



# IRWIN

# v10

## Business Plan



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# IRWIN v10 Draft Business Plan

4/19/2024

## Summary

The IRWIN v10 Draft Business Plan responds to the extended community's diverse requests, focusing on new system integrations, system improvements, and a reflective IRWIN Retrospective. Key initiatives include the integration with a current procurement system and preparations for the Integrated Internal Procurement Application (IIPA) implementation. Significant progress involves upgrading the e-ISuite interface from read-only to read/write capabilities, enhancing data integration with learning management systems through the learning API, pioneering a direct connection to reference data via EDG, and incorporating additional computer automated dispatch systems. Enhancement requests from existing systems are systematically prioritized, ranging from highest to lowest importance. These strategic updates are designed to substantially boost the IRWIN system's functionality and efficacy in data exchange.

## New System Integrations:

### IIPA (v11 IIPA)

- Business Need: As a connected system, I need an established system of record for agencies' contract and associated resource data so that the latest authoritative data is shared with the resource ordering system for users to fill capability requests appropriately.
- Impacted Systems: IROC, Incident Business, National Center Managers

### HEMS

- Business Need: As a connected system, I need an established system of record for agencies' contract and associated resource data so that the latest authoritative data is shared with the resource ordering system for users to fill capability requests appropriately.
- Impacted Systems: IROC, Incident Business, National Center Managers

### Learning Management Systems

- IRWIN is working with the learning management systems to facilitate the connection between LMS and the qualifications systems. IRWIN implemented the learning API in v9 and will support the systems to connect v10.
- Business Need: As a user, I need responder training to come into IRWIN and subsequently into the qualification systems.
  - WFLP
  - ESO
  - FEMA's All Hazard Training Portal
  - IAT
- IRWIN is coordinating with the EDG team to establish EDG as SOR for Course Data Set
- Impacted Systems: IQS, IQCS

## WFDSS Next Generation

- IRWIN is coordinating with WFDSS Next Generation as a participating system in support of their go-live schedule.
- Impacted systems: ICS-209 for Suppression Strategy (item listed in following section.) Likely no other additional impact to systems since testing was completed in v9.

## e-ISuite

- E-ISuite has been working towards a read-only connection for v9.
- Read/Write Incidents, Read-Only for Resources in v10.
- Business Need: As a system, I want to be able to read incident data so that I have the most updated records from connected systems.
- Business Need: As a system, I want to be able to read resource data so that I have the most updated request and resource status information from connected systems.
- Impacted Systems: CADs, IROC, FireCode, EGP

## EDG

- IRWIN is coordinating and collaborating with the EDG Team, and all impacted connected systems.
- Business Need: As a connected system, I need an integrated system of record for reference data so that I can provide users the most updated authoritative data.
- Impacted Systems: Any system looking to connect to EDG reference data.

## Interior Fuels & Postfire Reporting System

- Business Need: As a connected system, I need to be able to query Prescribed Fire records that originated from Interior Fuels & Postfire Reporting System (IFPRS) so that I can order resources to the appropriate record and so that I do not create duplicate incidents.
- Impacted Systems: CADs, IROC, e-ISuite.

## Wildfire Team Awareness Kit (WFTAK)- Incidents and Resource

- Business Need: As WFTAK, we would like to ingest incident and resources data so that our system can display assigned resources on incidents to users.
- Impacted Systems: Currently evaluating as read-only system, no impacts anticipated.

## ESO

- Business Need: As an incident read-write system, I want to be able to add and update incident records so that my data is shared with other connected systems.
- This is a new system replacing the already-integrated ERS and would be an Incident Read/Write system.
- Impacted Systems: FireCode, InFORM, IROC, WildCAD-E (incident conflict detection)

## ImageTrend

- Business Need: As an incident read-write system, I want to be able to add and update incident records so that my data is shared with other connected systems.
- Impacted Systems: FireCode, InFORM, IROC, WildCAD-E (incident conflict detection)

## CAL FIRE Qualification System (QMS)

### California Counties

- CONFIRE (San Bernardino) Central Square
- Santa Barbara County
- Ventura County
- Orange County
- Kern County
- Marin County (update – v11)
- Impacted Systems: CAL FIRE (incident conflict detection), IROC, FireCode

### First Due

- First Due is looking to have any of our current and future sites to be able to send data to IRWIN.
- Beginning discussions and business requirements gathering.

### Fire Business Management System (FBMS)

- Beginning discussions and business requirements gathering.

### Law Enforcement & Investigation Reporting System (LEIRS)

- Business Need: As a Fire Investigator/FPO and LEIRS user, I need IRWIN incidents to be exchanged with my application to eliminate redundant data entry as well as share fire cause specifics with IRWIN and other participating applications.
- Impacted Systems: LEIRS, InFORM

## Importance: Highest

### Summary Resource Data

- IRWIN team and the extended community is identifying opportunities to provide summarized resource data via integration to participating systems.
- Business Need: As a user, I need summary resource data indicating provider agencies associated with Incidents by capability type.
  - Initial attack resources
  - All associated resources
- Business Need: As a 209 user, I need incident resources, showing at incident, to be integrated in a manner consistent with ICS-209's Resource Tab so that I can better create the incident resource summary based on already integrated request and resource data.
- Impacted Systems: ICS-209, InFORM, Incinet, Wildland Fire Management RD & A, WFDSS Next Generation, e-ISuite, WFTAK, DCAT (see below). This would likely be an optional enhancement for systems to read in this data.

### IsIROCManaged Workflows and Data Elements

- IRWIN team and extended community are looking to find opportunities to reassess IsIROCManaged. During v9 Integration Testing, conversations arose around IsIROCManaged and the need to revisit how each system is applying the concept and whether updates to the Resource Specifications are needed.
- Business Need: As a resource ordering system, I want to be able to process resource requests in the same way for all inbound integrated capability requests so that I can

ensure they are handled appropriately and in accordance with established business rules.

- For v10, remove IsIROCManaged from Resource Specifications and IRWIN will not onboard new CADs to use this data element.
- Impacted Systems: IROC, CADs

### Active/Inactive Capability Type

- IsValid value within the IRWIN Data Mapping Worksheet validates on if a capability type **is or has ever been** a valid capability type. This allows requests for inactive capability types to be exchanged.
- Business Need: As a connected system as well as a user, I need the IRWIN Data Mapping Worksheet, Capability Type to include an active/inactive column to prohibit inactive capability type requests from being shared with systems which cannot fill them...since they're inactive.
- Impacted Systems: CADs, IROC, IQS, IQCS

## Importance: High

### Update Dispatch Center ID

- Business Need: As a user, I need an established workflow within incident integration to facilitate transferring an incident from one dispatch center to another.
- Impacted Systems: CADs, IROC, ICS-209

### Incident Type Endorsements for Overhead based on Business Requirements

- IRWIN allows one capability w/endorsement from qualification system at a time.
- Business Need: As a qualification system, I need the ability to exchange two distinct capability types as appropriate and not consolidate them under the same IRWINCID. They have different requirements and are not the same i.e., unique hazard type/qualification match.
- Business Need: As a qualification system, I want to be able assign capabilities that are endorsed by NIMSIC so that I can assign overhead resources who have this qualification to appropriate resource requests.
- Business Need: As a resource ordering system or a CAD, I want to know what qualification endorsement types can be assigned to what incident types so that I can follow the appropriate business rules and present users with the correct qualification(s) at the time of assignment.
- Impacted Systems: CADs, IROC, IQS, IQCS

### ICS-209 Resource integration

- Business Need: As a 209 user, I need incident resources, showing at incident, to be integrated in a manner consistent with ICS-209's Resource Tab so that I can better create the incident resource summary based on already integrated request and resource data.
- IRWIN Implementation Team is coordinating with e-ISuite utilizing the established query e-ISuite has utilized for their 209 Resources Report in support of this effort.
- Impacted Systems: ICS-209

## Integrate Suppression Strategy (continuing implementation in v9 and v10)

- Business Need: As a read/write system with business needs associated with implementation of integrating Fire Suppression Strategies, I need ADS values associated with those data elements to reflect Agency Administrators decision within WFDSS with a higher ADS value than participating systems.
- IRWIN is engaging with WFDSS, WFDSS Next Generation and ICS 209 on updating ADS values for the following data elements.
- The request is for WFDSS to have a higher ADS:
  - FireStrategyConfinePercent
  - FireStrategyFullSuppressionPercent
  - FireStrategyMonitorPercent
  - FireStrategyPointZonePercent
  - RelativeRiskRating
- Impacted Systems: ICS-209, WFDSS

## Importance: Medium

### IrwinCRID data element to Resource Experience

- Business Need: As a resource ordering system, I want the IrwinCRID to be included in the Experience table to facilitate relating experience with the capability request it originated from.
- Impacted Systems: IROC, IQS, IQCS

### Capability Request Fill with Override Workflow (Refinement)

*Center Manager Discussion Pending 04/22/2024.*

- Business Need: As the wildland fire community, I want defined workflows regarding the Fill with Override concept so that our system can be designed following appropriate business practices.
  - This may be something that should not be allowed.
  - Are experience records being sent to IRWIN even when filling with override and should there be?
- Impacted Systems: CADs, IROC

### Frequencies (v10 and v11) – phased implementation

- ❖ v10 create frequency catalog and solidify business requirements.
- ❖ v11 resource ordering frequencies

IRWIN will continue discovery for creation of a mechanism to associate incident frequencies with incidents in IRWIN for initial and extended attack.

- EDG connection for Frequencies
  - Business Need: As the integration system, I want to be able to pull frequency data from EDG or have EDG send frequency data to the integration so that we have the most updated data to share with connected systems.
  - EDG serves as the authoritative source for the reference data set for Frequencies as well as for potential validation of frequency data elements (standard).
- Initial Attack Resource Order Header Data



- Business Need: As a resource ordering system or a CAD, I want to be able to send frequency information so that both dispatchers and users have the same, accurate information during initial attack.
        - Associated Resource Order?
    - Milestones which teams need to collaborate and come to a consensus on:
      - Frequency of updates and availability of services. (Proposed maintenance cycle)
      - Develop Frequency Catalog
      - Develop workflows for CDO and Agency Frequency Managers to add data to EDG. (complete)
      - Develop workflows and Lucid Charts for systems to access data set from IRWIN.
      - Quality Assurance/Quality Control Ongoing
- \*\*Coordination with IROC, CADS, IRWIN, EDG/DMO Team, CDO and Agency Frequency Managers \*\*
- Impacted Systems: CADs, IROC

## Importance: Low and Lowest

### Reintegration of InFORM Data

- IRWIN team and community is looking to review progress made towards reintegration of final fire report data from InFORM. Did we meet objectives set in v9? Are there gaps in the needs of the extended community and final fire reporting data?
  - Business Need: As a connected system, I want to be able to see data elements updated in the final fire reporting system for incidents for my system so that systems match, and the most accurate data is included in the incident record.
  - Business Need: As a connected system, I want to have access to the Fire Occurrence Data Record ID so that I can relate the IRWIN record to the Final Fire Report record in InFORM.
  - If an application can write a data element on create or update to IRWIN, and that data element can be updated by another application, it will be made available within IRWIN. Participating systems may, based on their specific business needs, update operational data with final fire reporting data in accordance with established ADS values. If the participating system doesn't have a business need to update data with final fire reporting data, they will identify to their users their data is operational and final fire reporting data is available in the respective final fire reporting system.

*\*\*Wildland Fire Incident Record Standard Business Rules for Data Exchange is out for review, since the standard hasn't been approved to date there isn't an expectation systems will implement standard for v10*

- Impacted Systems: Incident Read/Write that want to consume fire reporting data: IROC, CADs, WFDSS systems, e-ISuite, InFORM

### Incident Relationships

- Update Incident Relationships data elements to align with NWCG Standard to include adding new incident relationships and associated business rules for FR and BR incidents.
- Business Need: As a user I need the integrated systems to contain a workflow for the implementation of the NWCG Event Kind Category revision (approved 03/2022) inclusive of the associated business rules regarding incident relationships.



- The extended community has requested the IRWIN team to facilitate discussion leading to consensus regarding where relationships will be created.
  - Potential Conflict
    - IRWIN
  - Providing Response To
    - Child System
  - Complex
    - CAD, ICS-209
  - ~~Merge~~
    - ~~CAD, ICS-209~~ (Will not to be addressed in the IRWIN Business Plan until task group provides direction)
  - Prescribed Escape
    - CAD, InFORM, in the absence of a CAD or InFORM Read Write system that has create capability.
  - Post Fire Relationships  
BAER and FR(BAR)
    - CADs, IROC, IFPRS (v10?)
- Impacted Systems: CADs, IROC, ICS-209, InFORM, IFPRS (when integrated)

#### Event Kind Category Revision (International) –

*Waiting for the standard approval and then see what the timing is depending on versions.*

- Business Need: As an application and an end user, I need the ability to create incident records which specify resources mobilized internationally as well as wildfires which originate in another country and spread into the United States.
- Impacted Systems: IROC, CADS, ICS-209, InFORM, WFDSS Next Generation, Qualification Systems, IRWIN

#### Update Unit ID fields to include Country Code

- Business Need: As a connected system that adds or updates incidents, I want to be able to send in UnitID with the country code included to comply with the NWCG standard.
  - Clarify with systems if IRWIN corrected the way it handles Unit ID fields if they would be impacted. Systems have already accounted for this within data exchange.
- Impacted Systems: All Resource and Incident Read/Writes

## New Environments:

### Integrated Training/Practice Environment (s)

- Longstanding request to have an integrated environment where systems can train users. Discussions need to be had on what the ask is for IRWIN as well as members who are connected to IRWIN higher environments.
- Business Need: As an extended system, I want to be able to have an integrated environment with all extended systems connected with the production version (higher environment) of their software so that users can learn how to operate in the integrated environment without disturbing production data.
  - IRWIN connected system users have requested the ability to conduct organized training i.e., NWCG courses with dependencies on the applications.
  - IRWIN connected system users have requested the ability to conduct day to day practice using the integrated IRWIN environment.

\*\*The creation of integrated training and practice system will allow users to train and practice in an end-to-end incident lifecycle workflow utilizing all the IRWIN integrated functionality and data without impacts to the production systems. \*\*

Impacted Systems: All integrated systems.

## Additional IRWIN Deliverables (no lift for systems, informational only)

### Dispatch Cost Analysis Tool (prototype)

Dispatch Cost Analysis Tool (DCAT) is a proposed Wildland Fire Information and Technology (WFIT) affiliated investment intended to develop a national standard process to evaluate dispatch center workloads, identify recommended staffing, and determine agency Dispatch costs based on workload by unit/agency for supporting a dispatch center. The intent of Tool's output, Final Agency Adjusted Total, is to serve as a starting point for dispatch board of directors or coordinating groups to discuss financial contributions. It is not intended to determine an exact financial obligation.

- Business Need: As a user I need a tool to return DCAT input data elements as well as deliver DCAT output data elements identified in DCAT's business plan.

### IRWIN Retrospective

- IRWIN is conducting a retrospective and evaluating if our established workflow and patterns for system connections and data exchange utilize the most effective and efficient technology.

### Dashboard

- The community has recognized a business need to determine when a relationship has changed and/or other changes to identified data elements have been made.

## V10.0 Milestones and Dates

- 🍇 Business Requirements Drafted Friday, April 5, 2024
- 🍇 Release of Business Plan Friday, April 19, 2024
- 🍇 Project Management Plan Published Friday, April 26, 2024
- 🍇 Release Management Plan Published Friday, April 26, 2024
- 🍇 Testing Plan Published Friday, April 26, 2024
- 🍇 IRWIN v10.0 “Feature Complete” Wednesday, August 28, 2024
- 🍇 Integration Specifications Published Wednesday, August 28, 2024
- 🍇 Data Mapping Workbook Published Wednesday, August 28, 2024
- 🍇 Initial API (Incidents and Resources) Build to TEST/Next Tuesday, September 3, 2024
- 🍇 Initial API Build (Incidents and Resources) to OAT/Next Thursday, September 5, 2024
- 🍇 Build Freeze December 20, 2025 – January 3, 2025
- 🍇 Integration Testing Monday January 27, 2025, thru Friday January 31, 2025
- 🍇 IRWIN v10.0 “Code Freeze” Friday, February 21, 2025
- 🍇 v10.0 Production API (Incidents and Resources) Release Wednesday, March 5, 2025
- 🍇 v10.0 Observer Production Release Wednesday, March 5, 2025