API log during high traffic.	4	6.2.0	6.3.0M0P1
28727815	The Dashboard generates an erroneous statistical report when the user time zone is set to a time zone other than "UTC". Since the statistical reports are generated in the database on a daily basis, and because these are aggregated statistics without the correct recording time, it impacts report statistics. Oracle recommends setting the user time zone to UTC to see accurate statistics.	4	6.2M0P0	6.2M0P1

ID	Description	Severity	Found In	Fixed In
28229026	<p>Upgrades to 6.1MOPx require an additional configuration for MySQL client application hosts. Add the following configuration to the RSS host:</p> <ol style="list-style-type: none"> Copy the original host configuration file: <pre>\$ cp /etc/sysctl.d/isr.conf /opt/isr/releases/</pre> Edit the file <code>/etc/sysctl.d/isr.conf</code>, and add the following line: <pre>net.ipv4.tcp_tw_reuse = 1</pre> <p>Add the following configuration to the FACE host:</p> <ol style="list-style-type: none"> Create a file <code>/etc/sysctl.d/isr.conf</code> and add the following line: <pre>net.ipv4.tcp_tw_reuse = 1</pre> 	4	N/A	6.2.0
29336610	Archiver database reconnection failure.	4	6.2.0	6.3.0
29322120	Archiver not purging the recording files in ISR 6.2m0p2.	3	6.2.0M0P2	6.3.0
29279470	Audit view on users omits "object".	3	6.2.0	6.3.0
29327267	When executing the start and stop recording commands, the file created incorrectly retains its RPDD format instead of saving as a .wav.	2	6.2M0P0	6.2M0P3
29027285	Dashboard reports displaying wrong values when multiple routes are selected.	3	5.2	6.2M0P0
29270289	Multiple Routes with the same patterns cannot be created for different Accounts.	3	5.2	6.2M0P0
28578999	<p>If a segment contains custom data, FACE cannot retrieve the details for that segment using the custom data parameter in the search request (via a query parameter). For example:</p> <pre>https://<face.host>:8443/Face/audioRecording/segment/details?token=<token>&<customDataName>=<customDataValue></pre> <p>The response is:</p> <pre>{"result": { "code": -1, "message": "No matching segments" }}</pre>	4	6.2M0P0	6.2M0P1

ID	Description	Severity	Found In	Fixed In
285790 96	<p>When searching for a recording in FACE (audioRecording/<method>), you cannot use unique information contained in a segment of that recording (filename or segmentId). To search with unique segment information, you must search for that segment on its own (audioRecording/segment/<method>).</p> <p>You can also search for a recording using custom data from the segment, or you can first find the segment and then use the segment's recordingId/tmpRecordingId to find the whole recording.</p>	4	6.2M0 P0	6.2M0 P1
287537 30	<p>FACE Event parameters are limited to the following for each Event:</p> <ul style="list-style-type: none"> RECORDING_STARTED_EVENT %ANI%, %DNIS%, %ISR_UCID%, %INGRESS_CALLID%, %EGRESS_CALLID%, %RESULT%, %FILENAME%, %CALLING_AORS%, %CALLED_AORS% SEGMENT_STARTED_EVENT %RESULT%, %FILENAME%, %TMP_RECORDING_ID% SEGMENT_ENDED_EVENT %RESULT%, %FILENAME%, %TMP_RECORDING_ID%, %SEGMENT_ID% RECORDING_ENDED_EVENT %ANI%, %DNIS%, %RESULT%, %FILENAME%, %DURATION%, %PAUSE_LENGTH%, %PAUSE_SILENCE% (only if recording ended during an active pause with silence), %CALLING_AORS%, %CALLED_AORS% 	2	6.2M0 P0	6.2M0 P1
253127 19	"root" user ownership of certain files has been changed to ownership by the non-root user provisioned during installation (for example, "isradm").	4	6.0M0 P0	6.1M0 P0
268035 68	A set of upgrade script fixes include proper management of the ISR certificates created during prior installations.	4	6.0M0 P0	6.1M0 P0
250280 23	The "procmonl.elf" process for monitoring and potentially restarting RSS Converter and Recorder processes has been replaced with registration, monitoring and management by the Linux standard "systemd" init system.	4	6.0M0 P0	6.1M0 P0
287147 66	After running "configlsr.sh", FACE ad-hoc recording controls are not working properly with the wrong webserviceIP value in FACE's web.xml configuration file.	3	6.2M0 P0	6.2M0 P1
285791 28	Segments from legacy recordings do not show up in lists of possible matches.	4	6.2M0 P0	6.2M0 P1
288312 29	External Events are not sent during Ad-hoc recording.	4	6.2M0 P0	6.2M0 P1
272615 14	The "isr-api" key now expires after a year (instead of 3 months).	3	6.0M0 P0	6.1M0 P0
267391 97	ObserveIT screen capture request/response latency has been addressed.	3	6.0M0 P0	6.1M0 P0
275804 55	FACE "audioRecording/start" requests that fail to include the "filename" parameter result in a recorded file name of "-.wav". This means that subsequent requests omitting "filename" will overwrite previous "-.wav" files.	4	6.0M0 P0	6.2M0 P0
263775 16	In certain scenarios where the Accept header of a FACE request is not set, the Content-Type header of the response may be incorrect.	4	6.1M0 P0	6.1M0 P1

ID	Description	Severity	Found In	Fixed In
265848 27	Dashboard "configlsr.sh" script fails with error after selecting option 'd'.	4	6.1M0 P0	6.2M0 P1
277091 53	FACE now shares authorization tokens for seamless load balancing across multiple FACE servers.	N/A	5.2M1 P7	6.1M0 P2
281576 36	A slow memory leak with FACE login has been resolved.	4	6.0M0 P0	6.1M0 P2
246677 91	Recordings Archival remarks explain renaming failure.	4	6.0M0 P0	6.1M0 P1
275243 90	When multiple Archival instances are configured for the same RSS (for example, Account Archival and RSS primary to secondary Location Archival) the Archival process no longer stops logging and, at times functioning with "Exception in thread" ArchiverThread-X" java.lang.NullPointerException" message in /var/log/messages.	3	6.1M0 P0	6.1M0 P1
252185 27	Archival process not properly handling database failover.	3	6.0M0 P0	6.2M0 P2
288378 84, 285019 76	An on-demand conversion and archival race condition has been addressed so recordings remain properly converted and indexed in this scenario.	3	6.1M0 P0	6.2M0 P2
288267 69	The Archival service now addresses all recordings under high deletion load.	3	6.2M0 P0	6.2M0 P2
281532 75	The HTTP response code to a FACE download request that cannot successfully retrieve the recording from the webserver has changed from 200 OK (with an error message) to 404 (with the same error message).	3	6.1M0 Px	6.1M0 P2
288072 38	File extensions are not consistently ".RPDD" during G.729 sessions with multiple segments.	3	6.2M0 P0	6.2M0 P1
287295 36	When running FACE's "configlsr.sh" script, you must accept the Would you like to configure FACE to work with a third party service? option to enable External Events.	3	6.2M0 P0	6.2M0 P1
292159 24	After a fresh installation, the FACE server.xml HTTPS connector is now properly commented, and FACE API properly responds to HTTPS requests to port 8443.	3	6.2M0 P0	6.2M0 P2
274055 64	The Recorder process fails under load due to ulimit and other environmental restrictions while no longer running with "root privileges".	2	6.1M0 P0	6.1M0 P1
274862 70	An Archival conversion query causes Index latency due to large Result Sets, impacting FACE and other ISR applications.	2	5.2M1 P3	5.2M1 P4, 6.1M0 P1

 **Note:**

Upgrade does not inherently solve this problem. Contact your account representative for the proper workaround in your environment.

ID	Description	Severity	Found In	Fixed In
27406860	A converter process memory leak that may impact recording indexing and archival has been addressed.	1	6.1M0 P0	6.1M0 P1
27772137	After upgrade from 5.2M1Px to 6.1M0P2 and Dashboard configuration of the RSSs, the Recorder process now properly initializes with primary and secondary locations set	4	6.0M0 P0	6.1M0 P2
26775702	Required Recording Format Conversion - For FACE All g.729 and g.722 recordings in RPDD format cannot be downloaded in FACE without prior conversion to playable format (either through Archival batch conversions or Dashboard ondemand conversion). You can now enable or disable the conversion of files requested for download using the FACE API by setting the enableConversion flag using the 'F' option in /configlsr.sh. To enable this feature, answer 'yes' to the prompt.	4	6.0M0 P0	6.1M0 P1
27598672	FACE "configlsr.sh" script's F option is not properly setting the webserviceIP field. To ensure FACE conversion requests do not fail, you must edit the /var/lib/tomcat/webapps/Face/WEB-INF/web.xml file and change the following two fields: <ul style="list-style-type: none"> From: <pre> <param-name>webserviceIP</param-name> <param-value>1.2.3.4</param-value> </pre> To: <pre> <param-name>webserviceIP</param-name> <param-value><your FACE data IP></param-value> </pre> From: <pre> <param-name>conversionAllowed</param-name> <param-value>>false</param-value> </pre> To: <pre> <param-name>conversionAllowed</param-name> <param-value>>true</param-value> </pre> <p>Then restart Tomcat:</p> <pre>\$ systemctl restart tomcat</pre>	3	6.1M0 P1	6.1M0 P2

ID	Description	Severity	Found In	Fixed In
281244 67	MySQL server default configurations have been adjusted for better performance.	2	5.2M1 P0	6.1M0 P2
<div style="border: 1px solid #0070C0; padding: 10px; background-color: #E6F2FF;"> <p> Note:</p> <p>You must run the "configlsr.sh" script for the Index config changes to take effect.</p> </div>				
271310 08	ISR now accommodates multiple codec offerings in the SDP, assuming an .RPDD extension of the recorded file. The RPDD file then requires conversion to a playable format. Previously, ISR accepted and assumed the top codec in the list, and in certain configurations wrote directly to the playable WAV (*.wav) format. The functionality has now changed. When two codecs are offered, RPDD is written. This may impact ad-hoc recording with the FACE API, where the filename parameter could be incorrectly assuming the ".wav" extension (e.g. https://<face_ip>:8443/Face/audioRecording/stop?token=<token>&filename=startstoptest.wav).	3	6.0M0 P1	6.1M0 P2
279475 68	ISR can now be configured to suppress metadata updates for extraneous reINVITEs to avoid unnecessary processing on the Index MySQL database and the RSS API. To enable suppression to ignore changing "apkt:ucid" tags, execute the following command on the RSS host: <pre>\$ curl -k https://localhost:9998/RestMethods/ConfigModify?metadataUpdateSupprEnabled=true&metadataUpdateSupprIgnoreTag=apkt:ucid</pre> Confirm the reINVITE suppresses the UPDATEMETADATA event with an "/opt/isr/logs/recorder/recorder.log" entry.	2	5.2M1 P5	6.1M0 P2
264999 09	The Recorder route map cache now properly updates on configurable number of seconds.	3	6.1M0 P0	6.2M0 P2
276147 12	MySQL Server logging has been set to a more limited level.	4	5.2M1 P0	6.1M0 P2
280248 32	SFTP location now hidden from Converter configuration.	3	6.1M0 P0	6.2M0 P2
288263 99	Recordings tab headings are now properly in line.	3	6.2M0 P0	6.2M0 P2
291330 98	A Dashboard fix has addressed an Internal Server Error when the tenant user tries to generate a report.	2	6.2M0 P0	6.2M0 P2
291695 34	Recording is not deleted from DB after deleting from Dashboard.	3	6.2M0 P0	6.2M0 P2
285790 15	ObserveIT screens fail to play back using segment details player.	4	6.2M0 P0	6.2M0 P1
282287 61	Dashboard upgrade prompts do not state that the 'configlsr.sh' script must be run after upgrade.	4	6.2M0 P0	6.2M0 P1

ID	Description	Severity	Found In	Fixed In
26584827	Dashboard "configlsr.sh" script fails with error after selecting option d.	4	6.1M0 P0	6.2M0 P1
28683981	In certain scenarios External Event Destinations may not be viewed or edited.	4	6.2M0 P0	6.2M0 P1
27767052	Advanced search by categories, realm or request-URI now executes properly.	2	6.1M0 P1	6.1M0 P2
27938500	The Dashboard properly handles more than 15 route entries.	2	6.1M0 P0	6.1M0 P2
26759445	The slider on recording playback works properly with HTTP Caching enabled in Google Chrome.	4	6.0M0 P0	6.1M0 P1
27356500	ISR integration with ObservelT retrieves slides from the upgraded, secure ObservelT Application Server.	3	6.1M0 P0	6.1M0 P1
27608203	ISR Dashboard now offers the proper security token for second ObservelT AS.	3	6.1M0 P1	6.1M0 P2
27396923	ISR Dashboard setting for concurrent AMR-WB sessions is not available.	3	6.1M0 P0	6.2M0 P1
27599703	ISR Dashboard login attempt no longer errors after browser sits idle on login page for a long time.	4	6.1M0 P0	6.1M0 P1
27409091	HTTPS Dashboard latency issues are addressed with webserver downgrade.	4	6.1M0 P0	6.1M0 P1
27432527	Dashboard now properly offers configuration settings for session capacity rejection codes.	3	6.1M0 P0	6.1M0 P1
27409510	An issue has been addressed where Dashboard playback of recordings requiring conversion may fail.	3	6.1M0 P0	6.1M0 P1
27507821	ISR Dashboard customized display of certain SIPREC metadata is now properly honored in certain scenarios (for example, customized display of extended Sonus SIPREC metadata).	3	6.1M0 P0	6.1M0 P1
27517060	ISR Dashboard now properly updates Archival destination Locations in certain scenarios.	2	6.1M0 P0	6.1M0 P1
27369699	ISR Dashboard properly views, edits, and deletes users on subsequent user listing pages.	3	6.1M0 P0	6.1M0 P1
27022875	Media realignment no longer causes memory leaks in suspect network environments where SSRC packet identifiers are suddenly reset. The feature has been disabled by default.	3	5.2M1 P0	6.2M0 P0
28993403	Dashboard now displays the proper timestamp during recording playback for major browsers.	4	6.2M0 P0	6.2M0 P2