



ICE Server 2.2.0

Release notes for prerelease

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1 New & Improved

These changes add new features or improve the functionality of existing ones:

- Cloud: Provision DFSIG on fresh install. (ICE-9776)
- add antiaffinity for rallypoint pods. (ICE-9215)
- Eliminate all references to Bintray from all Arcus builds. (ICE-9804)
- Cloud: container changes for model manager. (ICE-9708)
- Flutter: Add setting to enable/disable verbose logging. (ICE-9687)
- Cleanup existing WORKFLOW_ADMINISTRATOR and PATCH_ADMINISTRATOR licenses. (ICE-9482)
- “PatchAdmin”/“WorkflowAdmin” role is assigned to a user, but he is not able to create a patch. (ICE-9533)
- Update LDAPAuthenticationSource to replace “ldapSearchFilter” with default value when it is null or empty string. (ICE-9548)
- Increase log level for cdr. (ICE-9240)
- Add “channelName” to the fixed station’s profile data along with channelId when assigning the channel. (ICE-9187)
- Create PTT dashboard in grafana. (ICE-8549)
- Update “txtmsg:ListTextMessageSessionsForEntity” to add a return type that includes all the creators’ PersonDescriptor objects for the corresponding sessions. (ICE-9169)
- Parametrize bridge-common CORS policy in Kubernetes. (ICE-8683)
- Refactor handlers classes under com.dillonkane.ice.provisioning.services.channelgroup. (ICE-9185)
- Add “txtmsg:name” to the TextMessageSession entity. (ICE-9168)
- Support channel descriptor statuses. (ICE-8677)
- Refactor handlers classes under com.dillonkane.ice.provisioning.services.channel. (ICE-8841)
- Create GetAttribute and SetAttribute handlers for P25CryptoKey. (ICE-8896)
- Implement “file:RequestPresignedUrl” handler. (ICE-8878)
- Allow client to customize the searchFilter for LDAP authentication. (ICE-8883)
- Server: Add additional ids to fixed station. (ICE-8855)
- Update traceId in CallDurationRecordDescriptor to accept any non-zero length. (ICE-8866)
- Client bridge not using configured logback. (ICE-8848)
- Cloud: Support Code Generation for requests containing Multipart. (ICE-8860)
- Refactor handlers classes under com.dillonkane.ice.provisioning.services.assemblypoint. (ICE-8840)
- Platform services pod crashes in develop branch. (ICE-8694)
- Implement “p25key:Delete”. (ICE-8504)

- Add desktop web client to ICE deploys. (ICE-8682)
- Create “tel:FindDialNumber” API in TelephonyService. (ICE-8692)
- Text Message: Fix elasticsearch related logic. (ICE-8701)
- Implement “p25key:PageChannelsWithP25CryptoKey”. (ICE-8505)
- Additional validation logic for the P25 Crypto keyData. (ICE-8672)
- Flutter: Self-signed certificates support. (ICE-8676)
- Implement “p25key:AssignToChannels” and “p25key:UnassignFromChannels”. (ICE-8503)
- Update PatchEventManager and TelephonyEventManager to utilize the new RoleBasedMessageSender instead of looking up for the appropriate platform client ids to include in the PlatformMessage. (ICE-8685)
- Design and Implement a role based event subscription mechanism. (ICE-8568)
- Implement “p25key:ListAllP25CryptoKeys”. (ICE-8502)
- Do not run license cleanup job until Arcus installs. (ICE-8671)
- Implement “p25key:CreateP25CryptoKey” handler in P25CryptoService. (ICE-8501)
- High level design for PTT call records API. (ICE-6383)
- Implement “chan:PlaybackAudio” request for channel capability. (ICE-6428)
- Cloud: create ice-elastic chart. (ICE-5749)
- Enhance capability and service code generation to auto generate request handler’s validator. (ICE-8263)
- Create P25CryptoKeyDAO layer. (ICE-8337)
- Server: Design for P25 Encryption Keys. (ICE-8040)
- Cronea.js updates. (ICE-5638)
- High level design for Logs API. (ICE-6382)
- Update CreateAlertWorkflowAction so that alert title can also be templated just like the alert body. (ICE-8119)
- Limit the max result for some of the “ListAll*” requests. (ICE-8115)
- Add a license feature key “DFSI_CHANNELS” for assigning fixed station to a channel. (ICE-8143)
- Cloud: Update remote installer to reflect deployed environment. (ICE-6504)
- Fix external-server login. (ICE-8231)
- Annotate arcus pods for discovery by prometheus. (ICE-8229)
- Update “internal.api.version” to 5 in develop branch. (ICE-8190)
- Instrument DAO layer. (ICE-8160)
- Server: High level design for Metrics API. (ICE-6381)
- Export Codehale Metrics for Prometheus. (ICE-8082)
- Remove “filedata:ListAllFileDatas” request. (ICE-8116)
- Arcus: Modify intercom channel template for full-duplex. (ICE-8088)
- Add test cases to PageChannelsTest. (ICE-8087)
- Server: Implement “txtmsg:PageTextMessages” handler. (ICE-6478)

- [Outbound Webhooks] - Add support of PUT method. (ICE-6673)
- Cloud: Expand load test helm chart's endpoint.sh. (ICE-8037)
- Server: Implement "dfsig:ListAllFixedStations". (ICE-6476)
- Cloud: Helm components for load testing tool. (ICE-6706)
- Server: Implement "dfsig:AssignFixedStation" and "dfsig:UnassignFixedStation" handler. (ICE-6477)
- Server: Implement "sess:UpdateChannelSubscriptions" and "sess:RemoveChannelSubscriptions" request. (ICE-6685)
- Server: Implement "txtmsg:UpdateUserTextingStatus". (ICE-6583)
- Create load testing Javascript tool. (ICE-6651)
- Server: Implement "dfsig:CreateFixedStation" handler. (ICE-6474)
- Server: Merge release 2.1.1 back into develop branch. (ICE-6698)
- Cloud: Cut Zookeeper instances to 1 on dev installations. (ICE-6436)
- Server: Implement "txtmsg:AddTextMessage" and "txtmsg:UpdateTextMessage" and "txtmsg>DeleteTextMessage". (ICE-6582)
- Server: Implement "dfsig:SetDefaultDFSIGRadioGateway". (ICE-6475)
- Implement "dfsig:ListAllDFSIGRadioGateways" handler. (ICE-6473)
- Implement "txtmsg:ListTextMessageSessionsForEntity" handler. (ICE-6338)
- Implement "dfsig:CreateDFSIGRadioGateway" handler. (ICE-6472)
- Implement handler for "txtmsg:CreateTextMessageSession" defined in TextMessageService. (ICE-6337)
- Implement "file:PageFileData" request. (ICE-6427)
- Add flag to cornea-cli for releasing licenses only. (ICE-6529)
- Add minio to startPlatformComponents. (ICE-6575)
- Research on how to invoke a C++ program from platform-services safely and effectively. (ICE-6396)
- Update UploadFileHandler to support updating text and binary data to an existing FileData entity. (ICE-6401)
- Remove authorization_grant table and its related code. (ICE-6357)
- Server: Design for DFSIG. (ICE-6399)
- Cloud: Setup Minio as a basic service for Arcus to store raw file data like audio, text attachments, etc. (ICE-6285)
- Write functional tests for "tel:MakeCall" for incoming, outgoing and private calls. (ICE-6217)
- Implement TextMessageSessionDAO and TextMessageDAO layer. (ICE-6336)
- Enable Sonobuoy operator installation. (ICE-6435)
- Update FileData DAO layer to add "description" field. (ICE-6426)
- API design for creating and managing audio alerts and be played on a channel. (ICE-6400)
- Implement floating licenses for PATCH_ADMINISTRATOR and WORKFLOW_ADMINISTRATOR.

(ICE-6082)

- Update Rallypoint version from bintray. (ICE-6340)
- Add a flag to allow self signed cert to be accepted for static reflector and patch server. (ICE-5939)
- Arcus: High level design for Instant messaging. (ICE-6296)
- Merge release/2.1.0 branch into develop branch. (ICE-6365)
- Implement a HttpRequestHandler to retrieve/stream audio data given the audio id. (ICE-5983)
- Implement a HttpRequestHandler to upload audio data along with its metadata. (ICE-5996)
- Consolidate minio instances. (ICE-6295)
- Design for making dynamic event trigger context data available to the workflow actions. (ICE-6220)
- Create CRUD handlers for managing audio data (except for the actual binary data). (ICE-6232)
- Implement Audio model and AudioDAO layer. (ICE-5982)

2 Fixes

These issues have been resolved in this version of the product:

- Increase minio pvc size. Discovered in 2.2.0. (ICE-9518)
- Flutter : Randomly observed loading/spinning wheel on channels but PTT Rx comes on channels and also People tab shows “No active channels”. Discovered in 2.1.2. (ICE-8335)
- ICE Server: When LDAP user’s firstname/lastname changes, Elastic search sync is required to see new update. Discovered in 2.1.2-Hotfix1. (ICE-9171)
- Flutter : App not showing up newly created Intercom/Assigned channel on Dashboard when logged into dev212.ic-enterprise.com. Discovered in 2.1.0. (ICE-8256)
- Arcus: Cornea Error at starting Patching Agent. Discovered in 2.1.0. (ICE-6859)
- ICE Server: Channel sttributes validation issue. Discovered in 2.1.0. (ICE-6335)
- Server: ICE Tel doesn’t get delete/add event when CUCM is deleted/re-added back. Discovered in 2.1.0. (ICE-6409)
- Platform: PageDialNumbers doesn’t accept it’s own nextToken. Discovered in 2.1.0. (ICE-6300)

3 Known Issues

These are issues known to exist in the product:

3.0.1 When creating a patch using the “Create and Activate” command in ICE Desktop, sometimes the patch will not function (ICE-8561)

3.0.1.1 Conditions This issue may occur intermittently when sufficient latency exists in processing the patch creation command. Users may find this issue more common in geographically redundant systems or when the ICE Server is under heavy user load. This issue only occurs when using “Create and Activate;” manually creating, then activating a patch will not experience this issue.

3.0.1.2 Workaround Deactivate the patch in ICE Desktop, then re-activate it by clicking the “Activate” button.

3.0.1.3 Additional information This issue is caused by a patch that is created, but then not properly activated (despite the user interface indicating the patch was made active).

3.0.2 Deleting a static reflector from ICE Desktop does not cause the reflector to shut down or otherwise stop operating. (ICE-8405)

3.0.2.1 Workaround System administrators should stop the reflector process (by killing its Docker container) prior to deleting the reflector in the ICE Desktop application if they intend for the reflections provided by the entity to stop.

3.0.2.2 Additional information When a static reflector has been deleted for ICE Server the reflector process associated with the deleted entry “coasts”—that is, the reflector will continue to operate in whatever state and configuration existed at the moment it was deleted. It will receive no further configuration updates from the server but will not automatically terminate, either.

3.0.3 The Cassandra Kubernetes pod restart count continuously increments after a fresh installation or upgrade of ICE Server, but there is no loss in service. (ICE-6576)

3.0.3.1 Conditions This occurs only after performing an ICE Server installation onto a Kubernetes cluster or upgrading an existing system in a geographically-redundant configuration. This problem is not seen on single-site deployments (single-node or multi-node).

It affects systems whose link between data centers is slow enough that database schema updates take longer than the built in timeout allows for. A slow persistent storage system—or one under heavy load—may manifest this issue, too.

3.0.3.2 Workaround Run these commands in `cqlsh` (replacing `dc` and `replica` values as appropriate):

```
DROP KEYSPACE reaper_db;  
CREATE KEYSPACE reaper_db  
WITH REPLICATION = {  
    'class' : 'NetworkTopologyStrategy',  
    'dc1' : 1  
};
```

Allow the reaper to finish its schema updates, then in `cqlsh`:

```
ALTER KEYSPACE reaper_db  
WITH REPLICATION = {  
    'class' : 'NetworkTopologyStrategy',  
    'dc1' : 1,  
    'dc2' : 1  
}
```

Finally, on each node in `dc2`, run `nodetool rebuild - dc1`

3.0.4 Poor audio quality is observed when an ICE user calls another ICE user through a PSTN “dial call”. (ICE-4027)

3.0.4.1 Conditions When two users are assigned dial numbers and one user dials another user’s device through the soft-phone feature in the app, the established call will exhibit lower audio quality than expected.

This issue is not exhibited when a user makes a “private call” to another user. That is, only user-to-user calls placed by dialing a phone number are subject to this limitation.

3.0.4.2 Workaround Instant Connect users should call each other through the private calling mechanism by searching for the user’s name in the directory and clicking the adjacent telephone icon.

3.0.4.3 Additional information This issue is caused by double-encoding “loopback” audio traffic as it enters and leaves the ICE Telephony system.

This document describes changes introduced between build 1f79b5f to bab1230.