

IRS CPIC Management System

Complete Reference Guide

Forms, Workflows, and Dashboards

Application URLs:

Solution A: <https://irs-cpic-solution-a-252370699783.us-central1.run.app>

Solution B: <https://irs-cpic-solution-b-252370699783.us-central1.run.app>

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Table of Contents

1. Executive Summary
2. Solution A - 9 Investments, 134 Forms
 - 2.1 Investments
 - 2.2 PRESELECT Phase Forms (15)
 - 2.3 SELECT Phase Forms (24)
 - 2.4 CONTROL Phase Forms (80)
 - 2.5 EVALUATE Phase Forms (15)
3. Solution B - 15 Investments, 185 Forms
 - 3.1 MAJOR Investments (5)
 - 3.2 SIGNIFICANT Investments (5)
 - 3.3 INFRASTRUCTURE Investments (5)
 - 3.4 Forms by Category
4. Workflows (8)
5. Dashboards
6. Role Permissions
7. API Endpoints
8. Functional Areas (22)

1. Executive Summary

The IRS CPIC (Capital Planning and Investment Control) Management System provides comprehensive investment lifecycle management for IT investments. The system is available in two solution configurations:

Solution A: Designed for consolidated investment management with 9 investments organized into Mission (4) and Foundational (5) categories, tracking 134 forms across the CPIC lifecycle phases.

Solution B: Designed for federal compliance with 15 investments organized into MAJOR (5), SIGNIFICANT (5), and INFRASTRUCTURE (5) categories, tracking 185 forms with OMB Exhibit 300/53 requirements.

Both solutions support 8 core workflows aligned with Treasury SPIKE tool reporting requirements.

Key Statistics

Component	Solution A	Solution B
Investments	9	15
Forms	134	185
Workflows	8	8
Dashboards	5	8
Functional Areas	22	22

2. Solution A - 9 Investments, 134 Forms

2.1 Mission-Focused Investments (4)

ID	Name	CD Owner	Budget	Health
INV-01	Taxpayer Services Modernization	Jim Keith	\$456M	Green
INV-02	Tax Processing Transformation	Miji Mathews	\$389M	Green
INV-03	Compliance Systems Enhancement	Eric Markow	\$234M	Yellow
INV-04	Filing Season Infrastructure	Craig Drake	\$178M	Green

Foundational Investments (5)

ID	Name	CD Owner	Budget	Health
INV-05	API Platform & Integration	Rob King	\$145M	Green
INV-06	Enterprise Infrastructure	Lou Capece	\$312M	Green
INV-07	Cybersecurity & Privacy	Houman Rasouli	\$267M	Yellow
INV-08	End User Digital Services	Tanya Chiaravalle	\$98M	Green
INV-09	IT Strategy & PMO	Courtney Williams	\$67M	Green

IRS CPIC Management System - Complete Reference Guide

2.2 PRESELECT Phase Forms (15)

Form ID	Form Name	Code	Functional Area
CPIC-001	Strategic Planning Document	SPD-001	Strategy
CPIC-002	Needs Identification Report	NIR-001	Business Analysis
CPIC-003	Initial Screening Criteria	ISC-001	Governance
CPIC-004	Preliminary Business Case	PBC-001	Investment Planning
CPIC-005	Portfolio Prioritization Request	PPR-001	Strategy
CPIC-006	Mission Alignment Assessment	MAA-001	Strategy
CPIC-007	Resource Availability Check	RAC-001	Resource Management
CPIC-008	Technical Feasibility Study	TFS-001	Enterprise Architecture
CPIC-009	Budget Authority Request	BAR-001	Financial Analysis
CPIC-010	Stakeholder Identification	SID-001	Strategy
CPIC-011	Initial Risk Screening	IRS-001	Risk Management
CPIC-012	Capability Gap Assessment	CGA-001	Enterprise Architecture
CPIC-013	Investment Proposal Draft	IPD-001	Investment Planning
CPIC-014	CIO Endorsement Request	CER-001	Governance
CPIC-015	IRB Submission Package	ISP-001	Governance

2.3 SELECT Phase Forms (24)

Form ID	Form Name	Code	Functional Area
CPIC-016	OMB Exhibit 300 Business Case	BC-300-001	Investment Planning
CPIC-017	Investment Screening Criteria	ISC-001	Investment Planning
CPIC-018	Alternatives Analysis	AA-001	Investment Planning
CPIC-019	Cost-Benefit Analysis	CBA-001	Financial Analysis
CPIC-020	Risk Assessment Detailed	RAD-001	Risk Management
CPIC-021	Strategic Alignment Assessment	SAA-001	Strategy
CPIC-022	Architecture Review Request	ARR-001	Enterprise Architecture
CPIC-023	Security Requirements Document	SRD-001	Cybersecurity
CPIC-024	Investment Proposal Final	IPF-001	Investment Planning
CPIC-025	Stakeholder Analysis Complete	SAC-001	Strategy
CPIC-026	Capability Gap Analysis Final	CGAF-001	Enterprise Architecture
CPIC-027	Resource Requirements Plan	RRP-001	Resource Management
CPIC-028	Procurement Strategy	PS-001	Acquisition
CPIC-029	Performance Measures Plan	PMP-001	Performance
CPIC-030	IRB Review Package	IRP-001	Governance
CPIC-031	EA Compliance Certification	EAC-001	Enterprise Architecture
CPIC-032	Privacy Impact Assessment Initial	PIA-I-001	Privacy
CPIC-033	Section 508 Assessment	S508-001	Compliance
CPIC-034	Budget Formulation Package	BFP-001	Financial Analysis
CPIC-035	Governance Structure Plan	GSP-001	Governance
CPIC-036	Communication Plan	CP-001	Strategy
CPIC-037	Training Needs Assessment	TNA-001	Training
CPIC-038	Transition Planning Document	TPD-001	Project Management
CPIC-039	CIO Approval Package	CAP-001	Governance

IRS CPIC Management System - Complete Reference Guide

2.4 CONTROL Phase Forms (80) - Part 1

Form ID	Form Name	Code	Functional Area
CPIC-040	Monthly Status Report	MSR-001	Reporting
CPIC-041	Baseline Change Request	BCR-001	Change Management
CPIC-042	Earned Value Management Report	EVM-001	Financial Analysis
CPIC-043	Risk Register Update	RRU-001	Risk Management
CPIC-044	TechStat Review Preparation	TSP-001	Governance
CPIC-045	Contractor Performance Report	CPR-001	Acquisition
CPIC-046	Quality Assurance Report	QAR-001	Quality
CPIC-047	Security Assessment Report	SAR-001	Cybersecurity
CPIC-048	Project Schedule Update	PSU-001	Project Management
CPIC-049	Budget Execution Report	BER-001	Financial Analysis
CPIC-050	Release Management Plan	RMP-001	Development
CPIC-051	Infrastructure Change Request	ICR-001	Infrastructure
CPIC-052	Testing Progress Report	TPR-001	Quality
CPIC-053	Privacy Impact Assessment	PIA-001	Privacy
CPIC-054	Authority to Operate Request	ATO-001	Cybersecurity
CPIC-055	Data Quality Report	DQR-001	Data Management
CPIC-056	Training Status Report	TSR-001	Training
CPIC-057	Operational Readiness Review	ORR-001	Operations
CPIC-058	CIO Evaluation Comments	CEC-001	Governance
CPIC-059	Treasury DO Report	TDR-001	Reporting
CPIC-060	OMB ITDB Submission	ITDB-001	Reporting
CPIC-061	FITARA Compliance Report	FCR-001	Compliance
CPIC-062	Enterprise License Agreement	ELA-001	Acquisition
CPIC-063	Cloud Migration Status	CMS-001	Infrastructure
CPIC-064	DevSecOps Maturity Assessment	DMA-001	Development
CPIC-065	Incident Response Report	IRR-001	Cybersecurity
CPIC-066	Accessibility Compliance	AC-001	Compliance
CPIC-067	API Governance Report	AGR-001	Enterprise Architecture
CPIC-068	System Health Dashboard	SHD-001	Operations
CPIC-069	Technical Debt Assessment	TDA-001	Development
CPIC-070	Workforce Planning Report	WPR-001	Resource Management
CPIC-071	Disaster Recovery Test Report	DRT-001	Operations
CPIC-072	Capacity Planning Report	CAPR-001	Infrastructure
CPIC-073	Change Advisory Board Minutes	CAB-001	Change Management
CPIC-074	Sprint Review Summary	SRS-001	Development
CPIC-075	Vendor Performance Scorecard	VPS-001	Acquisition
CPIC-076	Integration Testing Report	ITR-001	Quality
CPIC-077	User Acceptance Testing	UAT-001	Quality
CPIC-078	Deployment Checklist	DCL-001	Operations
CPIC-079	Configuration Management Report	CMR-001	Operations

IRS CPIC Management System - Complete Reference Guide

CONTROL Phase Forms - Part 2

Form ID	Form Name	Code	Functional Area
CPIC-080	Performance Baseline Update	PBU-001	Performance
CPIC-081	Scope Change Impact Analysis	SCIA-001	Change Management
CPIC-082	Schedule Variance Report	SVR-001	Project Management
CPIC-083	Cost Variance Report	CVR-001	Financial Analysis
CPIC-084	Resource Utilization Report	RUR-001	Resource Management
CPIC-085	Milestone Achievement Report	MAR-001	Project Management
CPIC-086	Issue Resolution Log	IRL-001	Project Management
CPIC-087	Decision Log Update	DLU-001	Governance
CPIC-088	Action Item Tracker	AIT-001	Project Management
CPIC-089	Communication Status	CS-001	Strategy
CPIC-090	Stakeholder Engagement Report	SER-001	Strategy
CPIC-091	Benefits Tracking Report	BTR-001	Performance
CPIC-092	Quality Metrics Dashboard	QMD-001	Quality
CPIC-093	Security Posture Report	SPR-001	Cybersecurity
CPIC-094	Compliance Status Report	CSR-001	Compliance
CPIC-095	EA Alignment Review	EAR-001	Enterprise Architecture
CPIC-096	Data Architecture Update	DAU-001	Enterprise Architecture
CPIC-097	Technology Stack Report	TSTR-001	Development
CPIC-098	Infrastructure Capacity Report	ICPR-001	Infrastructure
CPIC-099	Network Performance Report	NPR-001	Infrastructure
CPIC-100	Database Performance Report	DPR-001	Infrastructure
CPIC-101	Application Performance Report	APR-001	Development
CPIC-102	User Experience Report	UXR-001	Development
CPIC-103	Agile Velocity Report	AVR-001	Development
CPIC-104	Sprint Burndown Chart	SBC-001	Development
CPIC-105	Product Backlog Status	PBS-001	Development
CPIC-106	Feature Completion Report	FCR2-001	Development
CPIC-107	Bug Resolution Report	BRR-001	Quality
CPIC-108	Code Review Summary	CRS-001	Development
CPIC-109	Technical Review Report	TRR-001	Enterprise Architecture
CPIC-110	Environment Status Report	ESR-001	Infrastructure
CPIC-111	Release Readiness Report	RRR-001	Development
CPIC-112	Go-Live Checklist	GLC-001	Operations
CPIC-113	Hypercare Status Report	HSR-001	Operations
CPIC-114	Knowledge Base Update	KBU-001	Training
CPIC-115	Support Ticket Analysis	STA-001	Operations
CPIC-116	SLA Performance Report	SLAPR-001	Operations
CPIC-117	Availability Report	AVL-001	Operations
CPIC-118	SPIKE Submission Package	SSP-001	Reporting
CPIC-119	Executive Dashboard Update	EDU-001	Reporting

2.5 EVALUATE Phase Forms (15)

Form ID	Form Name	Code	Functional Area
CPIC-120	Post-Implementation Review	PIR-001	Evaluation
CPIC-121	Operational Analysis	OA-001	Evaluation
CPIC-122	Benefits Realization Report	BRR2-001	Evaluation
CPIC-123	Customer Satisfaction Survey	CSS-001	Evaluation
CPIC-124	Performance Metrics Review	PMR-001	Performance
CPIC-125	Total Cost of Ownership	TCO-001	Financial Analysis
CPIC-126	Lessons Learned	LL-001	Evaluation
CPIC-127	Investment Continuation Assessment	ICA-001	Investment Planning
CPIC-128	Technology Refresh Assessment	TRA-001	Enterprise Architecture
CPIC-129	Portfolio Optimization Review	POR-001	Strategy
CPIC-130	Service Level Achievement	SLA-001	Operations
CPIC-131	Operational Efficiency Report	OER-001	Operations
CPIC-132	User Adoption Report	UAR-001	Evaluation
CPIC-133	Business Value Assessment	BVA-001	Evaluation
CPIC-134	Investment Closeout Report	ICR2-001	Investment Planning

3. Solution B - 15 Investments, 185 Forms

3.1 MAJOR Investments (5) - OMB Exhibit 300, CIO Ratings

ID	Name	Owner	Budget	CIO Rating
MAJ-01	Integrated Enterprise Portal	Miji Mathews	\$520M	4
MAJ-02	Customer Account Data Engine 2	Terry Jackson	\$680M	3
MAJ-03	Integrated Submission & Remittance	Raymond Barnes	\$420M	4
MAJ-04	Enterprise Case Management	Eric Corbin	\$380M	2
MAJ-05	Enterprise Cybersecurity Program	Patricia Farrell	\$450M	4

3.2 SIGNIFICANT Investments (5) - OMB Exhibit 53

ID	Name	Owner	Budget
SIG-01	Return Review Program	Kevin McQuighan	\$180M
SIG-02	Enterprise Learning Management	Sandra Wilson	\$95M
SIG-03	Document Management System	Marcus Taylor	\$120M
SIG-04	Practitioner Services Platform	Lisa Chen	\$85M
SIG-05	Data Analytics Platform	James Mitchell	\$110M

3.3 INFRASTRUCTURE Investments (5) - Technical Budget

ID	Name	Owner	Budget
INF-01	Enterprise Network Services	Robert Anderson	\$280M
INF-02	Enterprise Data Centers	Michael Brown	\$320M
INF-03	Enterprise Cloud Services	Jennifer Lee	\$240M
INF-04	Enterprise Security Operations	David Kim	\$180M
INF-05	IT Service Management	William Davis	\$150M

3.4 Forms by Category (185 Total)

MAJOR Category (65 Forms): 13 forms per investment including OMB Exhibit 300, Monthly Status, EVM Reports, Risk Assessment, BCR, Quality Gates, Security Compliance, Vendor Performance, PIR, CIO Rating Self-Assessment, TechStat Prep, GAO Audit Support, Budget Execution.

SIGNIFICANT Category (60 Forms): 12 forms per investment including Exhibit 53, Project Status, Cost Performance, Risk Register, Scope Change, Testing Status, Security Assessment, Contract Management, Resource Allocation, Benefits Tracking, Operational Metrics, Quarterly Review.

INFRASTRUCTURE Category (60 Forms): 12 forms per investment including Technical Budget, Operations Status, Capacity Planning, Maintenance Schedule, Service Level, Incident Summary, Change Implementation, Configuration Status, DR Status, Security Posture, Network Performance, Infrastructure Metrics.

4. Workflows (8)

WF-01: Investment Creation & Approval

Phase: PRESELECT-SELECT | Duration: 8-12 weeks

Description: Complete investment proposal through governance approval

Steps: Draft Business Case -> Investment Screening -> Alternatives Analysis -> IRB Review -> CIO Approval

WF-02: Baseline Change Request (BCR)

Phase: CONTROL | Duration: 2-4 weeks

Description: Process for requesting baseline scope, cost, or schedule changes

Steps: PM identifies change -> BCR Form in SPIKE -> IPM Review -> Treasury CPIC Review -> OMB Notification

WF-03: Monthly Reporting Cycle

Phase: CONTROL | Duration: 10-15 days

Description: Monthly investment status reporting to Treasury/OMB (Due: 19th)

Steps: Data Collection (1st-15th) -> PM Review (15th-17th) -> CIO Comments (17th-18th) -> SPIKE Submission (19th)

WF-04: Project Initiation

Phase: SELECT-CONTROL | Duration: 2-3 weeks

Description: Transition from approved investment to active project execution

Steps: Project Charter -> Kickoff Meeting -> Baseline Establishment -> Resource Assignment -> Schedule Creation

WF-05: Risk Escalation & TechStat

Phase: CONTROL | Duration: 1-2 weeks

Description: Risk escalation and TechStat reviews (Trigger: >=30% variance)

Steps: Risk Identification -> Impact Assessment -> CIO Notification -> TechStat Scheduling -> Corrective Actions

WF-06: Annual Budget Submission

Phase: PRESELECT | Duration: 6-8 weeks

Description: Annual IT budget development and submission process

Steps: Budget Formulation -> IT Portfolio Summary -> Business Case Update -> Treasury Review -> OMB Submission

WF-07: Investment Health Assessment

Phase: CONTROL-EVALUATE | Duration: 3-4 weeks

Description: Periodic investment health evaluation with CIO ratings (1-4 scale)

Steps: Performance Data Collection -> Metric Analysis -> CIO Rating Assignment -> Action Plan Development

WF-08: Treasury Monthly CIO Review

Phase: CONTROL | Duration: As needed

Description: Treasury-led monthly investment performance reviews

Steps: Issue Identification -> Evidence Gathering -> CIO Briefing -> Action Item Tracking

5. Dashboards

Solution A Dashboards (5)

Dashboard	Endpoint	Description
Executive Dashboard	/api/dashboard/executive	Portfolio overview for CIO/executives
Treasury Dashboard	/api/dashboard/treasury	SPIKE tool integration and reporting
Category Dashboard	/api/dashboard/category/<cat>	Investment by MISSION/FOUNDATIONAL
CD Dashboard	/api/dashboard/cd/<owner>	Coordinating Director portfolio
Stats Dashboard	/api/dashboard/stats	Statistical overview

Solution B Dashboards (8)

Dashboard	Endpoint	Description
Executive Dashboard	/api/dashboard/executive	Portfolio overview
Treasury Dashboard	/api/dashboard/treasury	SPIKE integration
Exhibit 300 Dashboard	/api/dashboard/exhibit-300	MAJOR investments
Exhibit 53 Dashboard	/api/dashboard/exhibit-53	SIGNIFICANT investments
Infrastructure Dashboard	/api/dashboard/infrastructure	INFRASTRUCTURE status
CIO Ratings Dashboard	/api/dashboard/cio-ratings	Rating distribution (1-4)
TechStat Dashboard	/api/dashboard/techstat	TechStat eligible investments
Category Dashboard	/api/dashboard/category/<cat>	By category

6. Role Permissions

Role	Level	View Access	Approve	Edit
CIO	0	All investments, executive	IRB, budget, TechStat	-
Coordinating Director	1	Own investment	BCR <\$5M, monthly	Own forms
Resource Director	2	Own investment	Resources, <\$500K	Resource forms
Responsible Engineer	3	Own projects	Tech reviews, QA	Tech forms
Product Manager	4	Own projects	-	Status, sprints
Admin	0	All	All	All

7. API Endpoints

Category	Endpoint	Method	Description
Auth	/api/auth/login	POST	User login
Auth	/api/auth/register	POST	Register user
Auth	/api/auth/me	GET	Current user
Investments	/api/investments	GET/POST	List/Create
Investments	/api/investments/<id>	GET/PUT	Get/Update
Forms	/api/cpic-forms	GET	List all forms
Forms	/api/cpic-forms/<id>	GET	Form details
Forms	/api/cpic-forms/summary	GET	Forms summary
Reports	/api/monthly-reports	GET/POST	Monthly reports
Projects	/api/projects	GET/POST	Projects
Risks	/api/risks	GET/POST	Risks
Workflows	/api/demo/workflows	GET	All workflows
Admin	/api/admin/users	GET	User list
Health	/health	GET	Health check

8. Functional Areas (22)

1. Investment Planning	2. Financial Analysis	3. Risk Management
4. Governance	5. Reporting	6. Cybersecurity
7. Enterprise Architecture	8. Project Management	9. Acquisition
10. Quality	11. Compliance	12. Operations
13. Development	14. Infrastructure	15. Training
16. Strategy	17. Resource Management	18. Change Management
19. Privacy	20. Data Management	21. Performance
22. Evaluation		

Treasury SPIKE Tool Integration

Monthly Reporting Deadlines:

- 1st-15th: Data collection from investment teams
- 15th-17th: Portfolio Manager review
- 17th-18th: CIO comments and approval
- 19th: SPIKE submission to OMB

CIO Rating Scale (Solution B MAJOR Investments):

- 4: On Track - Meets all performance expectations
- 3: Minor Issues - Some concerns, actively managed
- 2: Significant Issues - Requires management attention
- 1: Critical Issues - Immediate action required

TechStat Triggers:

- Cost variance $\geq 30\%$
- Schedule variance $\geq 30\%$
- Key metrics $\geq 30\%$ out of range