

McAID

Mother & Child AID System
an information management system



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McAID is an internet-based software database system designed to gather & manage operational program data from remote locations through GSM/CDMA-supported mobile handsets or modems.



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Origin (2005-2010)

McAID was first developed between 2005 and 2010 during the Jibon-O-Jibika program, funded by USAID.

It was a Windows PDA-based system. 150 PDAs were made functional to gather primary data in an offline format from hub offices having no internet connectivity.

It's mobile version was distributed and installed into PDAs having SQLCE database linked with it.



PDA



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New generation McAID

Original functionalities of McAID were reviewed to -

- ❑ make the new McAID more adaptable for data management requirements
- ❑ make use of GSM mobile services for more efficient data management: higher data security and faster outputting.
- ❑ make a shift to online centralized data MGT from offline distributed data MGT.

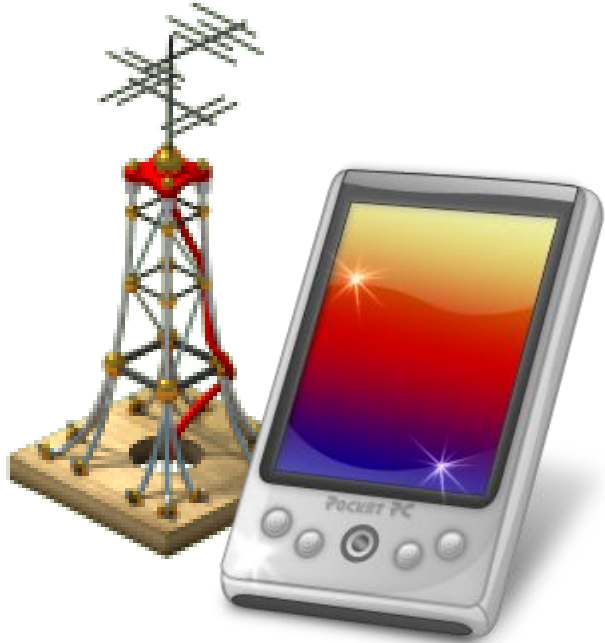


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New generation McAID



The new generation McAID is an online centralized data management system that has replaced PDAs with internet-enabled smartphones for primary data collection.

However, the functionalities of the offline module of McAID has not been removed considering the success with it.



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Objective



- Efficiently access beneficiary-level data.
- Reduce paper-based manual compilation.
- Cost effective data management.
- Accurate and consistent information flow for commodity management.



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Accessing McAID

Any internet-enabled device can be used to access McAID globally through the URL –

<http://119.148.6.44>

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Creating lasting change for children in need in the United States and around the world

Home Administration Coverage Registration Commodity Data Matrix Report

Home > Performance
Performance Summary

- » [MIS Data Management](#)
- » [Registration](#)
- » [Graduation Status](#)
- » [Card Printing Status](#)
- » [Service Delivery Status](#)
- » [Distribution Month](#)
- » [Food Distribution](#)
- » [Commodity Accounting](#)
- » [Progress Monitoring](#)
- » [Volunteer Registration](#)
- » [Data Matrix](#)
- » [Document Archive](#)

Registration

Report Type

- Beneficiary Registration Total
- Active Beneficiary Total
- Active Beneficiary By Program
- Registration For Program

Show

Beneficiary Registration Status as of Oct 2, 2012

Total 10 Record(s) found.

District	Upazilla	Union
Barguna	Amtali	10
Barguna	Barguna Sadar	8
Barguna	Patharghata	7
Barisal	Barisal Sadar	6
Barisal	Hizla	6
Barisal	Mehendiganj	13



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Current Uses: Data Gathering

Primary data inputs are mostly made by frontline staff through handheld internet-enabled SmartPhones. Staff having access to the office desktop or laptop can also feed data using office internet or modems. Current uses of McAID are -

- ✓ Beneficiary Registration
- ✓ Service provider/Volunteer List
- ✓ Service Records
- ✓ Food Distribution
- ✓ Commodity Accounting
- ✓ Progress Monitoring
- ✓ Monitoring Check List



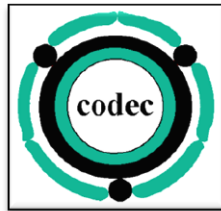
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Current Uses: Smartphone

425 SmartPhones are distributed to frontline staff in 4 partner NGOs. Necessary trainings are provided on how to operate for data gathering.



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Current Uses: Monthly Operation

Registration records of over 250,000 beneficiaries tracked under different program components.



Over 100,000 service and food recipient records tracked.

Food distribution planning and record keeping for over 800 metric tons dispatched for different program components.



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Current Uses: Monthly Operation



Data are managed to quantify performance for 270 food distribution sites and 1,835 service delivery sites.

Progress for outputs tracked centrally against monthly targets.



Commodity transactions and inventory tracked for 4 warehouses; including BL-specific stock positions, loss reporting, etc.



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Current Uses: Beneficiary Tracking

Beneficiaries are given a unique ID during registration. ID helps to track participation of a beneficiary across program interventions.

BenID	MCHN	Livelihood	FFW4500
0101010500000009	Y	Y	N
01010105000000053	Y	Y	N
01010105000000109	Y	N	N
01010105000000115	N	Y	N
01010105000000121	Y	Y	N

MCHN

Livelihood

Beneficiary tracking helps to measure impacts of the program intervention over the beneficiary base by looking at the historical records of the beneficiary thru the ID.






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Current Uses: Sharing of McAID

Agency	Program
 Save the Children	Nobo Jibon
 ACDI VOCA Expanding Opportunities Worldwide	PROSHAR
 iDE Cultivating Potential	Agriculture & Nutrition Extension Project (ANEP)
 WorldFish CENTER	Feed the Future

McAID demonstrated proven capacities to facilitate efficient **information management support** across SC's different programs.

McAID services are now offered at a small cost to other organizations. There are costs to cover bandwidth, server maintenance and associated staff time for consultancy and training support.



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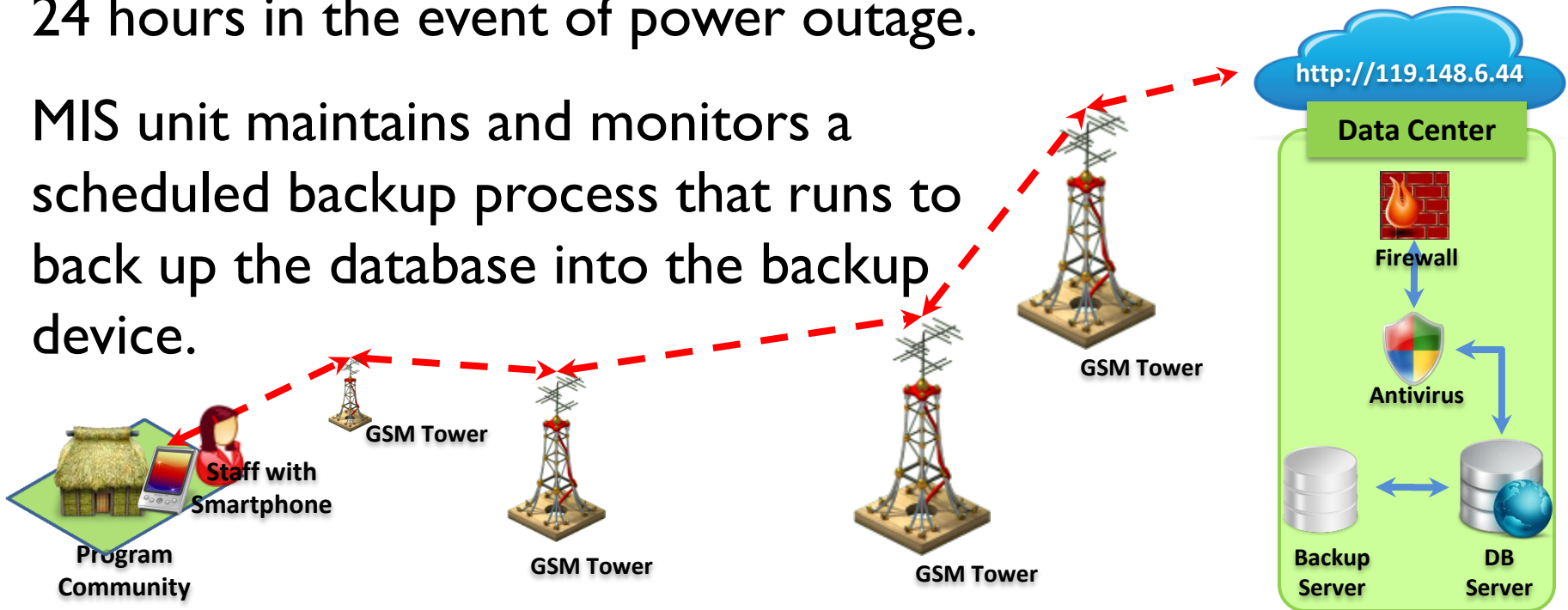


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Data Center

McAID is a centralized database management system. The Data center is secured with firewall and antivirus, and an independent power source to keep it live and operational for 24 hours in the event of power outage.

MIS unit maintains and monitors a scheduled backup process that runs to back up the database into the backup device.



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Features of McAID

❑ Large and Complex program info management



Over 500 Users

Over 250,000
beneficiaries
registered

Over 800 NMT
Food distributed
per month

Over 100,000
beneficiaries
tracked per
month

Data center
performs 24
hours/day



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Features of McAID

Fast Adaptable thru dynamic structure

McAID features user-friendly options that allow system administrators to modify rules and parameters, making the system fast and adaptable.

Output Matrix: Output

Define Output

Program	Nobo Jibon: Food Security Program
Objective	SO1 Improved health and nutritional status of children U5 and PLW
Intermediate Result	1.1: PLW and care-givers of children U5 practice improved MCHN and environmental
Activity	1.1.4 Provide supplementary rations to HH with PLW or U2s
Output	No. of Lactating women registered for CBGP sessions
Operation Level	Upazila
Get Target Value	
Get Achievement Value	
Hide Operation Month?	<input checked="" type="radio"/> Yes <input type="radio"/> No

Save

Set Recording Rules For Field

Value Required for Field?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Check For Date Difference?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Check For Value Difference?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Check For Min/Max Value?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Field Name	<input type="text"/>	Field Name	<input type="text"/>
Minimum Value	181.00	Field Label	Registration date	Field Label	NA
Maximum Value	719.00				

Set Utility Rules with Field

Add Days to Calculate Graduation Date Add Days to Obtain Date for Field Use for Projection Listing

Days Days Number of Ration Per Month

Field Name Use Field For Filter

Field Label

Save



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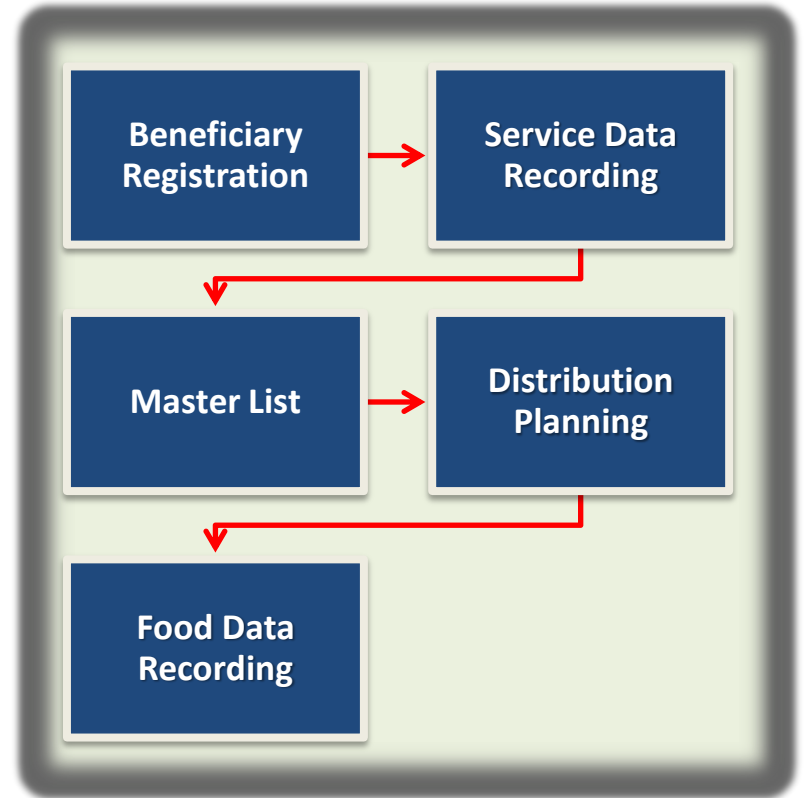
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Features of McAID

❑ Automation of information flow

A set of rules allows faster, accurate & automatic data flow across dependent operations.

There are options to allow system administrators to easily customize such rules.



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Features of McAID

Options that reduce cost/time

Digital signature feature has reduced staff movement and total time required for publication and distribution of crucial/auditable reports.

73	64	170	0	307	24,090	1,204,500	3,996	199,000		
56	52	154	0	262	19,890	994,500	3,330	166,500	5.035	
67	71	232	0	370	27,000	1,350,000	4,572	228,600	6.913	152...
95	93	359	0	547	38,715	1,935,750	6,615	330,750	10.002	220,500

Verified By
Aminur Rahman Talukder
Deputy Manager - Commodity & Logistics

Approved By
Subrata Sarker
Deputy Coordinator

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Benefits of McAID

- Faster aggregation of raw data.
- Increased data accuracy.
- Increased accountability.
- Reduced paper trailed documentation.
- Minimum staff-time for reporting.
- Beneficiary tracking across interventions.

Beneficiary Registration Status as of Mar 7, 2013

Total 10 Record(s) found.

District	Upazilla	Union	Village	OrgN	FFW4500	MCHN	ANEP	Livelihood	FFW3000
Barguna	Amtali	10	205	1	1309	22876		17963	3123
Barguna	Barguna Sadar	8	152	1	1363	14623		9874	3639
Barguna	Patharghata	7	82	1	1085	12563		7699	1435
Barisal	Barisal Sadar	6	75	1	266	11832	1371	6705	446
Barisal	Hizla	6	82	1	873	12357	958	6820	1276
Barisal	Mehendiganj	13	145	1	1091	24921	839	15483	1940
Patuakhali	Dashmina	6	54	1	433	13385		8261	1809
Patuakhali	Golachipa	14	192	1	1777	26849		17152	1863
Patuakhali	Kulapara	9	243	1	1023	16701		13423	3053
Patuakhali	Rangabali	5	89	1	1161	9108		5185	2188

Excel

Report Grid for [Monthly Progress]\Upazilla\Barisal Sadar [January, 2011 - January 2011]

Program: **Nobo Jibon: Food Security Program**

01 Objective: **S01 Improved health and nutritional status of children U5 and P**

01 Intermediate Result: **General issues**

02 Intermediate Result: **1.1: PLW and care-givers of children U5 practice imp and environmental**

01 Activity: **1.1.1 Develop and implement a BCC Strategy**

02 Activity: **1.1.2 Promote CCM of Childhood illness**

03 Activity: **1.1.3 Promote counseling on health and nutrition**

04 Activity: **1.1.4 Provide supplementary rations to HH with PLW or U2s**

Service (Food) For 0101010500000072

Criteria	Service Date	Status	Service Month
Pregnant Woman	08/05/2011	A	May-2011
Family Ration	30/04/2011	R	April-2011
Pregnant Woman	09/04/2011	R	April-2011
Family Ration	30/03/2011	C	March 2011



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Ongoing Challenges

Challenges	Recommendation
Broken network connectivity within 3% of the working area.	Communication with service provider seeking improved performance.
High price of preferred device opposed to lower performance of the lower-priced option.	Ongoing search for better devices at a low price in local market; price negotiation with suppliers.



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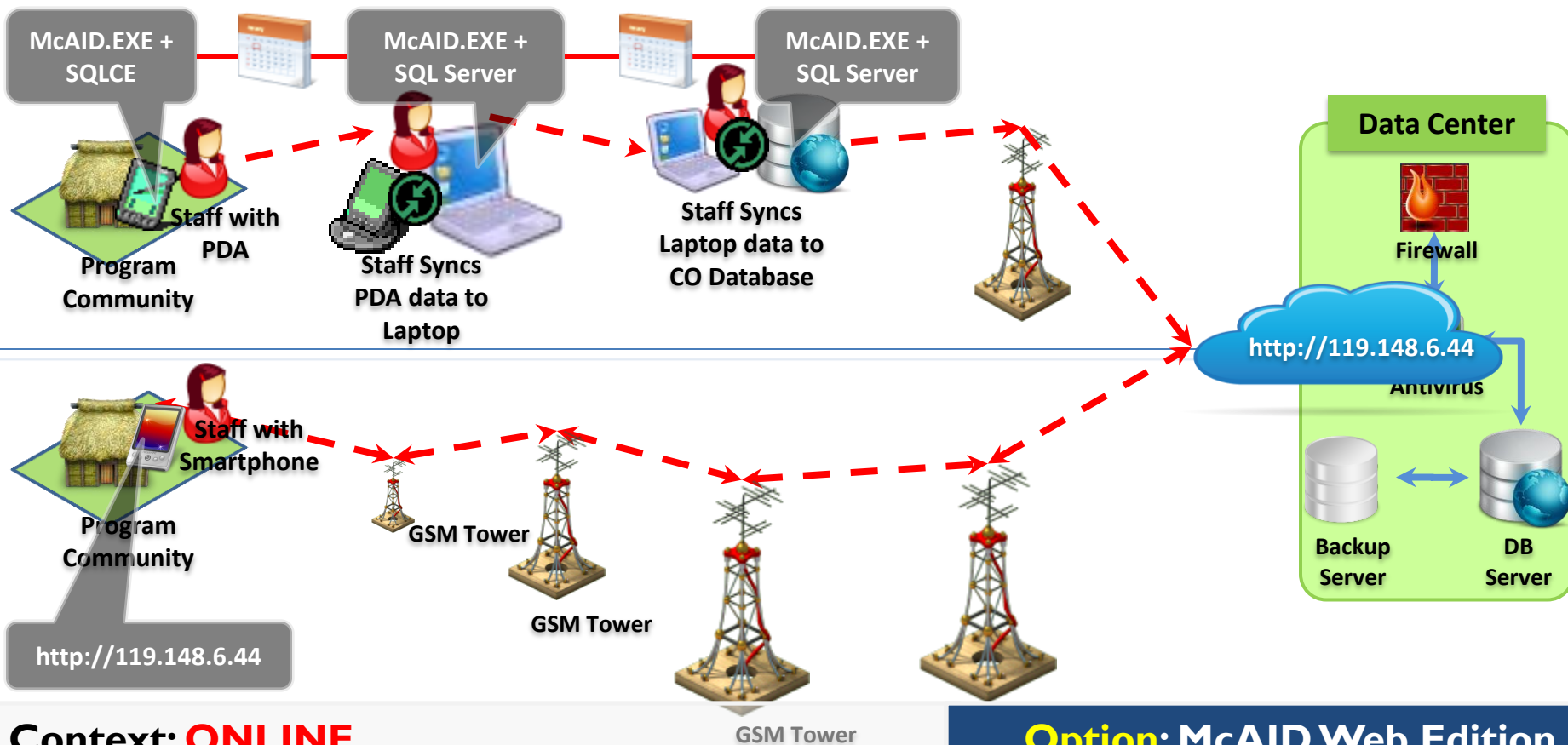


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Data Communication (Options)

Context: **OFFLINE/BROKEN CONNECTIVITY**

Option: **McAID Offline Module**



Context: **ONLINE**

Option: **McAID Web Edition**

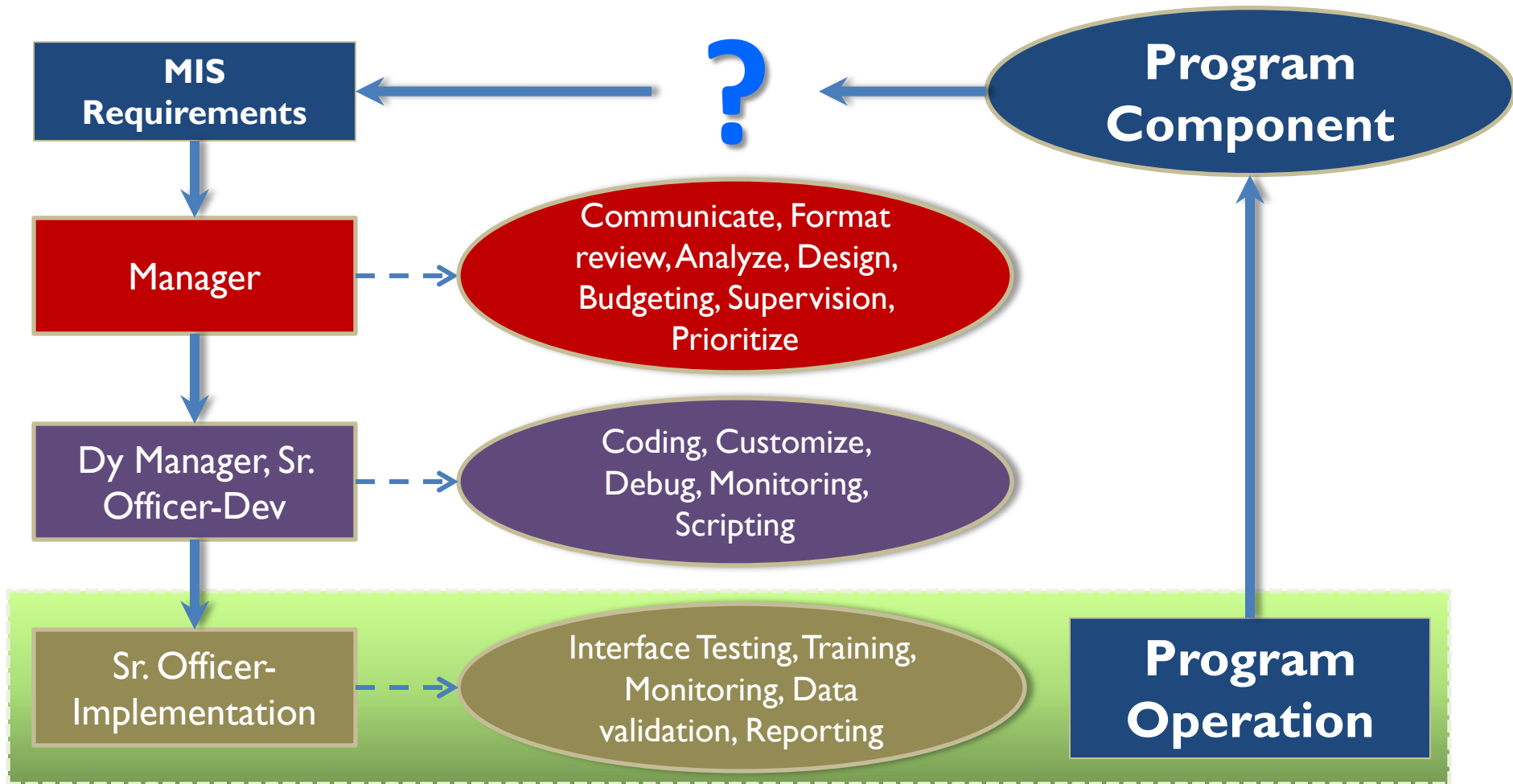


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Workflow example: NJ MIS Unit



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THANK YOU



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