

Item	Title	Complexity	Description	Compliance (Yes/No)
1	General Requirement	NA		
1.1	General information	NA	Please note this specification is outlined based on Department Dashboard's menu, thus it is function based (not a full entity listing). This means there will be supporting entities that are not listed (eg. master data lookups, child entities like Invoice Details under Invoice module). Vendor is expected to exercise judgement to assume what it takes to build similar functions.	
1.1.1		NA	Since is function listing (not entity listing), there would be situation where the same module appears in different dashboards. This we have updated as "refer to item xxx". Vendor to avoid double counting of effort. Under Complexity these are also tagged as "Repeated"	
1.1.2		NA	Our on-premise CRM 2015 is 95% customized (ie, "XRM"). We only used little out of the box entities like Contact and Appointment where the rest are all custom entities.	
1.1.3		NA	We added the Complexity column to guide vendors to our best knowledge. In general, the following legend applies: - Simple Customization, simple javascript - Medium Customization, complex logic/computation or may include plugin - High Customization, complex logic/process, interlink various modules. can also mean console or custom UI is required (based on CRM2015) - Finance related, vendor need to involve consultant with finance background to be able to do this well	
1.1.4		NA	The complexity is based on current CRM 2015 capability/limitation. Some functions that we needed to customized now might be an existing function in the new platform. Contractor to exercise judgement and to avoid equating CRM 2015's complexity to the new platform's.	
1.2	Data Security	NA	Dialysis Centres (DC) staffs can only view patient data of their own centre. As such, most patient related data are designed to centrally owned by each DC common account (CRM user). This is to leverage on the system default security role model to set access based on BU. This design is also important to ensure that when a staff transfers from DC A to DC B, the patient data remains in original BU and does not follow the staff to new location.	
1.2.1		NA	While the above is enforced, system is still required to facilitate access of data in the event the patient walk-in to another DC. Most of our walk-in scenarios are patient adhoc attend another shift from the same DC, but it is possible that patient can walk-	

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			in to another DC as well. Contractor to review/propose the best security design moving forth.	
1.2.2		NA	We implemented additional CRM field level security for selected confidential data.	
1.2.3		Improvement required	Our current security design still has room for improvement. Example: for patients not in the same DC, can system have function to allow user to request for temporary access that is reviewed/approved by supervisor.	
1.2.4		Improvement required	On top of the above security, we have a wishlist to enhance another layer whereby, in the event a patient is also a NKF staff, to only allow explicit access by authorize users only. (eg. Via additional tagging of such patient and such authorized user). This restriction to extend to include sensitive info of patient's family members as well.	
1.3	Disclaimer	NA	While NKF tried our best to include as much detail as possible, so that Contractor can have a good gauge of the system scope and complexity, there may some gaps due to ongoing changes that we cannot foresee/prevent (eg. ongoing Change due to MOH directive, ongoing change to improve system performance). For such situation, NKF will work with Contractor to decide if the item is still generally in scope or if needs to be a CR. For new reports added after this writing, NKF will work with Contractor to offset against any in-scope that we don't need for replacement.	
2	<b>Admissions</b>	Dashboard, Basic Configuration	Dashboard for Admissions department.	
2.1	Contacts	High customization, Multi-checkbox addon	Provide users with a complete 360 degree view of all the data on NKF contacts' profile, as such the current design involves toggling of the Contact as different profile (or stage) via the tagging of field Contact Type.	
2.1.1		Business logic	Contact Types: <ul style="list-style-type: none"> <li>- The system Contact entity function as Contact for generic profile or non-patient eg. Family member;</li> <li>- as Applicant when contact applying to NKF programmes;</li> <li>- as Patient if contact becomes our HD patient, including short term in-patient through collaboration with Community Hospitals;</li> <li>- as Beneficiary if contact benefit from our other non-treatment programmes (eg.</li> </ul>	

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			different kinds of funding under PD, PF, EPF, KLD, etc)	
2.1.2		Improvement required	The current design has limitation that a Contact can only be one type at a time. For the scenario where a patient is Beneficiary but applied to become a Patient/ Patient-Private is not well handled by existing design. This has to be enhanced during the upgrade project.	
2.1.3	<b>Contacts as Contact</b>	Business logic	<b>As a contact, system captures the following sections:</b> <ul style="list-style-type: none"> <li>- Summary, contains demographic details</li> <li>- Details, contains contact information, address, spoken language (Multi-Checkbox), relationship to Patient (if any)</li> <li>- Appointments, capture interview appointments</li> <li>- Applications, application for NKF main programmes</li> <li>- CH Applications, application for NKF community hospital programmes</li> <li>- Contact Follow up recording, tracking of communication log</li> <li>- Know Right Start Right, tracking of communication and activity with pre-ESRD person. These are not NKF patient yet, but need early information as their kidney are failing.</li> <li>- National PD Referral, referral for National PD programme</li> </ul>	
2.1.3.1	Appointments	listing	We using system Appointment with customization to support different scenario for different department. See 2.2 for more info.	
2.1.3.2	Application	Repeated	Refer to Item 2.3.	
2.1.3.3	CH Applications	Repeated	Refer to Item 2.4.	
2.1.3.4	Contact Follow Up Recording	Repeated	Refer to Item 2.18	
2.1.3.5	Know Right Start Right	Repeated	Refer to Item 2.20	

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2.1.4	<b>Contacts as Applicant</b>	Business logic	<b>As an applicant, system captures all of the above under Contact, plus the following in addition items to support application process,</b> <ul style="list-style-type: none"> <li>- Summary, has additional subsidy information</li> <li>- Patient Financial Reviews, contains 2 main submodules Financial Fee and Welfare. These modules are important for billing generation.</li> <li>- Patient Management Module, contains patient accounting information, namely Invoice, Payment, Claim, GL details.</li> <li>- Scanned Document, currently we integrate with windows shared drive. The system upgrade needs to include upgrade for scanned documents too.</li> </ul>	
2.1.4.1	Patient Financial Reviews	Repeated	Refer to Item 2.7.	
2.1.4.2	Patient Management Module	listings	Patient Management Module (PMM) is a patient accounting module that covers invoicing, payment collection, and interface with external agencies like CPFB Mediclaims, Insurance claims etc. For the context within patient profile, this PMM section will list patient's Billing setup, account balance, monthly installment plan, Posted transactions, Payments, Ledger Entry, Medisave, Giro setup, Sales Invoice. For full PMM scope, refer to items 12.17 to 12.71.	
2.1.4.3	Scanned Document	Repeated	Refer to Item 26	
2.1.5	<b>Contacts as Patient</b>	Business logic	<b>As a patient, system captures all of the above under Contact/Applicant, plus the following in addition,</b> <ul style="list-style-type: none"> <li>- Information such as Placement detail, Medical info, Demographic info, Billing info, BCP contact info, plus the following sub modules:</li> <li>- MDRO, HD Modality Subset, Acuity Status,</li> <li>- Family Members, Relation to Patient/Donor,</li> <li>- Allergy, Vaccination History, Medical Condition/Assessments</li> <li>- Amputation, Event List</li> <li>- Prescription, HVD Prescription, Treatment Plan, Clinical Data</li> <li>- Lab test results, Transplant waiting list, Vascular Access</li> <li>- Dialysis Session, Drug Administration, Drug Consumption, Holiday Surveillance</li> <li>- Clinical Diary, Hospitalization Events</li> <li>- Nursing Routine Assessments (Nursing Assessment, Nutritional Screening, Fall Risk Assessment, Transport Triage Assessment, Diabetic Foot Screening, Podiatrist Assessment)</li> <li>- Medical Social Work (Case Management,</li> </ul>	

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			<p>MSW Routine Assessment)</p> <ul style="list-style-type: none"> <li>- Medical Nutritional Assessments, Oral Nutritional Supplement</li> <li>- Referral Letter, Slot Request/Reservation/Assignment</li> <li>- ICT Profile, KDQOL Score, Therapy Assessment,</li> <li>- Patient Discharge (aka Termination)</li> </ul>	
2.1.5.1	MDRO	Medium customization	Tracking of patient MDRO (Multi Drug Resistant Organism). This info is connect to Hospitalization Event so that Nursing can transcribe the information during patient's discharge from hospital. This information is flow into patient's Medical Condition. Nursing can make further MDRO changes within Medical Condition as the status changes. Finally, MDRO information is displayed under Patient Profile as summary.	
2.1.5.2	HD Modality Subset	Simple customization	Tracking of patient's HD modality subset with Start/End date. Currently tracking: <ul style="list-style-type: none"> <li>- HDF, patient on new HDF machines</li> <li>- Incremental HD, patient that starts treatment progressively. Eg. Typical is 3 sessions per week, but some patient can start 1 or 2 times per week first.</li> <li>- HDHD (High Dependency), patient that have more medical complication and need more attention from Nurse. This has impact to billing as the dialysis charge is higher.</li> </ul>	
2.1.5.3	Family Members	Medium customization	Family Members are first entered under Applications (can be HD, PD or any other programmes). Upon Application approval, system will copy the Family Members into Patient profile. Subsequently, during patients' Financial Fee Review, the Family Members centrally stored under Patient profile will be copied to each Financial Fee Review for review and approval.	

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2.1.5.4	Relation to Patient/Donor	Simple customization	The opposite perspective of Family Members, meaning if open the same contact record as a Family Member, this list will show this person is related to which patient.	
2.1.5.5	Acuity Status	NA	Tracking of patient Acuity Status (High or Non High). Currently this tracking is obsolete but still maintained due to impact to RPOC interface. Through this upgrade project this will be obsolete/remove from the interface.	
2.1.5.6	Allergy	Simple customization, interface	Tracking of patient allergy. This data needs to be integrated to NEHR under NEHR integration module.	
2.1.5.7	Vaccination History	Simple customization, interface	Tracking of patient Vaccination History. This data needs to be integrated to NEHR under NEHR integration module.	
2.1.5.8	Medical Condition/Assessments	Medium customization, cloning logic	Medical Assessment and Medical Condition is the same entity. The difference is Medical Assessment is done before patient joins NKF, it contains more information. Medical Condition is a reduce scale of the assessment form, that is entered by nursing staff on adhoc basis after a patient joined NKF. At this stage, when patient undergo a medical condition change (eg. newly diagnosed with Hep B), nursing will create a new Medical Condition where system will make a full data copy from the latest version, so that nursing only need to edit what was changed.	
2.1.5.9	Amputation	Simple customization	Tracking of patient amputation.	
2.1.5.10	Event List	Simple customization	Tracking of patient events. Events are like incidents occurred during treatment.	
2.1.5.11	Prescription / HD Prescription	Simple customization	This is just a listing of patient prescription under patient profile. For actual process of Prescription refer to item 27 EMR, under Prescription module. HVD Prescription is also a listing here, but there is an approval process for "High Value Drug".	
2.1.5.12	Treatment Plan	interface, Simple customization	Listing of Treatment Plan what we received from RPOC interface. For interface see item 25.1.	
2.1.5.13	Clinical Data	Medium customization	This data is auto created by system upon receiving of Lab data. Upon receiving of Lab data, system will pull data from RPOC data to populate this record, where the data is used in various reports.	
2.1.5.14	Lab Test Results	Lab integration, Simple customization	Listing of lab test results received from lab integration. See item 25.3 for lab integration.	
2.1.5.15	Transplant waiting list	Simple customization	Listing of waiting list detail for this patient. For main module see item 14.18.	

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2.1.5.1 6	Vascular Access	High customization	Listing and data entry of patient's vascular access. This entity allows nursing to upload photo taken of the vascular access as attachment. System have an embeded custom UI to show the photo in iframe. This module also have sub modules to track Intervention, Infection, Access Monitoring.	
2.1.5.1 7	Dialysis Session	Simple customization	Listing of patient attendance. This data is generated from custom UI Patient Attendance Screen. Nursing can update some additional data from this screen. See item 18.6 for custom UI Attendance. This entity data is also used to compute bill under PMM. See item 12.27/28 for details on Invoice generation.	
2.1.5.1 8	Drug Administration	Simple customization	Listing of Drug administered to patients. This data is generated from custom UI Patient Attendance Screen. See item 18.6 for custom UI Attendance.	
2.1.5.1 9	Drug Consumption	Simple customization, Oracle interface, Billing	Drug Consumption is a subset of Drug Administration, it captures drug consume from NKF's inventory. This is auto created when Drug Administration is generated from custom UI Patient Attendance Screen. See item 18.6 for custom UI Attendance. This entity data is sent to Oracle for inventory update. See item 25.4 for Oracle interface. This entity data is also used to compute bill under PMM. See item 12.27/28 for details on Invoice generation.	
2.1.5.2 0	Clinical Diary	Simple customization	Listing of Clinical Diary. Data is via RPOC interface. See item 25.1 on RPOC interface.	
2.1.5.2 1	Hospitalization Events	Medium customization	Listing / Data entry of patient's hospitalization event. When patient is escalated to hospital, nursing will create this data with Admission date. When this event is open, system will help to automate patient's NKF attendance to "No". See item 18.6 on Attendance custom UI.  When patient is discharged, nursing will update this record with Discharge Date plus transcribe information from patient's hospital discharged summary.  There is a small integration where the Discharge Summary in scanned document will be link to this record based on Discharge Date mapping.	
2.1.5.2 2	Holiday Surveillance	Simple customization	For simple start/end date tracking of patient who returned from overseas trip (holiday) as they need more attention.	
2.1.5.2 3	Nursing Assessment	Medium customization	Nursing Assessment is same entity as Pre-Placement Nursing Assessment. The former is entered routinely after patient	



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			joined NKF, the latter is entered once before patient joins NKF.	
2.1.5.2 4	Nutritional Screening	Medium customization, mutiselect-checkbox	This is a survey like data entry page that helps to compute a score to grade patient's nutrition level.	
2.1.5.2 5	Fall Risk Assessment	Medium customization, mutiselect-checkbox	This is a survey like data entry page that helps to compute a score to grade patient's fall risk level	
2.1.5.2 6	Fall Risk Prevention	Medium customization, e-signature	This is the followup after a Fall Risk Assessment, where NKF need to conduct prevention training for patient. This requires patient to e-sign to acknowledge the training is completed. <i>[module is not in system yet as of this writing, we may enhance in current system as urgent request, or push to this upgrade project]</i>	
2.1.5.2 7	Transport Triage Assessment	Simple customization	This is a survey like data entry page that helps to compute a transport Tier applicable for the patient. This data is required for welfare application creation, billing generation and also claim submission to MOH via ILTC portal. Refer to 12.27/28 for invoice generation. Refer to 12.4 for ILTC submission. Refer to 2.9 for Welfare Application	
2.1.5.2 8	Case Management	Simple customization	This is a listing of MSW Case. See 15.15 for details.	
2.1.5.2 9	MSW Routine Assessment	Simple customization	Similar sub modules as Case Management, but with less info to track.	
2.1.5.3 0	Medical Nutritional Assessments	Medium customization	Dietitian will enter this assessment during pre-placement (before patient joins) and also routinely after patient joins NKF. They will enter the data here but the summary will be shown on EMR (custom UI) for Doctors and Nurses to see.	
2.1.5.3 1	Oral Nutritional Supplement	Medium customization	Dietitian can prescription supplement for patient who requires it. This module is to track the order and dispense. In each active ONS record, user is able to create multiple new distribution record to track the date, the amount and the status of the supplement given to patient 2 weeks.	
2.1.5.3 2	Referral Letter	Medium customization	For nursing to create and print letter in the event patient needs to be referred to hospital. The modules will summarize patient details, including active medication listing, and some lab reports for printing.	
2.1.5.3 3	Slot Request/Reservation/Assignment	Simple customization	This is a listing here but from the Slot Management process. See item 2.5.	
2.1.5.3 4	ICT Profile	High customization	This module is for collaboration in a multi-discipline group. Data is pulled from various departments, the group will come together to review a patient's care plan periodically.	



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2.1.5.3 5	KDQOL Score	Repeated	See Item 15.4	
2.1.5.3 6	Therapy Assessment	Medium customization	For tracking Occupational Therapy and Physio Therapy assessments.	
2.1.5.3 7	Patient Discharge	Simple customization	This is a listing but the main discharge logic to see item 2.12.	
2.1.5.3 8	Diabetic Foot Screening	High customization with custom UI	This form includes 2 customization images for nurses to mark different areas of the foot where sensory issues are detected. It also allows drawing lines to indicate amputations and marking foot problems using four symbols: #, o, x, and +, along with an erase functions.	
2.1.5.3 9	Podiatrist Assessment	Medium customization		
2.1.6	<b>Contacts as Beneficiary</b>	Business logic	<p><b>As a Beneficiary, system captures all of the above under Contact/Applicant, plus the following in addition,</b></p> <ul style="list-style-type: none"> <li>- Information such as PD details, programme sub types, Medical info, Demographic info, Billing info, BCP contact info, plus the following sub modules:</li> </ul> <p>Below are similar to HD patient listing, refer to as Patient for info,</p> <ul style="list-style-type: none"> <li>- Family Members, Relation to Patient/Donor, Allergy, Vaccination History, Medical Condition/Assessment, Amputation, Lab Test Results, Hospitalization Event, Medical Nutritional Assessment, MSW Case Management, Therapy Assessment, ICT Profile, KDQOL Score, Discharge (Termination), Patient Management Module, Contact Followup Recording, Know Right Start Right, Scanned Documents.</li> </ul> <p>Below are specific to PD, refer to subsequent rows for info,</p> <ul style="list-style-type: none"> <li>- Kt/V, PET (these are subset of Lab Test Results),</li> <li>- PD Financial Fee Review, PD Treatment Plan, Home Visit Registration,</li> <li>- Under Home/Clinic Visit Record section: PD Home Visit Attendance, Pre-PD Home Visit Assessments, Home Visit Assessments, Home PD Service, Home Assisted PD, PD Diabetic Foot Screening, PD Subjective Global Assessment, PD Peritonitis &amp; Exit Site Infection, PD Outpatient Clinic Notes.</li> <li>- MSW/DTD Home Visit Attendance, National PD Referral, PD Consent Forms</li> </ul>	
2.1.6.1	Kt/V	Medium customization	Data entry with PD specific computation.	
2.1.6.2	PET	Medium customization	Data entry with PD specific computation. Has trending graph.	

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2.1.6.3	PD Financial Fee Review (FFR)	High customization	This is for user to submit PD FFR application for approval of PD Funding. NKF fund needy PD patient in various ways eg. PD Service at clinic, PD Solution used for treatment, PD Home Visit etc. PD Home Visit is also tag to "National PD Referral" as MOH has recently started subsidy for such service. FFR has impact to billing, see item 12.15.	
2.1.6.4	PD Treatment Plan	Simple customization	To document the PD treatment plan, including sub modules APD Plan Details and CAPD Plan details.	
2.1.6.5	Home Visit Registration	Medium customization	While the Application module helps to track the beneficiary's application process to the PD programme, that is administrative under Admissions department. This HVR module is also to track the programme but more for operation by the PD Nursing team. Sub modules include:- Sub modules already listed under Contact (as Beneficiary) profile page, the difference is a beneficiary can have multiple Registration (they exit, and reenter), so at this level the sub modules are tie to 1 registration, while under Contact (Beneficiary) level all sub modules are listed regardless of registration. refer to items - simple tracking of Primary Nurse Change History.	
2.1.6.6	PD Home Visit Attendance	Simple customization	For tracking NKF PD staffs visit to patient home, it is simple data entry but data is used for generation of PD Invoice. To include checking against billing closing. If last month billing is closed, prevent user from creating.	
2.1.6.7	Pre-PD Home Visit Assessments	Simple customization	Assessment checklist and data entry to capture information of beneficiary's home condition suitability for home treatment, before starting treatment. May engage additional party involve to help beneficiary improve home condition to facilitate home treatment.	
2.1.6.8	Home Visit Assessments	Medium customization	Routine assessment of beneficiary's home treatment progress. Has additional tracking like Risk Assessment, Clinical Assessment, Diabetic Control, Dietary Control, Visit Summary etc.	
2.1.6.9	Home PD Service	Simple customization	Tracking of service performed.	
2.1.6.10	Home Assisted PD	Simple customization	Tracking of home assisted PD. This can be respite care when caregiver is not available and require NKF to assist. (last data entry 2019, could be obsolete, vendor may include for budgetary quote)	
2.1.6.11	PD Diabetic Foot Screening	Simple customization	For screening if patient has risk of diabetic foot. Has customization where user can click on different parts of the foot diagram, to pinpoint exactly which area (eg. Which toe) having issue.	

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2.1.6.1 2	PD Practice and Knowledge Assessment	Simple customization	Survey-like data entry to capture beneficiary's BMI/Function status. - Obsolete. Not required as confirmed with user. - Obsolete. Already merged in Home Visit Assessment. Not required as confirmed with user.	
2.1.6.1 3	PD Problem List	Simple customization	For logging medical problems encountered by beneficiary. - Obsolete. Not required as confirmed with user.	
2.1.6.1 4	PD Subjective Global Assessment	Simple customization	Survey-like data entry to capture beneficiary's knowledge on self PD treatment.	
2.1.6.1 5	PD Peritonitis & Exit Site Infection	Simple customization	For tracking of infection. (last data entry 2015, could be obsolete, vendor may include for budgetary quote) - To check with user.	
2.1.6.1 6	PD Outpatient Clinic Notes	High customization	Under PD Clinic service, doctor/nurse will use this module to capture all the service rendered to the patient, namely: Assessment, PD Procedure performed, Peritonitis or Exit Site infection, Prescription (of medication), Medication Dispensing or Administration (including High Value Drug), Notes. Has a mini Drug Admin custom UI component for user to capture Drug Administration. PD Centre Procedure entry has impact to PD Invoice generation.	
2.1.6.1 7	MSW/DTD Home Visit Attendance	Simple customization	Simple data entry to log home visits conducted by Medical Social Worker or Dietician. Has impact to PD Invoice generation.	
2.1.6.1 8	National PD Referral	High customization	National PD is a programme that is in conjunction with MOH, where MOH will provide subsidy to offset patient's bill. This module is to keep track the end to end process, from Referral by Hospital, to programme acceptance, to which Service Package, to tracking of service (MOH has a funding limit), to programme drop out. The info captured here is important for monthly/quarterly reporting to MOH. Upon acceptance of referral, system will generate the package entitlements.	
2.1.6.1 9	PD Consent Forms	Simple customization, E-signing	For PD nurse and/or admission team to upload consent form (signed and scanned into PDF). General Consent is signed under admission team, while Medical consent is signed under nursing team. System has logic to ensure both forms are uploaded, before allowing user to approve the programme application. Vendor is required to deliver a solution that allows patient to e-sign over the administration counter, thus also reduce the user effort to print/sign/scan/upload.	
2.2	Appointment	Medium customization	Appointment listing. Entry is via contact/application form for appointment scheduling.	

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2.2.1		Business logic	Supports Appointment tracking for various departments (with javascript show/hide) namely, Admissions, Admissions Clinic, Exercise, Interview, Social Worker, Occupational Therapy, Placement Orientation appointments.	
2.2.2		display in custom UI	in addition, for Exercise department (ENF) they are entering their engagement details with patient here. There is a flag "to show in EMR", when ticked, this particular "appointment" will display as engagement details under EMR for doctors to see.	
2.3	Application	High customization with Plugin, Workflow	Supports several NKF programme, namely HD, PD, PF, EPF, HDP. The form will dynamically show relevant sections based on the type of programmes	
2.3.1		Business logic	HD - Haemodialysis, our main programme. Data captures: Application Checklist, Admission Intake Form, Family Information, Employment, Financial, Appointments, Interim Funding, Dialysis Treatment (Pre-NKF), nursing/medical/nutritional/social assessments, Transport Triage Assessment, Slot Management, EPF (subsidy for patient dialyzing outside NKF while waiting for NKF placement), Orientation programme, Patient Financial Review (Financial Fee and Welfare applications), Application Status tracking, Follow up recording (Communication logs), scanned document, Withdrawal notice. There's a HD and EPF application milestone which enables easy identification of responsible party for each stage and visibility of application status.	
2.3.2		Business logic	PD - Peritoneal Dialysis, second main programme. Data captures: Application Checklist, Personal info, Family Information, Employment, Financial, Fee Review, PD Package info, Application Status, PD Home Visit registration and several Home visit assessments, Consent form, Follow up Recording, scanned document, withdrawal notice	
2.3.3		Business logic	PF/EPF - provides funding support. Data captures: Personal info, Family info, Financial, Fee Review, Application Status, Interim Funding, Follow up recording, scanned documents. This is a child application under HD application.	
2.3.4		Business logic	KLD - Kidney Life Donor, we provide support for kidney donors. Data captures: General info, Donor info, Donor employment, Donor family info, Recipient info, Recipient Employment, Recipient Family Info, Application Status, Financial, Fee Review, Claims and disbursement. note this is implemented as a separate entity as the main Application entity was too cluttered.	

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2.3.5		Business logic	HDP (or CH), our collaboration with community hospitals. Data captures: General info, referral info, Slot request, Financial info, Approval info, Dialysis sessions, Discharge info, Invoice printing.	
2.3.6		Approval process	All Fee Review sub module mentioned in above programmes require approval up to 4 levels, Supervisor, Manager, Financial Controller or Senior Director, finally CEO. The approving path may differs based on the submitter's job function (eg. Admission staff, Social Worker, or Admission counsellor)	
2.3.7		alternate form	In the event patient is discharged from the programme, this Application form has another selectable form that user can toggle to the "termination view", where user can continue to access what they used to see from the contact entity when in patient view mode. During upgrade, we will need vendor to review and improve this design.	
2.3.8		Improvement required	As mentioned above, the main application had became cluttered and we subsequently launch new programmes with new custom entity. During the upgrade we require revisit into original design for better scaling. Healthcare is a changing environment as NKF strive to do our best and do more for needy patients. thus the system needs to be able to react to new programmes in a short time.	
2.4	Referral Application	High customization	Community hospital referral programme application listing. Entry is via contact form to create referral to YCH for dialysis.	
2.4.1		Business logic	This is a collaboration with community hospitals to assist in HD treatment on adhoc basis. The patients are residents of the community hospital and are not part of NKF programmes. Thus this module is for quick processing of such adhoc cases. Some modules like Slot Management and Dialysis Session and Billing are integrated with NKF main HD programmes. During this upgrade, we would like to further improve this design to make the process more seamless.	
2.5	Slot Request	High customization with Plugin, Workflow, Custom Html UI	Part of the Slot Management module (Request, Reserve, Assign, Allocate). This Request process allows DC staff to raise transfer request on behalf of patient. In the event the requested location is full, this request also serve as a waiting list. For DC with available slots, Slot Team can do auto reservation. This request module can only be created by Admission Slot Team directly for urgent cases. There's a Check Right Siting html which show list of nearest DCs	

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			to the patient's address postal. This is using the OneMap services.	
2.5.1		Business logic, many test scenarios	There are several transfer types with different process/outcome. Some examples are:- Placement request, to place new patients- Normal transfer, to permanently transfer patients- ISO transfer, to temporarily transfer patients for isolation (eg. patient got chicken pox). it is important to reserve patient's original slot pending his/her return from isolation.- Rehab transfer, to temporarily transfer patients for rehabilitation purpose. this is common in the event patient discharged after long hospitalization. Similiar to ISO transfer, patient's original slot has to be reserved for his/her return.- Long Term ISO, in some cases patient needs to be isolated permanently. in this case the patient's original slot is released to place other patients.- Night Dialysis Trial, overnight dialysis is a relatively new option and NKF provides 30 days trial for patients. within the 30 days, the patient's original slot is retained. until the point patient confirms to permanently continue with night dialysis.- Long Term Absence, in the event patient is admitted to hospital for a long time, this request will release slot to place other patients.	
2.6	Reservation	Major Customization with Plugin, Workflow, Custom Html UI	Part of the Slot Management module (Request, Reserve, Assign, Allocate). From the Request stage, Admissions Slot team will process and reserve available slot pending patient's acceptance.	
2.6.1		Highlight key function	(cannot see from dashboard) Assign process is where patient has accepted the slot offering and Admission Slot team will update system as assigned with the target effective date. From here, DC staff will be able to see incoming patient under DC Census.	



Item	Title	Complexity	Description	Compliance (Yes/No)
2.6.2		Highlight key function	(cannot see from dashboard) Allocate process. While Admissions Slot team centrally managed where to place patient, within each DC, the nurse manager/supervisor is in charge of actual chair (or slot/station) allocation for patient. DC will trigger this function within the DC Census. as such, there are backend tables that were designed to link the Slot Request to the DC census, and to provide critical information like capacity, availability, reservation status, assignment status and final allocation status.	
2.7	Patient Financial Review	High customization with Plugin, Workflow, Custom Html UI	Patient Financial Review is a top level entity that helps to facilitate FFR and Welfare application approvals. This PFR module has impact to billing.	
2.7.1		Business logic	FFR stands for Financial Fee Review, where we compute patients' treatment cost/payment after factoring patients' financial status, subsidy from government, Subsidy from Sponsors, claim from insurance, subsidy from NKF (includes justifications, if any) and patient's copayment. Allows attachments as supporting documents.	
2.7.2		Business logic	Welfare refers to transport assistance for patients who needs them. This also involves computation of patient's transport cost, factoring government subsidy, and subsidy from NKF, and patient's copayment. Allows attachments as supporting documents.	
2.7.3		Approval process	All Fee Review mentioned above requires approval up to 4 levels, Supervisor, Manager/HOD, Financial Controller or Senior Director, finally CEO. The approving path may differs based on the submitter's job function (eg. Admission staff, Social Worker, or Admission counsellor)	
2.7.4		Monthly batch job, mass review/approval logic	As the fee reviews involves government subsidy (term subvention), there is a need to ensure our assessment is accurate (with respect to government database) on a monthly basis. Reason being patients' financial status can change anytime, this change is tracked by the government system, therefore NKF will need to mass check on monthly basis to sieve out patients that has financial status change. This is a tedious process as NKF practice central billing for all 40 over DCs, the system has design to facilitate this process.	



Item	Title	Complexity	Description	Compliance (Yes/No)
2.7.5		Annual or half yearly mass review/approval logic	Every year, or half yearly or adhoc, we may encounter changes to Cost or Government Subsidy, Household Income Range and also the occasional GST increase. The system needs to support mass fee review when such billing components are changed.	
2.7.5.1		Improvement required	Currently we are leveraging on Data Import to prepare data in excel and upload to system, SQL scripts to terminate previous outdated data. We encounter challenge from bad/inaccurate data, and admin-overhead in manually extracting/updating data in excel. [NKF is in progress of automating this process in current version]	
2.7.6		Console	Console runs daily to check and toggle the FFR or Welfare status to Active or Inactive and terminate as per planned termination date.	
2.7.7		Console/Workflow assembly	Every month, we will generate a monthly snapshot of FFR and Welfare for monthly billing purpose. The snapshot is termed FFR By Month. This step is important as FFR/Welfare documents can be changed over time, the snapshot ensures we keep history of the rates applied in billing at the point in time.	
2.7.8		Business logic	Currently NKF is further enhancing this module to support HDHD (High Dependency HD) scenario, for specific patient having medical condition that requires more manpower/attention.	
2.7.9		Business logic	Currently NKF is further enhancing this module to support Medifund scenario, for specific patient that already have funding from government.	
2.8	HD FFRs	High customization	HD FFR (Financial Fee Review) listing. Entry is via patient financial review form. See 2.7 for details. Have impact to billing.	
2.9	Welfare Application	High customization	Welfare application listing. Entry is via patient financial review form to request welfare assistance for the patients. See 2.7 for details. Have impact to billing.	
2.10	DC Census	Custom UI - Complex	This function is to easily access and manage patient's slot allocation within the DC and patient movement across DC. The screen is mainly used by DC staffs during daily operation but is also assessable by the Admissions team to view patient according to DC/Day/Shift. This screen will show the station type and HD modality subset of the patient.	

Item	Title	Complexity	Description	Compliance (Yes/No)
2.10.1		Business logic	This is like a "patient sitting arrangement" screen. Patients are listed based on the chair numbers, group by Day and Shift.- Day, each patient needs to attend treatment 3 days per week, thus we split them as 135/246 (ie. Mon+Wed+Fri / Tue+Thu+Sat).- Shift, the average treatment is 4-5hours, thus NKF can cater for 3 shifts of patients per day (7am, 12pm, 6pm). some DCs have 4th night shift that starts 11pm.	
2.10.2		Business logic, many test scenarios	DC staff can perform the following at DC census screen, <ul style="list-style-type: none"> <li>- patient key info, slot status</li> <li>- shortcut to patient profile</li> <li>- shortcut to EMR (Electronic Medical Record)</li> <li>- see incoming new/transferred patient at various stages (request, reserve, assign)</li> <li>- put patient into open slots</li> <li>- reallocate patient to different slots</li> <li>- for temporarily transfer case, to release patient back to original DC</li> <li>- see capacity summary at per shift level</li> <li>- print slot allocation report</li> </ul>	
2.11	MSW Referrals	Medium customization	MSW referrals listing and entry. This function is to raise referrals to the medical social workers for follow up actions. MSW will need to update status, acknowledged to follow up and mark complete when case close. Case tracking is done separately in MSW Case Management module.	
2.12	Patient Termination (Discharge)	High customization, plugin	Patient discharge listing. Previously known as Programme Termination, Patient discharge is to process the discharge of patients from NKF programmes.	
2.12.1		Business logic	Upon confirmation of patient discharge, there are automation to set various data to terminated. Eg. FFR (Fee Review) and Welfare application	
2.12.2		Business logic	As the current design leverage on transforming Contact entity to reflect different type (ie. Contact, applicant, patient, beneficiary etc), this discharge process also need to update the patient back to contact. When this happens, the historical Application will double up as the historical patient view. (user will toggle form manually). see 2.3 for details.	
2.12.3		Business logic	Upon confirmation of patient discharge, system also need to free up the dialysis slot in order to place other patients. System will also add a record under the Patient Movement table. This Patient Movement table keeps track of all the movement of the patient (new, transfers, temporary transfers, discharge).	

Item	Title	Complexity	Description	Compliance (Yes/No)
2.12.4		Improvement required	Currently while patient discharge record is created by Admissions team, the info is actually emailed Word document from Dialysis Centres to inform that patient is discharged. To build this notification of patient discharge in CRM so that DCs can submit the notification online to Admissions department.	
2.13	HD FFR monthly Summary Report	Medium customization, Console	Monthly HD FFR for review listing. For HOD to review 10% of monthly approved HD FFRs. Contrary to the naming "report", it actually facilitates HOD to review and tag "reviewed", and dynamically compute the target number to review base on 10%. Eg. If that month has 1000 approved FFR, HOD need to review at least 100 records. Console will generate the listing on monthly basis.	
2.14	Welfare Monthly Summary Report	Medium customization, Console	Monthly Welfare for review listing. For HOD to review 10% of monthly approved Welfares. Contrary to the naming "report", it actually facilitates HOD to review and tag "reviewed", and dynamically compute the target number to review base on 10%. Eg. If that month has 1000 approved Welfares, HOD need to review at least 100 records. Console will generate the listing on monthly basis.	
2.15	PD FFR Monthly Summary Report	Medium customization, Console	Monthly PD FFR for review listing. For HOD to review 10% of monthly approved PD FFRs. Contrary to the naming "report", it actually facilitates HOD to review and tag "reviewed", and dynamically compute the target number to review base on 10%. Eg. If that month has 1000 approved FFR, HOD need to review at least 100 records. Console will generate the listing on monthly basis.	
2.16	PF FFR Monthly Summary Report	Medium customization, Console	Monthly PF FFR for review listing. For HOD to review 10% of monthly approved PF FFRs. Contrary to the naming "report", it actually facilitates HOD to review and tag "reviewed", and dynamically compute the target number to review base on 10%. Eg. If that month has 1000 approved FFR, HOD need to review at least 100 records. Console will generate the listing on monthly basis.	
2.17	EPF FFR Monthly Summary Report	Medium customization, Console	Monthly EPF FFR for review listing. For HOD to review 10% of monthly approved EPF FFRs. Contrary to the naming "report", it actually facilitates HOD to review and tag "reviewed", and dynamically compute the target number to review base on 10%. Eg. If that month has 1000 approved FFR, HOD need to review at least 100 records. Console will generate the listing on monthly basis.	

Item	Title	Complexity	Description	Compliance (Yes/No)
2.18	Contact Follow Up Recording	Simple customization	Contact follow up recording listing. Entry is via contact/application form to record follow up with the applicants/ patients. This is like a Communication Log module.	
2.19	Patient On Probation	Simple customization	All new patients are subjected to 6 months probation. This module is to facilitate tracking and review/confirm the probation. System allows user to generate Letter of Confirmation.	
2.20	Know Right Start Right	Medium customization	KRSR referral listing. Entry is via contact form to track KRSR profile, service engagements and follow up recordings. Concept is like CRM Event management where we track participants engaging in various activities to familiarize themselves to dialysis treatment. this early intervention program is catered for pre-ESRD patients (End Stage Renal Disease), meaning they are CKD stage 3-4 (not total renal failure yet).	
2.21	Approver Delegation	Master Data	Setup form for users to delegate approval to another user for a period of time during his/her absence. The delegation is for FFRs/Welfare modules that requires approval. To include a Console Program to update the Approval Delegation record to 'Expired' once it's over the End Date.	
2.22	Patient Deposit Collections & Patient Invoice payments	Medium customization with finance logic	Allow Admissions staffs to collect deposit payments (before actual start of dialysis) and DC staffs to collect both Deposit payments and Invoice payments. The data has impact to patient ledger. Refer to Item 12.18 and 12.35.	
2.23	Posted Patient Deposit Collections & Posted Patient Invoice payments	Medium customization with finance logic	Posted copies of 2.22 to Finance Journals. Later, Finance user will go and post the Finance Journal entries to Ledger entries. Refer to Item 12.18 and 12.35.	
2.24	Report listing	NA	37 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
3	<b>Admissions - AA</b>	Dashboard, Basic Configuration	Dashboard for Admissions department. AA is the Admin Assistant role, users of this role has lesser data access.	
3.1	Contacts	Repeated	Refer to Item 2.1.	
3.2	Appointment	Repeated	Refer to Item 2.2.	
3.3	Application	Repeated	Refer to Item 2.3.	
3.4	MSW Referrals	Repeated	Refer to Item 2.11.	
3.5	Patient Discharge	Repeated	Refer to Item 2.12.	
3.6	Report listing	NA	2 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
4	<b>Admissions - KLD</b>	Dashboard, Basic Configuration	Dashboard for Admissions department to manage Kidney Live Donor (KLD) programme. A programme which provides	

Item	Title	Complexity	Description	Compliance (Yes/No)
			financial assistance to needy kidney donors.	
4.1	Contacts	Repeated	Refer to Item 2.1.	
4.2	KLD Application	Medium customization	KLD application listing. Entry is via contact form. See 2.3. KLD stands for Kidney Life Donor programme. This is to help needy families in the event of kidney transplant. Tracks information like Donor/Recipient's basic/employment/family info, application status, financial info, Financial Fee Review (FFR).	
4.3	KLD FFR	Medium customization	KLD FFR (Financial Fee Review) listing. Entry is via KLD application/ contact form. This has approval process. See 2.3 under Fee Review.	
4.4	KLD Claim Request	Medium customization	KLD claim request listing. This is used for staff to record claims from kidney donor. This claim has approval process.	
4.5	KLD Termination	Medium customization	KLD termination listing. Entry is via contact form to terminate patients from KLD programme. Note programme termination is also known as Discharge. Refer to item 2.12.	
4.6	Report listing	NA	0 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
5	<b>Admissions - PD</b>	Dashboard, Basic Configuration	Dashboard for Admissions department to manage Peritoneal Dialysis (PD) programme. A programme which provides financial assistance to beneficiaries for PD solutions/ PD home support.	
5.1	Contacts	Repeated	Refer to Item 2.1.	
5.2	PD Application	Repeated	PD application listing. Entry is via contact form. See 2.3.	
5.3	PD Beneficiary	Repeated	PD beneficiary listing. This lists the contact with "PD Beneficiary" contact type. Refer to item 2.1.6.	
5.4	PD FFR	Repeated	PD FFR (Financial Fee Review) listing. Entry is via application/ contact form. This has approval process. See 2.3 under Fee Review.	
5.5	PD FFR Monthly Header	Medium customization, Console	As the FFRs are typically approve based on period (eg. Jan24 to Dec24), and these can change over time (eg. Until Jun24, rate change to Dec24, end result one 12-month FFR became two 6-month FFRs). Purpose of this Month Header is to snapshot the FFR on monthly basis, so that post-invoice, it is easy for user to refer/compare with generated invoice. Console generates this on monthly basis before billing.	
5.6	PD Claims	Simple customization	Listing of PD claims records created upon PD claims import checking against the PD FFR Monthly Header records.	

Item	Title	Complexity	Description	Compliance (Yes/No)
5.7	PD Claims Import	High customization, plugin, workflow assembly	Under PD programme, NKF provide monetary subsidy to patients through hospitals (not direct to patient). As such, on monthly basis, NKF receives claim listing from hospitals in excel format. User will import the excel where the system will conduct data verification. User will first create the entity data, then upload the excel under Notes, then system workflow assembly will process the excel data. the system will also generate the import result into excel, with additional Exception column to show the import error if applicable.	
5.8	Patient Termination	Repeated	Refer to Item 2.12.	
5.9	PD FFR Monthly Summary Report	Repeated	Refer to Item 2.15.	
5.10	Report listing	NA	2 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
6	<b>Admissions - PF</b>	Dashboard, Basic Configuration	Dashboard for Admissions department to manage Portable Funding (PD) programme. A programme which provides financial assistance to needy patients for PD solutions/ PD home support.	
6.1	Contacts	Repeated	Refer to Item 2.1.	
6.2	PF Application	Repeated	PF application listing. Entry is via contact form. See 2.3	
6.3	PF Beneficiary	Repeated	Listing of contacts filtered to type "PF Beneficiary". Refer to item 2.1.6.	
6.4	PF FFR	Repeated	PF FFR (Financial Fee Review) listing. Entry is via application/ contact form. This has approval process. See 2.3 under Fee Review.	
6.5	PF FFR Monthly Header	Medium customization, Console	As the FFRs are typically approve based on period (eg. Jan24 to Dec24), and these can change over time (eg. Until Jun24, rate change to Dec24, end result one 12-month FFR became two 6-month FFRs). Purpose of this Month Header is to snapshot the FFR on monthly basis, so that post-invoice, it is easy for user to refer/compare with generated invoice. Console generates this on monthly basis before billing.	
6.6	PF Claims	Simple customization	Listing of PF claims records created upon PF claims import checking against the PF FFR Monthly Header records.	
6.7	PF Claims Import	High customization, plugin, workflow assembly	Under PF programme, NKF provide monetary subsidy to patients through private dialysis centers (not direct to patient). As such, on monthly basis, NKF receives claim listing from private dialysis centers in excel format. User will import the excel where the system will conduct data verification. User will first create the entity data, then upload the excel under Notes, then system workflow assembly will process the excel data. the system will also generate the import result into excel, with	



Item	Title	Complexity	Description	Compliance (Yes/No)
			additional Exception column to show the import error if applicable.	
6.8	PF Claims Delete	Simple customization	obsolete. But may need simple configuration just so as to migrate the old data for record purpose.	
6.9	PF FFR Monthly Summary Report	Repeated	Refer to Item 2.16.	
6.10	Patient Termination	Repeated	Refer to Item 2.12.	
6.11	Report listing	NA	5 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
7	<b>Admissions - PMM</b>	Dashboard, Basic Configuration	Dashboard for Admissions department specific for patient accounting.	
7.1	Patient Ledger Entry	Simple customization	Listing of patient ledger information	
7.2	Deposit/Patient payment	Medium customization	Allow staffs to enter when patient made payment for deposit or invoice. Refer to Item 12.18 and 12.35.	
7.3	Posted Deposit/Patient Payment	Simple customization	listing of the payments posted by finance. Refer to Item 12.18 and 12.35.	
7.4	Report listing	NA	4 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
8	<b>Clinical Operations</b>	Dashboard, Basic Configuration	Dashboard for Clinical Operation department. Each DC has one operation admin. These operation admins report to their zone leads. This dashboard is used by the zone leads to provide support/covering for the operation admins reporting to them.	
8.1	Contacts	Repeated	Refer to Item 2.1.	
8.2	DC Census	Repeated	Refer to Item 2.10.	
8.3	Patient	Repeated	Refer to Item 2.1.	
8.4	Patient Search	Medium customization	Custom html to quick search for patient and his/her current DC. This is required to overcome the security of ownership. As patient data can only be access by the assigned DC, other DCs cannot find this patient. So this custom UI is to allow search across other DCs, to at least know where this patient is currently located (which DC).	
8.5	Report listing	NA	8 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	



Item	Title	Complexity	Description	Compliance (Yes/No)
9	<b>Dietetic Technician</b>	Dashboard, Basic Configuration	Dashboard for Dietetics department, specifically for Dietetic Technician as this user role sees less information.	
9.1	Dietitian Referrals	Repeated	Refer to Item 10.5.	
9.2	Report listing	NA	6 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
10	<b>Dietetics</b>	Dashboard, Basic Configuration	Dashboard for Dietetics department.	
10.1	Contacts	Repeated	Refer to Item 2.1.	
10.2	Application	Repeated	Refer to Item 2.3.	
10.3	Pending ICT Profile	Repeated	Listing of ICT Profiles. Refer to Item 2.1.5.34.	
10.4	MSW Referrals	Repeated	Refer to Item 2.11. This allows Dietitians to refer patient to MSW.	
10.5	Dietitian Referrals	Medium customization	Dietitian referrals listing and entry. This function is to raise referrals to the dietitians for follow up actions.	
10.6	ENF Referrals	Repeated	Refer to Item 11.7.	
10.7	OT Referrals	Repeated	Refer to Item 21.4.	
10.8	DC Census	Repeated	Refer to Item 2.10.	
10.9	PD Home Visit Registration	Repeated	Refer to Item 2.1.6.5.	
10.10	Report listing	NA	19 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
11	<b>Exercise and Fitness</b>	Dashboard, Basic Configuration	Dashboard for Exercise and Fitness department.	
11.1	Contacts	Repeated	Refer to Item 2.1.	
11.2	Application	Repeated	Refer to Item 2.3.	
11.3	Pending ICT Profile	Repeated	Listing of ICT Profiles. Refer to Item 2.1.5.34.	
11.4	DC Census	Repeated	Refer to Item 2.10.	
11.5	Customised Exercise Programme	NA	obsolete. Please ignore	
11.6	OT Referrals	Repeated	Refer to Item 21.4.	
11.7	ENF Referrals	Medium customization	ENF referrals listing and entry. This function is to raise referrals to the exercise and fitness team for follow up actions.	
11.8	ENF Appointments	Repeated	ENF appointment listing. The creation of an ENF appointment can be done through the ENF referral form and the ENF appointment listing page. Refer to 2.2	
11.9	Report listing	NA	8 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	

Item	Title	Complexity	Description	Compliance (Yes/No)
12	<b>Finance</b>	Dashboard, Basic Configuration	Dashboard for Finance department. Patient accounting modules will require vendor to have consultant with adequate Finance background to handle the upgrade effectively.	
12.1	Patient	Repeated	Refer to Item 8.3.	
12.2	MSW Referrals	Repeated	Refer to Item 2.11.	
12.3	DC Census	Repeated	Refer to Item 2.10.	
12.4	ILTC Job	complex customization, workflow assembly, SQL, interface.	As mentioned above our patients are needy and has Government Subvention (aka subsidy). NKF will claim subvention on behalf of patient. This is done through the government ILTC portal. This is a text file interface in complex delimited format. The file will list down all patients details, DC movement details, claim subvention amount details, invoice details, transport triage assessment details.	
12.4.1		business logic	User will create the job (entity data) in system. This will trigger the custom workflow assembly. The workflow will process in 2 parts, it will first create the data into various child entities; followed by reading the child entities and construct into a text file. User will download the text file and manually upload through a third party SFTP client to send the file to government ILTC SFTP server.	
12.4.2		business logic	After the government portal processed the text file, they will send a return file. User will upload the return ACK file back to CRM, where CRM workflow will import the ACK results and highlight to users if there are errors.	
12.5	Patient Financial Review Approval	Repeated	Refer to Item 2.7.	
12.6	HD FFRs	Repeated	Refer to Item 2.8.	
12.7	Welfare Application	Repeated	Refer to Item 2.9.	
12.8	HDFFRs By Month	Medium customization, Console	This entity is design for billing purpose. As the FFRs are typically approve based on period (eg. Jan24 to Dec24), and these can change over time (eg. Until Jun24, rate change to Dec24, end result one 12-month FFR became two 6-month FFRs). Purpose of this Month Header is to snapshot the FFR on monthly basis, so that post-invoice, it is easy for user to refer/compare with generated invoice. Console generates this on monthly basis before billing. As HD is NKF's primary operation, the HD billing is complex so this entity contains more data.	
12.9	PF FFR	Repeated	Refer to Item 6.4.	
12.10	KLD FFR	Repeated	Refer to Item 4.3.	
12.11	PD FFR	Repeated	Refer to Item 5.4.	
12.12	KLD Claim Request	Repeated	Refer to Item 4.4.	

Item	Title	Complexity	Description	Compliance (Yes/No)
12.13	PD Invoice Jobs	complex customization, workflow assembly	Invoice depends on 4 main data sources: - PD Service charges - Home Visit charges - Other clinic charges - PD FFR , together with master data setup on Rates/GST. This job will generate the Invoice Header and Invoice Lines. The Lines contains details of breakdown of the chargeable items - Subvention - Subsidies = Copayment; group by GL Account.	
12.13.1		Improvement required	Currently our invoice does have QR code for payment but is a generic code, where patient needs to manually input NRIC and amount. We hope for a dynamic QR where can help patient prefill the Billing reference and amount.	
12.14	Generated PD Invoice Headers	Simple customization	Listing of PD invoice header records generated upon execution of PD Invoice Job as in 12.13. These data is used to generate the Sales Invoices.	
12.15	Generated PD Invoice Details	Simple customization	Listing of PD invoice lines records generated upon execution of PD Invoice Job as in 12.13. These data is used to generate the Sales Invoices.	
12.16	Approver Delegation	Repeated	Refer to Item 2.21.	
12.17	Deposit List	customization with accounting logic	Listing of Contact optimized to show patient's deposit status	
12.18	Patient Invoice payments	customization with accounting logic	Listing of Patient Invoice payments List filtered to open (outstanding) patient payment records. Allow user to capture receiving of payment, generate Cash Receipt etc. After posting will update various GL tables. Default is payment as shown from NKF bank account (eg. Paynow).	
12.19	Payment by AXS	customization with accounting logic	Listing of Patient Invoice payments List filtered to open (outstanding) patient payment records. Allow user to capture receiving of payment, generate Cash Receipt etc. After posting will update various GL tables. Data is from incoming AXS Payment file.	
12.20	Payment by GIRO	customization with accounting logic	Listing of Patient Invoice payments List filtered to open (outstanding) patient payment records. Allow user to capture receiving of payment, generate Cash Receipt etc. After posting will update various GL tables. Data flow involves outgoing GIRO file to bank (DBS), and incoming GIRO Response file from bank.	

Item	Title	Complexity	Description	Compliance (Yes/No)
12.21	CPF MediClaim (MediShield Life, MediSave)	complex customization with accounting logic, workflow file generation	CPF MediClaim management. It involves the following processes:- Generate CPF Medclaim data- Generate files using the CPF Medclaim data to shared drive folder. - Finance user will manually upload the files to Medclaim portal. - Download the CPF PAY return file from Medclaim portal and import to PMM to process acknowledgement file.	
12.22	Private Insurance/Company Claim	Medium customization with accounting logic, workflow file generation	Sponsor Payments (Insurance/Company) management.	
12.23	Submit Claims to MOH (ILTC Job)	Simple customization	same as 12.4. redirection only	
12.24	Claim - MOH & GST (Create Sponsor Receipt)	customization with accounting logic	Generation of payments from MOH & GST based on the Invoice lines and to let Finance user to verify and POST to ledgers. Monthly batch process	
12.25	Sponsor Payments	customization with accounting logic	Listing of Payment List filtered to open (outstanding) patient payment records. Allow user to capture receiving of payment, generate Cash Receipt etc. After posting will update various GL tables. Data is from sponsor's payment into our bank account.	
12.26	Finance Journals	customization with accounting logic	Finance Journal management: This is a staging Journal listing entity for Finance to handle the following processes and to POST to Finance ledgers: - Deposit & Invoice payments by Patients - AXS Payments by Patients - GIRO Payments by Patients - CPF Medclaim claims received through CPF PAY return file - Private Insurance & Company Sponsorship claim payments	
12.27	Invoice Jobs	complex customization with accounting logic, batch process	Generation of Invoices. Invoice depends on 4 main data sources: - dialysis attendance - drug consumption - HD FFR >> FFR by Month and Welfare, - master data setup on Rates/GST. This job will generate the Invoice Header and Invoice Lines. The Lines contains details of breakdown of the chargeable items (Dialysis + Drugs +transport charges) - MOH Subvention - Insurance claim - NKF Subsidies = Copayment; group by GL Account.	
12.28	Sales Invoices	Complex customization	Listing of HD and Non-NKF Patient Invoices structured as Headers & Lines. Upon double clicking each Sales Invoice Headers in the Listing page, the corresponding Invoice should open in details where Sales Invoice Lines can be seen.	
12.29	Sales Credit Memo	Medium customization	This is provision for adjustments by Finance users. Eg: To give fee waivers, refunds etc	

Item	Title	Complexity	Description	Compliance (Yes/No)
12.30	Post-Discharge List	Medium customization	For managing of account closure for patients who discharged from programme. This link is to list the patients who have been discharged.	
12.31	Update Discharge	customization with accounting logic	For managing of account closure for patients who discharged from programme. This link is to list the final accounting balance upon discharge. After posting will update various GL tables.	
12.32	Open Journals/Batch	customization with accounting logic	Journal Batch management. Same as 12.26	
12.33	PMM Posting Logs	Simple customization	This is to consolidate all error logs pertaining to Patient Management Module (PMM) during Finance Journals Posting, Invoices Jobs, CPF Medclaim Jobs, Invoice Posting etc.	
12.34	Posted Finance Journals	Simple customization	Listing of data generated after Finance posting of 12.26	
12.35	Posted Deposit Transaction	Simple customization	Listing of data generated after Finance posting of 2.22	
12.36	Posted Sales Invoices	Simple customization	Listing of data generated after Finance posting of 12.28	
12.37	Posted Sales Credit Memo	Simple customization	Listing of data generated after Finance posting of 12.29	
12.38	Patient Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is finalised Finance entries related to patients.	
12.39	Detailed Patient Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is detailed entries of 12.38; finalised Finance entries related to patients.	
12.40	Sponsor Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is finalised Finance entries related to Sponsors.	
12.41	Detailed Sponsor Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is detailed entries of 12.40; finalised Finance entries related to Sponsors.	
12.42	General Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is finalised Finance entries related to Patients & Sponsors. <b>This is the core Finance data used for Balance sheet, Income Statement, Profit &amp; Losses reports</b>	
12.43	Bank Account Ledger Entry	customization with accounting logic	Listing and management of patient accounting data. This is finalised Finance entries related to bank payments.	

Item	Title	Complexity	Description	Compliance (Yes/No)
12.44	Finance AR Setup (Sales & Receivables Setup)	Basic Configuration to support Patient Accounting logic	Finance Master setup for Patient Accounting module. This setup maintains the number series codes to use for various types of documents such as Invoices, Credit Notes, Debit Notes, GIRO, AXS transactions etc. This setup also to store all the core finance groups info, Footer notes for reports, GL account to use for various Account groups, shared folder paths to generate export files, which shared path to look for importing files etc.	
12.45	Finance Master Setup (General Ledger Setup)	Basic Configuration to support Patient Accounting logic	Organisation level of Finance Master setup for Patient Accounting module. Eg: Company Registration number, Currency code, Bank Account info etc.	
12.46	Chart of Accounts (COA)	Basic Configuration to support Patient Accounting logic	Master data setup: Generic & Core Finance Setup to maintain the GL accounts listing like in any Finance systems. This listing should indicate the account purpose, posting group taggings, summation figures of transactions under each GL accounts etc.	
12.47	Sales Account Group	Basic Configuration to support Patient Accounting logic	Master data setup: Finance Posting groups - Receivables GL Account mapping setup based on which ledger entries will post accordingly during the invoice/document postings. Eg: 50500000-TRANSPORT mapped to 112101 GL Account	
12.48	Product	Basic Configuration to support Patient Accounting logic	Master data setup: To maintain all Drugs and different types of Dialysis Treatments.	
12.49	Location List	Basic Configuration to support Patient Accounting logic	Master data setup: List of Dialysis Centres and corresponding Payment Journal Batch setup. 12.69 is enough to merge this in and maintain a single entity.	
12.50	Sponsor List	Basic Configuration to support Patient Accounting logic	Master data setup: List of all Company Sponsors who grant sponsorships to their staffs for dialysis treatment with NKF, Subsidy %, Capping amount setup etc. Take note of our main 2 Sponsors: MOH and we NKF giving subsidies to our patients. Need to save these 2 as well.	
12.51	Insurance List	Basic Configuration to support Patient Accounting logic	Master data setup: List of all Private Insurers, Medishield Life, who can provide insurance claims to their customers for dialysis treatment with NKF, Subsidy %, Capping amount setup etc.	
12.52	Patient (GIRO Setup, Sales Account Group...)	Basic Configuration	Patient accounting setup done at Contact entity under patient profile, this is to display	



Item	Title	Complexity	Description	Compliance (Yes/No)
			contact listing and their linked Patient Accounting parameters.	
12.53	Users	Basic Configuration	link to user entity	
12.54	Gen. Template Name	Basic Configuration to support Patient Accounting logic	Master data setup: Finance setup which is necessary for Finance systems to control various Journal Batches under each templates.	
12.55	Gen. Batch Name	Basic Configuration to support Patient Accounting logic	Master data setup: Finance setup which is necessary for Finance systems to let users to select dedicated journal batches and use accordingly to enter finance entries and post to ledgers/Chart of accounts/GL Accounts.	
12.56	Medisave Payee Setup	Basic Configuration to support Patient Accounting logic	Setup at per patient level to maintain the Medisave Payee info. Custom entity linked to contact.	
12.57	Medisave Payee Setup History	Basic Configuration to support Patient Accounting logic	History at per patient level to store the historical info of item 12.56 above. Custom entity linked to contact.	
12.58	GIRO Payee Setup	Basic Configuration to support Patient Accounting logic	Setup at per patient level to store the GIRO Payee info. Custom entity linked to contact.	
12.59	Monthly Instalment Plan	Basic Configuration to support Patient Accounting logic	Setup at per patient level to manage arrears for applicable patients. Social workers will arrange instalment plans for them to clear the arrears. Custom entity linked to contact.	
12.60	Monthly Instalment History	Basic Configuration to support Patient Accounting logic	History at per patient level to store the historical info of item 12.59 above. Custom entity linked to contact.	
12.61	Bank Code	Basic Configuration to support Patient Accounting logic	Master data setup: To store info of various banks in Singapore. This is to use for payment processing from various patient bank accounts.	
12.62	Bank Account	Basic Configuration to support Patient Accounting logic	Master data setup: To store info of various banks in Singapore. This is to use for payment processing from various patient bank accounts.	



Item	Title	Complexity	Description	Compliance (Yes/No)
12.63	Bank Branch	Basic Configuration to support Patient Accounting logic	Master data setup: To store info of various banks in Singapore. This is to use for payment processing from various patient bank accounts.	
12.64	No. Series	Basic Configuration to support Patient Accounting logic	Master data setup: Core Finance Setup to manage all running numbering for all documents. This is a typical financial way of managing numbering for financial transactions.	
12.65	Finance Closing Setup	Basic Configuration to support Patient Accounting logic	Use to control closing of month to prevent further updates from user in various modules.	
12.66	Payment Modes	Basic Configuration to support Patient Accounting logic	Master data setup: To list down the payment modes in dropdown lists in Payment collection & Deposit collection screens. Also to link the bank account number of NKF for each payment modes.	
12.67	Dialysis Charge	Basic Configuration to support Patient Accounting logic	Master data setup: To store the different types of Dialysis and its charges.	
12.68	User Posting Setup	NA	Master data setup: <b>NOT IN USE</b>	
12.69	Dialysis Center	Basic Configuration	Master data setup: List of Dialysis Centres, Medclaim numbering link, Cost Center code link, Other clinical info related to Dialysis center etc.	
12.70	GST Setup	Basic Configuration to support Patient Accounting logic	Master data setup: GST Rate setup for a period	
12.71	Sponsorship	Basic Configuration to support Patient Accounting logic	Master data setup: 12.50 & 12.51 is enough	
12.72	Report listing	NA	23 reports listed here. Please see main Report section as there may be same reports duplicated over different dashboards.	
13	<b>General</b>	Dashboard, Basic Configuration	Not to be confused with the General section on top, this is General dashboard for users with minimum access.	
13.1	Contacts	Repeated	Refer to Item 2.1.	
13.2	DC Census	Repeated	Refer to Item 2.10.	
13.3	Patient Search	Repeated	Refer to Item 8.4.	

Item	Title	Complexity	Description	Compliance (Yes/No)
14	<b>MD and Medical Affairs</b>	Dashboard, Basic Configuration	Dashboard for Medical Doctors and Medical Affairs department.	
14.1	Contacts	Repeated	Refer to Item 2.1.	
14.2	Patient	Repeated	Refer to Item 8.3.	
14.3	PD Beneficiary	Repeated	Refer to item 2.1.6.	
14.4	Placement Clinic Appointment	Basic Configuration	Placement clinic appointment listing. Entry is via application form for appointment scheduling. Refer to Item 2.2.	
14.5	Application	Repeated	Refer to Item 2.3.	
14.6	Pre-Placement Medical Assessment	Repeated	Refer to item 2.1.5.8. Medical Assessment and Medical Condition is the same entity. This Pre-placement is pertaining to this assessment being entered when the patient is first assessed before joining NKF. Subsequently, when patients joined NKF, Nursing will routinely review this assessment (as Medical Condition) on ad hoc basis.	
14.7	Prescription - Pending Approval	Basic Configuration	Listing of prescription pending approval.	
14.8	MSW Referrals	Repeated	Refer to Item 2.11.	
14.9	Dietitian Referrals	Repeated	Refer to Item 10.5.	
14.10	OT Referrals	Repeated	Refer to Item 21.4.	
14.11	ENF Referrals	Repeated	Refer to Item 11.7.	
14.12	DC Census	Repeated	Refer to Item 2.10.	
14.13	Pre-Placement Nursing Assessment	Repeated	Refer to Item 2.1.5.23. Pre-Placement Nursing Assessment and Nursing Assessment is same entity. Difference is this has more data capturing before patient joins NKF.	
14.14	HVD Prescription – Pending Process / Dispense	High customization	Listing of prescription pending processing. This is for Medical Affairs team to process the prescription after approval from doctor. This entity has integration to Oracle inventory. HVD (High Value Drug) is central managed by Medical Affairs department with additional approval requirement, unlike other standard medication that is managed purely based on consumption.	
14.15	HVD Prescription - Pending Approval (CLA)	Basic Configuration	Listing of prescription pending approval. This is for Medical Affairs team to monitor HVD pending doctor's approval. Refer to Item 14.14.	
14.16	Cytotoxic Report File	High customization	This involves data reporting to National Organ Transplant Unit. The agency will send us a request excel listing, which NKF will need to coordinate for additional blood test. Once the patients' blood test is received (currently XML file), user will use this entity to upload Agency excel list and the Lab test XML list, where system will populate/generate a return excel report. user will download the report and send back to agency.	

Item	Title	Complexity	Description	Compliance (Yes/No)
14.17	DC Doctor Roster	Simple customization	Master data setup. System will leverage on this for email sending to respective doctors in charge of the DC.	
14.18	Transplant Waiting List	Simple customization	This is listing generated when we first upload the Agency's file in Item 14.16.	
14.19	Upload NOTU File	NA	obsolete	
14.20	Clinic Schedule	Simple customization	obsolete but may need to migrate the data.	
14.21	Patient Appointment Request	Repeated	Refer to Item 18.15.	
14.22	Appointment List	Repeated	Refer to Item 2.2.	
14.23	KDQOL Score	Repeated	Refer to Item 15.4.	
15	<b>Medical Social Work</b>	Dashboard, Basic Configuration	Dashboard for Medical Social Workers.	
15.1	Contacts	Repeated	Refer to Item 2.1.	
15.2	Application	Repeated	Refer to Item 2.3.	
15.3	Pending ICT Profile	Repeated	Listing of ICT Profiles. Refer to Item 2.1.5.34.	
15.4	KDQOL Score	Simple customization	This is currently just for user to enter the Kidney Quality Of Live scoring after conducting the survey on paper and processing the results in a computed Excel.	
15.4.1		Improvement required - New Patient Portal	We would like to host the survey online, so that patients can access the survey with their mobile phone, with easy "login" eg. OTP with DOB, without exposing patient confidential info online (ie. No nric etc). After the survey is submitted online, system will run the logics (current Excel has embedded formulas across 3 spreadsheets to generate scoring) to auto compute the KDQOL score. This should be a sub-module under a Patient Portal. NKF currently do not have a Patient Portal. Vendor to quote Patient Portal as an Optional Item.	
15.5	MSW Referrals	Repeated	Refer to Item 2.11.	
15.6	OT Referrals	Repeated	Refer to Item 21.4.	
15.7	ENF Referrals	Repeated	Refer to Item 11.7.	
15.8	Patient Financial Review Approval	Repeated	Refer to Item 2.7.	
15.9	HD FFRs	Repeated	Refer to Item 2.8.	
15.10	Patient Welfare Application	Repeated	Refer to Item 2.9.	
15.11	DC Census	Repeated	Refer to Item 2.10.	
15.12	Slot Request	Repeated	Refer to Item 2.5.	
15.13	Patient Termination	Repeated	Refer to Item 2.12.	
15.14	Transport Welfare Monthly Summary Report	Repeated	Refer to Item 2.14.	

Item	Title	Complexity	Description	Compliance (Yes/No)
15.15	MSW Case Management	Medium Customization	Tracking of cases handled by our social worker, include sub modules like Risk and Needs, Case Session Recording, Follow Up Recording, Social Report (as CRM attachment).	
15.15.1		Business logic	MSW Case header entity will facilitate type case lifecycle tracking. Risk and Needs sub entity is like assessment checklist with auto scoring logic. Case Session Recording is assessment with many data entry fields, will create an EMR entry under Allied Health.	
15.15.2		Business logic	Follow up recording - refer to item 2.18.	
15.15.3		Business logic	Social Report is integrated to Scanned Document, where user will upload a file.	
15.16	MSW Routine Assessment	Medium Customization	Note that MSW Case Management and MSW Routine Assessment shares similar modules. The difference is routine assessment is done at fixed intervals (mainly notes taken over whatsapp or phone calls), where the case management is triggered by referral or incidents. Same modules like: Risk and Needs, Case Session Recording, Follow Up Recording, Social Report	
15.17	PD Home Visit Registration	Repeated	Refer to Item 2.1.6.5.	
15.18	Patient On Probation	Repeated	Refer to Item 2.18.	
15.19	Approver Delegation	Repeated	Refer to Item 2.21.	
15.20	Hardship Enabling and Assistance Programme (HEAP)	Business logic	We provide HEAP funding for low income patients who require support on home maintenance/repair, medical support/assistive devices, interim housing needs, funeral expenses, food support for patients with poor food access and etc. Data captures: General info, what type of support required and payment information.	
16	<b>Medical Social Work - AA</b>	Dashboard, Basic Configuration	Dashboard for Medical Social Workers. Scaled down for Admin Assistants.	
16.1	Patient	Repeated	Refer to Item 8.3.	
16.2	KDQOL Score	Repeated	Refer to Item 15.4.	
17	<b>MSW/Arrear Management - PMM</b>	Dashboard, Basic Configuration	Dashboard for Medical Social Workers. With modules specific to Patient Accounting.	
17.1	Contacts	Repeated	Refer to Item 2.1.	
17.2	Patient Ledger Entry	Repeated	Refer to Item 12.38.	
17.3	Monthly Instalment Plan	Repeated	Refer to Item 12.59.	
17.4	Monthly Instalment History	Repeated	Refer to Item 12.60.	
17.5	Posted Deposit/Patient Payment	Repeated	Refer to Item 12.18 and 12.35.	

Item	Title	Complexity	Description	Compliance (Yes/No)
18	Nursing - HD	Dashboard, Basic Configuration	Dashboard for HD nursing.	
18.1	Patient	Repeated	Refer to Item 8.3.	
18.2	Slot Request	Repeated	Refer to Item 2.5.	
18.3	Pending ICT Profile	Repeated	Listing of ICT Profiles. Refer to Item 2.1.5.34.	
18.4	DC Census	Repeated	Refer to Item 2.10.	
18.5	Decant Planning	High customization	Custom UI to allow DC to shift patient attendance from original date to another date (usually Sunday). This is to facilitate DC marking of patient attendance on a different date as all attendance are pre-generated for each day during 4am. Usually decant is on a different day but same DC, but it is possible some scenario DC need to decant to another DC eg. due to 1-2 days renovation. In this decant to other DC scenario, it is possible to split the patients (especially for large DC to decant to small DC) into different DCs.	
18.6	Attendance	High customization	Custom UI to facilitate marking of patient attendance. Every morning 4am, system will generate the patient attendance for user to confirm. This module also has integration with the data received from RPOC systems. (Refer to 25.1 on RPOC). This screen can also display active prescription and facilitate nursing's drug administration process.	
18.6.1	Drug Admin Screen	High customization	Custom UI to facilitate drug administration process. Logics that consolidate the various prescription, and allow nursing to update if drug was administered, or not due, or not given due to special reasons. If drug was administered, to specify if is using NKF or Patient own stock. If using NKF stock will trigger interface to Oracle for inventory update.	
18.6.2		Improvement Required	Currently the system auto compute the quantity administered. This is possible due to all drugs are unique with fixed strength. However, this year 2024 a new scenario arises where eg. Drug A has 2 kinds of stock (2.5mg and 5mg). The current workaround is for a prescription of eg. 7.5mg, doctor/nurse need to prescribe 2 records, one using 2.5mg stock, one using 5mg stock. We need new system to allow nurse to manually specific which stock was used. Meaning, doctor/nurse only need to enter 1 prescription, but during drug administration time, nurse can manually specify (1 unit 5mg and 1 unit 2.5mg) or (3 units 2.5mg).	

Item	Title	Complexity	Description	Compliance (Yes/No)
18.6.3		Improvement Required - Performance issue	Currently we encounter random occurrence, where the Drug Admin screen load very slowly. This is observed with 100% CPU at SQL server. The workaround is urgent maintenance to restart the SQL Service. Root cause is not known, but it is not a straightforward coding/indexing issue, because after the SQL Service restart, the same UI can load very fast (eg. 1-2 sec). There could be some choke point relating to other process or server resource. We need new system to implement a better design. In a Cloud setting, we need vendor to have ability to resolve performance issue promptly.	
18.7	MSW Referrals	Repeated	Refer to Item 2.11.	
18.8	Dietitian Referrals	Repeated	Refer to Item 10.5.	
18.9	OT Referrals	Repeated	Refer to Item 21.4.	
18.10	ENF Referrals	Repeated	Refer to Item 11.7.	
18.11	Prescription - Pending Approval for DC	High customization	Custom UI is required to list the prescription pending approval due to complex filtering logics factoring location, access, doctor in charge, different stages of approval.	
18.12	HVD Prescription - Pending Verification	High customization	Custom UI is required to list the prescription pending verification by DC due to complex filtering logics factoring location, access, doctor in charge, different stages of approval. Double click of the record opens up custom UI EMR screen.	
18.13	HVD Prescription - Pending Completion	Medium customization	The process is similar to 18.12 but this is done via standard CRM view.	
18.13.1		Improvement required	As mentioned above, HVD pending verify and pending complete are similar functions but was designed differently. This was because the module was first built via CRM standard way, but later due to the inclusion of custom UI EMR, we needed to merge the process. We hope during the upgrade, the overall UI/flow can be more streamlined.	
18.13.2		Improvement required	In the beginning, HVD (High Value Drug) process is standalone and only applicable for oral medication. However, one non-oral HVD (termed IV drug) was introduced and disrupted the design/process. NKF is currently on workaround, where the IV drug will be approved under HVD, but DC will separately create under Incentre Prescription. We want the upgrade to include a comprehensive/streamline design that can cater for various scenario.	
18.14	Patient Search	Repeated	Refer to Item 8.4.	
18.15	Patient Appointment Request	Simple customization	Obsolete but may need to migrate to keep data. Patient appointment request listing. This function is for users to submit appointment request for eye screening/ podiatry / wound clinic to Medical Affairs department.	



Item	Title	Complexity	Description	Compliance (Yes/No)
18.16	POCT Acknowledgement	NA	Obsolete	
18.17	HD Sales Invoices	Repeated	Listing. Refer to Item 12.28.	
18.18	HD Patient Payment	Repeated	Listing. Refer to Item 12.18.	
18.19	Pending Attendance Issue Log	Simple customization	RPOC interface error log for DC to self-help resolve. We will need to review this approach with RPOC vendor as the volume of issue log is too big for nursing to manage. Refer to Item 25.1.	
18.20	Pending Treatment Data Issue Log	Simple customization	RPOC interface error log for DC to self-help resolve. We will need to review this approach with RPOC vendor as the volume of issue log is too big for nursing to manage. Refer to Item 25.1.	
19	<b>Nursing - PD</b>	Dashboard, Basic Configuration	Dashboard for PD nursing.	
19.1	Contacts	Repeated	Refer to Item 2.1.	
19.2	PD Application	Repeated	Refer to Item 5.2.	
19.3	PD Beneficiary	Repeated	Refer to item 2.1.6.	
19.4	PD Home Visit Registration	Repeated	Refer to Item 2.1.6.5.	
19.5	Pre-PD Home Visit Assessment	Repeated	To capture Pre_PD home visit assessment. Entry is via PD home visit registration form. Refer to Item 2.1.6.7.	
19.6	PD Home Visit Assessment	Repeated	To capture PD home visit assessment. Entry is via PD home visit registration form. Refer to Item 2.1.6.8	
19.7	PD Appointments	Repeated	PD appointment listing. Entry is via PD home visit registration form for PD appointment scheduling. Refer to Item 2.2.	
19.8	MSW Referrals	Repeated	Refer to Item 2.11.	
19.9	OT Referrals	Repeated	Refer to Item 21.4.	
19.10	Prescription - Pending Approval for DC	Repeated	Refer to Item 18.11.	
19.11	HVD Prescription - Pending Verification	Repeated	Refer to Item 18.12.	
19.12	HVD Prescription - Pending Completion	Repeated	Refer to Item 18.13.	
20	<b>Nursing - PDC</b>	Dashboard, Basic Configuration	Dashboard for PDC nursing.	
20.1	Contacts	Repeated	Refer to Item 2.1.	
20.2	PD Application	Repeated	Refer to Item 5.2.	
20.3	PD Beneficiary	Repeated	Refer to item 2.1.6.	
20.4	MSW Referrals	Repeated	Refer to Item 2.11.	
21	<b>Occupational Therapy</b>	Dashboard, Basic Configuration	Dashboard for Occupational Therapy Department.	
21.1	Contacts	Repeated	Refer to Item 2.1.	
21.2	Application	Repeated	Refer to Item 2.3.	



Item	Title	Complexity	Description	Compliance (Yes/No)
21.3	Triage Assessments - Pending Submission	Repeated	Triage assessment record listings pending for submission. ENF users will create the triage assessment and OT users will review and close the assessment. Refer to Item 2.1.5.27	
21.4	OT Referrals	Medium customization	OT referrals listing and entry. This function is to raise referrals to the occupational therapists for follow up actions.	
21.4.1	Appointment	Repeated	For OT appointment scheduling. Refer to Item 2.2.	
21.4.2	Modified Barthel Index	Simple customization	A scoring assessment to measure performance in activities of daily living and mobility.	
21.4.3	OT Documentation	Simple customization	For capturing OT assessment	
21.4.4	Discharge Summary	Simple customization	Discharge summary from this OT referral.	
21.5	Pending ICT Profile	Repeated	Listing of ICT Profiles. Refer to Item 2.1.5.34.	
21.6	OT Appointments	Repeated	OT appointment listing. Entry is via OT referral form for OT appointment scheduling.	
21.7	ENF Referrals	Repeated	Refer to Item 11.7.	
21.8	DC Census	Repeated	Refer to Item 2.10.	
22	<b>Visiting Doctor</b>	Dashboard, Basic Configuration	Dashboard for Visiting Doctors.	
22.1	DC Census	Repeated	Refer to Item 2.10.	
22.2	Prescription - Pending Approval	Repeated	Refer to Item 14.7.	
22.3	Patient	Repeated	Refer to Item 8.3.	
22.4	PD Beneficiary	Repeated	Refer to item 2.1.6.	
23	<b>Volunteer Management</b>	Dashboard, Basic Configuration	Dashboard for Volunteer Management department.	
23.1	MSW Referrals	Repeated	Refer to Item 2.11.	
24	<b>Admissions - EPF</b>	Dashboard, Basic Configuration	Dashboard for Admissions department to manage Enhanced Portable Funding (EPF) programme. A programme which provides financial assistance to needy patients at private dialysis centres while waiting for placement to NKF HD.	
24.1	HD Application	Repeated	HD application listing. Entry is via contact form. Refer to Item 2.3.	
24.2	EPF Application	Repeated	EPF application listing. Entry is via HD application form. Refer to Item 2.3.3.	
24.3	EPF Beneficiary	Repeated	Contact listing flagged as EPF Beneficiary after 1st approved EPF FFR. Refer to item 2.1.6.	
24.4	EPF FFR	Medium customization	EPF FFR (Financial Fee Review) listing. Entry is via EPF application/ contact form.	
24.5	EPF FFR Monthly Header	Plugin, Console.	EPF FFR by month listing. Auto created either by plugin after approved FFR or monthly console.	

Item	Title	Complexity	Description	Compliance (Yes/No)
24.6	EPF FFR Monthly Summary Report	Repeated	Refer to Item 2.17.	
24.7	EPF Claims	Simple customization	Listing of EPF claims records created upon EPF claims import checking against the EPF FFR Monthly Header records.	
24.8	EPF Claims Import	High customization	Claims are submitted to NKF by private dialysis centers in the form of Excel.	
24.9	EPF Termination	Simple customization, plugin	EPF termination listing. Entry is via contact form to terminate EPF beneficiaries from EPF programme.	
25	<b>System Integration / Batch Jobs</b>		Below listed all system integrations or batch jobs	
25.1	<b>RPOC Integration</b>	Console/Complex	RPOC stands for Renal Point Of Care, this is an internal naming convention. The Dialysis Machine that NKF is using can come from different brands (eg. Fresenius, Bbraun, Gambro, Nipro etc.), each brand has it own system (or solution) that allows transmission of data to and from between machine and system. Each brand named their system differently, where NKF generalize them as RPOC.	
25.1.1	From XML to HL7	Improvement required	Instead of CRM integrating to machine directly, we integrate through the different brands of RPOC. Currently we are using common XML templates for integration, where all RPOC brands need to conform. However, NKF would like to change to HL7 format instead of current XML format. HL7 is an international format for healthcare data integration. By using this format, we hope to have easier and more streamlined integration with different Dialysis Machine vendor.	
25.1.2	SIT with 3 vendors	Additional Effort	As of current writing, NKF is using 3 vendors' machine namely, <b>Fresenius, Bbraun and Nipro</b> . CRM vendor is expected to conduct re-interface with all 3 vendors.	
25.1.3	CRM to RPOC - 1 file outgoing	Interface Requirement	Termed outgoing interface, CRM is sending 1 data type Patient Movement. This allows new patient information to be automatically created in RPOC to facilitate Dialysis Centre onboarding of new patient into RPOC systems.	
25.1.4	RPOC to CRM - 4 files incoming	Interface Requirement	Termed Incoming interface, CRM is receiving 4 data types: <ul style="list-style-type: none"> <li>- Attendance, treatment sessions captured in RPOC</li> <li>- Treatment Plan, the dialysis prescription entered into RPOC</li> <li>- Treatment Data, the treatment data captured in RPOC</li> <li>- Clinical Diary, the notes entered by nurses in the RPOC</li> </ul>	

Item	Title	Complexity	Description	Compliance (Yes/No)
25.2	<b>BCP File Generation</b>	Console/Complex	In case system is down, system will generate 4 operation reports per DC listing important details for DC to continue dialysis in the absence of system. These reports are generated at HQ server, and disseminated through another 3rd party tool that helps to synchronize folders. For a CRM Cloud setting, this batch job can continue to run at NKF onpremise server, to generate the same reports and leveraging on the existing 3rd party sync too.	
25.3	<b>Lab Interface</b>	Console/Complex	Patient blood test is sent to lab vendor, the result is sent back to NKF via SFTP. We are currently working with 2 lab vendors supporting HD programme.	
25.3.1	From XML to HL7	Improvement required	Currently we are using XML format for integration, where all lab vendors need to conform. However, NKF would like to change to HL7 format instead of current XML format. HL7 is an international format for healthcare data integration. By using this format, we hope to have easier and more streamlined integration with different lab vendors	
25.3.2	SIT with 2 vendors	Additional Effort	As of current writing, NKF is using 2 lab vendors, CRM vendor is expected to conduct re-interface with both vendors.	
25.3.3	Lab to CRM - 3 files incoming	Interface Requirement	Termed Incoming interface, CRM is receiving 3 data types: - Lab 1, consist of main lab data, there is logic that each dialysis session will receive 2 files which CRM need to merge. reason being blood specimen would be taken pre-dialysis and post-dialysis, but the results need to present as 1 record. - Lab 2, consist of Virology data - Lab 3, consist of PRA data	
25.4	<b>Oracle Interface - Inventory</b>	Console/Complex	To interface CRM Drug Consumption to automatically minus stock (inventory) at Oracle side. As CRM allows DC to make amendments, the interface also supports "adding back" stock. This is done via text file for SFTP to Oracle on hourly/daily basis.	
25.5	<b>Oracle Integration Setup Interface File Generation- AR/AP</b>	Console/Workflow assembly	To interface AR/AP data under PMM (Patient Management Module) to Oracle. The data sent are aggregated, meaning we do not send per invoice per patient, we send the total per category. Categories like Total Charge, Total MOH Subvention, Total Insurance, Total Payment etc. We send this monthly after billing process has been completed.	
25.6	<b>NEHR Interface</b>	Console/Complex	NKF contributes data to our National EHR System (NEHR). Requirement is 9 web API to integrate at the moment (7 api is at UAT stage with Synapse as of this writing, 2 more could be done in current system).	

Item	Title	Complexity	Description	Compliance (Yes/No)
25.6.1	SIT with NEHR (Synapxe)	Additional Effort	As a national system, the process for re-integration is expected to be more time consuming. Contractor is expected to optimize project schedule to run this track alongside the main project. The strategy is to try to reuse the existing program to minimize change between NEHR and NKF.	
25.7	<b>Annual HPB data submission</b>	Console/Complex	Generate a report for data submission. Currently we have only sql scripts to extract data and manual mapping if data was incorrect. Vendor need to improve console program for that.	
25.8	<b>Annual Data Anonymization</b>	Console/Complex	Every year we need to run this to de-identify data that has passed the retention period. program can mark the patient who is more then 6 years and above terminated in system.	
26	<b>Scanned Document</b>	File Server	Our current solution for scanned document is via a File Server. Each patient will have a unique folder, and within the folder will have subfolders to further segregate based on document type.	
26.1		Windows Application	We have scanning program (Windows Application) deployed in all our Dialysis Centres to allow nursing to scan patient documents into the File Server as PDF file. The scanning program is integrated with a scanner connected via USB to the scanning terminal.	
26.2		Web API	The patients' scanned folder is further integrated through web api to connect to CRM application. At CRM, user can view the PDF files or upload PDF files directly.	
26.3		Security	The File Server is restricted access and user will navigate the document over web from CRM application.	
26.4		Improvement Required	Vendor to propose a document management solution that integrates with CRM and also allow user to scan hardcopies through a scanner, and/or to upload PDF directly to patient folder. Allow DC manager to have access to delete files if scanned wrongly.	
27	<b>EMR (Electronic Medical Records)</b>	Custom UI	As CRM default UI is not optimized for doctor/nurse review of patient's medical information, our current solution is a custom UI leveraging on bootstrap library "Sencha". The custom UI will leverage on CRM as a database. The current performance of EMR UI is slow, so we require Vendor to implement a more light weight solution that is not dependant on third party addon/bootstrap. Using out-of-box UI is encouraged but if the need arises vendor to implement custom screen too.	
27.0.1		Business logic	The header of the EMR UI will display key information like, patient name/nric, gender, DOB, Joined Date, Primary Hospital,	

Item	Title	Complexity	Description	Compliance (Yes/No)
			Primary Doctor, Programme Type (HD/PD etc), Infection Status and DC/Day/Shift.	
27.0.2		Improvement required	If the system upgrade has a better UI than current CRM 2015, potentially we would want to revert to using more OOTB (Out of the box) design to minimize custom UI. Otherwise to continue as custom UI but make it faster and better.	
27.1	EMR - Medical Review	Custom UI	For doctor to review patient's latest blood test results, and to enter doctor's notes and instruction. Data is stored in CRM with entity of the same name.	
27.1.1		Improvement required	Currently doctor need to open multiple windows (to and fro) between this screen, and other screen to see other information (eg. Treatment data, reports, prescription). We hope the design can be improved to minimize the need for doctor to open multiple windows while doing their medical review. there is also the risk that opening multiple window may accidentally be looking at a wrong patient's window.	
27.2	EMR - Clinical Diary	Custom UI	This is where doctors and nurses will collate their notes. Doctor's entry (remarks fields) under Medical Review will be summarized here. Nursing notes entered in the RPOC systems will be integrated and display here too. Lastly, this screen also allows doctor/nurse to enter new clinical notes if require. Data is stored in CRM with entity of the same name.	
27.3	EMR - PD Regime	Custom UI	PD Regime is the "instruction or setting" for PD treatment. Currently nursing is updating the data in CRM forms, while the EMR displays the data to doctors as info only. In system upgrade, data entry to be streamlined if possible.	
27.4	EMR - HD Treatment Plan	Custom UI	HD Treatment Plan is the "instruction or setting" for HD treatment. Based on doctor's instruction, nurse will setup the dialysis machine accordingly, this setup is termed Treatment Plan. The data is sync over from RPOC systems to CRM. It is displayed here in EMR for doctors to central review. And also, to populate Vaccination records from CRM to display here.	
27.5	EMR - Dialysis Treatment	Custom UI	Treatment data is sync over from RPOC systems. The data is displayed in EMR as readonly. User can double click the record to open in report format. There are 2 interactive/trending diagrams embed in this screen: First diagram is a trending of patient's pre and post weight, weight gain, over time; Second diagram is a trending of patient's blood pressure and Pulse over time. ("Interactive" as in user can click on the Legend to show/hide parameters).	

Item	Title	Complexity	Description	Compliance (Yes/No)
27.6	EMR - Medical Prescription	Custom UI	NKF medical prescription is split into 5 types: In Centre Medication, Printed Prescription, High Value Drug (HVD), STAT Dose Medication and Hospital Medication. The function includes, order/submit, approve, and endorse (if pre-approved over other channels). For HVD requires additional Verification and Approval by Medical Director. It also require Printed Prescription function for all the 5 types.	
27.6.1		Improvement required	Each of the 5 types are currently designed as separate process. However, due to change in scenario, some process started to overlap. Currently we are adopting workaround solution, we expect the new system upgrade to adopt a more streamlined and balanced solution.eg. HVD used to be Oral only, where we dispense to patient to self administer, but a new HVD was introduced and needed nursing to administer in-centre. eg. NKF used to carry medication with single strength. Thus the consumption is based on multiples of the base strength. However, recently we brought in same medication with higher strength, these are 2 separate items by inventory concept, but need to be ordered as one medication. So system upgrade need to handle allowing nurse to select which item(s) was used to automatically update the inventory at Oracle. (also see Drug Admin screen item 18.6.2)	
27.7	EMR - Medical Administration	Custom UI	Just a history listing of medication administered, group by Drug Name and Frequency. Data is entered via another custom UI termed "Attendance-Drug Admin". See item 18.6.	
27.8	EMR - Allergy	Custom UI	Just a listing of Allergy. Data is entered via CRM form under patient profile.	
27.9	EMR - Biochemistry	Custom UI	Just a page to generate a report. Biochemistry report is a complex report that is accessible in a few areas.	
27.10	EMR - Blood Analysis	Custom UI	3 trending charts and 1 listing. The trending charts are: Haemoglobin Monitoring Chart, Serum Calcium Monitoring Chart, Blood Sugar Monitoring Chart. Note our current Medical Director may want to add or change some charts to make it more relevant and useful to doctors.	
27.11	EMR - Access	Custom UI	Access means Vascular Access. This is a listing, when double click on the list item will open up in CRM form to show details. This also shows 1 trending chart termed Access Monitoring Chart, based on the data entered by user in CRM form under Vascular Access module. see item 2.1.5.16	
27.12	EMR - Problem List	Custom UI	This is a listing where data is pulled from Medical Condition. See item 2.1.5.8.	



Item	Title	Complexity	Description	Compliance (Yes/No)
27.13	EMR - Hospitalization	Custom UI	This is a listing where data is pulled from Hospitalization Event. See item 2.1.5.21. Based on the Date of Admission, if there is a Discharged Summary scanned into scan folder with the same Date, this UI will provide a shortcut for doctor to view the scanned pdf.	
27.14	EMR - Allied Health	Custom UI	Listing of modules Nutritional Assessment (see item 2.1.5.30), OT Documentation (see item 21.4.3) and other consolidated assessment through the common entity Appointment (see item 2.2.2). When double clicked record, will open the CRM form where for Nutritional and OT will open the CRM form with Summary View. (we leverage on OOTB feature to create a simplified form).	
27.15	EMR - ICT Care Plan	Custom UI	Listing of ICT Profiles. Refer to Item 2.1.5.34. And listing of KDQOL Score. Refer to item 15.4	
27.16	EMR - Scanned Document	Custom UI	To list and allow viewing of PDF files. See item 26	
28	<b>Optional Items</b>	NA	Below are items which we wish to explore, vendor to provide them as a separate all-in cost as option to purchase.	
28.1	<b>Patient Portal</b>	Custom UI	We are exploring patient portal to support the following functions	
28.1.1		Business logic	Allow new patient to submit their NKF application online, with interface to national MyInfo/SingPass to draw patient's information to preload the form. To allow patients to submit supporting documents online. Currently the process via paper submission.	
28.1.2		Business logic	Patients can login to monitor their application status.	
28.1.3		Business logic	Patients can login to see their patient scorecard. Currently NKF is embarking to formulate and distribute patient scorecard so that patients can take more control of their health by having more visibility on their treatment progress. We are still in requirement gathering and not confirm yet if we will integrate to CRM. But most data would be drawn from CRM.	
28.1.4		Business logic	Patient can login to the portal to participate their KDQOL survey and see their past results. (note KDQOL is an existing module but we are capturing the final score only. See more details in item 15.4.	

Item	Title	Complexity	Description	Compliance (Yes/No)
28.2	<b>Doctor Portal</b>	Custom UI	In NKF, most of our DC doctor service are outsourced. We address them as "Visiting doctors". These are doctors from hospitals or private clinics, that will routinely do rounding at dialysis centers. Currently, we provide iPad to them with VPN/Terminal software so they can access CRM/EMR to review patient, prescribe and approve prescriptions. If the new system is in cloud, and with the main system whitelist to NKF traffic only, vendor to propose if Visiting Doctors could still access system via: - internet (eg. via their mobile phone or laptop). - or, existing iPad/VPN. - or, PowerApps mobile app. - or, Doctor Portal so they may have limited access but can conduct the doctor functions as described below:	
28.2.1		Business logic	Doctor to view patient EMR.	
28.2.2		Business logic	Doctor to view/create medical assessment.	
28.2.3		Business logic	Doctor to prescribe or approve prescription. Bulk approve function is required to ease doctor's workload.	
28.3	<b>Screening Clinic</b>	Custom UI	NKF provides health screening to high risk groups. This is to replace our current Clinic System, which we subscribe "off the shelf". It is a standard Clinic (ie. GP) system but there are a lot of limitation, which is why NKF is exploring to build into our CRM. Features as follows:	
28.3.1		Business logic	Appointment booking and management system, with interface to national MyInfo/SingPass for data pre-fill. Appointment booking requires participant to accept terms and conditions.	
28.3.2		Business logic	SMS reminder of upcoming appointments	
28.3.3		Business logic	EMR of participants (to reuse the same EMR screen for our patients, or simplified version)	
28.3.4		Business logic	Room management. There are various "stations" during this screening, nursing assessment, doctor consultation, exercise & fitness assessment, dietetic consultation. So we hope the system has a function where we can check patient queue, which station completed, can route patients to available rooms.	
28.3.5		Business logic	Assessment modules as per each of the domain (nurse, doctor, E&F, Dietetics).	

Item	Title	Complexity	Description	Compliance (Yes/No)
28.3.6		Interface Requirement	Lab (blood) test. To leverage on main CRM's lab interface. Note the lab vendor might be another third vendor but we will request for the same HL7 interface (previous section we mentioned 2 vendors are supporting our 40DCs). The current subscribed Clinic System can only integrate lab result in form of PDF file which is not optimized for data trending.	
28.3.7		Business logic	Data will integrate to main CRM so that we can track a patient's history with us since the early screening time. A management wishlist is to be able to leverage on this data to determine if such screening intervention has delayed a patient from entering End Stage Renal Disease.	
28.3.8		Business logic	Since these are not NKF patients, we need to manage the data security carefully, so that only the departments supporting the clinic can see these data.	
28.3.9		Business logic	Participants of this health screening will need to take part in simple survey.	
28.3.10		Reporting logic	Reports to assist department in reviewing and management reporting on effectiveness on the screening.	
28.4	<b>AIC Referral integration</b>	Interface Requirement	AIC has a referral system where doctors from hospitals can refer patients to step-down care like NKF. We have not commence interface yet due to low adoption from hospitals. If this can be done, and assuming all referrals come through this system, data can be auto populate from this referral system. This may overlap with the function in Patient portal where we want to allow patient to submit application online. The AIC system requires institutions (eg. NKF) to pass back the referral outcome too. It is a web api interface.	
28.4.1		Interface Requirement	NKF IT does not have experience on this interface, but based on the specification from AIC Referral portal, we foresee it requires the following api calls: <ul style="list-style-type: none"> <li>- Get Patient Info</li> <li>- Get Referral Info</li> <li>- Get Medical Info</li> <li>- Push Referral Outcome</li> </ul>	
29	<b>Report listing</b>	NA	Below are the listing of reports that are currently in the system. There may be reports that are obsolete but for completeness vendor can quote for the full listing. There should be a process of reviewing the reports either before the actual tender or as part of the project implementation.	
29.1	CLS001 - Patient Transfer Listing	Simple report	Listing of transfer request with status	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.2	CLS002 - Monthly Patient Hospital Application	Simple report	Listing of patient programme application results group by hospitals	
29.3	CLS003 - Biochemistry Report - actual filename - CLS003 - Data Flow Sheet (By DC)	Complex report	Pulling data from multiple sources, and some field calculations, and displaying a patients' treatment cum lab data in a dashboard view per patient	
29.4	CLS004 - Lab Data	Simple report	Listing of patient lab result with some computation.	
29.5	CLS005 - Lipid Data Report	NA	Obsolete as NKF has stopped Lipid testing.	
29.6	CLS006 - General Info Report	Simple report	Listing of patients' info like demographic, application status, placement assessment status, DC info (based on patient's current location).	
29.7	CLS007 - Clinical Data Report	Simple report	Listing of info like patient demographic, application status, treatment data, DC info (based on treatment data captured location).	
29.8	CLS008 - Vascular Access Report	Simple report	Listing of info like patient demographic, vascular access details, DC info (based on patient's current location).	
29.9	CLS009 - Infection Data Report	Simple report	Listing of info like patient demographic, vascular access infection details, DC info (based on patient's current location).	
29.10	CLS010 - Intervention Data Report	Simple report	Listing of info like patient demographic, vascular access infection details, DC info (based on patient's current location).	
29.11	CLS011 - Virology & Serology Report	Simple report	Listing of info like patient demographic, viro/sero details, DC info (based on patient's current location).	
29.12	CLS012 - Hospitalisation Event Report for DC	Simple report	listing of hospitalization event	
29.13	CLS013 - Drug Consumption	Simple report	Listing of drug consumed group by patient, drug name.	
29.14	CLS014 - Outlier Reports - actual has 2 files named - CLS014 - Outlier Detail - CLS014 - Outlier Report Details	Complex report	This is a report where user can choose a criteria (eg. Patient with CA0 < 8.8), and report will list out patients fulfilling the criteria. There are currently 41 criterias.	
29.15	CLS015 - Quarterly Statistical returns on HD/PD from VWO DCs	Complex report	Quarterly statistical reports to MOH reporting on patient counts, utilisation of HD stations and waiting time for admissions.	
29.16	CLS016 - DC Census Vacancies	Complex report	Statistical report of DCs summary (capacity, occupied, vacant etc)	
29.17	CLS017 - DC Summary Figure	Complex report	Statistical report of patient movement for DCs	
29.18	CLS018 - Active Patient Report	Complex report	Statistical report of active patients, by sex, income, age group, race.	
29.19	CLS019 - NKF Management Report	Complex report	Statistical report of past 2 months patient counts by application status and DC capacity by Zones.	
29.20	CLS020 - NKF Dialysis Centre Medical Review	NA	This is a template report printed for doctor paper review. Should be obsolete following EMR module.	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.21	CLS021 - Patient Termination List	Simple report	Listing of patients discharged filtered by date range, Programme Type, Patient Name. Also used by DVM department.	
29.22	CLS022 - Patient Details	Simple report	Listing of patients' info like demographic, patient status, DC info (based on patient's current location), income details	
29.23	CLS023 - Patient Dialysis Sessions	Simple report	Listing of dialysis sessions	
29.24	CLS024 - DC Census	Medium report	Listing of patients with their allocated slots, HD subset report printable from DC Census screen at 2.10.	
29.25	CLS025 - Patient Medical Review	Simple report	Listing of medical reviews	
29.26	CLS026 - PD Patients List	Simple report	Listing of PD patients	
29.27	CLS027 - New Patients for Specified Period	Simple report	Listing of new patients for specified period.	
29.28	CLS028 - Placement Assessment	Simple report	Printout for one assessment	
29.29	CLS030 - Patients Profile - Details and Summary (CP)	NA	Obsolete	
29.30	CLS031 - Patient Barcode Label - with Hospital Name	Simple report	4x10 label printing with patient name, nric, barcode for nric, dialysis centre code, citizenship, gender, DOB and age with hospital code.	
29.31	CLS032 - Nursing Assessment Data	Simple report	Listing of nursing assessment based on date range.	
29.32	CLS033 - PD Questionnaire Survey Data	NA	Should be obsolete. No data since 2020. To confirm with PD if module still required.	
29.33	CLS034 - PD Analysis Summary Report	NA	Should be obsolete. No data since 2020. To confirm with PD if module still required. Relating to survey.	
29.34	CLS035 - DC Stations Utilisation Rate	Complex report	statistics report to count by DC, their current capacity, utilized slots, utilization rate %, and patients on waiting listing.	
29.35	CLS036 - Capacity Status	Complex report	statistics report to summarize at NKF level, all Day/Shift vs slot type/status, occupied vs reserved vs emergency vs available slots. With occupancy rate %.	
29.36	CLS037 - Pending DC Slot for Applicants	Simple report	listing of applicants that are pending dc slots	
29.37	CLS038 - Monthly Net Increase in Patients	Simple report	summary of how many admissions, how many exits, and net increase for the chosen month.	
29.38	CLS039 - Medical Fitness Report	NA	obsolete as ENF is now simplified to using Appointment for ENF updates. No more tagging of MFG.	
29.39	CLS040 - NKF Dialysis Centre Clinical Review	NA	should be obsolete after we implemented EMR. This is a template (checklist) review form that facilitate printing out for paper review of patient.	
29.40	CLS041 - Nursing Assessment Report	Simple report	Printout for one assessment	
29.41	CLS042 - Questionnaire on Peritoneal Dialysis	NA	Should be obsolete. No data since 2020. To confirm with PD if module still required.	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.42	CLS043 - Pre-Placement Nutritional Assessment Memo	NA	Should be obsolete. No data since 2020. To confirm with PD if module still required.	
29.43	CLS044 - Pre-Placement Nutritional Assessment Report	NA	Should be obsolete. No data since 2020. To confirm with PD if module still required.	
29.44	CLS045 - Pre-Placement Social Assessment Report	NA	Obsolete	
29.45	CLS047 - Medical Review Fail Rejection Letter	Simple report	letter printout - to review if still required	
29.46	CLS048 - Means Test Fail Rejection Letter	Simple report	letter printout - to review if still required	
29.47	CLS049 - PAC Fail Rejection Letter	Simple report	letter printout - to review if still required	
29.48	CLS050 - Applicant Withdrawal Letter	Simple report	letter printout - to review if still required	
29.49	CLS051 - Medical Nutrition Assessment Memo	Simple report	single page report - to review if still required	
29.50	CLS052 - Medical Nutrition Assessment Report	Simple report	single page report - to review if still required	
29.51	CLS053 - Post-Placement Social Assessment Report	NA	Obsolete	
29.52	CLS054 - Coping Abilities (Post)	NA	Obsolete	
29.53	CLS055 - Referral Letter - actual filename - CLS055 Vascular_Surgeon_Letter	Complex report	referral letter to hospital (vascular surgeon) containing patient medical data from various table	
29.53.1	CLS055a - Referral or Memo	Complex report	referral letter to hospital (general) containing patient medical data from various table	
29.53.2	CLS055b - Biochemistry report	Complex report	patient lab info report as supporting document to the above referral letter.	
29.53.3	CLS055 - Sub-Active Medication List	Complex report	sub report of referrer letter	
29.53.4	CLS055 - Sub-Patient Flow Sheet	Complex report	sub report of referrer letter	
29.54	CLS056 - Patient Condolence Letter	Simple report	letter printout	
29.54.1	CLS056P - Patient Condolence Letter	Simple report	letter printout for PD	
29.55	CLS057 - Patient Transplant Letter	Simple report	letter printout	
29.56	CLS058 - Patient Withdrawal Letter	Simple report	letter printout	
29.57	CLS059 - Patient Termination Letter (Medical Reason)	Simple report	letter printout	
29.58	CLS060 - Patient Termination Letter (NKF-Non Compliance)	Simple report	letter printout	



Item	Title	Complexity	Description	Compliance (Yes/No)
29.59	CLS061 - Patient Termination Letter (Fail Means Test)	Simple report	letter printout	
29.60	CLS062 - MSW Referral	Simple report	single page report - to review if still required	
29.61	CLS063 - User Summary Report	Simple report	vendor to apply average (small change on top of default user summary report) - Report to show all CRM users account, Department and their associated Security roles.	
29.62	CLS064 - Medication Label	Simple report	letter printout	
29.63	CLS065 - HVD Prescription Summary (Patients)	Simple report	statistic summary DC vs Drug, count of patient	
29.64	CLS066 - HVD Prescription Summary (Drugs)	Simple report	statistic summary DC vs Drug, count of drug qty	
29.65	CLS067 - MOHReport	Simple report	listing report	
29.66	CLS068 - HVD Prescription Report	Simple report	listing report	
29.67	CLS069 - HVD Prescription Billing Report	Simple report	listing report	
29.68	CLS070 - Outlier Summary Table 1	Complex report	Statistics report.(related to CLS014)	
29.69	CLS071 - Outlier Summary Table 2	Complex report	Statistics report.(related to CLS014)	
29.70	CLS072 - Long Term Hospitalisation	Simple report	listing report	
29.71	CLS073 - Vascular Access Report	Simple report	listing report	
29.72	CLS074 - Vascular Access Summary Report	Simple report	statistic report	
29.73	CLS075 - Hepatitis Patients (Virology and Serology Blood Test Status) Report	Simple report	statistic report	
29.74	CLS076 - List of Patients without Virology Test Results	Simple report	listing report	
29.75	CLS077 - MDRO Infection Surveillance Report	Simple report	listing report	
29.76	CLS078 - MDRO Infection Surveillance Summary	Medium report	statistics format A - to review which version to keep	
29.77	CLS078 - MDRO Infection Surveillance Summary Report	Medium report	statistics format B - to review which version to keep	
29.78	CLS079 - Isolation Event Report	Medium report	listing of isolation event based on attendance. Link direct to ssrs for elevated access.	
29.79	CLS080 - Isolation Summary by Isolation Reasons	Medium report	statistic report. Link direct to ssrs for elevated access	
29.80	CLS081 - Hospitalisation - Fever	Medium report	statistic report	

Item	Title	Complexity	Description	Compliance (Yes/No)
	and Infection Related Report			
29.81	CLS082 - ILTC Billing Report	Simple report	listing report	
29.82	CLS083 - Medical Assessment Details	Simple report	show result for 1 patient, direct to SSRS report for elevated access.	
29.83	CLS084 - Current Medical Status	Simple report	listing report	
29.84	CLS085 - HD Admissions Intake Form	Simple report	single page report	
29.84.1	CLS085 - Attendees (subreport)	Simple report	sub report for main report	
29.85	CLS086 - DC Census Print All DC	Complex report	patient to chair layout report	
29.85.1	CLS086 - Subreport3	Simple report	sub report for main report	
29.85.2	CLS086 - Subreport4	Simple report	sub report for main report	
29.86	CLS087 - Vascular Access Detailed Report	Simple report	listing report	
29.87	CLS088 - Patients Vaccination History	Simple report	listing report	
29.88	CLS089 - Fall Risk Assessment Summary and Details Report	Complex report	Listing of patient who have fall risk with next due date (total number of count patient in summary) and detail list without incompleted result	
29.89	CLS090 - Incomplete Fall Risk Assessment Report	Simple report	Listing of patient who have fall risk but incompleted result only	
29.90	CLS091 - Patients on Transplant Waiting List	Simple report	listing report	
29.91	CLS092 - Exception Report - NOTU List Vs Transplant Waiting List Master	Simple report	listing report	
29.92	CLS093 - Patients on Current Transplant Waiting List	Simple report	listing report	
29.93	CLS094 - Exception Hospital Report	Simple report	listing report	
29.94	CLS095 - Cytotoxic Test Results Report	Simple report	listing report	
29.95	CLS096 - PRA Results Exception Report	Simple report	listing report	
29.96	CLS097 - Dialysis Report Chart	Complex report	single page report on treatment data	
29.96.1	CLS097 - Dialysis Report Chart (Terminated)	NA	clone from main report. single page report on treatment data for discharged patient (workaround report for doctor post mortem review, need to check with MAF if still in use as EMR enhanced to show discharge patient also.)	
29.97	CLS098 - Radiometer Reading	NA	obsolete	
29.98	CLS099 - Latest Acuity Status Summary Report	NA	obsolete	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.99	CLS100 - Summary of Welfare Beneficiaries	Complex report	Report to show all Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center and Statuses. Can be filtered by Type of Assistance, DC (and Day/Shift), Welfare Application Status	
29.100	CLS101 - Transport Assistance - EZ-Link Report	Simple report	Report to show all EZlink Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center. Can be filtered by DC, Welfare Application Statuses.	
29.101	CLS102 - Transport Assistance - Taxi Report	Simple report	Report to show all Taxi Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center. Can be filtered by DC, Welfare Application Statuses.	
29.102	CLS103 - Transport Assistance - Van Report	Simple report	Report to show all Van Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center. Can be filtered by DC, Welfare Application Statuses, MT dates, FFR dates.	
29.103	CLS104 - Transport Assistance - Ambulance Report	Simple report	Report to show all Ambulance Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center. Can be filtered by DC, Welfare Application Statuses, MT dates, FFR dates.	
29.104	CLS105 - Welfare Termination List	Simple report	Report to show all Welfare memo, Welfare amount, period of Welfare assistance, Dialysis Center. Can be filtered by Termination Date and Type of Assistance.	
29.105	CLS106 - Welfare Assistance Report with SMF (Senior Mobility Fund)	NA	(obsolete) no more SMF. Now we are using MOH Transport Subvention	
29.106	CLS107 - Welfare Application Status	Simple report	Statistical Report. Summary Report to show No of Patients against each Type of Assistance. Can be filtered by Period of Assistance and Type of Assistance.	
29.107	CLS108 - Welfare Record Status	Simple report	Statistical Report. Summary Report to show No of Patients against each Welfare Record Status (Active, Inactive, Terminated, Expired). Can be filtered by Period of Assistance and Type of Assistance.	
29.108	CLS109 - New Approved Welfare Applications	Simple report	tatistical Report. Breakdown of No of Patients approved welfare, group by Type of Assistance. Can be filtered by Period of Assistance and Type of Assistance.	
29.109	CLS110 - Welfare Beneficiaries - Monthly Breakdown Report	Complex report	Statistical Report. Breakdown of welfare for a FY. Can be filtered by FY, Type of Assistance.	
29.110	CLS111 - Number of Welfare Applications By Staff	simple report	Simple statistical Report as per title.  Breakdown of welfare submitted for a month. Can be filtered by welfare Application Statuses (Partial Approved, Pending Approval, Approved, Rejected), Type of Assistance. welfare submission month.	
29.111	CLS112 - HD Application Status	NA	obsolete - cannot be found	
29.112	CLS113 - Lab Data Result	NA	obsolete - cannot be found	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.113	CLS114 - Patient Right Sited Report	Simple report	listing report	
29.114	CLS115 - Drug Preparation Report	Medium report	listing report on active prescription	
29.115	CLS116 - Summary of Drug Administered	Simple report	listing report	
29.116	CLS117 - Dietitian's Review	Simple report	print report	
29.117	CLS118 - Annual Nutrition Assessment	Simple report	print report	
29.118	CLS119 - CEP Summary	NA	obsolete module	
29.119	CLS120 - List of Patients with expiring Medical Fitness Review	NA	obsolete module	
29.120	CLS121 - Patients with CEP Details	NA	obsolete module	
29.121	CLS122 - Summary of Patients under CEP	NA	obsolete module	
29.122	CLS123 - Patient Dialysis Session (CLA)	Simple report	listing report for MAF	
29.123	CLS124 - Patients without CEP Details	NA	obsolete module	
29.124	CLS125 - Sero Conversion	Medium report	listing compare data before and after change	
29.125	CLS127 - Patient details containing episodes	Medium report	listing report	
29.126	CLS128 - Dialysis Flow Sheet	Simple report	listing report	
29.127	CLS128a - Dialysis Treatment Duration	Simple report	listing report	
29.128	CLS129 - Treatment Plan Change Log Report	Medium report	listing report comparing changes	
29.129	CLS130 - Patient Welfare Application Report	Medium report	printout for entity	
29.130	CLS131 - Patient Dialysis Summary Report	Complex report	listing of attendance compare against treatment data to help DC do monthend reconcile for billing.	
29.131	CLS131a - Patient Dialysis Summary Report (Vendor)	Simple report	listing of attendance for vendor to track usage for DCs under pay per treatment. (clone of CLS131 but removed unnecessary columns)	
29.132	CLS132 - Medical Review Report for EMR	Simple report	report printout	
29.133	CLS133 - Decanting Patient List - Incoming	Simple report	listing	
29.134	CLS134 - Decanting Patient List - Outgoing	Simple report	listing	
29.135	CLS135 - Letter of Transport Assistance	Simple report	letter	
29.136	CLS136 - Active IV Drugs for manual drug administration	NA	obsolete as now drug admin is enter to system	
29.137	CLS137 - Patient Movement Report	Complex report	listing of patient movement. Link direct to SSRS for elevated access.	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.138	CLS138 - OT KPI Statistics Report	Complex report	statistics report for OT KPI	
29.139	CLS139 - OT Referral Detailed Report	Simple report	listing	
29.140	CLS140 - OT Discharged Statistics Report	Medium report	statistics	
29.141	CLS141- Patient Self Withdrawal Letter	Simple report	letter	
29.142	CLS143 - New Patients for Foot Screening	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.143	CLS144 - Patients Due for Foot Screening	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.144	CLS145 - Patients with Foot Screening overdue OR not done on time	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.145	CLS146 - Diabetes Foot Screening And Risk Stratification Report	Complex report	report printout with diagrams. No data since 2020 but nursing is bringing this back.	
29.146	CLS147 - Patient Appointment Requests	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.147	CLS148 - Podiatry Clinic Attendance	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.148	CLS149 - Eye Screening Clinic Attendance	Simple report	listing. No data since 2020 but nursing is bringing this back.	
29.149	CLS150 - Monthly Diabetic Statistic Report	Complex report	annual statistics report. No data since 2020 but nursing is bringing this back.	
29.150	CLS151 - Podiatrist Assessment Form	Simple report	report printout. No data since 2020 but nursing is bringing this back.	
29.151	CLS152 - Drug Administration Report	Simple report	listing	
29.152	CLS153 – Overall CEP Detail	NA	obsolete module CEP	
29.153	CLS154 - POCT Trending Report	NA	obsolete module POCT	
29.154	CLS155 - Vascular Access Monitoring Chart Report	Complex report	Report with Chart. Print from EMR	
29.155	CLS156 - Clinical Diary Report	Simple report	listing. Print from EMR	
29.156	CLS157 - Doctor's Visit Log	Simple report	listing	
29.157	CLS158 - Daily Attendace Summary	Simple report	simple statistic report listing, during upgrade to review who is still using as the data still showing Navision old cost centre code.	
29.158	CLS159 - HD applicant Barcode Label	Simple report	4x10 label printing with patient name, nric, barcode for nric. Similar to CLS031 but with lesser info since is at applicant stage.	
29.159	CLS160 - PD applicant Barcode Label	Simple report	4x10 label printing with patient name, nric, barcode for nric. Similar to CLS159 but is for PD	
29.160	CLS161 - CLO Dialysis Session (Consumption) Report	Simple report	listing of attendance. Still in use.	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.161	CLS165 - List of New Patients Due for Nutrition Screening Report	Simple report	Listing.	
29.162	CLS166 - HD Patient Probation Confirmation Letter	Simple	vendor to apply average - Mail Merge report. It's a pre-defined letter which is printed within Patient's Patient Probation record.	
29.163	CLS167 - KDQOL Score Report	Simple report	Listing of patient who have KDQOL score based on criteria date.	
29.164	CLS168 - ICT Profile	Simple report	report printout	
29.165	CLS169 - ICT Assessment Report	Simple report	aggregate count summary report	
29.166	CLS171 - Pneumococcal Vaccination Patient Report	Simple report	aggregate count summary report	
29.167	CLS172 - Hep-B Non-Responder Vaccination Patient Report	Simple report	Listing.	
29.168	CLS173 - Conservative Care Report	Simple report	report printout	
29.169	CLS174 - KRSR Summary Report	Simple report	aggregate count summary report	
29.170	CLS175 - KRSR Feedback Form Summary Report	Simple report	survey summary report, listing.	
29.171	CLS176 – Medical Nursing Review Summary Report	Simple report	Listing.	
29.172	CLS179 - Fall Risk Assessment (Modified Morse Fall Scale)	Simple report	report printout	
29.173	CLS180 - Conservative Management	Simple report	report printout	
29.174	CLS180a - Conservative Management	Simple report	Listing.	
29.175	CLS181 - HDHD Patient Listing	Simple report	Listing.	
29.176	CLS182 - Diabetes Mellitus Foot Report	Simple report	Listing. Need to review report for filtering and masking.	
29.177	CLS201 - Home Visit Registration	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.178	CLS202 - Pre-PD Home Visit Assessment	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.179	CLS203 - Home Visit Assessment	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.180	CLS204 - PD Problem List	Simple report	Listing.	
29.181	CLS205 - PD Practice and Knowledge Assessment (Summary)	Simple report	Listing.	
29.182	CLS206 - Diabetic Foot Screening	Simple report	Listing.	
29.183	CLS207 - Subjective Global Assessment	Simple report	Listing.	
29.184	CLS208 - Peritonitis & Exit Site Infection	Simple report	Listing.	



Item	Title	Complexity	Description	Compliance (Yes/No)
29.185	CLS209 - Latest Record Only	Medium report	combination of the above 5 reports but show latest data each section.	
29.186	CLS210 - Forms with History	Medium report	report printout	
29.187	CLS211 - Home Visit Assessment due Date Report	Simple report	Listing.	
29.188	CLS212 - Home PD Service	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.189	CLS213 - Home Assisted PD	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.190	CLS215 - PD Practice and Knowledge Assessment	Simple report	report printout. System has 2 report rdl, to migrate the latest version.	
29.191	CLS216 - PD Beneficiary Barcode Label	Simple report	4x10 label printing with patient name, nric, barcode for nric. Similar to CLS031 but for PD.	
29.192	CLS220 - Home PD Support Initiation for PD Applicants	Simple report	Listing.	
29.193	CLS221 – Home Visit Assessment List	Simple report	Listing.	
29.194	CLS223 - PD Outpatient Clinic Notes - Individual	Simple report	report printout	
29.195	CLS225 – PD FFR Details	Simple report	Listing.	
29.196	CLS226 – PD Subsidy Statistics	Simple report	Listing.	
29.197	CLS229 - PD FFR Summary	Simple report	report printout	
29.198	CLS230 - PD Programme Confirmation	Simple report	letter	
29.199	CLS231 - PD New Subsidy	Simple report	letter	
29.200	CLS232 - PD Subsidy Renewal	Simple report	letter	
29.201	CLS233 - PD NMTS Change	Simple report	letter	
29.202	CLS234 - PD Prescription Change	Simple report	letter	
29.203	CLS235 - PD NMTS- Prescription Change	Simple report	letter	
29.204	CLS236 – PD Renewal- Prescription Change	Simple report	letter	
29.205	CLS237 – PD Blood Test Letter	Simple report	letter	
29.206	CLS238 - National PD Patient Level Data	Complex report	yearly report for MOH	
29.207	CLS239 - National PD Home Support Yearly Report	Complex report	yearly report for MOH	
29.208	CLS240 - PD KtV	Simple report	report printout	
29.209	CLS241 – PD PET Report	Simple report	report printout	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.210	CLS242 - PD Home Support Claims	Simple report	Listing.	
29.211	CLS243 - National PD Enrolment	Simple report	Listing.	
29.212	CLS301 - PF PDC Claims Report	NA	obsolete programme	
29.213	CLS302 - PF Exception Report - Beneficiaries Without Claims	NA	obsolete programme	
29.214	CLS303 - PF Statistics Report	NA	obsolete programme	
29.215	CLS304 - PF MOH Subvention Report	NA	obsolete programme	
29.216	CLS305 - PF PDC Claims Summary Report	NA	obsolete programme	
29.217	CLS306 - PF Subsidy Confirmation Letter	NA	obsolete programme	
29.218	CLS307 - PF Revised Subsidy Confirmation Letter	NA	obsolete programme	
29.219	CLS308 - PF FFR Summary	NA	obsolete programme	
29.220	CLS400 – Contact Follow Up Recording Preview	Simple report	report printout. Need to revise no. series.	
29.221	CLS411 – Approved Transport Welfare Subventions Report	Simple report	Listing. Need to revise no. series.	
29.222	CLS451 - New Fee Confirmation Letter	Simple report	letter. Need to revise no. series.	
29.223	CLS452 - MOH Fee Confirmation Letter	Simple report	letter. Need to revise no. series.	
29.224	CLS453 - NKF Fee Confirmation Letter	Simple report	letter. Need to revise no. series.	
29.225	CLS501 - PMM Cust. Official Receipt - Print (DC and Admin team)	Simple report	Finance - receipt	
29.226	CLS502 - PMM Detailed Patient Aging Debt	Complex report	Finance - listing	
29.227	CLS503 - PMM FP TYPEWISE ARREARS DETAILS_	Complex report	Finance - listing	
29.228	CLS504 - PMM ITLC - MOH Subvention and GST Report	Simple report	Finance - listing	
29.229	CLS505 - PMM MOH Subvention and GST Absorption Summary	Simple report	Finance - listing	
29.230	CLS506 - PMM NKF Collection Official Receipt for Patients (Finance)	Simple report	Finance - receipt	
29.231	CLS507 - PMM NKF Collection Report (List View)	Simple report	Finance - listing	
29.232	CLS508 - PMM NKF Invoice After Posted_	Complex report	Finance - invoice / QR for payment	

Item	Title	Complexity	Description	Compliance (Yes/No)
29.233	CLS509 - PMM Patient - Sponsor Debit Aging (Summary)	Complex report	Finance - listing	
29.234	CLS510 - PMM Patient Fee List	Simple report	Finance - listing	
29.235	CLS511 - PMM Patient Statement of Account	Complex report	Finance - statement	
29.236	CLS512 - PMM PD Invoice After Posted	Complex report	Finance - invoice / QR for payment	
29.237	CLS513 - PMM Proforma Inv. Charge - Posted	Complex report	Finance - invoice	
29.238	CLS514 - PMM SPONSOR TAX INVOICE	Complex report	Finance - invoice	
29.239	CLS515 - PMM Unposted Temp Proforma Invoices Report (Ver2)	Complex report	Finance - invoice	
29.240	CLS516 - Unsuccessful Giro Deduction	Simple report	Finance - listing	
29.241	CLS517 - Acknowledgement GIRO STD Order	Simple report	Finance - listing	
29.242	CLS518 - DX Session	Simple report	listing	
29.243	CLS519 - PMM Open Journal Report	Complex report	Finance - listing	
29.244	CLS520 - PMM Patient Deposit Payments	Simple report	Finance - listing (there are 2 versions please migrate latest)	
29.245	CLS521 - PMM NKF Invoice Before Posted	Complex report	Finance - invoice	
29.246	CLS522 - PMM Unapplied Posted Journal Report	Complex report	Finance - listing	
29.247	CLS523 - PMM Patient Deposit Exception Report	Simple report	Finance - listing	