

# The Implementation Advance Planning Document (IAPD)

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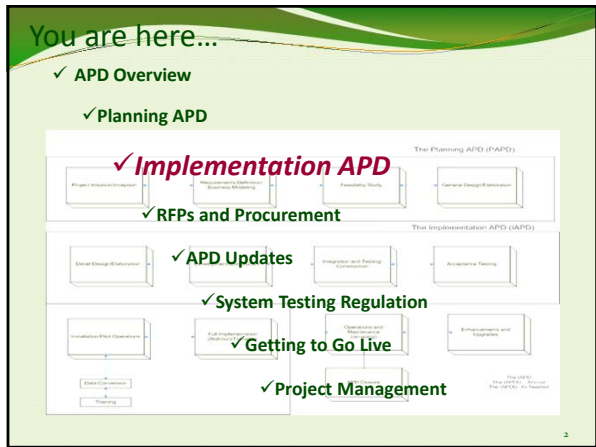
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- Acronyms used in this module:
- APD – Advance Planning Document
  - APDU – Advance Planning Document Update
  - CBA – Cost Benefit Analysis
  - FFP – Federal financial participation
  - FFY – Federal Fiscal Year
  - FNS – Food and Nutrition Service
  - IAPD – Implementation Advance Planning Document
  - IS – Information System
  - IT – Information Technology
  - M&O – Maintenance and Operations
  - NSA – Nutrition Services and Administration
  - SAE – State Administrative Expense
  - SNAP – Supplemental Nutrition Assistance Program
  - USDA – United States Department of Agriculture
  - WIC – Supplemental Nutrition Program for Women, Infants, and Children

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### Learning Objectives

After completing this module, learners will:

- Understand the purpose of the IAPD
- Understand the components that comprise the IAPD
- Understand the contents of each component
- Know the process and steps for an IAPD submission and review

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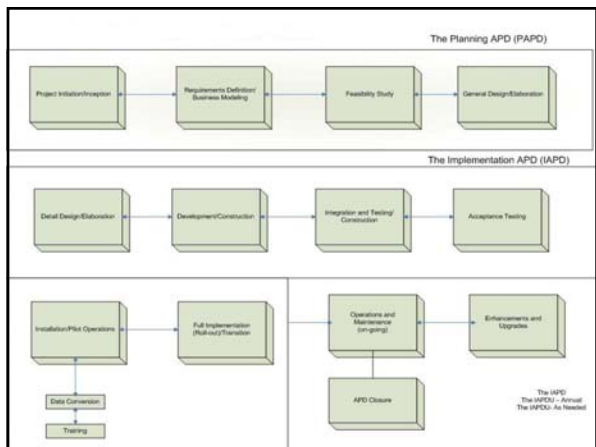
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### Purpose

- Prior approval and requests use of Federal funds to carry out the proposed project
- Includes the design, development, testing and implementation activities; including acquisitions



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### Tips for Submitting an IAPD

- Well written and meet all review criteria
- Incomplete or poorly written documents will result in delays or disapproval
- Don't underestimate FNS review time



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### An IAPD Tells Us

- Who you are
- What it is you want to automate and what benefit it is to FNS
- Why you want to automate it
- When you want to do this
- How you want to accomplish it
- How much it will cost
- Who pays for it

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### An IAPD Tells Us

- Culmination of the Planning process
- Provides results of the analysis and feasibility of various automation alternatives
- Describes proposed automation project
- Provides initial management plan for acquiring, developing, testing and implementing selected alternative

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### IAPD Submission Thresholds

Stakeholder	Program Funding Source	
	SNAP	WIC
State agency prepares and submits IAPD 60 days before project initiation.  FNS reviews within 60 days.	For all projects >\$6 million total project costs	For all projects requesting funding ≥\$500,000 total costs

HINT:  
It's in the 901!

Source: FNS Handbook 901, Figure 2-8 10

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### Remember

Costs that otherwise might be approvable, may be disallowed if you do not obtain prior approval of your IAPD from FNS

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### IAPD Documentation Requirements by Program

Documents	SNAP	SNAP EBT	WIC	WIC SAM	WIC EBT
1- Transmittal Letter with Official Signature	X	X	X	X	X
2- Executive Summary	X	X	X	X	X
3- Functional Requirements Documents	X	N/A	X	X	X
4- Feasibility Study/Alternatives Analysis	X	N/A	X	X	X (optional)
5- Cost-Benefit Analysis	X	N/A	X	X	X (optional)
6- General Systems Design	X	N/A	X	N/A (from transfer)	X
7- Capacity Planning or Study	X	N/A	X	X	X
8- Project Management Plan	X	X	X	X	X
9- Resource Requirements	X	X	X	X	X
10- Schedule of Activities, Milestones, and Deliverables	X	X	X	X	X
11- Proposed Budget	X	X	X	X	X
12- Cost Allocation Plan	X	X	X	X	X
13- Security Planning	X	X	X	X	X
14- Request for Waiver of Depreciation	X	X	X	X	X
15- Test Plan	X	X	X	X	X
16- Training Plan	X	X	X	X	X

HINT:  
It's in the 901!

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FNS Timeframes  
**60 DAYS**

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50 States  
x 2 programs (WIC & SNAP)  
+ WIC ITOs & US territories  
+ states with multiple systems  
x ~6 docs/project  
÷ FNS staff  
-----  
60 days

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Components of the IAPD



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**WHO**

### Transmittal Letter

- Letter signed by a State official with authority to commit State resources
- Demonstrates you have executive involvement and backing

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**WHY**

### Executive Summary

- Describes business need at a high-level
- Identifies the stakeholders
- Summarizes advantages, challenges and shortcomings the proposed system will address
- Identifies resources required
- States the technical, financial, and program impacts of the project



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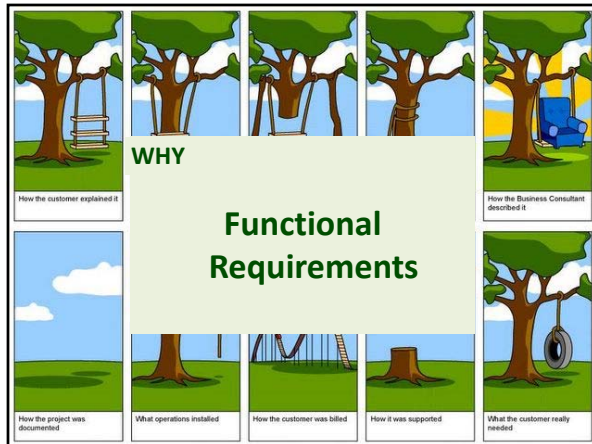
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**WHY**

### Functional Requirements



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**WHY**

## Functional Requirements Document

*Comprehensive description of functions to be included in the system*

- Federal SNAP requirements defined in ADP/CIS Model Plan (7 CFR 272.10)
- Federal WIC mandatory and optional requirements are available in WIC FReD

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**WHY**

## Requirements Definition

<i>Functional: "The What"</i>	<i>Technical: "The How"</i>
➤ Non-technical	➤ Detailed components
➤ Plain English	➤ Particular technology
➤ What it is and does	➤ Performance specifications
➤ Features and capabilities	➤ Project team oriented
➤ Customer oriented	

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**WHY**

## Good Requirements are:

- Complete
- Valid – based on legitimate business needs
- Clear – unambiguous and precisely written
- Consistent
- Feasible
- Testable
- Traceable – linked to a source

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**WHY**

### Overview of the Feasibility Study

- A preliminary study that determines whether the project being considered is technically, financially, and operationally viable
- Is directly linked to the Functional Requirements Document (FRD) in that the FRD is the baseline against which various approaches are assessed
- **Must include an alternatives analysis**

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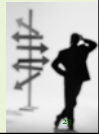
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**WHY**

### Alternatives Analysis

- Analysis of alternatives for hardware, software, and functionality
- Demonstrates if a system is feasible – technically, financially, operationally, and functionally
- Demonstrates which alternative is the “best fit”



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**WHY**

### Alternatives Analysis What’s the Point?

*Demonstrates which alternative is the “best fit”*

- *Technically*
- *Financially*
- *Operationally*
- *Functionally*



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WHY

## Alternatives Analysis What's the Point?

*Demonstrates which alternative is the "best fit"*

- Technically
- Financially
- Operationally
- Functionally



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WHY

## What are "Alternatives"?

*Alternatives MUST include:*

- Transferring a SAM (WIC only)
- Transferring a system from another State (SNAP)

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WHY

## What are "Alternatives"?

*Alternatives MAY include:*

- Upgrading or enhancing the existing system
- Transferring a system or components from another State
- Integrating with other systems (Medicaid, etc.)
- Developing a new system from the ground up
- Hosted solution (another State, cloud)

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**WHY**

### Alternatives Analysis



The number of alternatives is driven by the State agency; as long as the same analysis and methodology are applied to each alternative.

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**WHY**

### Alternatives Analysis



- How will changes to existing systems and processes be accomplished (interfaces, data exchanges)?
- Organizational effect upon personnel and skill requirements
- Data conversion activities required

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**WHY**

### Alternatives Analysis

- Operational impacts on existing procedures, user relationships, system support plans
- Resource effects during development and operations
- Cost to operate the new system once implemented



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WHY



*Alternatives Analysis is essential in determining the best direction for a State to take in developing a new system.*

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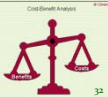
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WHY

### Cost-Benefit Analysis

- Determines which alternative will provide the greatest benefits relative to its costs
- Identifies the tangible and intangible benefits
- Provides the estimated cost of developing and operating each alternative



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WHY

### FNS Cost Benefit Analysis Requirements

- IAPD must show a meaningful cost comparison was completed.
- Requirement for demonstrating the number of years to break even is **eliminated**.
- Tracking and reporting on the CBA beyond the initial approval is **eliminated**.

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**WHAT**

### General System Design (GSD)

- A broad high-level description of how the system will look from the technical side
- Describes generic system architecture with possible components and processes



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**WHAT**

### General System Design (GSD)

- Combination of narrative and technical diagrams
- Identifies overall logic flow and systems functions desired
- Identifies performance requirements
- Identifies operating environment



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**WHAT**

### Capacity Planning

Determines overall size, performance and resilience of an information system



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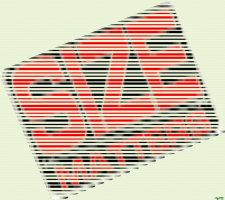
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**WHAT**

## Capacity Planning

Helps to establish a computer installation that meets current and projected systems needs



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**WHAT**

## Capacity Planning

Considerations:

- Expected storage capacity
- # of on-line processes and contention
- Performance and response time
- Level of resilience
- Impact of security
- Hours of operation



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**HOW**

## Project Management Plan

- Project oversight
- Governance
- Reporting requirements
- How you will achieve professional project management
- *The State's own roles, responsibilities and expectations*



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**HOW**

## Resource Requirements

- Describes resources the State expects to use
  - Staff
  - Funding
  - Facilities
- Requests funding from FNS
- Ties closely to Project Management Plan
- Describes all staff resources that will be used 10% or more throughout the project

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**WHEN**

## Schedule of Activities, Milestones and Deliverables

Schedule of key design, development, and implementation tasks, events, and deliverables for the life of the project



Be sure to include Federal review times!



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**HOW MUCH**

## Budget

- Capture **all** anticipated expenditures of project implementation phase described in detail.
- Reflect the **duration** of the development/implementation phase **broken out by FFY and quarter.**
- Provide **narrative text** as needed to support line items.

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**HOW MUCH**

## IAPD Budget - Areas of Concern



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**HOW MUCH**

## IAPD Budget - Areas of Concern

- Failure to include indirect costs
- Program staff costs not included or charged inappropriately



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**HOW MUCH**

## IAPD Budget - Areas of Concern

- Multi-year budget is not broken down by FFYs and quarters

Sample IAPD Budget															
Year One				Year Two				Year Three							
Months	Apr-Jun	Jul-Sept	Totals	Months	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Totals	Months	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Totals
Cost Centers	Cost Centers			Cost Centers			Cost Centers			Cost Centers					
CC-Contractor	\$100,000	\$150,000	\$250,000	CC-Contractor	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000	CC-Contractor	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000
CC-Contractor	\$100,000	\$150,000	\$250,000	CC-Contractor	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000	CC-Contractor	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000
Personnel	\$100,000	\$100,000	\$200,000	Personnel	\$200,000	\$200,000	\$200,000	\$200,000	\$800,000	Personnel	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
Equipment				Equipment	\$700,000	\$700,000	\$700,000	\$700,000	\$2,800,000	Equipment	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
Travel				Travel	\$10,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$40,000,000	Travel	\$500,000	\$500,000	\$500,000	\$500,000	\$2,000,000
Training				Training						Training					
Indirect Costs	\$100,000	\$150,000	\$250,000	Indirect Costs	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$4,800,000	Indirect Costs	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$4,800,000
Total	\$200,000	\$300,000	\$500,000	Total	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$6,000,000	Total	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$6,000,000
Program	Program			Program			Program			Program					
State Portion	\$8,000	\$12,000	\$20,000	State Portion	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	State Portion	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
Federal (70%)	\$0	\$0	\$0	Federal (70%)	\$1,420,000	\$1,420,000	\$1,420,000	\$1,420,000	\$5,680,000	Federal (70%)	\$1,430,000	\$1,430,000	\$1,430,000	\$1,430,000	\$5,720,000
FFY Budget	\$8,000	\$12,000	\$20,000	FFY Budget	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	FFY Budget	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2010	\$8,000	\$12,000	\$20,000	2010	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2010	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2011	\$8,000	\$12,000	\$20,000	2011	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2011	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2012	\$8,000	\$12,000	\$20,000	2012	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2012	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2013	\$8,000	\$12,000	\$20,000	2013	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2013	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2014	\$8,000	\$12,000	\$20,000	2014	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2014	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2015	\$8,000	\$12,000	\$20,000	2015	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2015	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2016	\$8,000	\$12,000	\$20,000	2016	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2016	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2017	\$8,000	\$12,000	\$20,000	2017	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2017	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2018	\$8,000	\$12,000	\$20,000	2018	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2018	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2019	\$8,000	\$12,000	\$20,000	2019	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2019	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000
2020	\$8,000	\$12,000	\$20,000	2020	\$80,000	\$80,000	\$80,000	\$80,000	\$320,000	2020	\$70,000	\$70,000	\$70,000	\$70,000	\$280,000

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**HOW MUCH**

### IAPD Budget - Areas of Concern

- Budget includes primary contractor costs but fails to include other contracted services



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**HOW MUCH**

### IAPD Budget - Areas of Concern

- State "body shop" contractor costs not included



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**HOW MUCH**

### Budget Examples



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**HOW MUCH**

ATTACHMENT THREE  
Development Budget

DEVELOPMENT COST COMPONENTS	FFY 02		FFY03	
	10/1/01-9/30/02	10/1/02-9/30/03		
<b>I. Personal Services</b>				
DFS State Staff	\$ 247,145	\$ 351,827		
DFS Field Staff	\$ 20,761	\$ 57,091		
Transition	\$ -	\$ -		
Training	\$ -	\$ 26,458		
<b>Total Personal Services</b>	\$ 267,906	\$ 435,376		
<b>II. Overhead (15%)</b>	\$ 40,186	\$ 65,276		
<b>III. Development (Contracts/Consulting)</b>				
State AI W/ Employee Contracts	\$ 205,879	\$ 358,421		
Implementation Contract	\$ 2,476,818	\$ 7,117,569		
I/VE Contract Amendment	\$ -	\$ -		
<b>Total Development (Contract/Consulting)</b>	\$ 2,682,695	\$ 7,476,000		
<b>IV. Hardware/Systems</b>				
Hardware	\$ 108,884	\$ 238,871		
Software	\$ 496,463	\$ 309,100		
Travel	\$ -	\$ -		
<b>Total Hardware/Systems</b>	\$ 605,347	\$ 547,971		
<b>Total Components Costs</b>	\$ 3,566,134	\$ 8,522,441		

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**HOW MUCH**

Task/Line Item	FY 04				FY Total	Project Total
	Q1	Q2	Q3	Q4		
<b>State costs</b>						
Project Travel	16,678	19,795	8,474		44,887	66,518
LA Staff Travel	12,297	18,863	7,168		38,328	65,277
Project staff time	52,416	44,928	29,952		127,296	489,460
State staff time	31,601	34,474	22,723		88,798	248,189
LA Staff Time	28,919	23,366	19,357		71,642	165,963
LA staff time - training	70,700	65,840	43,780		180,320	180,320
LA staff travel - training	65,500	91,700	51,800		209,000	209,000
Capitol Outlays					0	75,312
Equipment	0	0	0		0	832,368
Communications	4,200	3,800	1,800		9,800	16,291
Printing/Supplies/misc	8,150	8,010	4,480		20,640	119,890
Interest	19,864	11,000	6,688		37,552	256,818
<b>State subtotal</b>	311,215	322,376	196,162		829,753	2,748,153
<b>Contractor Costs</b>						
Developer -	216,328	288,000	165,000		669,328	2,716,739
Project Support	27,488	3,720	3,720		34,928	484,922
Banking	0	0	0		0	24,540
<b>Contractor subtotal</b>	243,816	291,720	168,720		704,256	3,226,201
<b>Total Costs</b>	555,031	614,106	364,882		1,534,009	5,974,354
<b>Funding</b>						
Amt Funded by WIC	31,601	34,474	22,723		88,798	248,189
Infrastructure Funds					34,024	628,123
Amt 1/2% Carry Over					160,000	453,260
<b>Amt Requested OA</b>					1,251,218	4,646,782
<b>Original Approved Total</b>					1,252,780	
% Change					99.88%	

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**WHO PAYS**

**Cost Allocation Plan - Do I Need One?**

If it's an integrated system:



- State agencies must develop and submit a methodology for allocating costs among benefiting programs.
- Direct charging of project costs should be done to the maximum extent possible.

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**WHO PAYS**

## Cost Allocation Methodology (CAM) Toolkit

- Helps States determine how to allocate software development costs to Federal and State benefiting programs over the system development lifecycle
- Expedites the Federal approval process for State Cost Allocation Plans

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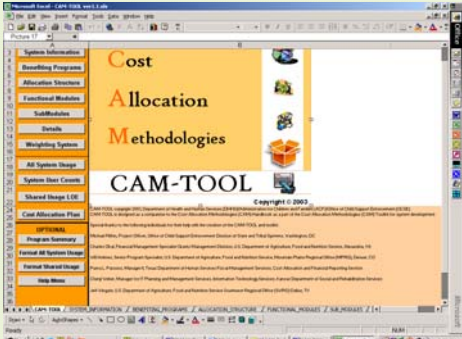
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**WHO PAYS**

## CAM Toolkit Contents



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**HOW**

## Security Plan

Provides the approach and requirements of the security plan  
 Describes the physical, electronic, and operational security of the system

- Hardware
- Software
- Data
- Communications
- Facilities

**HINT:**  
It's in the 9011



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**HOW MUCH**

## Waiver of Depreciation

FNS requires State agencies to depreciate the cost of equipment purchases over the expected life of the equipment

*UNLESS*

a formal waiver is requested



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**HOW**

## Test Plan

- Test Methodology – types of testing to be performed
- Test team organization and responsibilities
- Test database generation
- Test case development
- Test schedule
- Documentation of test results
- Contingency Plan

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**HOW**

## Training Plan

- Describes how all users will be trained
- Describes the methodologies to be used
- Defines materials to be developed
- Includes travel in the training budget
- Provides a timetable for training
- Addresses on-going training needs

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IAPD Documentation Requirements by Program					
Documents	SNAP	SNAP EBT	WIC	WIC SAM	WIC EBT
1- Transmittal Letter with Official Signature	X	X	X	X	X
2 - Executive Summary	X	X	X	X	X
3- Functional Requirements Documents	X	N/A	X	X	X
4 - Feasibility Study/Alternatives Analysis	X	N/A	X	X	X (optional)
5- Cost-Benefit Analysis	X	N/A	X	X	X (optional)
6- General Systems Design	X	N/A	X	N/A (Non standard)	X
7- Capacity Planning or Study	X	N/A	X	X	X
8- Project Management Plan	X	X	X	X	X
9- Resource Requirements	X	X	X	X	X
10- Schedule of Activities, Milestones, and Deliverables	X	X	X	X	X
11- Proposed Budget	X	X	X	X	X
12- Cost Allocation Plan	X	X	X	X	X
13- Security Planning	X	X	X	X	X
14- Request for Waiver of Depreciation	X	X	X	X	X
15-Test Plan	X	X	X	X	X
16-Training Plan	X	X	X	X	X

HINT:  
It's in  
the 9011!

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IAPD for  
Maintenance & Operations

When do I need one

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## IAPD for M&O

HINT:  
It's in  
the 901!

**Prior approval is required** when it includes significant hardware upgrades, platform changes, and/or software enhancements.

**No approval needed** for routine operations, including corrective, adaptive or perfective changes – without introducing additional functional capability.

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Maintenance and Operations Decision Table Examples		
	IAPD Required	IAPD Not Required
Hardware	Replacement of mainframe and associated peripheral devices	Routine hardware replacement of routers, hubs, storage devices that does not affect type of platform
	Architecture change from client/server or distributed system to web-based	Routine PC replacement (usually planned in advance on a cycle replacing a percentage of PCs on an annual basis)
	Increased storage and/or processor capacity to meet increased caseload requirements	Upgrade of peripheral devices such as printers or scanners
		Procurement for leased hardware and peripherals needs to be rebid

Source: FNS Handbook 901 62

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Maintenance and Operations Decision Table Examples		
	IAPD Required	IAPD Not Required
Software	Software enhancement adds new functionality to the existing certification/eligibility or issuance system	Routine software maintenance, including fixes, patches, and upgrades that do not introduce additional functional capabilities to the system
	Implementation of Enterprise Architecture	Routine software license renewals
		Routine support activities that normally include corrective, adaptive, and perfective changes, <u>without introducing additional functional capabilities</u>

Source: FNS Handbook 901 63

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Maintenance and Operations Decision Table Examples		
	IAPD Required	IAPD Not Required
Services	Consultant services are required to develop and implement software upgrades to an existing system that adds new functionality to the system	Contract for routine maintenance and operations services is due to expire, needs to be rebid; SOW does not include any enhancements or upgrades to software that will add functionality to the system

Source: FNS Handbook 901 64

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**The chart indicates I don't need an IAPD. . .**

# What do I do?

Submit:

- RFP to FNS for prior approval
- Signed transmittal letter
- Contract

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## FNS IAPD Review Criteria



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**FNS IAPD Review Criteria**

Adequately identifies objectives and needs of the system

*Did you make your business case?*



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**FNS IAPD Review Criteria**

Provides an acceptable plan for proceeding

*Are your goals and objectives feasible and reasonable?*

*Are your goals achievable?*



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**FNS IAPD Review Criteria**

Includes a detailed project plan of all activities

*Did you fully describe the scope of the design, development, and implementation activities?*

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### FNS IAPD Review Criteria

Includes an acceptable Alternatives and Cost-benefit Analyses

*Do the improvements or benefits justify the cost of the chosen alternative?*

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### FNS IAPD Review Criteria

Identify adequate funds, resources, and skills

*Are committed funds, skilled staff and other resources adequate to succeed?*

*Does the proposed system duplicate or conflict with other systems or efforts using the same resources?*

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### FNS IAPD Review Criteria

Comprehensive project management plan

*Does the State demonstrate the ability to manage the project professionally?*

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### FNS IAPD Review Criteria

Includes Line Item Budget by FFY and Quarters and the sources and amounts of Federal and non-Federal funding

*Is the budget in a clear format, broken down by phase, FFY, and quarters with narrative explanations of costs as needed?*

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### FNS IAPD Review Criteria

Approvable Cost Allocation Plan

*Are costs allocated to all benefiting programs, using a reasonable method?*

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### FNS IAPD Review Criteria

Submission of a comprehensive test plan

*Does the IAPD contain at least a preliminary test plan with a commitment to submit a fully developed plan for approval?*

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### IAPD Approval Conditions

- **General** – Related to availability of Federal funds and compliance to FNS regulations
- **Specific** – Funding may be approved for only a specific time period or incrementally based upon specific conditions

Documents, such as the test plan, must be submitted for approval when finalized

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### Retroactive Approval

State agencies are urged to communicate with FNS early and often.

Retroactive approvals are granted only in the most extreme circumstances.

Poor planning or communication is not considered a valid reason for retroactive approval of funding.




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### Review Learning Objectives

After completing this module, learners will:

- Understand the purpose of the IAPD
- Understand the components that comprise the IAPD
- Understand the contents of each component
- Know the process and steps for an IAPD submission and review

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### Your next goal...

- ✓ APD Overview
- ✓ Planning APD
- ✓ Implementation APD
- ✓ APD Updates
- ✓ System Testing Regulation
- ✓ Getting to Go Live
- ✓ Project Management

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An engraved invitation from FNS Handbook 901  
[www.fns.usda.gov/apd](http://www.fns.usda.gov/apd)

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