

Welcome to the IRWIN Changelog! This changelog quickly indicates what's new, fixed, changed, or unresolved for specific IRWIN products (Incident API, Resource API, & Services).

It documents iterative releases made to various IRWIN products, including the Incident API, the Resource API, and IRWIN Layers. Follow the links below to learn more about the latest releases for each API.

For documentation on the data schema, please see the IRWIN Data Mapping Worksheet.

For specifics on workflows, go to the LucidChart Diagrams.

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October 28, 2025 (TEST/next)

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Enhancements

- IRWIN will only allow Unit ID values for POODispatchCenterID and DispatchCenterID with a wildland fire role of 'Dispatch/Coordination Center' from UnitIDx.
- Validation for HasFatalities and HasInjuries has been updated to reflect the following rules:
 - Must be True if Fatalities/Injuries > 0 and False if Fatalities/Injuries < 1
- Validation for Relationship Type has been updated with the following conditions:
 - When incident relationship is created when RelationshipType = 'Merge':
 - Sum of the child can't exceed the parent
 - Sum of children and parent acres must meet the total of merge
- The maximum length of the following data elements have been increased from 6 to 10 characters:
 - DispatchCenterID
 - POOProtectingUnit
 - FinalFireReportApprovedByUnit

- FiscallyResponsibleUnit
- POOJurisdictionalUnit
- o POOJurisdictionalUnitParentUnit
- RequestManagingDispatchCenterID
- ResourceProvider



New Features

Data Schema Changes

- New Fields
 - The following data element has been added to the Incident schema:
 - PrescribedFireStage
- New Domain Values
 - The PrescribedFireStage data element has the following values:
 - Planned
 - ii. Active
 - Patrol/Monitor iii.
 - Complete iv.

Please refer to the <u>Data Mapping Workbook</u> for additional information on changes to the Incident API.

Resource API Changelog

Releases

October 28, 2025 (TEST/next)

October 28, 2025 (TEST/next)



Enhancements

- The maximum length of the following data elements have been increased to 10 characters:
 - HomeDispatchUnit
 - ProviderUnit
 - o CurrentDispatchUnit
 - o SelectionArea
 - NIProviderUnit

Please refer to the <u>Data Mapping Workbook</u> for additional information on changes to the Resource API.



🎉 New Features

Data Schema Changes

New Fields

- The following data elements have been added to the Resource schema:
 - IsContractedResource Identifies whether or not a resource is a contracted resource
 - OwnerOrganization The agency or company to be reimbursed for providing a resource to an incident. Will be derived by IRWIN on add and update of Provider Agency. Can be null. Can be updated by the ResourceSOR of the Resource.

The following data elements have been added to the Resource capability request:

- IrwinFRID Used to request Frequency (must be a valid Frequency Incident relationship)
- AgreementNumber Used to store the Agreement # or Contract ID

Frequency API Changelog

Releases

October 28, 2025 (TEST/next)

October 28, 2025 (TEST/next)



New Features

Data Schema Changes

- New Fields
 - The following data elements have been added to the Frequency schema:
 - **DefaultRXIrwinFTID**
 - DefaultTXIrwinFTID

Learning API Changelog

Contracts API Changelog

Releases

October 28, 2025 (TEST/next)

October 28, 2025 (TEST/next)



New Features

This release marks the initial release of the IRWIN Contracts API, which is an API for managing contracts and contracted resources. The API utilizes three workflows: one for adding and defining new contracts with their contract resource relationships, a second for managing expired contracts, and a third for managing updates and modifications to existing contracts.

For additional information, please refer to the Contracts tab of the <u>LucidChart Diagrams</u>.

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March 11th, 2025



Bug Fixes

There was a bug that required systems in the CAD role were required to submit a DiscoveryAcres value for all Event Kinds and Categories rather than just WF, FI. This has been fixed.

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)



Enhancements

• A new User Role 'ReferenceDataSteward' in IRWIN has been added for systems that supply reference data. Please refer to the CRUD table in the Data Mapping Workbook for additional information on role types and permissions.

December 18th, 2024 (TEST/next) / December 19th, 2024 (OAT/next)



🎉 New Features

Data Schema Changes

- New Fields
 - The following data element has been added to the Incident schema:
 - Request Managing Dispatch Center ID
- New Domain Values
 - o The data element DetectionMethod has two new values: Fire Camera Manual Detection and Fire Camera - Automated Detection. Fire Detection Camera and Fire Detection Camera Al have been removed in order to comply with the new proposed standard.

For specific details about these fields, please refer to the IRWIN Data Mapping Workbook.

December 10th, 2024 (TEST/next) / December 11th, 2024 (OAT/next)



🎉 New Features

Data Schema Changes

- New Domain Values
 - The data element IncidentTypeCategory has two new values: GF Foreign Incident (must be Kind FI) and IM – International Mobilization (must be kind FM).
 - o The data element DetectionMethod has two new values: Fire Detection Camera and Fire Detection Camera Al.

For specific details about these fields, please refer to the IRWIN Data Mapping Workbook.



Enhancements

IRWIN will now derive the value for FireManagementOption. Currently, data is only available for incidents in Alaska.

September 17th, 2024 (TEST/next) / September 19th, 2024 (OAT/next)



New Features

Data Schema Changes

- New Field
 - The data element FireCauseComments has been added to the Incident schema.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.

Resource API Changelog

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September 17th, 2024 (TEST/next) / September 19th, 2024 (OAT/next)

February 18th, 2025



Enhancements

- The following overhead resource conflict detection rules will be evaluated on AddFeatures:
 - o If NameFirst plus NameLast plus NameMiddle plus last two digits of BirthMonthDay match the resource is quarantined.
 - o If all but one of the following are the same, the resource is quarantined NameFirst plus NameLast plus NameMiddle plus HomeDispatch plus ProviderUnit plus last two digits of BirthMonthDay the resource is quarantined.
 - o If the last two digits of BirthMonthDay plus the NameLast match the resource is quarantined.
 - o If the last two digits of BirthMonthDay plus the NameFirst plus NameMiddle (First letter) match the resource is quarantined

January 29th, 2025



🌄 Bug Fixes

Previously, when NameLast was changed on a quarantined resource, IRWIN cleared the quarantine. This has been fixed.

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)



Enhancements

 A new User Role 'ReferenceDataSteward' in IRWIN has been added for systems that supply reference data. Please refer to the CRUD table in the Data Mapping Workbook for additional information on role types and permissions.

December 10th, 2024 (TEST/next) / December 11th, 2024 (OAT/next)



Enhancements

The Qualification Role in IRWIN now allows users to read from the Capability Request table. Please refer to the CRUD table in the DataMapping Workbook for additional information on role types and permissions.

October 23rd, 2024 (TEST/next) / October 24th, 2024 (OAT/next)



Bug Fixes

 The custom query parameter 'includeCapabilityTracking' has been renamed to 'includeRequestTracking' in order to match documentation and for clarity.

September 17th, 2024 (TEST/next) / September 19th, 2024 (OAT/next)



New Features

Data Schema Changes

- New Table
 - The IRWIN team has added a new table in the Resource API called 'CapabilityRequestTracking'. This can be used to determine which system last modified mobilization and demobilization times. Additionally, a custom query parameter 'includeCapabilityTracking' was implemented to return this data when querying Capability Requests.
- New Data Element
 - Experience has a new data element IrwinCRID.

For specific details about fields in this table, please refer to the IRWIN Data Mapping Workbook.

Frequency API Changelog

Releases

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)



Enhancements

A new User Role 'ReferenceDataSteward' in IRWIN has been added for systems that supply reference data. Please refer to the CRUD table in the Data Mapping Workbook for additional information on role types and permissions.

Learning API Changelog

Releases

April 8th, 2025

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)

April 8th, 2025



New Features

Data Schema Changes

- New Fields
 - The data elements IsValid and IsActive have been added to the Learning Course schema.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.

January 7th, 2025 (TEST/next) / January 8th, 2025 (OAT/next)



 A new User Role 'ReferenceDataSteward' in IRWIN has been added for systems that supply reference data. Please refer to the CRUD table in the Data Mapping Workbook for additional information on role types and permissions.

Sundry API Changelog

Releases

September 17th, 2024 (TEST/next) / September 19th, 2024 (OAT/next)

September 17th, 2024 (TEST/next) / September 19th, 2024 (OAT/next)



This release marks the initial release of the IRWIN Sundry API, which is an API for combining existing IRWIN sources for connected systems to read. This API currently includes an Active Resources table, which is a read-only service that provides active Filled Capability Request information where the Resources are 'At Incident' per incident. For more information, please see the IRWIN Data Mapping Workbook and the Resource and Incident Specifications documents.

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April 24th, 2024



🐛 Bug Fixes

• The error message has been fixed for calculation of Suppression Strategy fields to include specific validation error information.



Enhancements

Error messages now include a reference to the GlobalID (ex. IrwinRID, IrwinID).

February 20th, 2024



Enhancements

- Incident has a new data element FFRStatus.
- A geometry subJSON item with x,y data from InFORM is now returned when using the Incident IncludeFFR query parameter.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.

February 5th, 2024



🐛 Bug Fixes

- There was a bug that did not allow a system to update the Fire Suppression Strategy data elements (FireStrategyConfinePercent, FireStrategyFullSuppPercent, FireStrategyMonitorPercent, FireStrategyPointZonePercent) if they were already set to a value. This has been fixed.
- There was a bug where POOJurisdictional Agency and POOProtecting Agency were being updated to null when the value wasn't being set on an update features request. This has been fixed.

January 23rd, 2024



Enhancements

StateFinancialCode has been expanded to 20 characters.



Bug Fixes

Final Fire Reporting returned in the includeFFR JSON will now reflect actual data types of the data element rather than strings. Please note that fields that exist as boolean fields in IRWIN are returned as True/False in the Fire Reporting information.

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)



New Features

Data Schema Changes

- New Read-Only Connection to InFORM data
 - o Fire Reporting Data is now available through querying the Incidents table
 - Custom Incident query parameter 'includeFFR=True' will return the related final fire reporting record in a subset of the Incident query return JSON.
- New Fields
 - The following data elements have been added to the Incident schema:
 - StateFinancialCode
 - ii. IncidentComplexityLevel
 - iii. DailyFireNarrative
 - FireManagementOption
 - POOLandownerLocalID
- Updated Domain
 - o The Incident Relationship Relationship Type data element has a new domain value 'PostFire'.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.



Enhancements

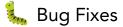
New Incident Relationship Type 'PostFire' Validation Rules

- An incident record CANNOT be updated to an IncidentTypeCategory = 'FR' or 'BR' the incident record has to be created as IncidentTypeCategory = 'FR' or 'BR'.
- An incident record of IncidentTypeCategory = 'FR' or 'BR' cannot be updated to any other IncidentTypeCategory after it was initially added.
- Where Incident Relationship Relationship Type = 'PostFire', there is validation within IRWIN to ensure that the ParentIrwinID relates to an incident of IncidentTypeCategory = 'WF' and the ChildIrwinID related to an incident of IncidentTypeCategory = 'FR' or 'BR'.

For more details about this relationship type rules, please refer to the IRWIN Incident Specifications.

Incident Quarantine Fall-Off Rules

- When an incident has been in quarantine for >8 days, IRWIN will automatically set:
 - Incident record to IsValid=0
 - All IncidentRelationships referencing the Incident record to IsActive=0.
- Note that Incident records can be set to IsValid=1 again by a system after this process occurs.



• There was a bug where POOJurisdictionalAgency did not get set to NULL if POOJurisdictionalUnit was rederived as NULL on an Incident coordinate update. This has been fixed.

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April 24th, 2024



Bug Fixes

 IRWIN validation will now allow updates to Capability Requests on invalid incidents if the IRWIN ID is included in the request.



Enhancements

• Error messages now include a reference to the GlobalID (ex. IrwinRID, IrwinID).

February 23rd, 2024



Bug Fixes

• IRWIN has updated Resource Capability Request logic to allow a Reserved request on a Preposition incident and a Filled request on a Preposition incident simultaneously.

February 5th, 2024



Bug Fixes

 Previously, there was a bug that permitted a resource to be on two Filled capability requests simultaneously if the capability request was set from 'Reserved' to 'Filled' without including the IrwinCID in the request. This has been fixed.



Enhancements

Resource TailNumber now only allows a single dash and also disallows a TailNumber to start or end with a dash.

November 20, 2023



🎉 New Features

Data Schema Changes

- Updated Domain
 - o The Resource CapabilityRequest FulfillmentStatus data element has a new domain value 'Reserved'.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.



Enhancements

- When using the Resource CapabilityRequest FulfillmentStatus= 'Reserved', the following validation rules
 - Resources may only be assigned to one 'Reserved' request at any time.
 - o 'Reserved' status will cascade to child requests if the 'applyToChildren' request parameter is
 - o When updating a Resource to IsValid=0, IRWIN will validate to ensure that resource has no Capability Requests with FulfillmentStatus= 'Reserved' and will return an error if one exists.

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)



🎉 New Features

Data Schema Changes

- New Fields
 - o The following data elements have been added to the Resource CapabilityRequest schema:
 - NIResourceName
 - **NIProviderUnit**
- Updated Field Name and Definition
 - Resource CapabilityType PositionCode is now ItemCode. This field now includes catalog item codes for Non-Overhead Resources.
- **Updated Character Limits**
 - Resource OwnerVendor now allows values up to 75 characters.
 - Resource HomeUnit now allows values up to 75 characters.
 - Resource ApparatusNumber now allows values up to 85 characters.
 - Resource TailNumber now allows values up to 14 characters.
- Updated Domain
 - The Resource CapabilityRequest FulfillmentStatus data element has a new domain value

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.



Enhancements

- When using the Resource CapabilityRequest FulfillmentStatus= 'Filled-NI' for non-inventory/temporary resource requests, the following validation rules are enforced:
 - o An AddFeatures or UpdateFeatures that sets FulfillmentStatus = 'Filled-NI' cannot have null 'NIProviderUnit' or 'NIResourceName' and IRWINCID must be null.
 - IRWIN will permit a CapabilityRequest to go from FulfillmentStatus = 'Closed' to FulfillmentStatus = 'Filled-NI'.
- Resource TailNumber has been updated to allow dashes.



Bug Fixes

There was a bug where systems were unable to change the Resource ResourceSOR the request included setting the OperationalStatus to null. This has been fixed.

Frequency API Changelog

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April 24th, 2024

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)

April 24th, 2024



Enhancements

Error messages now include a reference to the GlobalID (ex. IrwinRID, IrwinID).

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)



Frequencies have been reorganized to pull out tone data into a separate table. Changes to support this schema change include:

- 'FrequencyTone' table
- New data elements for Frequency Incident Relationships:
 - ChildRXIrwinFTID
 - o ChildTXIrwinFTID
- Uniqueness validation for Frequency Incident Relationships has been updated to include ChildRXIrwinFTID and ChildTXIrwinFTID.

Additionally, existing data has been transformed to accommodate this change, reducing the number of Frequency records. For more information on particular data elements and validation, please see the IRWIN Data Mapping Workbook.

Learning API Changelog

Releases

April 24th, 2024

November 20, 2023

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)

April 24th, 2024



Enhancements

Error messages now include a reference to the GlobalID (ex. IrwinRID, IrwinID).

November 20, 2023



🎉 New Features

Data Schema Changes

- New Fields
 - o The following data elements have been added to the Learning Course schema:
 - CreatedBySystem i.
 - Created On Date Timeii.
 - **ModifiedBySystem** iii.
 - iv. ModifiedOnDateTime
- Renamed Fields
 - The Learning Course data element TrainingType has been updated to SourceCatalog.
- Updated Domain
 - The Learning Course SourceCatalog data element has new domain values: 'IAT', 'EMI', 'AgencySpecific'. 'FEMA' and 'Aviation' have been removed.

For specific details about these fields and tables, please refer to the IRWIN Data Mapping Workbook.

October 31st, 2023 (TEST/next) / November 2nd, 2023 (OAT/next)



🞉 New Features

This release marks the initial release of the IRWIN Learning API. The initial functionality provides the "framework" required to implement validation logic against learning records. This framework includes support for the following activities:

- Associating a completed learning course record to a Resource record through the Learning Record table
- Providing reference records for Learning Management System courses through the Learning Course table
- Foreign key validation for relationships
- Data Type Validation

For more information, please see the IRWIN Data Mapping Workbook.

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February 15, 2023



Enhancements

The domain has been removed from the data element POOJurisdictional Agency.

January 25, 2023



🐛 Bug Fixes

- Previously, IRWIN validation did not allow an Incident Type = 'WF' to be updated to an 'RX'. The rule has been updated to allow this and to not allow an Incident Type = 'RX' to be updated to a 'WF'
- There was a bug where the IncidentName was not being validated on UpdateFeatures operation for when an Incident Type 'WF' was updated to a 'RX'. This has been fixed.

January 11, 2023 (TEST/Next) / January 12, 2023 (OAT/next)



🐛 Bug Fixes

There was a bug where the IncidentName was not being validated on UpdateFeatures operation for Incident Types 'RX' and 'BR'. This has been fixed.

December 6th, 2022 (TEST/Next) / December 8th, 2022 (OAT/next)



🌄 Bug Fixes

There was a typo in the error response message referring to 'CX' rather than 'RX' when attempting to update an IncidentTypeCategroy of 'WF' to 'RX'. This has been fixed.

November 8th, 2022 (TEST/Next) / November 10th, 2022 (OAT/next)



Enhancements

- New Incident Relationship Type 'PrescribedEscape' Validation Rules
 - An incident record CANNOT be updated to an IncidentTypeCategory = 'RX' the incident record has to be created as a IncidentTypeCategory = 'RX'.
 - o An incident record of IncidentTypeCategory = 'RX' cannot be updated to any other IncidentTypeCategory after it was initially added.
 - Where Incident Relationship RelationshipType = 'PrescribedEscape', there is validation within IRWIN to ensure that the ParentlrwinID relates to an incident of IncidentTypeCategory = 'RX' and the ChildIrwinID related to an incident of IncidentTypeCategory = 'WF'.

For more details about this relationship type rules, please refer to the IRWIN Incident Specifications.

- An incident record of IncidentTypeCategory = 'RX' must include "RX" as a standalone abbreviation in the Incident name. This is not case-sensitive.
- An incident record of IncidentTypeCategory = 'BR' must include "BAER" as a standalone abbreviation in the Incident name. This is not case-sensitive.
- IRWIN will now reject if an IncidentName has a leading or trailing space and only the following special characters are permitted in this field: (period), / (forward slash), : (colon), ' (apostrophe), # (hashtag), & (ampersand), ((left parenthesis),) (right parenthesis), - (hyphen), – (dash), $_$ (underscore), and \sim (tilde). Note that comma is used in the preceding list only to separate list elements and that comma is not an allowable character in Incident Names.



Data Schema Changes

- Removed Fields
 - o The data element InFORMUsername has been removed from the Incident schema.
- Removed Table
 - The InFORM_Tracking table has been removed from the API.
- Updated Domain
 - o The Incident Relationship RelationshipType data element has a new domain value 'PrescribedEscape'.

Resource API Changelog

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August 21, 2023



Enhancements

IRWIN validation will now allow Capability Requests to go from a Fulfillment Status of 'Closed' to 'Filled'.

March 21, 2023



🐛 Bug Fixes

A bug was fixed where an error was returned when attempting to update Overhead Resource HomeUnit or ProviderUnit when the NameMiddle is set to NULL rather than a value or an empty string.

February 28, 2023



🐛 Bug Fixes

A bug was fixed where multiple Resource Relationship records could not be submitted in the same request on an AddFeatures operation.

February 15, 2023



Bug Fixes

 There was a bug that allowed a Capability Request where the FulfillmentStatus = 'Unfilled' could be updated with an IrwinCID. Irwin will now reject the update.

January 11, 2023 (TEST/Next) / January 12, 2023 (OAT/next)



🌄 Bug Fixes

• There was a bug where IRWIN would not update the 'ModifiedBySystem' when a feature was first added to IRWIN . This has been fixed. Additionally, ModifiedBySystem should now update on a parent Resource when a resource relationship is added, updated, or deleted for that Resource.

December 19th, 2022 (TEST/Next) / December 20th, 2022 (OAT/next)



Enhancements

IRWIN will update the Resource RosterModifiedOnDatetime when a Resource Relationship where ParentlRWINRID = IrwinRID is either added, updated, or deleted from the ResourceRelationshipTable.



🞉 New Features

Data Schema Changes

- New Fields
 - The Resource table has a new field RosterModifiedOnDateTime and is used to determine when a Parent Resource has a new, updated, or deleted Resource Relationship record. Note: This data element is similar to other datetime fields in the API that are not ModifiedOnDatetime or CreatedonDatetime. In order to query this field, the datetime in UTC should be structured like '2022-03-17 14:02:58' or '2022-03-17 14:02:58.000' rather than 1647522178000 .

For details about this field, please refer to the IRWIN Data Mapping Workbook.

December 6th, 2022 (TEST/Next) / December 8th, 2022 (OAT/next)



Enhancements

When the ApplyToChildren parameter is used to update a Resource Capability Request from Unfilled to Filled, if a Resource Capability is IsActive=0 (false) OR if that associated child resource is on another capability request where FulfillmentStatus = 'Filled' and the incident is not a PrePosition incident, IRWIN will create a capability request for that record but FulfillmentStatus = 'Unfilled' and the IRWINCID will be blank.

November 8th, 2022 (TEST/Next) / November 10th, 2022 (OAT/next)



Enhancements

- When the ApplyToChildren parameter is used to add a Resource Capability Request, if a Resource Capability is IsActive=0 (false) OR if that associated child resource is on another capability request where FulfillmentStatus = 'Filled' and the incident is not a PrePosition incident, IRWIN will create a capability request for that record but FulfillmentStatus = 'Unfilled' and the IRWINCID will be blank.
- IRWIN will now only allow a resource to be the Parent Resource in a Resource Relationship if they have a capability where the Resource Capability Type IsConfigurable = True.
- On an Overhead Resource UpdateFeatures request, if either BirthMonthDay or NameLast are changed and are an exact match, the overhead resource is quarantined. IRWIN will only evaluate both BirthMonthDay and NameLast when either of these fields are changed. No other fields will be evaluated. AddFeatures Conflict Detection has not changed.
- IRWIN no longer prevents updates to a Resource HomeUnit for users that are not listed as the ResourceSOR.



🞉 New Features

Data Schema Changes

- New Fields
 - The Resource Capability Type table has a new field IsConfigurable and is used to determine whether a resource can be the Parent Resource in a Resource Relationship.
- Updated Domain
 - o The Resource Capability Request FulfillmentStatus has a new domain value 'Reassign'.

For details about these fields, please refer to the IRWIN Data Mapping Workbook.

Frequency API Changelog

Releases

February 15, 2023

January 25, 2023

January 11, 2023 (TEST/Next) / January 12, 2023 (OAT/next)

December 6th, 2022 (TEST/Next) / December 8th, 2022 (OAT/next)

February 15, 2023



🐛 Bug Fixes

There was a bug where IRWIN would include inactive Frequency relationships in duplicate evaluation. This has been fixed.

January 25, 2023



Bug Fixes

A bug was fixed where IRWIN allowed duplicate active Frequency relationships associated to the same incident.

January 11, 2023 (TEST/Next) / January 12, 2023 (OAT/next)



🐛 Bug Fixes

There was a bug where IRWIN would not update the 'ModifiedBySystem' when a feature was first added to IRWIN. This has been fixed.

December 6th, 2022 (TEST/Next) / December 8th, 2022 (OAT/next)



This release marks the initial release of the IRWIN Frequency API. The initial functionality provides the "framework" required to implement validation logic against frequencies. This framework includes support for the following activities:

- Associating a Frequency record to an Incident record through the Incident Frequency Relationship table
- Foreign key validation for relationships
- Data Type Validation

Additionally, a small amount of test data has been added to the Frequency table for use by systems. For more information, please see the <u>Frequency Integration Specifications</u> and the <u>IRWIN Data Mapping Workbook</u>.

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February 2nd, 2022

February 1st, 2022

December 27th, 2021 (TEST/Next) / December 29, 2021 (OAT/next)

June 21st, 2022



Bug Fixes

There was a bug that allowed a system without ADS Permission to update the coordinates (geometry) of an incident. This has been fixed.

February 15th, 2022 (TEST/next), February 17th, 2022 (OAT/next)



, Bug Fixes

- Previously, IRWIN allowed Wildfires to have an IncidentSize of 0 acres when updating a False Alarm to a Wildfire and allowed updating an existing False Alarm with an Incident Size value greater than 0. This has been fixed.
- There was a bug that prevented users from setting a FireCause to 'Undetermined' and FireCauseGeneral value to null. This has been fixed.

February 2nd, 2022



Enhancements

IRWIN will now set the IncidentSize to 0 when a system updates an incident to a False Alarm if the IncidentSize data element is not included in the request and a value exists in the field. If the incident's IncidentSize is null, it will remain null on an update.

February 1st, 2022



🐛 Bug Fixes

There was a bug where IRWIN returned an error when InFORM added an incident record. That has been fixed.

There was an error where ADS records were not being created for certain incidents. This has been resolved.

December 27th, 2021 (TEST/Next) / December 29, 2021 (OAT/next)



Enhancements

- Children incident records in Incident Relationships will no longer be set to ADSPermissionState = CERTIFIED when Parent is set to CERTIFIED. DEFAULT, ICS209, and FIREREPORTING ADSPermissionState will still cascade to children incidents.
- IRWIN will now allow incidents to be a child in both an active Complex and an active Merge Incident Relationship at the same time. Incidents are still not permitted to be a child in two active Complex Incident Relationships.
- Incidents that are IncidentCategory=FA must have an IncidentSize = 0 acres.
- FireCauseGeneral, FireCauseSpecific, FireCauseSpecificDetail, and FireCauseActivityGroup will be validated based on the hierarchy listed in the IRWIN Data Mapping Workbook.
- Quarantine rules have been simplified to only include incidents where IncidentKind = 'FI'. Previously, there was an additional rule that excluded Incident Categories CX and FA, but those categories now are IncidentKind 'FM'.



Data Schema Changes

- Updated Domain
 - The domain values have been updated for the following fields:
 - FireCauseGeneral
 - FireCauseSpecific ii.
 - IncidentTypeKind
 - IncidentTypeCategory
 - **POOJurisdictional**Agency
- New Fields
 - The Incidents layer has the following new fields:
 - FireCauseSpecificDetail
 - FireCauseActivityGroup
 - **FireCauseProhibited**
 - iv. FireCauseAgeCategory
- Changed Field Name
 - o The data element DailyAcres has been renamed to 'IncidentSize'

For specific details about these fields, please refer to the IRWIN Data Mapping Workbook.

Resource API Changelog

Releases

June 21st, 2022

February 15th, 2022 (TEST/next), February 17th, 2022 (OAT/next)

January 25th, 2022 (TEST/Next) / January 27th, 2022 (OAT/next)

December 27th, 2021 (TEST/Next) / December 29, 2021 (OAT/next)

June 21st, 2022



Enhancements

Systems will now be permitted to send an UpdateFeatures request to change the Resource Capability IncidentTypeEndorsement value if they are the system of record or if the system of record is 'None'.

February 15th, 2022 (TEST/next), February 17th, 2022 (OAT/next)



🎉 New Features

Data Schema Changes

- New Fields
 - The Resource Capability Request table has a new field IsIROCManaged.
 - The Resource Capability Request table has a new field ReassignTo.

For details about these fields, please refer to the IRWIN Data Mapping Workbook.

January 25th, 2022 (TEST/Next) / January 27th, 2022 (OAT/next)



Bug Fixes

There was a bug where IRWIN returned an error when systems attempted to update Resource Capability Requests 'NeededByDateTime' data element. This has been fixed.

December 27th, 2021 (TEST/Next) / December 29th, 2021 (OAT/next)



Enhancements

Resource TailNumber has updated validation to allow values between 4 and 12 characters.



🎉 New Features

Data Schema Changes

- New Fields
 - o The Resource Capability Request table has a new field NeededByDateTime. This field is required and must be on or after the Incident FireDiscoveryDateTime on an AddFeatures operation. This field will not be re-validated on an UpdateFeatures operation.
 - The Resource Capability Request table has a new field RequestDocumentation.

For details about these fields, please refer to the IRWIN Data Mapping Workbook.

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October 28, 2020*

*Planned to be promoted to OAT/Next on December 17, 2020.

April 14, 2021



Data Schema Changes

- Updated Domain
 - The following changes have been made to FireCause:
 - i. Domain Values for Unknown have been removed:
 - FireCause:
 - Unknown
 - FireCauseGeneral:
 - o Cause and Origin Not Identified
 - Investigated but Undetermined

- Domain Values for Undetermined have been added: ii.
 - FireCause:
 - Undetermined
 - FireCauseGeneral:
 - Undetermined
 - FireCauseSpecific:
 - Under investigation
 - Not investigated
 - Origin and/or cause not identified
 - 0 Origin destroyed

For specific details about the domain values, please refer to the IRWIN Data Mapping Workbook.



Enhancements

Spatial Lookup Information Update

- The geospatial lookup data has been refreshed. Please refer to the IRWIN Data Mapping Workbook for more information about the data sources and refer to the IRWIN Integration Specification - Incidents (Section 5.7, item 4) for how this geospatial information is used. Fields that use this information based on the SHAPE (Point of Origin) supplied when an Incident is created:
 - POOState
 - POOCounty
 - o POOFips
 - POOLandownerKind
 - POOLandownerCategory
 - GACC
 - POOPredictiveServiceArealD
 - POOJurisdictionalUnit
 - POODispatchCenterID



Bug Fixes

Previously, the value for POOJurisdictionalUnit was updated to an empty string if the point of origin moved to an area without a value for POOJurisdictionalUnit in the IRWIN Geospatial Lookup when it previously had a value in the field. It will now return a null value.

March 30, 2021



New Features

Data Schema Changes

- Updated Domain
 - o DetectionMethod has a new set of domain values. The data type has also changed from an integer value to a string value. For specific details about the domain values, please refer to the IRWIN Data Mapping Workbook.

🐛 Bug Fixes

- A bug existed where Incidents that were previously set to IsValid=False then set to IsValid=True were not evaluated to determine if the Unique Incident Identifier was already in use. This has been fixed.
- Previously, the value for POOJurisdictionalUnit was not updated if the point of origin moved to an area without a value for POOJurisdictionalUnit in the IRWIN Geospatial Lookup when it previously had a value in the field. This has been fixed.

March 3, 2021



- A bug existed where Incidents were allowed to be children in more than one active Merge or Complex relationship. This has been fixed.
- A bug was fixed that prevented InFORM Inspector users from editing quarantined InFORM Mobile incidents in order to resolve incident conflicts.

February 2, 2021

🐛 Bug Fixes

 A bug existed where a Child incident in an active Potential Conflict relationship and in quarantine would have its ADS State set to 'Certified' when a Parent incident's ADS State was set to 'Certified'. This has been fixed.



Modification to Geospatial Lookup

• IRWIN now spatially derives the data elements 'POOLandownerKind' and 'POOLandownerCategory'.

January 13, 2021



New Features

Data Schema Changes

- Removed Fields
 - The field 'IslncidentInWUI' has been removed from the Incidents API.

December 15th, 2020 (TEST/Next) / December 17, 2020 (OAT/next)



Bug Fixes

- A bug existed where minimum date validation was not properly catching values older than 2 years. This
- There was a bug that did not properly return latitude and longitude values when geometry precision was equal to 6. This has been addressed.



Enhancements

- Validation on the ControlDateTime data element has been refined to prevent the user from applying a date greater than ten minutes from the current date time.
- The Incident ADS now resets when a system updates a data element to "null", allowing any other system to update the value as if it was being entered for the first time.
- Validation on DailyAcres, DiscoveryAcres, InitialResponseAcres, CalculatedAcres, and FinalAcres data elements have been refined to allow values greater than or equal to .01 acres. Previously, the minimum value was 0.1 acres.
- There is now additional validation on IRWIN text fields to not allow ">" or "<", as those values could cause problems when ingested by other systems. For example ">>" can be interpreted as HTML by other systems, resulting in an error.
- Incidents that are added to IRWIN as a False Alarm (IncidentTypeCategory = FA) are no longer included in conflict detection and will not be guarantined.
- Incident complexes (IncidentTypeCategory = CX) must include "Complex" as a standalone word in the Incident name. This is not case-sensitive.
- Validation has been introduced for the following incident fields:
 - POOProtectingUnit
 - DispatchCenterID
 - POOJurisdictionalUnitParentUnit

NOTE: IRWIN is downloading the list of valid UnitIDs from the WFMI UnitID Service nightly. Any values entered in the above fields that do not exist in the Unit ID service will return an error from IRWIN.



New Features

Data Schema Changes

- New ADS Permission State: FIREREPORTING
 - This state is meant to assist the handoff of an incident record from a CAD system to the Final Fire Reporting system. For specific ADS values, please refer to the IRWIN Data Mapping Workbook.
- New Fields
 - The Incidents layer has the following new fields:

DetectionMethod

IsIncidentInWUI

IsPOOOnUnprotectedLand

POOFireIntensityLevel

PrimaryWeatherStationIdentifier

Unprotected Land Response Reason

For specific details about these fields, please refer to the IRWIN Data Mapping Workbook.

October 28, 2020 (Released to TEST/Next ONLY)

*Note: These changes are planned to be promoted to OAT/Next on December 17, 2020.



Enhancements

- Validation on the ControlDateTime data element has been refined to prevent the user from applying a date greater than the current date time.
- The Incident ADS now resets when a system updates a data element to "null", allowing any other system to update the value as if it was being entered for the first time.



🎉 New Features

Data Schema Changes

- New Fields
 - The Incidents layer has the following new fields: DetectionMethod IsIncidentInWUI IsPOOOnUnprotectedLand POOFireIntensityLevel

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June 24, 2021



Enhancements

Resource Capability Request SpecialNeedsComments field length has been increased to 1500 characters.



Bug Fixes

There was a bug where IRWIN didn't allow negative values in the Capability CapabilityExpirationDate data element. This has been fixed.

March 30, 2021



🐛 Bug Fixes

There was a bug where IRWIN didn't cascade the 'Cancelled' Fulfillment Status to children in an ApplyToChildren command and requests with this status were also incorrectly returned in query results when querying for active capability requests. This has been fixed.

March 3, 2021



1 New Features

Data Schema Changes

- New Domain Value
 - o The Resource Capability Request Fulfillment Status has a new domain value of 'Cancelled'. For details about this domain value, please refer to the IRWIN Data Mapping Workbook.



🐛 Bug Fixes

- Previously, a bug existed where an incorrect ParentlrwinCRID was being set on child Capability Requests if the parent request was initially added to IRWIN as Unfilled. This has been addressed.
- Previously, new capability requests were being permitted to be added when associated with an invalid incident. This has been fixed and new capability requests will not be allowed to be added to invalid incidents.

February 2, 2021



New Features

Data Schema Changes

- New Fields
 - o The Resource table has a new field Fitness Expiration Date. For details about this field, please refer to the IRWIN Data Mapping Workbook.



Bug Fixes

- Previously, a bug existed where Overhead Resources conflicted with Resources that were set to IsValid = 0 (False). This has been addressed.
- The Resource Capability Request field IsSupport now defaults to 0 (False) rather than 'null'.

January 13, 2021



New Features

Data Schema Changes

- New Fields
 - o The Resource Capability Request table has a new field IsSupport. For details about this field, please refer to the IRWIN Data Mapping Workbook.



Enhancements

Validation has been removed where IRWIN rejected a filled Capability Request with an Alias Capability Type on an 'AddFeatures' operation.

December 15th, 2020 (TEST/Next) / December 17, 2020 (OAT/next)



Enhancements

- IRWIN no longer automatically creates Resource Experience. Additionally, IRWIN will be modifying permissions to allow IROC to add and update Resource Experience.
- There is now additional validation on IRWIN text fields to not allow ">" or "<", as those values could cause problems when ingested by other systems. For example ">>" can be interpreted as HTML by other systems, resulting in an error.
- Validation on Resource BirthMonthDay has been added so that the Day value cannot exceed 31 and the Month value cannot exceed 55 to satisfy extended team's business rules.
- A new ResourceKind of AircraftGroup has been added.
- IRWIN now supports Grandparent/Parent/Child relationships. The ApplyToChildren request parameter, when applied to the Grandparent resource or capability request, will cascade values to the Parent and
- The new field ParentlrwinCRID in the Resource Capability Request table is populated by IRWIN with the appropriate Parent Capability Request ID when the ApplytoChildren request parameter is applied.



🔯 New Features

Data Schema Changes

New Fields

The Resource API has the following new fields:
 The Resource Capability table has a new field CapabilityExpirationDate.
 The Resource Capability Request table has a new field ParentIrwinCRID.

For details about these fields, please refer to the IRWIN Data Mapping Workbook.

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July 27, 2020



Bug Fixes

A bug existed that recalculated the Unique Fire Identifier when a system attempted to update the data elements that are concatenated to create the Unique Fire Identifier but failed ADS validation. This has been fixed.



Enhancements

- Updates to the underlying SOI framework:
 - o ArcGIS library references and target updated to version 10.7
 - Updated .NET targets to version 4.8

April 28, 2020



🐛 Bug Fixes

• A bug existed that allowed a system to edit the geometry of an incident for which they did not have the ADS if the system edited a data element for which it did have the ADS. This bug also registered that the system making the change to the data element had last edited the geometry even if the system had not. This has been fixed.

April 13, 2020



🐛 Bug Fixes

• A bug existed that allowed systems that are not the CreatedBySystem to edit an incident record when IsQuarantined = true. This has been fixed.

March 17, 2020



🐛 Bug Fixes

There was an error in the IncidentCategory domain for Proficiency and Currency Event. This has been fixed and is coded as "PC", not "PT".

February 27, 2020



Enhancements

Spatial Lookup Information Update

- The geospatial lookup data has been refreshed. Please refer to the IRWIN Data Mapping Workbook for more information about the data sources and refer to the IRWIN Integration Specification - Incidents (Section 5.7, item 4) for how this geospatial information is used. Fields that use this information based on the SHAPE (Point of Origin) supplied when an Incident is created:
 - o POOState
 - o POOCounty
 - POOFips
 - GACC
 - o POOPredictiveServiceAreaID
 - o POOJurisdictionalUnit
 - POODispatchCenterID

February 20, 2020



Enhancements

Data Schema Change

• IsDispatchComplete has been removed from the Incident layer.

January 28, 2020



Enhancements

IRWIN will no longer expire "ProvidingResponseTo" incident relationships upon setting incident IsValid=0 if the IncidentTypeCategory = "OR".

January 15, 2020



🐛 Bug Fixes

There was a bug that prevented IROC users from seeing quarantined incidents. This has been fixed.

January 8, 2020



Bug Fixes

There was a bug that did not automatically change the Child incident's IncidentType to an 'OR' when setting Incident Relationship Relationship Type to 'Providing Response To'. This has been resolved.

December 19, 2019



Bug Fixes

There was a bug that incorrectly converted the IncidentRelationship table date fields, causing Update Features to fail. This has been resolved.

November 12, 2019



Bug Fixes

- There was a bug where an error occurred if a new incident "UniqueFireIdentifier" matched the unique ID of an invalid incident. This has been resolved.
- Previously, querying with "returnDistinctValues=true" on any layer still returns every record. This has
- The fields "CalculatedAcres", "DailyAcres", & "FinalAcres" are now required to have a minimum value of 0.1 acres.
- Previously, when an incident relationship type "ProvidingResponseTo" was created, Irwin was not properly setting the IncidentTypeCategory of the child incident to "OR". This has been fixed. Please see the <u>Incident's Integration Specification</u> for details on utilizing this relationship type.

August 26, 2019



Bug Fixes

There was a bug that allowed system's of lower ADS to update an Incident's SHAPE where that SHAPE
was previously set by a system with a higher ADS. This has been resolved.

July 26, 2019



Bug Fixes

- POOAgency was sometimes not updating when the corresponding unit was updated. This has been resolved.
- There was a bug creating incident transactions without any data changes being made.

July 17, 2019



Bug Fixes

• There was a bug causing the services to fail on first startup after deleting a config file. This has been resolved.

June 20, 2019



Enhancements

This release included general enhancements to the code base for the IRWIN Incident's SOI. There are no new functionality changes included in this release.

June 7, 2019



Enhancements

The logic IRWIN uses to automatically update an incident's Incident Type Category to 'OR' has been refined. When an incident relationship is updated to RelationshipType = 'ProvidingResponseTo' AND IsActive = 0, IRWIN automatically updates the IncidentTypeCategory of the child incident in the relationship to an 'OR'.



Bug Fixes

- There was a bug preventing an IncidentRelationship of RelationshipType = 'PotentialConflict' from being automatically created when the quarantining rules were met. This has been fixed.
- There was a bug preventing layer-level applyEdits. This has been resolved.

May 22, 2019



🞉 New Features

Data Schema Changes

- New Field
 - o The Incident layer now has a ArchivedOn field. This field will be auto-populated by IRWIN when archive triggers are met to indicate the record has been archived. These archive triggers have NOT been implemented yet.
- Removed Field
 - o ConflictParentIrwinID has been removed from the Incidents layer.
- New Domain Values
 - The RelationshipType domain within the Incident Relationships table has been modified to include ProvidingResponseTo. The existing Conflict domain value has been changed to PotentialConflict.

Incident relationships of type 'ProvidingResponseTo'

When an incident relationship is updated to RelationshipType = 'ProvidingResponseTo' IRWIN automatically updated the IncidentTypeCategory of the child incident in the relationship to an 'OR'.

Expiration of Incident Relationships

IRWIN will continue to expire incident relationships of any type where either the parent or child incident is marked IsValid = 0 (false).

IRWIN will no longer automatically expire 'PotentialConflict' incident relationships where the child incident is updated from IsQuarantined = 1 to IsQuarantined = 0.

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July 27, 2020



🐛 Bug Fixes

There was a bug that set values for fields not included in a Capability Request add or update but were included in the associated ApplyToChildren statement. This has been fixed.



Enhancements

Updates to the underlying SOI framework:

- ArcGIS library references and target updated to version 10.7
- Updated .NET targets to version 4.8

Data Schema Change

- The Capability Request layer has the following new fields to meet resource ordering business needs:
 - DemobETA
 - DemobETD

June 16, 2020



Enhancements

- ResourceKind in Resources now includes a new domain value "Equipment Group".
- Resource GeneralStatus now includes a new domain value "Available (Off Zone Only)".
- · Validation on the Resource VIN field has been removed with the exception of required fields for equipment currently in place.
- Validation on the Resource SerialNumber field has been removed with the exception of required fields for equipment currently in place.
- The HIN field will no longer accept a value longer than 1 character.
- The Resource ManagerContactInfo field is no longer required except for Overhead Resources.
- IRWIN no longer returns an error when updating a CapabilityRequest's FulfillmentStatus from 'Closed' to 'Closed'.

April 28, 2020



Bug Fixes

- Performance-related Fixes:
 - A bug existed where the "includeResource" and "includeCapabilityType" were querying multiple times during the same request. This has been adjusted so that these parameters are included within the same query.
 - A bug existed where the "includeCapabilities" would cause an internal error when no Resources or Capabilities were returned. This has been fixed.

April 13, 2020



Bug Fixes

A bug existed that allowed systems to add a Resource record with a ResourceSOR that did not match the system creating the record. This has been fixed.

- There was an issue with the Resource VIN validation that did not allow certain valid VINs and off-road PINs. This validation has been updated.
- Additional validation has been added to the Resource HIN field.

March 17, 2020



Bug Fixes

- Previously, a bug existed where IRWIN was rejecting any Capability Request features with a SpecialNeedsComments value that had a length greater than 50 characters. This has been fixed to allow SpecialNeedsComments values up to 255 characters.
- There was a bug that allowed users to set Resources IsQuarantined value to true (1) manually. This has been fixed.

February 27, 2020



Enhancements

- The validation on Resource CurrentDispatchUnit, HomeDispatchUnit, and ProviderUnit has been updated to include "AS, FM, GU, MH, MP, PR, PW, UM and VI" as valid state codes.
- Additional validation has been added for Capability Requests that have their FulfillmentStatus set to "Closed" so they may not be reopened.
- The validation preventing a Resource NameLast and NameFirst value from having more than one apostrophe has been removed. Validation still exists that rejects names with a leading apostrophe.
- Validation for Resource TailNumber has been modified to remove FAA rules to accommodate both out of country aircraft and frequencies.



Bug Fixes

- Previously, a bug existed where IRWIN failed to generate children Capability Requests when filling an unfilled "parent" request when certain fields are included or missing. This has been resolved.
- A bug existed where IRWIN returned an error message regarding updating an Experience record when setting a Resource OperationalStatus from "Mob En Route" to "Demob En Route", even though the update was successful. This has been fixed.

February 20, 2020



Enhancements

- ResourceKind in Resources now includes a new domain value "Overhead Group".
- When an "Unfilled" Capability Request is submitted for a Parent resource and it is subsequently updated to "Filled" with a Resource that has Children, IRWIN will now automatically create "filled" capability

- requests for each of the children in a resource relationship with the parent resource that is used to fill that original capability request.
- Additional validation was added to the Resource "BirthMonthDay" field to no longer allow '0000' value.

Bug Fixes

- Previously, a bug existed where IRWIN applied the fulfillment status change to the wrong children requests when the same resource is used on the same incident more than once. This has been resolved.
- The case sensitivity validation on "ResourceSOR" has been removed.

February 7, 2020



🐛 Bug Fixes

Previously, a bug existed where a value of "N/A" for the SerialNumber data element was considered a unique value. Now, when validating that an Equipment resource has either a VIN or SerialNumber, a value of "N/A" in the SerialNumber will be considered NULL (thus requiring a VIN).

January 28, 2020



Enhancements

A Resource's ResourceSOR field cannot be updated if OperationalStatus is either not null or equal to 'Returned from Assignment'



Bug Fixes

Previously, a bug existed where the OperationalName was being set to an empty string for Aircraft, Crew, Modules, and Equipment Resources when the Operational Status was set to "Returned From Assignment". This has been resolved.

January 16, 2020



Bug Fixes

The Capability Requests table query had a bug where the query would fail if Include Relationships was specified in the request and there was no IrwinCID associated with the request. This has been resolved.

January 15, 2020



Enhancements

The Capability Requests table now provides query functionality to Include Relationships in the JSON response.

January 9, 2020



🞉 New Features

The Capability Type table has the new field "IsAlias". For field specific details, please refer to the IRWIN Data Mapping Worksheet.

December 19, 2019



Enhancements

- The first Capability added for Overhead Resources no longer defaults to IsPrimaryCapability = 1. This validation still applies to Non-Overhead Resources.
- 'ResourceSOR' validation rules have been applied to the Capability table. On a feature Update, the current system/user must match ResourceSOR if it is not "None". If the current authenticated user does not match, the request fails.
- The ResourceClearinghouseID field for Resources now allows updates for all Resource Kinds.



Bug Fixes

There was a bug where the 'ResourceSOR' validation was not preventing edits to related records. This has been resolved.

There was a bug that did not allow non-required Resource fields to be updated to Null. This has been resolved.

November 12, 2019



🐛 Bug Fixes

- There was a bug that did not allow a user to set Operational Status directly to "At Incident" from null for child resources. This has been resolved.
- Previously, querying with "returnDistinctValues=true" on any layer still returns every record. This has been fixed.
- There was a bug that did not allow user role type "IrwinDataStewards" to edit Resources due to ResourceSOR validation. This has been resolved.
- There was a bug that did not allow user role type "IrwinDataStewards" to edit Resources when ResourceSOR = 'iroc'. This has been resolved.
- Previously, queries that did not contain the required id field(s), but included helper parameters (e.g. "includeRelationships") would result in a failure with no guidance. The response now contains useful error information in the response.

October 31, 2019



🞉 New Features

- The Resource layer has the following new fields to meet the Roll Call application business needs:
 - DutyStation
 - RollCallRemarks

For field specific details, please refer to the IRWIN Data Mapping Worksheet.



Enhancements

On an Update of a feature, current system/user must match ResourceSOR if it is not "NONE". If the current authenticated user does not match, the request fails. Exceptions to this rule are geometry, CurrentDispatchUnit, GeneralStatus, and OperationalStatus.



🐛 Bug Fixes

- There was a bug that set geometry X/Y to "NaN" on an update that excludes geometry information. This has been resolved.
- Previously, the query function failed when no output fields were specified. This has been resolved.
- There was a bug that set an incorrect value for ProviderAgency. This has been fixed.
- Previously, an ApplyEdits update operation failed when applied to the Capability Type layer. This has been resolved.
- There was a bug that did not allow a Resource to be assigned to a valid 'Filled' Capability Request when it was also assigned to an invalid 'Filled' Capability Request. This has been fixed.

October 7, 2019



Enhancements

- HomeUnit is no longer a required field when adding a resource of any kind.
- Validation has been removed from HomeUnit and the field will now allow text values of up to 50 characters.
- The data element DispatchLevel is no longer a required field. However, if the value is not null, then it must be a valid DispatchLevel.
- Adding or updating an Equipment resource now requires at least a SerialNumber or VIN.

Bug Fixes

- A bug has been fixed that previously allowed for duplicate filled capability requests to exist for a single IrwinRID (as inferred from the IrwinCID).
- Users cannot submit or update a CapabilityRequest that is "Unfilled" with a Capability (IrwinCID).

September 25, 2019



Enhancements

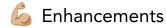
- ResourceSOR is now applicable to all ResourceKinds. It is required on AddFeatures for all ResourceKinds.
- The CapabilityRequest.Capacity field has been renamed RequestedCapacity. This data element has three domain values: No Trainee, Trainee Acceptable, Trainee Required.

- The first capability added for a resource will default IsPrimaryCapability=1, though it can be otherwise specified.
- OperationalName is only set by IRWIN where ResourceKind = Overhead.
- OperationalName is read-only for all systems except for IROC.
- DispatchLevel is a new field added to the Capability table. This data element has three domain values: NWCG Qualified, Compact Qualified, State Qualified.



• There was a bug where IncludeRelationships failed if no data was returned in relationship records.

September 6, 2019



- CapabilityRequests can allow no more than 1 'Filled' request on a non-preposition incident. A resource
 can have a capability request on a preposition and another type of incident, but not 2 preposition
 incidents.
- Experience should not be automatically created or closed for requests on a preposition incident.

🐛 Bug Fixes

- There was a bug causing a 500 error where include Capabilities=true and for any include*=true parameter where the corresponding target objects don't exist for a given source object.
- CapabilityRequest cannot be set to Filled if there is no Capability (IrwinCID) specified.

August 26, 2019



Enhancements

- If no CurrentDispatchUnit is provided or if CurrentDispatchUnit is set to null, IRWIN will populate CurrentDispatchUnit to be set to HomeDispatchUnit.
- 'Returned From Assignment' is an Operational Status that triggers to end an experience record.

- ResourceConflict records are deleted when setting IsValid = 0 on a resource.
- Setting IsValid = 0 on a resource also sets IsValid = 0 on its capabilities.

🐛 Bug Fixes

- There was a bug where adding an unfilled capability request with a specified capacity caused an error.
- The ApplyToChildren parameter was not working as expected:
 - Child resource capability requests were note created correctly on addFeatures.
 - Child resource capability requests data elements for ETA and ETD were not populated correctly.
 - The child resources' location was not being updated to the location of the incident.
- When a resource request is closed, updating ExperienceToDate sometimes fails. This has been resolved.
- Experience. Capacity is always empty unless manually updated. This has been resolved. IRWIN now
 populates Experience. Capacity from the Capability. Capacity field.
- When querying resource capabilities, additional parameters ("include*=true") are now working as expected.
- Updating FulfillmentStatus to 'Filled' caused an error when it is already 'Filled'

August 2, 2019

Bug Fixes

- Updating an overhead resource that is quarantined with all the same values sets IsQuarantined = 0
- Unique validators are not excluding the same record from their respective queries
- ResourceConflict should not allow parent and child to be the same resource
- Quarantine checking should exclude the same record from its query

July 31, 2019

🐛 Bug Fixes

• No geometry required, but when trying to update feature to add a geometry, got an error

- When the resource is NOT on a filled request, a error response is returned when setting the status either to "At Incident" or from "At Incident" to another value
- Provide error where a resource has capability types different from their kind (for example a engine can be given a capability type of kind Aircraft)
- All capabilities are able to be added using qualification role even for non-overhead resources
- OperationalName derived without Capability on Add for Equipment and Crews

July 26, 2019



Enhancements

• There was no way to resolve a ResourceConflict. If a resource is updated from IsQuarantined = 1 (true) to IsQuarantined = 0 (false), IRWIN will automatically delete any ResourceConflict records where the updated Resource is the child in the ResourceConflict.



Bug Fixes

- POOAgency was sometimes not updating when the corresponding unit was updated. This has been resolved.
- There was a bug preventing OperationalName being derived by IRWIN from GroupName for Crews Resources. This has been fixed.
- There was a bug preventing Experience records from closing properly when OperationalStatus was set to 'Demob En Route', 'Released (At Incident)', or 'Reassigned (At Incident)'. This has been fixed.
- There was a bug preventing the Resource Validation Rules from quarantining resources when HomeDispatchUnit should have caused the creation of a ResourceConflict. This has been resolved.

July 17, 2019



Enhancements

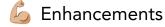
- OperationalStatus changes can now be propagated down to children in relationships. These custom parameters are details in the <u>Resource's Integration Specification</u>.
- The IrwinRID is now returned on an AddFeatures that meet the various Resource's exact match criteria.
- Resources of ResourceKind = Equipment must have either a SerialNumber or a VIN, but both are not required. If the VIN is NOT NULL the VIN must be unique. If the SerialNumber is NOT NULL the SerialNumber must be unique.

- There is added validation onto the SelectionArea data element to be a valid value, including a maximum length of 7, minimum length of 5, and the SS must be a valid 2-letter state code.
- IsContractResourceAllowed is no longer required on AddFeatures for CapabilityRequests. Its default value is false when no value is supplied.
- ProviderAgency was added to the Resource table refer to the <u>IRWIN Data Mapping Worksheet</u> for this field's specification.

🐛 Bug Fixes

• There was a bug causing the services to fail on first startup after deleting a config file. This has been resolved.

June 20, 2019



- The ResourceRead role was added. This role allows for read-access to various Resources layers, including:
 - Resource
 - Capability
 - CapabilityRequest
 - CapabilityType
 - ResourceRelationship
- The Evaluation data element within the Experience table now has a domain including valid values: Satisfactory and Unsatisfactory.

🐛 Bug Fixes

- There was a bug preventing updates to the Capacity data element in the Capacity table. This has been resolved.
- The Qualification role can now update and read the Resource Conflict table as expected.
- There was a bug preventing the use of apostrophes within the Resource name fields (NameFirst, NameMiddle, and NameLast). This has been fixed.

June 7, 2019



🎉 New Features

- A new Capacity field was added to the Experience table. This field is read-only.
- The RequestAOI field has been renamed to SelectionArea within the CapabilityRequest layer. This layer no longer has a domain.
- The FulfillmentStatus domain now includes a 'Closed' value.
- IsActive has been removed from the Resource layer.



Enhancements

- On an AddFeatures to the Resource layer, if BirthMonthDay and NameLast are exact matches to existing valid resources, IRWIN marks the newly added resource IsQuarantined = 1 and creates a record in the ResourceConflicts table.
- On an AddFeatures to the Resource layer, if BirthMonthDay, NameFirst, and the first letter of NameMiddle are exact matches to existing valid resources, IRWIN marks the newly added resource IsQuarantined = 1 and creates a record in the ResourceConflicts table.
- If no geometry is provided, when a resource's Operational Status is updated to 'At Incident' the resource's SHAPE is updated to the SHAPE of the incident for that resource's 'Filled' CapabilityRequest.
- When an experience record is created for a resource, IRWIN automatically writes the capacity of that resource (as indicated within the Capability record) to the new Capacity field within the Experience table.
- Several enhancements were made to the Capability table:
 - Capacity can be updated.
 - IncidentTypeEndorsement cannot be updated.
 - o IrwinCTID cannot be updated.
 - o IrwinRID cannot be updated.



Bug Fixes

There was a bug preventing layer-level applyEdits. This has been resolved.

May 22, 2019



🔯 New Features

Data Schema Changes

- Removed Fields
 - o ConflictParentIrwinID has been removed from the Resource layer.
 - o IsActive has been removed from the Resource layer.
 - Relationship Type has been removed from the Resource Relationship table.
- New Fields
 - The Resource layer has the following new fields:

GroupName

SecondaryPhone

CallSign

• The Capability layer has the following new fields:

IsValid

IsActive

• The CapabilityType layer has the following new field:

IsValid

• The CapabilityRequest layer has the following new fields:

InclusionsExclusions

IsContractResourceAllowed

- Field Name Changes
 - The VINNumber field has been renamed to VIN within the Resource layer.
 - o The RegistrationNumber field has been renamed to HIN within the Resource layer.
- New Domain Values
 - The FulfillmentStatus domain now includes a 'Closed' value.



Enhancements

- Within the Resource layer:
 - Validation rules for OperationalName have been defined. This is now a field solely derived by IRWIN based on the following logic:
 - Where ResourceKind = Overhead
 - \rightarrow IRWIN will add and update based on NameFirst, NameLast, NameMiddle (if available)
 - Where ResourceKind = Team or Module
 - → IRWIN will add and Update based on GroupName
 - Where ResourceKind = Crew
 - → IRWIN will add and Update based on GroupName.
 - If NationalResource = True and Capability.Type "Type 1"
 - → IRWIN will add IHC to the end of the GroupName. (Type represent the current filled request for that resource)
 - Where ResourceKind = Aircraft

- → IRWIN will add and update based on CallSign
- Where ResourceKind = Equipment
 - → IRWIN will add and update based on CapabilityType.Type, CapabilityType.Category and ApparatusNumber (Type and Category represent the current filled request for that resource)
- ManagerContactInfo is now required for all ResourceKinds.
- Validation rules for HomeUnit have been defined. This field value must be between 5-7 characters long and start with a 2-letter state code.
- ResourceSOR can be NONE, but it can only be updated to NONE from a valid value. Additionally, this field can only be updated to a valid value from a value of NONE.
- CallSign is required on Add for Aircraft resources. This data element has a minimum character length of 3.
- SecondaryPhone is required on Add for Overhead resources.
- GroupName is required on Add for Crews, Modules and Teams.
- Within the Capability table:
 - The Capability table is a relationship table, associating Resources with CapabilityTypes. As such,
 if a resource has multiple CapabilityTypes, there should be multiple records in the Capability
 table. The two new fields for IsValid and IsActive are intended to be used as flag field to
 invalidate records that are no longer valid and to expire valid records that are not active.
 - As a result, the following validation has been added:
 - The IrwinCTID cannot be updated.
 - The IrwinRID cannot be updated.
 - The Capacity field cannot be updated.
 - The IncidentTypeEndorsement cannot be updated.
- Within the CapabilityType table:
 - There is a new field for IsValid to invalidate CapabilityTypes.
 - o THERE WILL BE NO DELETE FUNCTION.
- Within the Experience table:
 - An Experience record is auto-created and auto-expired by IRWIN.
 - When a resources OperationalStatus is updated to 'At Incident' an experience record is <u>created</u> for the resource's Capability with a 'Filled' CapabilityRequest.
 - On creation, Irwin populates the ExperienceFromDate field within the current date/time.
 - When a resources OperationalStatus is updated to 'Demob En Route', 'Released (At Incident)', or 'Reassigned (At Incident)' an experience record is updated with the current date/time in ExperienceToDate.
 - This can be viewed as the trigger that *expires* an experience record.
- Within the CapabilityRequest table:

• A single Resource can only have ONE CapabilityRequest with a FulfillmentStatus of 'Filled'

Road to v5.1

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March 22, 2019

Note: In order to check if an incident is CERTIFIED, check the ADSPermissionState data element. See the IRWIN Data Mapping Worksheet for this field's specification. When an incident is CERTIFIED, data element updates that are not permitted will be returned in the response within SkippedElements.

Note: If a system changes a data element to null, this does not reset the ADS for that data element.



Enhancements

- The UniqueFireIdentifier is enforced as unique for all incidents, regardless of IncidentTypeKind.
- Added validation to ensure that all Incident Relationships are unique. When attempting to add a relationship where an active relationship of the same ParentlrwinID & ChildIrwinID exist, your add will now fail.
- The quarantining rules have changed. The new rules are:

IncidentTypeCategory does not equal CX (Complex) AND IncidentTypeKind equals FI AND FireDiscoveryDateTime < 6 Hours AND Geometry <1/2 Mile AND (DispatchCenterID Not Like OR CreatedBySystem Not Like)

- → Complexes can never be in conflict.
- → Complexes are never considered in the conflict detection of other FI incidents.
- → If two incidents have both different DispatchCenterIDs and CreatedBySystems, they could still be in conflict.

For additional information, refer to the Incident Workflows v5-1 tab of the <u>LucidChart Diagrams</u>.

- IsFireCodeRequested is no longer a required field. The default value is 0 (false).
- IsDispatchComplete is no longer a required field. The default value is 0 (false).

- IRWIN validates the following fields:
 - 1. FireStrategyConfinePercent
 - 2. FireStrategyFullSuppPercent
 - 3. FireStrategyMonitorPercent
 - 4. FireStrategyPointZonePercent

First, these four (4) fields must add to 100 or to 0; any values of null are interpreted by the Validator as 0. Second, if the Validator is met and at least one of these four fields in a non-null value, all null values are updated to a value of 0.

Note: If one of these field's is updated from a value to null, IRWIN will not automatically reset the value to 0. In this case, systems must update the value to 0.



Bug Fixes

- There was a bug causing the deleteFeatures to fail when specifying ObjectIds. This has been resolved.
- There was a bug causing updateFeatures to fail if IrwinID was not included in the request. This is now
- Incidents where the DispatchCenterID is derived from the POODispatchCenterID were not passed through the conflict detection rules. This bug has been resolved.

Feb 26, 2019



Enhancements

- When DispatchCenterID is not supplied on AddFeatures (read-writes), the DispatchCenterID is auto-populated with the value for POODispatchCenterID.
 - Recall, the POODispatchCenterID is a read only field value populated through a geospatial look-up from the incident's latitude and longitude.

January 4, 2019



Enhancements

DiscoveryAcres is now only required where IncidentTypeKind = FI and IncidentTypeCategory = WF.



🌄 Bug Fixes

- There was a bug preventing the POOProtectingAgency from populating in certain scenarios. This has been resolved.
- A bug was fixed where a guery failed if any/all of the following were true: returnIDsOnly, returnCountOnly, or returnExtentOnly.
- A bug was fixed to allow the IncidentTypeCategory data element to be updated where the RelationshipType is equal to Conflict. This bug prevented conflict resolution for Out of Area Responses (IncidentTypeCategory = OR).
- Submitting updates was occasionally returning Error 8004. This was due to a discrepancy between the new WFDSS-related data elements and the ADS.
- The StrategicDecisionPublishDate field was incorrectly created as a esriFieldTypeDouble. It has been changed to esriFieldTypeDate.

November 16, 2018

This release marks the Feature Complete release of the Incident API for v5.1.



W New Features

Data Schema Changes

New Fields

There are five new fields within the Incidents layer:

- EstimatedFinalCost
- OrganizationalAssessment
- RelativeRiskRating
- StrategicDecisionPublishDate
- WFDSSStrategySliderValue

See the <u>IRWIN Data Mapping Worksheet</u> for field specific details.

IncidentTypeKind Valid Values

Valid values for the IncidentTypeKind field include FI, HZ, AC, AP, PA, SR, ND, and TR.

- IncidentTypeCategory
 - Valid values on add and update feature include CX, FA, DF, PP, RX, SF, SU, OR, VF, and WF.
 - Logic added to ensure incidents cannot be updated from any other category to CX. Once an incident is created as a CX, it cannot be updated to a different category.



Enhancements

Allow client to provide the IRWIN(X)ID GUID value for all tables on addFeatures Some mobile applications submit multiple related features in a single request. Using applyEdits, supplying client-generated keys for GlobalID.

October 10, 2018



🞉 New Features

Allow incidents without geometry

With the inclusion of additional Incident Type Kinds (beyond "FI"), it has become necessary to relax the business rule requiring all new incidents to have a location (geometry). Only where IncidentTypeKind = "FI" is the geometry required.

"Category Matches Kind"

This new validation rule ensures that IncidentTypeCategory is compatible with IncidentTypeKind. See the <u>IRWIN Data Mapping Worksheet</u> for details on which IncidentTypeKind values match which IncidentTypeCategory values.

Conflict-detection is only applied where IncidentTypeKind = "FI"

With the inclusion of additional Incident Type Kinds (beyond "FI"), incident conflict detection is only performed where the incident's IncidentTypeKind is equal to "FI".

Incident relationships only applied where IncidentTypeKind = "FI"

With the inclusion of additional Incident Type Kinds (beyond "FI"), incidents with an IncidentTypeKind that is not "FI" cannot partake in relationships.

Data Schema Changes

• New Field: IsDispatchComplete

An indicator used by dispatch systems to indicate if the criteria has been met to close an incident in their system, can be used by consuming systems as part of their "fall off" rules.

New Field: GlobalID

Added to support INFORM Mobile application, should be ignored by most systems.

Som.

Bug Fixes

- There was a bug that occurred when a query request included ConflictParentIrwinID as an outfield and includeRelationships=true. The result was an error (code: 500, message: "Error performing query operation").
- There was a scenario when sending a query request with includeLastSyncDateTime=true would incorrectly return a nextSyncDateTime that was before the last ModifiedOnDateTime.

Resource API Changelog

Welcome to the IRWIN Resource API Changelog! This changelog documents iterative releases to the Resource API within IRWIN's OAT/next environment.

In preparation for v6, the under-development Resource API will be iteratively released to the IRWIN's OAT/next environment at https://irwinoat.doi.gov/arcgis/rest/services/next/Resource/FeatureServer. These releases are considered under development until v6.

Prior to Integration Testing for v6.0 in Aug 2019, a formalized Integration Specification will be distributed to the Extended Teams to detail the transition from the OAT/next environment into the stable environments.

For more information on the Resources data schema, please see the IRWIN Data Mapping Worksheet.

For specifics on Resource workflows, go to to the Resources Workflows tab of the <u>LucidChart Diagrams</u>.

Releases

March 22, 2019

Feb 26, 2019

January 4, 2019

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March 22, 2019



🐛 Bug Fixes

- There was a bug preventing the Dispatch role to update Resource records of various ResourceKinds. This is now resolved to match the intended role update capabilities within the IRWIN Data Mapping
- There was a bug causing the deleteFeatures command to fail when specifying ObjectIds. This has been resolved.

Feb 26, 2019



Enhancements

- When adding a CapabilityRequest, the IrwinCID is no longer a required field.
- The data elements for resource names (NameFirst, NameLast, and NameMiddle) now have no minimum length.
- Additional error messaging was implemented for required fields.



🐛 Bug Fixes

Query parameters for Resource layers returned null values; this is now fixed.

January 4, 2019



🞉 New Features

New Resources Roles

Five new roles were added for the Resources API. This includes Ordering, Qualification, LineUp, Dispatch, and CapapabilityTypeAdmin. The details of the Read, Create, Update, and Delete privileges can be found on IRWIN Data Mapping Worksheet.

Please note, the existing Resources roles are still valid and will only be deprecated after additional testing.

Data Schema Changes

ResourceConflicts table added

This table was added to the Resources data schema in an effort to isolate resource-resource conflicts. Previously these conflicts were included within the Resource Relationship table in addition to resource-capability relationships. Details for each table are listed on the Lucid Chart Diagrams.

This table's primary key is IrwinRCID.



Bug Fixes

- The LocationTimestamp field was incorrectly created as a esriFieldTypeDouble. It has been changed to esriFieldTypeDate.
- The IrocRequestID field was incorrectly created as a esriFieldTypeInteger. It has been changed to esriFieldTypeString.
- The addFeatures operation did not honor Irwin*ID. For example, when submitting a resource that included an IrwinRID, the IrwinRID would not be preserved with the resource.
- The *query* operation failed if no "outFields" were specified.



Enhancements

- Relationship classes were added for all appropriate Resource layers and tables.
- Generally improved error messaging.
- A number of internal performance optimizations (no changes to the API surface).

November 16, 2018



🎉 New Features

The following business validation rules have been implemented into the Resource API on OAT/next as described in the Resources Workflows tab of the <u>LucidChart Diagrams</u>.

Aircraft Exact Match:

For resources of ResourceKind = Aircraft, the TailNumber must be unique. An aircraft resource is rejected if the TailNumber is an exact match to an existing aircraft resource.

Equipment Exact Match:

For resources of ResourceKind = Equipment, the VINNumber must be unique. An equipment resource is rejected if the VINNumber is an exact match to an existing equipment resource.

Capability Exact Match:

For a single IrwinRID, the IrwinCTID must be unique. The capability is rejected if exact match.

Primary Capability Exact Match:

For a single IrwinRID, only one IrwinCTID can be marked isPrimaryCapability = true. The capability is rejected if IrwinRID has existing IrwinCTID with isPrimaryCapability = true.

Capability Relationship:

The combination of ParentlrwinRID + ChildlrwinCID + RelationshipType must be unique. The resource is rejected if exact match.

Overhead Exact Match:

• For an overhead resource, the combination of attributes must be unique: NameFirst + NameLast + NameMiddle + HomeDispatch + ProviderUnit + BirthMonthDay.

The resource is rejected if exact match for all stated fields.

- Potential Duplicate:
 - isQuarantined = True if a resource exists with the same attributes for all but one of the following fields:

NameFirst NameLast NameMiddle BirthMonthDay HomeDispatch ProviderUnit

- Potential Transfer:
 - IsQuarantined = True if a resource exists within the same attributes for NameFirst,
 NameLast, NameMiddle, and BirthMonthDay, but attributes for HomeDispatch and
 Provider unit are different.

Overhead Update System of Record:

If ResourceSOR is Null, the ResourceSOR can be updated. If ResourceSOR is not Null, the ResourceSOR can ONLY be Updated to Null.

Group Entry:

The combination of OperationalName and HomeDispatch must be unique. The resouce is rejected if exact match.

Data Schema Changes

- Domain Changes
 - The FitnessLevel domain was updated to include "None"
 - The EventKindCat domain was updated to inlcude FA = False Alarm and OR = Out of Area Response
- IsLocationSupplied was renamed to IsLocationTrackingEnabled.
- Kind was renamed to ResourceKind.

🐛 Bug Fixes

- There was a bug allowing resources to be Added by not Updated. This has been resolved.
- There were several inconsistencies within the Resource API related to fields being required on AddFeatures. These issues have been addressed.

The <u>IRWIN Data Mapping Worksheet</u> specifies the desired functionality. For all fields in the Resource API, if the field is required on AddFeatures, the field is only required for the ResourceKind's that field applies to (as indicated by an *).

- There was bug where the ProviderUnit field could not be updated. This is not resolved.
- There was a bug when users' added Experience records, the IrwinEID was not created. This has been addressed.
- There was a bug where an Overhead Capability could not be added when a Capacity was included. This
 has been fixed.
- There was a bug not allowing the Resources layer to be queried if outFields was set to specific field names. This has been fixed.

October 17, 2018



Bug Fixes

This build addressed basic validation rules to the enforce minimum required fields, data types, valid lds, starts-with-state-codes, and min/max field lengths.

October 10, 2018

As a part of this release, all existing records within TEST/next and OAT/next for resources were purged. This purge removed all records within the "next" resources of TEST and OAT prior to 10 October 2018 at 1200 Pacific.



🎉 New Features

This release marks the initial release of the IRWIN Resource API. The initial functionality provides the "framework" required to implement validation logic against resources. This framework includes support for the following activities:

- Use of IrwinRID as primary key (instead of OBJECTID)
- Foreign key validation for relationships
- Data Type Validation
- Domain Validation

For more information about pending Resource API business logic and validation, please reference the "Resource Workflows" tab for more details at:

https://www.wildfirelessons.net/viewdocument/irwin-51-6-workflows?CommunityKey=5b76814b-c0e4-42f8-ba48 -9faf1c616093&tab=librarydocuments



Bug Fixes

This release marks the initial release of the IRWIN Resource API. No bugs have been logged to date.

Layers Changelog

Welcome to the IRWIN Layers Changelog! In this section, you can find a list of all the changes that have been made to the IRWIN Layers.

Releases

February 6, 2019
January 4, 2019
October 10, 2018

February 6, 2019



The read-only services now include all IRWIN data fields, including the previously hidden fields for Fatalities, HasFatalities, Injuries, HasInjuries, isQuarantined, OtherStructuresDestroyed, OtherStructuresThreatened, ResidencesDestroyed, and ResidencesThreated.

January 4, 2019

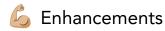


This release included a new group within GeoPlatform: <u>Irwin Data</u>. This group includes geospatial services which provide a near real-time (data is replicated every 60 seconds) view of the data being shared through Integrated Reporting of Wildland-Fire Information (IRWIN) service.

October 10, 2018

There are currently two IRWIN Services published to the GeoPlatform ArcGIS Online Organization.

- Current Wildland Fires
- Recently Updated Fires



• Both IRWIN Services have recently been updated to include more friendly versions of Incident data elements CreatedOnDateTime and ModifiedOnDateTime, which are stored as numbers for validation purposes. The new fields CreatedOn and ModifiedOn mirror the values in the existing fields, but are exposed in a DateTime format to enable more user-friendly filtering and display.