What do you need to know?

To prepare a project « DIANE » you need information about:

- Database and hosting
- Interfaces and interoperability
- Workstations to equip
  - o Pre-anesthetic consultation: method of consultation, workstations, pre-anaesthetic visit, preliminary questionnaire
  - o Anaesthesia: induction rooms, operating room, recovery
  - o Intensive care: intensive care, intensive care, continuous monitoring beds
- Additional places: treatment stations, corridors, doctors' office, staff room, etc.
- Referents or Key-users
- Number of user for training purpose
- Medical devices to be connected
- Project Planning

To go further…

Ⓐ Additional Workstations

ASK referents to identify additional locations or workstations for DIANE installation (in anaesthesia &/or intensive care).

Worksations	Number
# of Pre- Operative Assessment Office	To assess patients
# of Intensivist / Anesthetists offices	To work in Diane from an office
# of Anesthesiology Dpt. Secretariat	To include the patient in the expected patient list, to print all documents
# of Operating Rooms	with Anesthesia Vent.
# of Endoscopy Rooms	without Anesthesia Vent.
# of Induction Rooms	with Anesthesia Vent.
# of Cesarean Rooms	with Anesthesia Vent.
# of Birth Rooms	Mother and fetal monitoring

# of Spare anesthesia station and/or Spare Panel PCs	
# of Interventional Rooms	Interventional Cardiology- Vascular - Neuroradiology. Anesthesia Vent. ?
# of Recovery Beds	Monitoring – Ventilation?
# of Sub-acute Beds (1)	Monitoring
# of Critical Care Beds (1)	Monitoring – ventilation? Electric Syringes?
# of Intensive Care Beds (1)	Monitoring – ventilation – Electric Syringes -others?
Nurse central station	# of Diane working station

ⓑ Database and Hosting

IDENTIFY the main server used to host Diane's unique database, controlled by the IT department.

The database can be :

- Microsoft SQL Server 7.0 or higher on a Windows server.
- Oracle on a Windows or Unix server from version 8.1.7 and higher

Data hosting within the hospital, or under the responsibility of the hospital; passwords belong to the hospital.

XML data available for export if PDMS changes (if they stop using Diane). Hospital maintains its own data and database schema is available; mapping by BOW MEDICAL on request (associated costs); accessible with a FIREDAC driver, included in the DIANE server license (hospital owned).
Native Oracle (SQL server) driver opensource.

ⓒ Interfaces with the HIS

DETERMINE the connecting points with the HIS and the existing electronic patient record:

-Prescription
-LIS,
-PACS,
-Administrative system (storing patient name, address, patient id,
-User database (MS Active directory or similar)...

# Interfaces	Purpose	Editor? Software ? Message format ? Way of exchange (in or out) ?
Patient identity (Basic Interop Package)	Patient identity server, for automatic retrieval of patient administrative data	

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Reports (Basic Interop Package)	Send report or letters in .doc or .pdf with index information Electronic Medical Record (EMR), by making available Assessment reports and standard letters in Word or PDF format generated within Diane, with contextual elements necessary for their indexing	
EMR call (Basic Interop Package)	Open the EMR at the patient's page, the user being already identified. To read patient's information stored in EMR	
User Identification (Premium Interop Package)	Interface with MS Active Directory or Single Sign-on or Lightweight Directory Access Protocol (LDAP)	
LIS Contextual call (Premium Interop Package)	Open the Lab. Information System (LIS) at the patient's file, user being already authenticated	
PACS Contextual call (Premium Interop Package)	Open the Picture Archiving and Communication System (PACS) at the patient's file, user being already authenticated	
Drug Knowledge Database (Expert Interop Package)	Link with a drug database i.e. Vidal, Vademecum, BCB - prescription support: Drug monography, Drug-Drug Interactions and redundancies, Drug Allergy... Do not include subscription to the drug database itself	
Formulary (Expert Interop Package)	Integrate the Hospital's drug list carried in inventory (includes prices) to prescribe only the drugs available in the hospital. No drug consumption management – Not used for inventory management	
LIS Import (Expert Interop Package)	Import LIS structured data to include in Diane patient's file (Biology, Microbiology...)	
ICU Discharge Prescription (Expert Interop Package)	Send (one way) the drugs and care prescribed into the Care Plan of Hospital EMR. This is not a prescription exchange tool. Complex, subject to	

	excellent cooperation between editors	
Appointments (optional))	Collect detail of the appointments list from an agenda	
Prescription integration from EMR to Diane (optional)	Collect prescription information from the EMR to be displayed in Diane. Complex, subject to excellent cooperation between editors	
Electronic Medical Record Exchange (optional)	2 ways exchange with EMR: patient history, allergies, complications… exchange of XML files. subject to good cooperation between editors	
OR Tool (optional)	2-ways exchange Diane/OR planning and procedure events: integrate timeline events and reports subject to good cooperation between editors	

D **Medical devices**

LIST the medical devices to be connected to DIANE by installation station.

Workstation	Medical Devices	Brand	(*) Connection type
Operating Rooms and Interventional	Anesthesia ventilators - - - Monitors - - - Central Stations? - - Connectable Electric Syringes Stations - - - ECLS system - Others: - Mobile devices?		

	- -		
Postoperative recovery rooms	Monitors - - Monitoring central station - Ventilators -		
Critical Care & Sub-acute care	Ventilators - Monitors - Monitoring central station - Connectable Electric Syringes Stations -		
Intensive Care and/or PICU and/or NICU	Ventilators - Monitors - Monitoring central station - Connectable Electric Syringes Stations - Pico, Pulsioflex - Dialysis devices - Cardiac output monitoring - Nutrition feeding pump -		
Obstetrics	Ventilators - Monitors - Monitoring central station - Fetal monitors -		
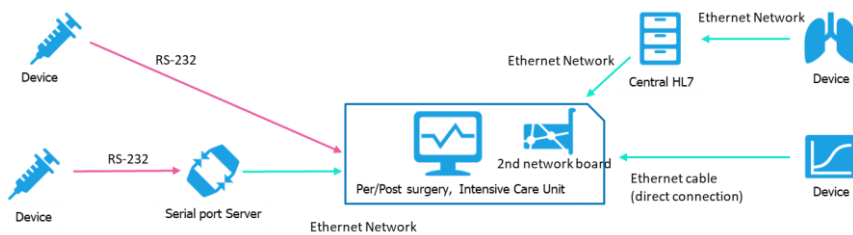
* Connection type:

- RS232
- RS232 + Serial Port Server
- Ethernet + Gateway
- Ethernet direct

(E) (F) Training

Who is in charge to perform the user training?	Contact details of the referents
Anesthetists and/or Intensivists and/or Obstetricians	
Resident or Medical students	
Anesthetist nurses	
Nurses	
Head nurses	
Pharmacists	
Midwives	

(G) Project planning

PLAN the implementation of the project management.

What – When — By Whom	Week	Week
Set the project team		
Fine tune project content and limits		
Site Audit per specialty (Anesthesia/ ICU/ Obst.): every room, every device, connectivity, network, ergonomic		
Audit Report		
Every device to connect has been checked and connection mode is decided		
Working station ergonomic is decided (where, connected to, fixation...)		
Final financial quotation		
First Key user meeting		
Order		
Workstation (panel PCs) ordering (8-10 weeks)		
Interoperability available and tested		

Server installation		
Key user training – software installation on their PC		
Software configuration check: What is missing to start?		
Software customization by key users (remote support)		
Working station installation		
Device connection working		
User trainings		
Start (asap after training)		
User support on site		
Hot-line available		
Project follow-up		
Adjustments		