जय हिन्द

Technology model for

Mobile Eldercare Unit (MEU)
Pilot Project in Shimla District, Himachal Pradesh

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
विज्ञान और प्रौद्योगिकी विभाग

GOVERNMENT OF INDIA
Ministry of Science and Technology
Department of Science and Technology
Technology Bhavan, New Mehrauli Road
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सत्यमेव जयते

HelpAge India | Fighting isolation, poverty, neglect

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Programme on Technology for Elderly

- Govt of India Programme
- Department of Science and Technology
- Funding of 100 million US $ promised by Govt
- Funding for incubating models available

Background work

- Survey by Ministry
- Assistive Devices available but of poor quality
- Medical Devices existant only in urban pockets
- Mobility Devices restricted to walking stick

OLD AGE SOLUTIONS

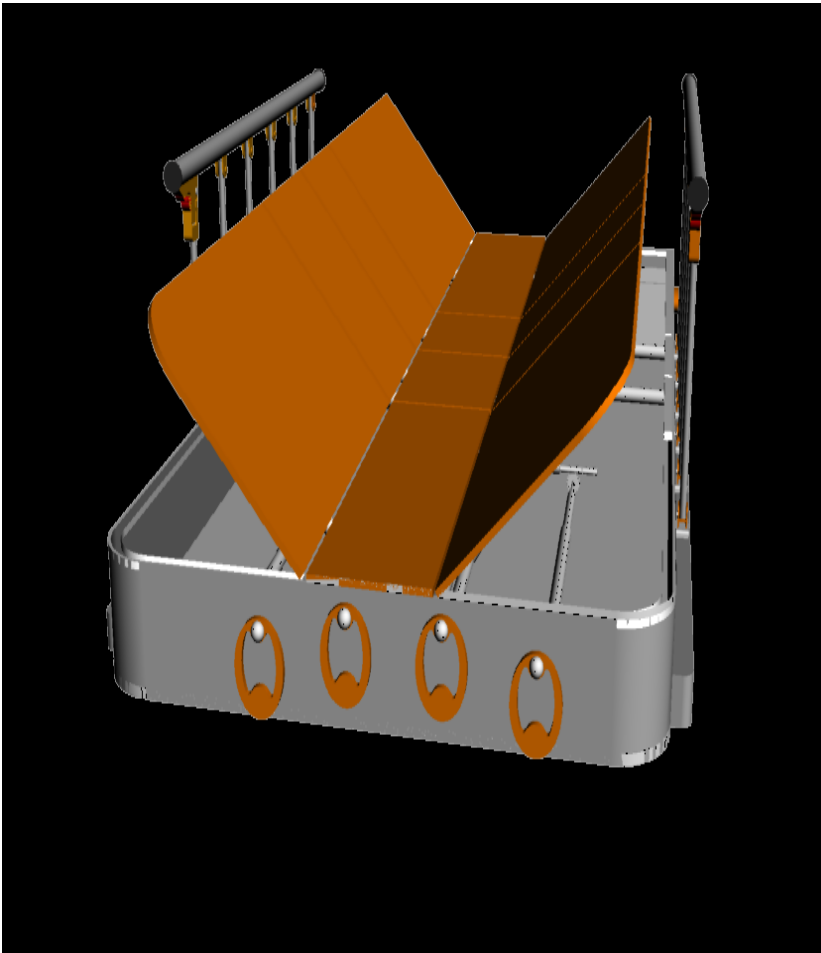**Portal on Technology Initiative for Disabled and Elderly**

An initiative of Ministry of Science & Technology (Govt. of India)
Brought to you by All India Institute of Medical Sciences

www.oldagesolutions.org
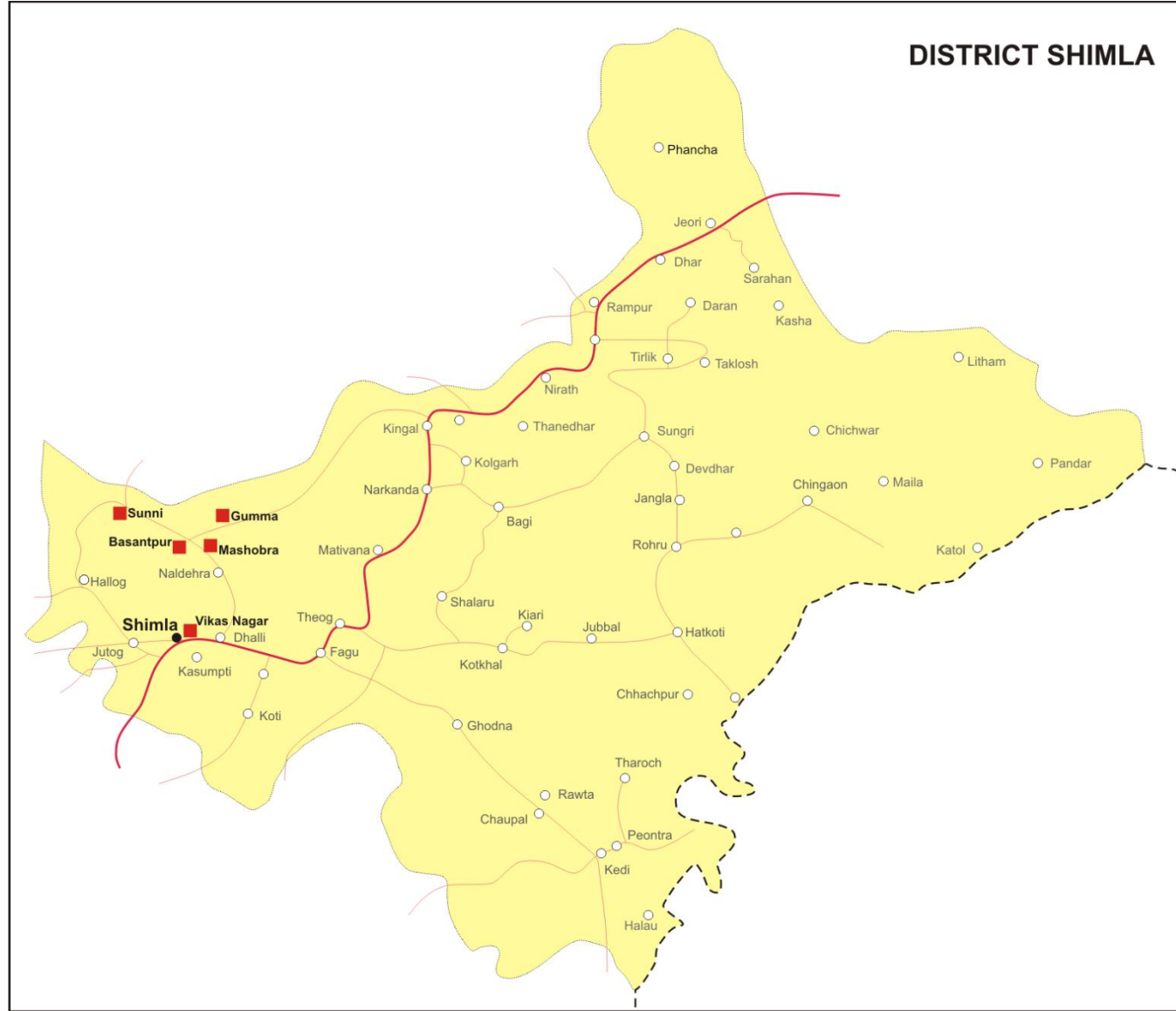
Multi facility Bed attachment

- MAINPROBLEMFORBEDRIDDENPERSONISBEDSORES.TOAVOIDTHATPROBLEMCHANGINGPOSITIONISTHEMOSTIMPORTANT.MULTIFACILITYBEDHELPSATTENDANTTOCHANGETHEPOSITIONOFPATIENTANDITISALSOPROVIDEALLFACILITIESOFSEMIFOWLERBED.

- DRAWERS ARE PROVIDED AT TWO SIDES OF BED TO STORE MEDICINES, BOOKS AND OTHER STUFF OF BED RIDDEN PERSON.

MEU Operational Area

www.meu.helpagemmu.org

Mobile Eldercare Unit

Objectives of the Project

- To provide preventive and curative health care through a combination of different systems of treatment.
- To provide material among target group to remain physically and mentally fit.
- Counseling services to the target groups.
- To provide information on elder-friendly policies, programmes and schemes of government and private organizations.
- Pilot and demonstrate low cost technology that can be replicated.

Base Line Survey

Sl no	Details	Area			
		Basantpur	Gumma	Mashobra	Suni
1	Villages covered	10	8	26	14
2	Total Households	600	144	900	309
3	Total no. elders	900	500	4000	2000
4	Total BPL/IRDP Families	117	95	145	105
5	Names of villages covered	Basantpur , Panehera, Naltu, Tarour, Ambri, kadug, Kalwi, Jhander, Mandayllu, Nadhukhar Majalu KamlaDungri	Kalayanpur, Chabaladi , Gumma, Ghad gumma, Jabbal, Balli, Katli, khalyantu	Bhagwana, jagwera, Brasdhar, Kanoth, Sipur, Junjun, Dhrog,Bog, Gharsi, Sharie, Narato, Shawal, Rachod,kelti jubbar, Darabala, Halikanda, Mattain,Shwella, Kawara, Himla, Kanola, Baghtal, Khalanto, Laholi, Nakalashi, Raduwa,Shayana, Phagala, Chamechi, kanola(ojhar), Ghomro	Dawarsu, Palayad, Gharayana, Shakrodi, Chaba, Kangri, Marakcha, Bagain, Gallu, Ulli, Bag Hewan, Reog, Pathukar

Functional Flow of MEU Operations
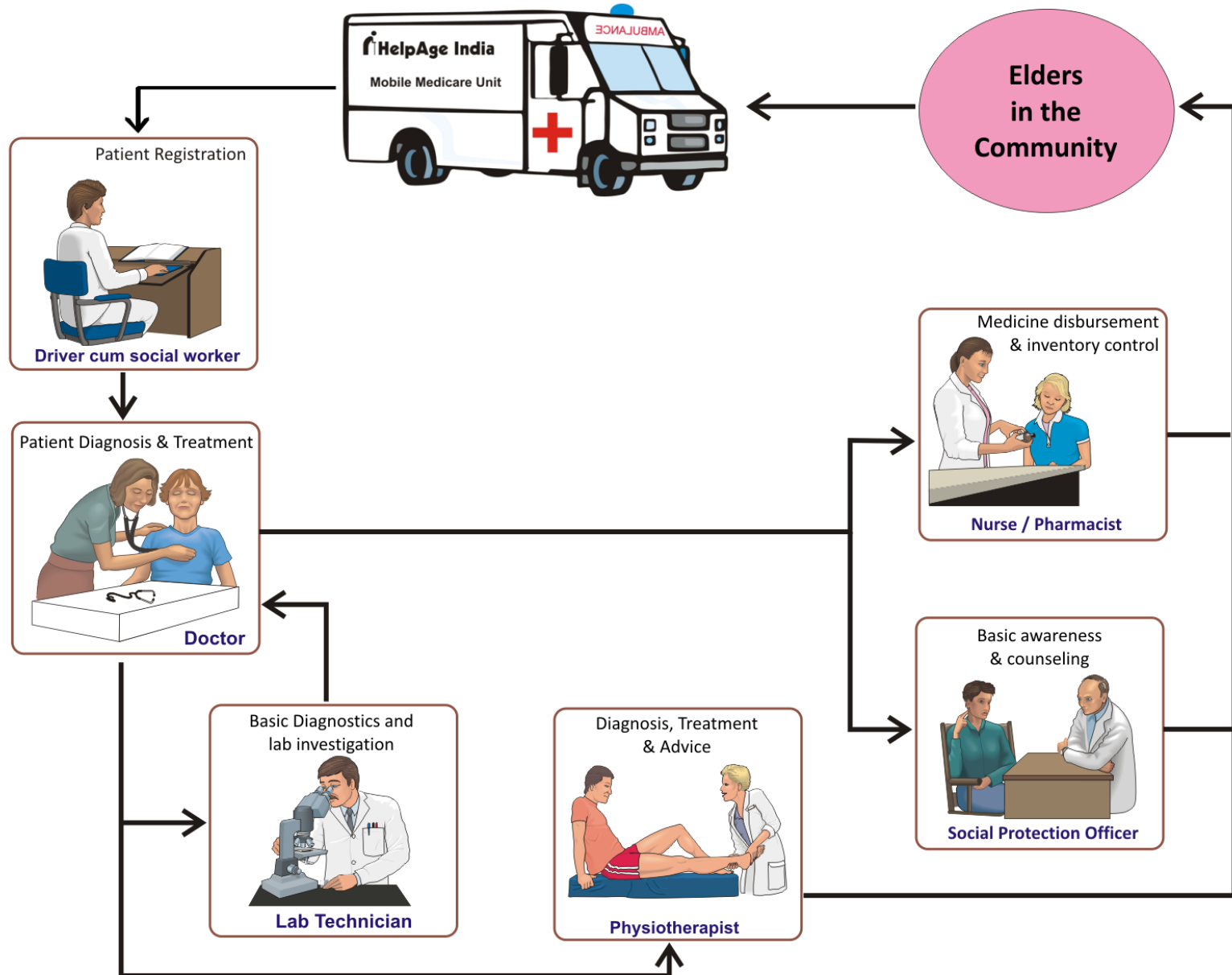
Constraints faced while piloting the concept:

- Availability of customized health software where baseline could be integrated.
- Availability of Treatment protocols in geriatric care.
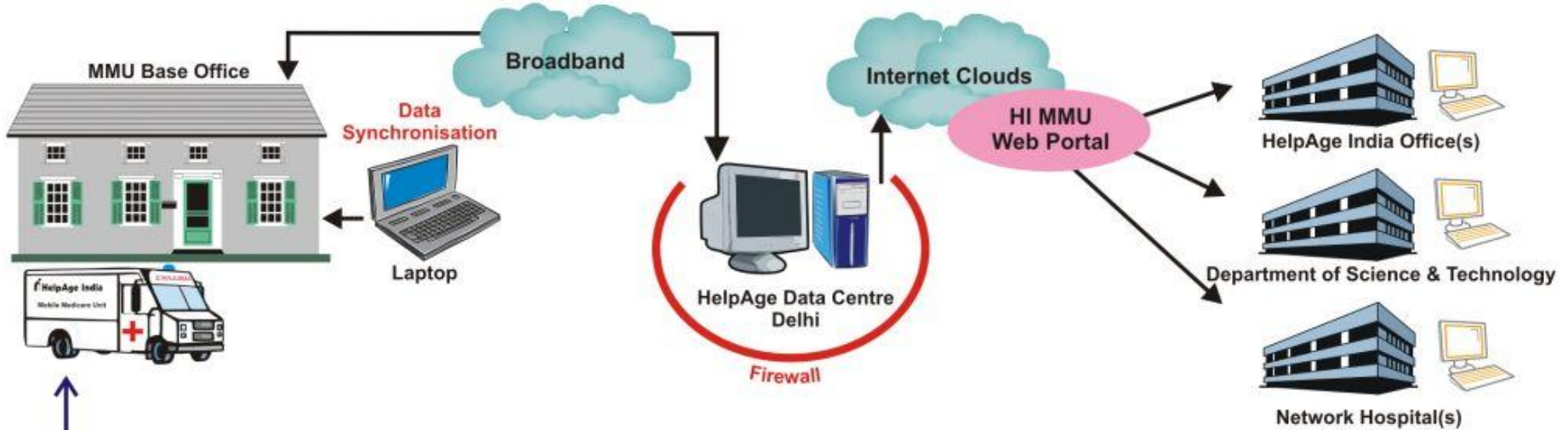- MIS system to digitize Beneficiary baseline information.

How did we overcome?

- Enhancing in-house capacity to design and develop beneficiary baseline .
- Developed protocols for doctors module and Physiotherapy treatment.
- Worked with software developers "FourX4" on a day-to-day basis.
- Developed and field tested each module one by one and integrated the same with the beneficiary baseline.
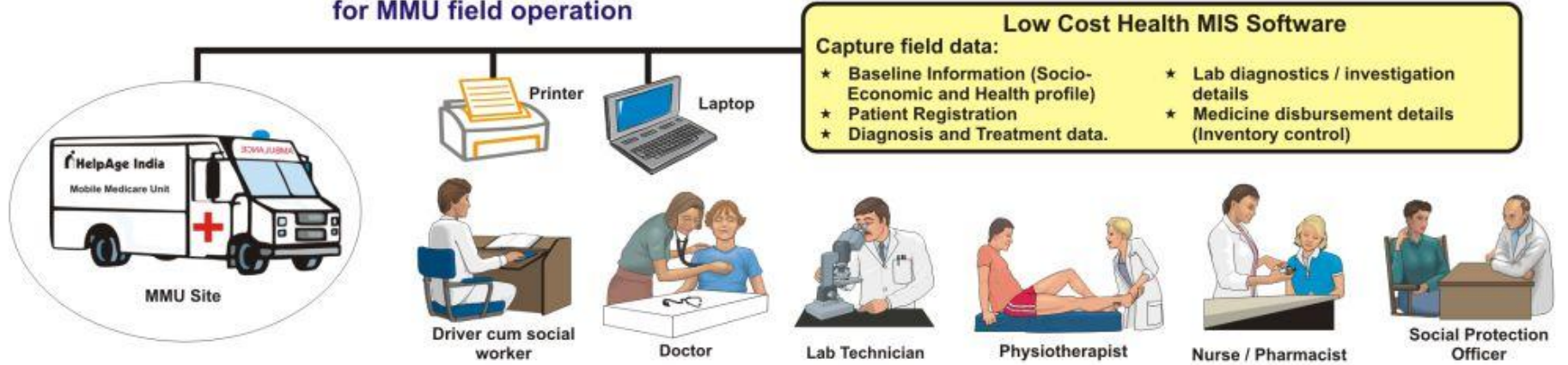- Developed multiple solutions viz. Windows based & web based.

Technology Model

MONITORING DELIVERY AND MEASURING IMPACT
Solution Architecture Layout for HelpAge India MMU Information Systems

MMU Base Office

Data Synchronisation

Broadband

Internet Clouds

HI MMU Web Portal

HelpAge India Office(s)

Laptop

HelpAge Data Centre Delhi

Firewall

Department of Science & Technology

Network Hospital(s)

Stage 2: Web-based solution to process and analyze data from the field (Health MIS software collates customized auto-reports for different stakeholders. viz. disease pattern, site specific data etc.)

Stage 1: Windows based offline solution for MMU field operation

Printer

Laptop

Low Cost Health MIS Software

Capture field data:
* Baseline Information (Socio-Economic and Health profile)
* Patient Registration
* Diagnosis and Treatment data.
* Lab diagnostics / investigation details
* Medicine disbursement details (Inventory control)

HelpAge India Mobile Medicare Unit

MMU Site

Driver cum social worker

Doctor

Lab Technician

Physiotherapist

Nurse / Pharmacist

Social Protection Officer

Windows based solution	**Web based solution**

Offline systems to capture
1. Beneficiary baseline
2. Generate Id cards for elder beneficiaries
3. treatment records of beneficiaries
   • Doctor diagnosis
   • lab diagnostic reports
   • Physiotherapy diagnosis and treatment information
   • Medicine disbursement details
	Online system available on internet. The portal can be accessed using secured user id and password.
	
	View Reports of
	   • Beneficiary baseline
	   • Doctor treatment Reports
	   • Physiotherapy treatment reports
	   • lab diagnostic reports
	   • Medicine Consumption Reports
	   • Disease pattern Reports etc.

Solution developed on Microsoft Access (Backend) and Dot Net (Front end)	
No need of additional software licenses to operate.	
This was be uploaded easily and synchronized with the web based solution	Solution developed on ASP. Net (Front end) and MY SQL (Backend)
Demo Available	**www.meu.helpagemmu.org**

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