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Rwanda Development Board

Solution Data Architecture Definition for JRLOS IECMS

Version 1.0

RDB | RWANDA DEVELOPMENT BOARD

Document History

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Related Documents

Document name	Document version
Architecture framework documents	
The Open Group The Open Group Architecture Framework (TOGAF)	9.1
The Open Group ArchiMate 2 standard	2.0
RDB RGEA ADM	1.4
2013-12 RDB RGEA JRLOS IECMS Architecture Definition Document	1.0
Rwanda Government strategic and policy documents	
Government of Rwanda Economic Development and Poverty Reduction Strategy 2013-2018	EDPRS-2
Government of Rwanda National ICT Strategy and Plan NICI 2015	NICI-III
Government of Rwanda – Records and Archives Management Policy	September 2012
Government of Rwanda – Electronic Document Management Procedures	September 2012
Harmonised File Plan and Records Appraisal Procedures for the Government of Rwanda	September 2012
Implementation Roadmap for Government of Rwanda Records and Archives Policies and Electronic Document Management and Procedures	September 2012

Approval

The signatories hereof, being duly authorised thereto, by their signatures hereto authorise the execution of the work detailed herein, or confirm their acceptance of the contents hereof and authorise the implementation/adoption thereof, as the case may be, for and on behalf of the parties represented by them.

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1. Purpose of the document

This document provides a detail view of the data architecture of the solution architecture for the Integrated Case Management System (IECMS) for the Justice, Reconciliation, Law and Order Sector (JRLOS). The document will describe in detail the Physical documents that needs to be produced by the final solution, how data will flow through processes and provides the Entity Relationship Diagram that defines all the key Entities that will be required to keep the information gathered by the solution.

2. Detailed Data Solution Architecture

2.1. Physical Documents (PD)

This section lists the Physical Documents that will need to be produced by the IECMS solution.

2.1.1. JCE004 Language Interpretation Record

A record of translation from one language in to another language by a translator for a court case.

2.1.2. JCE015 Settlement Agreement

A document indicating the points of agreement between two parties in the resolution of a dispute through mediation

2.1.3. JCE040 Receipt

A proof of record for the amount of money paid by the offender for an offense.

2.1.4. JCE044 Expert Service Request

A documented Request for an expert service required e.g. financial, narcotics, biometric, medical, etc.

2.1.5. JCE045 Expert Report

A documented result and information of evidence generated / produced by an expert (e.g. financial, narcotics, biometric, medical, etc.)

2.1.6. JCE063 Warrant

A document issued by an Authority in the context of a criminal case to a person for:

- Arrest
- Search
- Etc.

2.1.7. JCE065 Statement

A document that records the declarations of a party to a judicial case.

2.1.8. JCE082 Criminal Record Clearance

A Certificate of Record of crimes for which a defendant has been previously convicted.

2.1.9. JCE092 Summon

A document that requests a litigant to appear before a court at a given date and time.

2.1.10. JCE095 Notification Notice

A note to inform all relevant parties of their case hearing dates, Judgement Decisions etc.

2.1.11. JCE020 Crime Scene Record

Documented information about the location where a crime took place.

2.1.12. JCE031 Complaint File

A document with all recorded complaint information received by the RNP office at all levels.

2.1.13. JCE051 Case Investigation Report

A documented result stating the completeness and maturity of the investigation done.

2.1.14. JCE055 Police Clearance Certificate

A certificate issued by police indicating that the person does not have any case. It is issued by CID. This document should be merged with JCE082.

2.1.15. JCE062 Interrogation

A documented Interview or Statement that is part of evidence to a case or crime incident, Proof of Evidence etc.

Interrogation (also called questioning or interpellation) is interviewing as commonly employed by officers of the police, military, and intelligence agencies.

2.1.16. JCE064 Crime Scene Report

A documented result generated / produced after a physical visit of a crime scene.

2.1.17. JCE069 Interception Order

A request by the Prosecutor General to perform an interception of communications or all correspondence, letters, phone etc.

2.1.18. JCE070 Interception Report

A document that describes in detail the results obtained from an interception of communication, in the context of a criminal investigation.

2.1.19. JCE071 Seizure Report

A document detailing all the objects confiscated following a legal search (mandated by a search Warrant).

2.1.20. JCE075 Investigation Assistance Report

A document result produced by the Police in response to an Investigation Assistance Request.

2.1.21. JCE077 Pre-Trial Detention Order

An order issued by a Judge to put a suspect in Detention pending the judgment of his/her criminal case.

2.1.22. JCE124 Police Statement

A documented Statement produced by the Police and submitted to RCS in relation to case or an inmate.

2.1.23. JCE147 Testimony

A statement or declaration of a witness under oath or affirmation, usually to prove the truth of a matter.

2.1.24. JCE072 Fine without Trial Report

Evidence of an agreement or acceptance to the agreed transaction.

2.1.25. JCE073 Charge Sheet

A document with the list of formal charges for the case to be prosecuted.

2.1.26. JCE074 Investigation Assistance Request

A request issued by the Prosecution to the Police to proceed with further investigation in the context of a criminal case.

2.1.27. JCE076 Pre-Trial Detention Request

A formal request made before a Judge for the pre-trial detention of a defendant.

2.1.28. JCE079 Final Prosecution Report

The final documented result of readiness produced by a Prosecutor before the transmission of the criminal case to a Judge.

2.1.29. JCE093 Pre-trial Meeting Report

A documented result produced at the end of a meeting organised by the Registrar prior to the trial to mediate between the litigants and draw points of agree- or disagreement.

2.1.30. JCE066 Cross Examination Report

A documented opinion result generated / produced by a second authority on the given aspect of a criminal or civil case.

2.1.31. JCE085 Verdict

The documented final decision generated or produced by a Judge at the conclusion of a judicial case (duplicate with 120).

2.1.32. JCE089 Case Checking Report

A document verifying whether the case has all the requirements needed for submission to a court or discarding thereof (send it back).

2.1.33. JCE097 Court Decision Record

The final decision produced by a Judge at the conclusion of a judicial case.

2.1.34. JCE103 Appeal Request

A formal request in the legal process allowing a party to request a second judgement by a superior court, of the case at hand.

2.1.35. JCE120 Judgement Decision

The documented decision (resolution) issued by a Judge in a judicial case (same as Verdict 85).

2.1.36. JCE152 Court Submission Record

A document that provides proof that case documents have been submitted to a court.

2.1.37. JCE121 Health Status Record

A documented report produced by the RCS medical service concerning the health status of an inmate.

2.1.38. JCE125 Item Check Record

A receipt of proof of all valuable items taken from an inmate at the moment of incarceration.

2.1.39. JCE127 Education Status Record

A documented report of any educational achievement attained by an inmate.

2.1.40. JCE129 Inmate Discipline Record

A documented report of any disciplinary event in relation to an inmate.

2.1.41. JCE130 Inmate Report

A documented report of all information recorded in relation to an inmate.

2.1.42. JCE131 Evaluation Result Report

A documented report resulting from an evaluation of an inmate.

2.1.43. JCE132 TIG Record

A report of all information recorded in relation to a person assigned to Community service.

2.1.44. JCE134 TIG Attendance Record

A detailed list of the number of days a person spent in every TIG camp they were allocated too.

2.1.45. JCE135 Parole Record

A documented report indicating information about the conditional liberation on parole of an inmate.

2.1.46. JCE136 Extension Record

A documented report indicating all extensions to provisional detention in relation to an inmate in pre-trial detention.

2.1.47. JCE137 Suspend Record

A documented report indicating information related to suspended sentences of an inmate.

2.1.48. JCE138 Conditional Release Record

A document with proof of an inmate's conditional release conditions.

2.1.49. JCE139 Amnesty Record

A document with proof of an inmate who benefited from an amnesty.

2.1.50. JCE140 Presidential Pardon Record

A document containing proof of an inmate who was pardoned.

2.1.51. JCE141 Death Record

A document with proof of an inmate who died in custody.

2.1.52. JCE142 Discharge Record

A document with proof of an inmate who was discharged.

2.1.53. JCE143 End of Sentence Certificate

A document with proof of an inmate who purged the sentence.

2.1.54. JCE151 Witness and Victim Protection Information

A document of Information about a witness or victim that needs protection.

2.1.55. JCE006 Public Civil Litigation Case File

A document with recorded information of a case received or initiated by MINIJUST / Civil Litigation Services (CLS)

2.1.56. JCE145 Mediation Record

A documented report indicating the outcomes of a mediation between two parties.

2.1.57. Printing of scanned documents

Any physical document that was scanned needs to be reproduced – either on screen or physically.

2.2. External Systems

The following information will be obtained from external parties:

2.2.1. NIDA (External)

NIDA is the National Identification Authority for Rwanda that controls the unique identity of a person, irrespective of whether or not the person is a citizen of the country of Rwanda

2.2.2. RRA (External)

RRA is the Rwanda Revenue Authority which manages the finances of Rwanda Government and is an external entity to the IECMS for JRLOS.

2.2.3. RNRA (External)

Integration with the Rwanda Natural Resources Authority (RNRA) database, in order to get Land Registration information

2.2.4. DGIE (External)

Integration with the Rwanda Directorate General of Immigration and Emigration (DGIE) to get Immigration information to determine if a person is legally in Rwanda

2.3. Data Flow Diagrams

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system.

2.3.1. Level 0 IECMS Context

This context diagram is the top level (also known as Level 0) Data Flow Diagram (DFD). It shows the following key contributors to the IECMS solution:

- RNP
- NPPA
- Judiciary
- RCS
- MINIJUST
- RBA
- External Systems
- Person

IECMS - Context Diagram
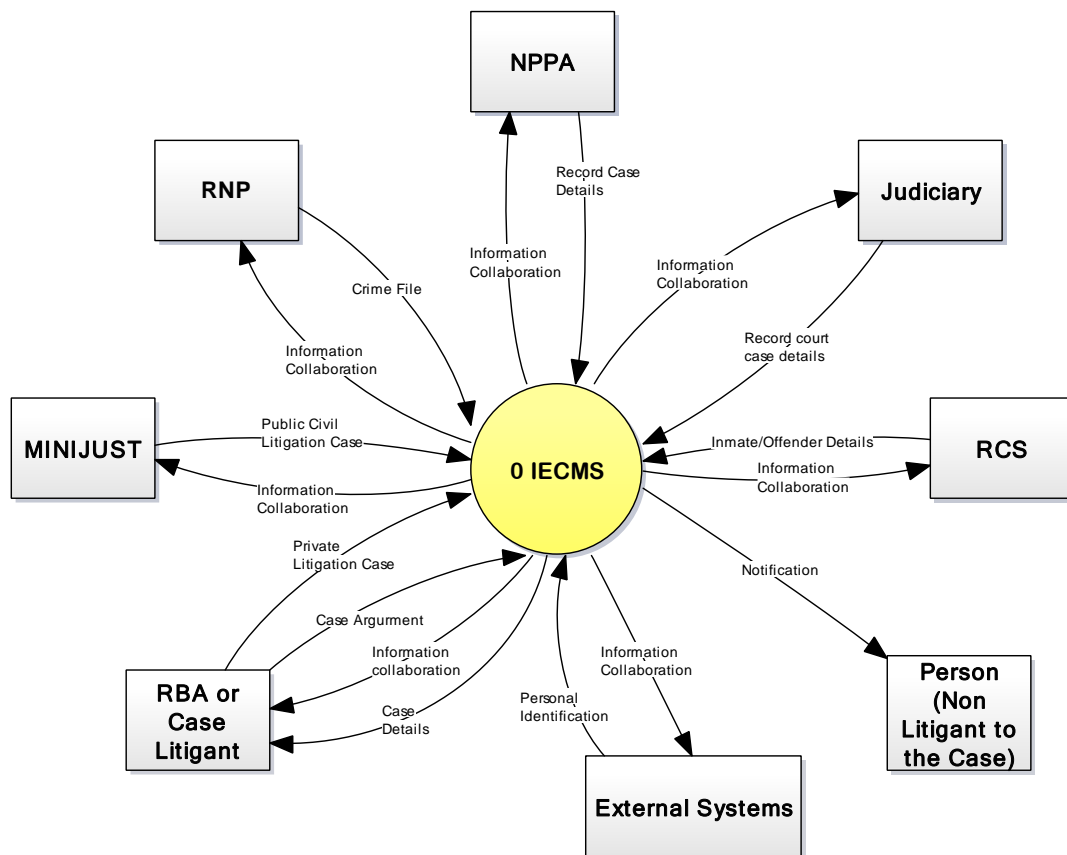
Figure 1: IECMS – Context Diagram

2.3.1.1   IECMS Data Flow

Figure 4 illustrates the flow to Generate, Record, Store, Collaborate, Transform and Dispose all Case Data and/or Information inclusive of Applications in use of the IECMS system.

Table 1-1: IECMS Data Flow

Connector	Source	Target	Notes
DataFlow Information Collaboration	0 IECMS	External Systems	Information collaboration such as: - Requests - Notifications
DataFlow	0 IECMS	RBA or Case Litigant	Information collaboration such as:

Connector	Source	Target	Notes
Information collaboration			- Notifications - Queries - Result reports - Requests - Lawyer details
DataFlow Information Collaboration	0 IECMS	NPPA	Notification for access to the IECMS, Run Query Reports, Searches for Information, Update and Case details
DataFlow Case Details	0 IECMS	RBA or Case Litigant	
DataFlow Information Collaboration	0 IECMS	RNP	Information collaboration such as: - Notifications - Requests - Queries - Report results
DataFlow Information Collaboration	0 IECMS	MINIJUST	Information collaboration such as: - Notifications - Requests - Queries - Result reports
DataFlow Notification	0 IECMS	Person (Non Litigant to the Case)	Inform person by Notification.
DataFlow Information Collaboration	0 IECMS	Judiciary	1. Notification for access to court Case information 2. Sharing of Case outcomes to all stakeholders
DataFlow Information Collaboration	0 IECMS	RCS	Information Collaboration such as: - Notifications

Connector	Source	Target	Notes
			- Requests - Queries - Reports
DataFlow Case Argument	RBA or Case Litigant	0 IECMS	Sent legal argument of case to the prosecutors
DataFlow Personal Identification	External Systems	0 IECMS	Complete person identification details
DataFlow Inmate/Offender Details	RCS	0 IECMS	Record details such as: - Offender/Inmate details, - Health and educational status - Judgment decision - Mother and infant (child) details - Sentence location
DataFlow Record court case details	Judiciary	0 IECMS	Record of Court Case details (Inclusive of image, digital, audio and video recording, court session and court decision)
DataFlow Public Civil Litigation Case	MINIJUST	0 IECMS	Inclusive of to generate, record, store, transform and dispose all civil case data and information
DataFlow Record Case Details	NPPA	0 IECMS	Details for Case Completeness, Readiness (Quality Information) and Settlement Information
DataFlow Private Litigation Case	RBA or Case Litigant	0 IECMS	To generate, record, store, transform and dispose private litigation case data and information

Connector	Source	Target	Notes
DataFlow Crime File	RNP	0 IECMS	To generate, record, store, collaborate, transform and dispose all crime case data and information

2.3.2. Level 1 IECMS DFD RNP - *(Data Flow diagram)*

Data Flow Diagram – Level 1: Rwanda National Police (RNP)
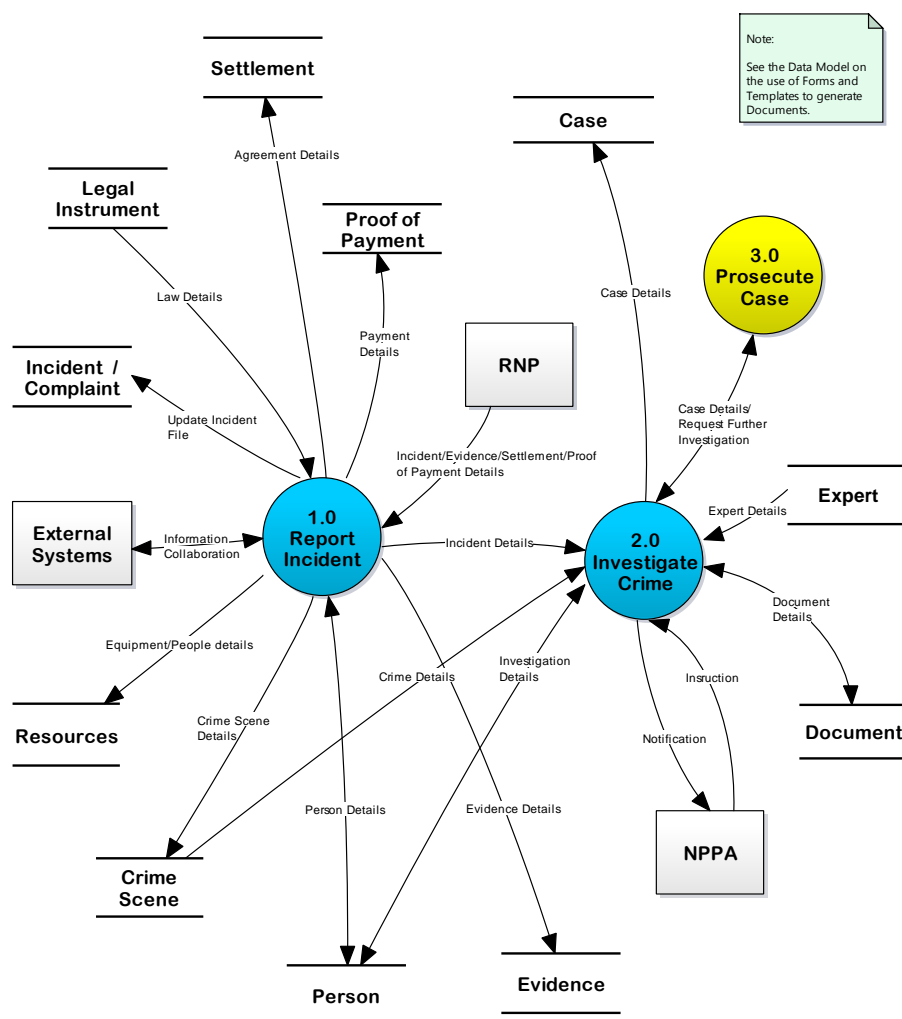
Figure 2: Data Flow Diagram – Level 1: Rwanda National Police (RNP)

Table 1-2: Report Incident

Connector	Source	Target	Notes
DataFlow	1.0 Report Incident	Settlement	

Connector	Source	Target	Notes
Agreement Details			
DataFlow Equipment/People details	1.0 Report Incident	Resources	
DataFlow Payment Details	1.0 Report Incident	Proof of Payment	
DataFlow Person Details	1.0 Report Incident	Person	Details such as ID-No, Names for suspect, victim, witness
DataFlow Evidence Details	1.0 Report Incident	Evidence	
DataFlow Incident Details	1.0 Report Incident	2.0 Investigate Crime	
DataFlow Crime Scene Details	1.0 Report Incident	Crime Scene	
DataFlow Update Incident File	1.0 Report Incident	Incident /Complaint	
DataFlow Information Collaboration	External Systems	1.0 Report Incident	
DataFlow Law Details	Legal Instrument	1.0 Report Incident	
DataFlow Incident/Evidence/Settlement/Proof of Payment Details	RNP	.0 Report Incident	Collect evidence details

2.3.2.1   2.0 Investigate Crime

For homicide the prosecutor should be informed. Request instruction for further investigation.

Table 1-3: Investigate Crime

Connector	Source	Target	Notes
DataFlow Document Details	2.0 Investigate Crime	Document	Police documents such as: - Warrant - Records - Reports
DataFlow Notification	2.0 Investigate Crime	NPPA	Inclusive of access to the case file. For homicide/felony the prosecutor should be informed. Request instruction for further investigation
DataFlow Case Details	2.0 Investigate Crime	Case	
DataFlow Case Details/ Request Further Investigation	2.0 Investigate Crime	3.0 Prosecute Case	Case details and Request for further clarification
DataFlow Expert Details	Expert	2.0 Investigate Crime	
DataFlow Incident Details	1.0 Report Incident	2.0 Investigate Crime	
DataFlow Instruction	NPPA	2.0 Investigate Crime	NPPA request further investigation required.
DataFlow Crime Details	Crime Scene	2.0 Investigate Crime	
DataFlow Investigation Details	Person	2.0 Investigate Crime	

2.3.3. Level 1 IECMS DFD NPPA - *(Data Flow diagram)*

Data Flow Diagram - Level 1: NPPA

Figure 3: Data Flow Diagram – Level 1: NPPA
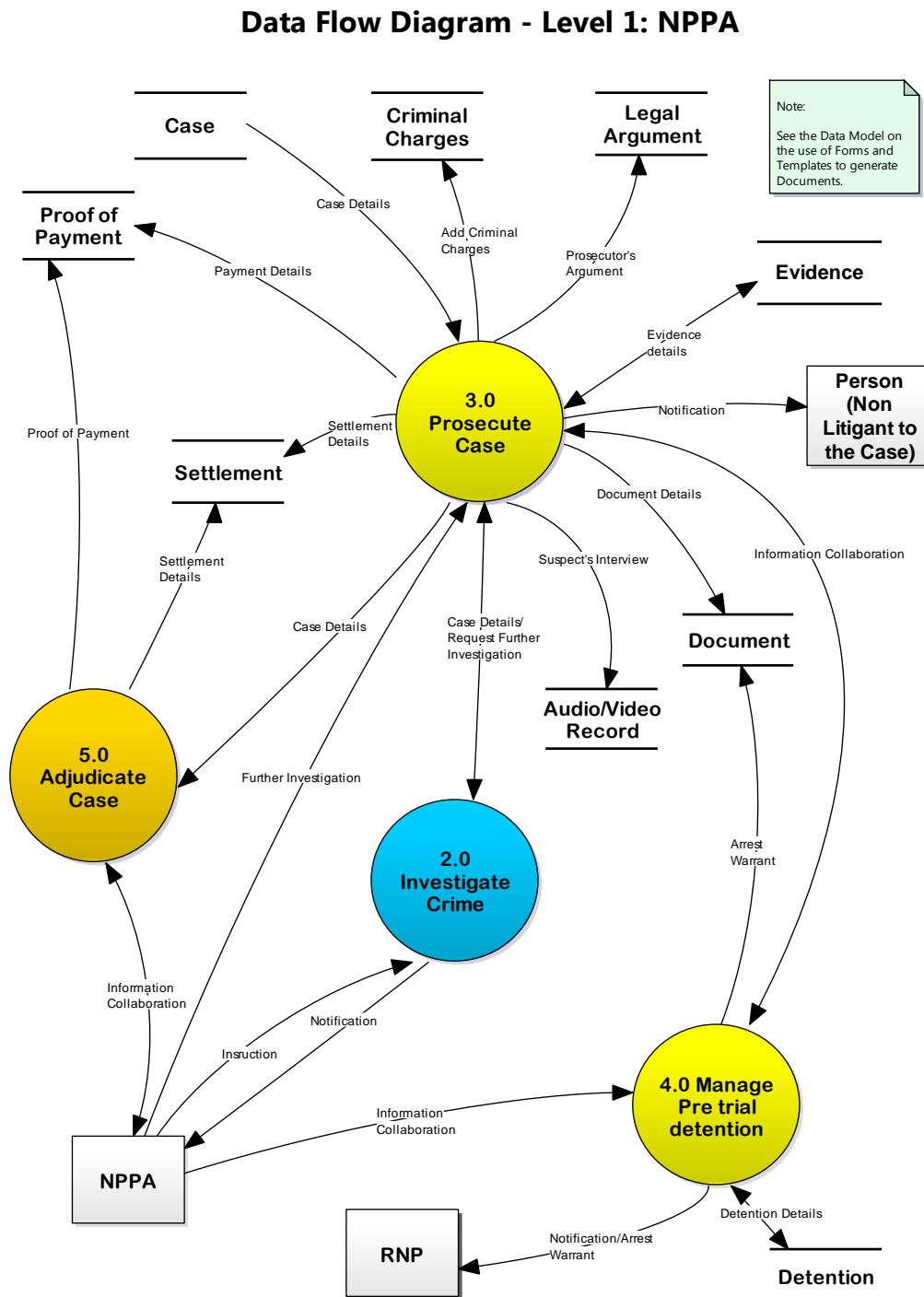
2.3.3.1   3.0 Prosecute Case

Table 1-4: Prosecute Case

Connector	Source	Target	Notes
DataFlow Payment Details	3.0 Prosecute Case	Proof of Payment	
DataFlow Settlement Details	3.0 Prosecute Case	Settlement	
DataFlow Prosecutor's Argument	3.0 Prosecute Case	Legal Argument	
DataFlow Add Criminal Charges	3.0 Prosecute Case	Criminal Charges	
DataFlow Suspect's Interview	3.0 Prosecute Case	Audio/Video Record	
DataFlow Information Collaboration	3.0 Prosecute Case	4.0 Manage Pre-trial detention	
DataFlow Case Details	3.0 Prosecute Case	5.0 Adjudicate Case	
DataFlow Document Details	3.0 Prosecute Case	Document	
DataFlow Notification	3.0 Prosecute Case	Person (Non - litigant to the Case)	
DataFlow Evidence details	Evidence	3.0 Prosecute Case	
DataFlow Person Details	Person	3.0 Prosecute Case	
DataFlow Further Investigation	NPPA	3.0 Prosecute Case	The Prosecutor may request for further investigation
DataFlow Case Details	Case	3.0 Prosecute Case	
DataFlow	2.0 Investigate Crime	3.0 Prosecute Case	Case details and Request for further clarification

Connector	Source	Target	Notes
Case Details/ Request Further Investigation			

2.3.3.2   4.0 Manage Pre-trial detention

Table 1-5: Manage Pre-trial detention

Connector	Source	Target	Notes
DataFlow Arrest Warrant	4.0 Manage Pre-trial detention	Document	
DataFlow Detention Details	4.0 Manage Pre-trial detention	Detention	
DataFlow Notification/Arrest Warrant	4.0 Manage Pre-trial detention	RNP	Inclusive of notification, arrest warrant and any other information for collaboration
DataFlow Information Collaboration	NPPA	4.0 Manage Pre-trial detention	
DataFlow Information Collaboration	3.0 Prosecute Case	4.0 Manage Pre-trial detention	

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2.3.4. Level 1 IECMS DFD Judiciary - *(Data Flow diagram)*

Data Flow Diagram - Level 1: Judiciary
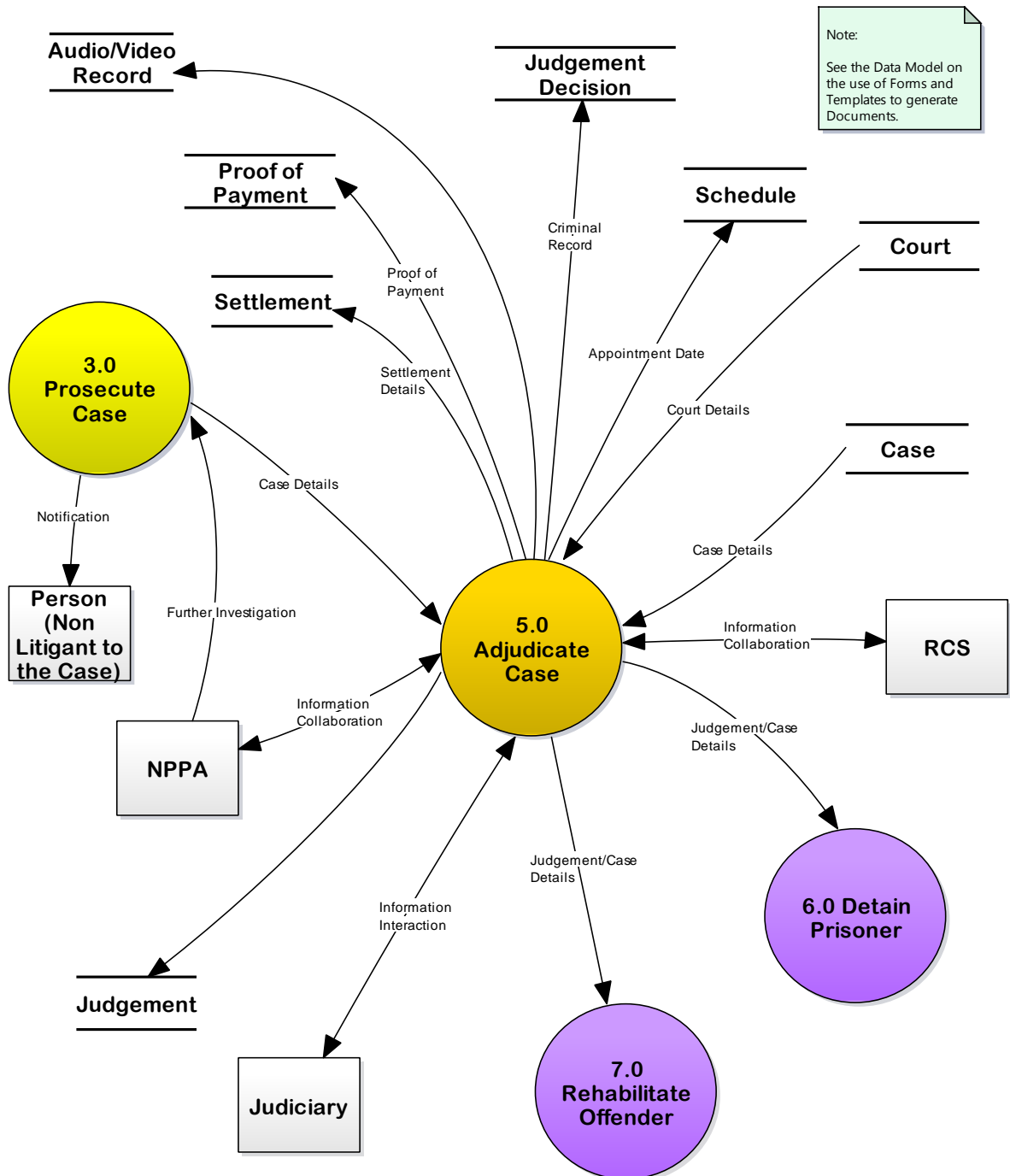
Figure 4: Data Flow Diagram - Level 1 Judiciary

2.3.4.1 5.0 Adjudicate Case

This process is described as part of the Adjudicate Case processes.

Table 1-6: Adjudicate Case

Connector	Source	Target	Notes
DataFlow Information Interaction	5.0 Adjudicate Case	Judiciary	Inclusive of data and information sharing such as: - Appointment - Case readiness/completeness - Notifications
DataFlow Notification	5.0 Adjudicate Case	7.1 Admit Offender into Correctional Services	This Notification is for an Offender from the Court
DataFlow Information Collaboration	5.0 Adjudicate Case	NPPA	
DataFlow	5.0 Adjudicate Case	Judgement	
DataFlow Judgement/Case Details	5.0 Adjudicate Case	6.0 Detain Prisoner	
DataFlow Criminal Record	5.0 Adjudicate Case	Judgement Decision	
DataFlow	5.0 Adjudicate Case	Audio/Video Record	
DataFlow Appointment Date	5.0 Adjudicate Case	Schedule	
DataFlow Information Collaboration	5.0 Adjudicate Case	RCS	Notification inclusive of: - Judgement decision/verdict - Arrest Warrant - Police statement
DataFlow Settlement Details	5.0 Adjudicate Case	Settlement	

Connector	Source	Target	Notes
DataFlow Judgement/Case Details	5.0 Adjudicate Case	7.0 Rehabilitate Offender	
DataFlow Proof of Payment	5.0 Adjudicate Case	Proof of Payment	
DataFlow Case Submission Notification	9.4 Submit Public Civil Case to Court	5.0 Adjudicate Case	Case submitted to the court notification
DataFlow Prosecution Argument	3.5 Finalise Prosecution Case	5.0 Adjudicate Case	
DataFlow Case Details	Case	5.0 Adjudicate Case	
DataFlow Case Details	9.0 Public Civil Litigation	5.0 Adjudicate Case	
DataFlow Case Details	3.0 Prosecute Case	5.0 Adjudicate Case	
DataFlow Court Details	Court	5.0 Adjudicate Case	

2.3.5. Level 1 IECMS DFD RCS - *(Data Flow diagram)*

Data Flow Diagram - Level 1: Rwanda Correctional Services (RCS)
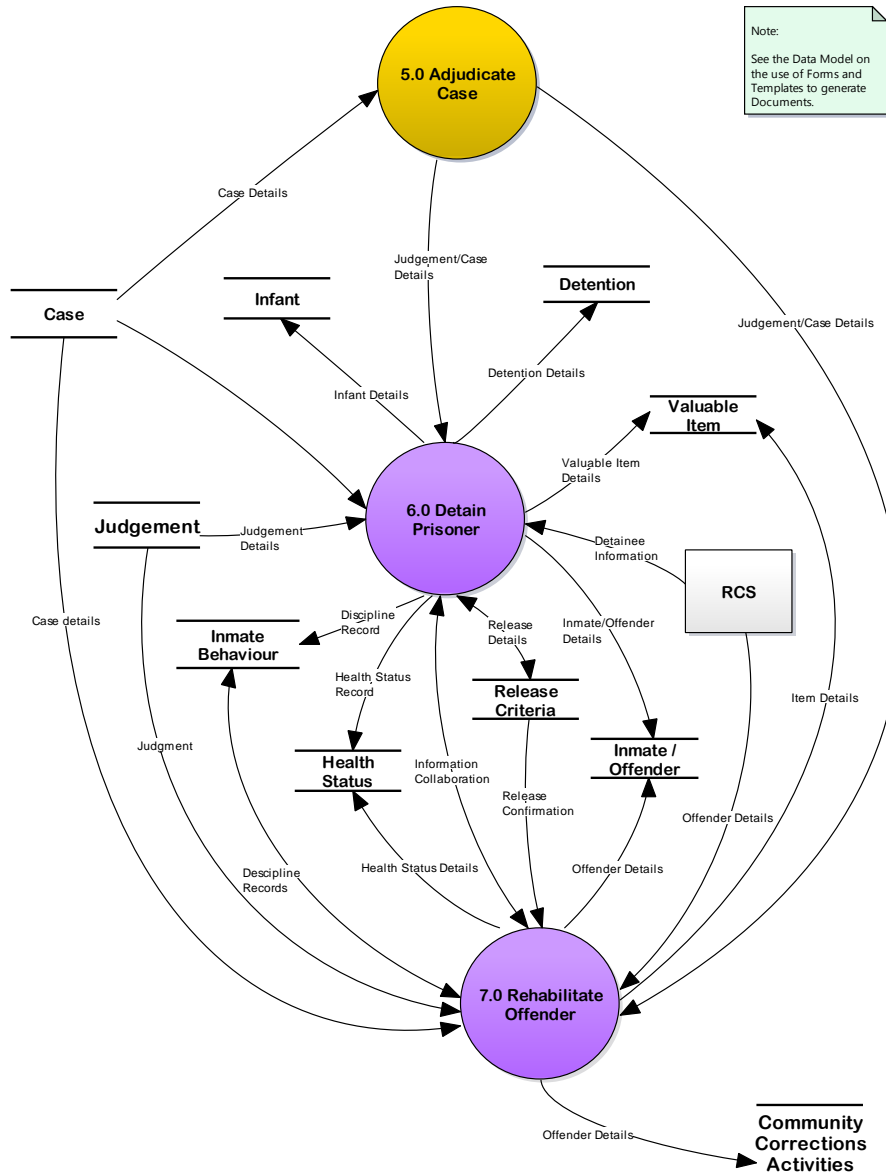
Figure 5: Data Flow Diagram – Level 1: Rwanda Correctional Services (RCS)

2.3.5.1   6.0 Detain Prisoner

Table 1-7: Detain Prisoner:

Connector	Source	Target	Notes
DataFlow Discipline Record	6.0 Detain Prisoner	Inmate Behaviour	
DataFlow Detention Details	6.0 Detain Prisoner	Detention	
DataFlow Release Details	6.0 Detain Prisoner	Release Criteria	
DataFlow Inmate/Offender Details	6.0 Detain Prisoner	Inmate / Offender	Inmate details, Judgement decision
DataFlow Infant Details	6.0 Detain Prisoner	Infant	
DataFlow Valuable Item Details	6.0 Detain Prisoner	Valuable Item	
DataFlow Health Status Record	6.0 Detain Prisoner	Health Status	
DataFlow Information Collaboration	6.0 Detain Prisoner	7.0 Rehabilitate Offender	
DataFlow Verdict	5.9 Administer Adjudicated Outcome	6.0 Detain Prisoner	
DataFlow Judgement/Case Details	5.0 Adjudicate Case	6.0 Detain Prisoner	
DataFlow Detainee Information	RCS	6.0 Detain Prisoner	
DataFlow Judgement Details	Judgement	6.0 Detain Prisoner	
DataFlow	Case	6.0 Detain Prisoner	

2.3.5.2   7.0 Rehabilitate Offender

Table 1-8: Rehabilitate Offender

Connector	Source	Target	Notes
DataFlow Offender Details	7.0 Rehabilitate Offender	Community Corrections Activities	
DataFlow Health Status Details	7.0 Rehabilitate Offender	Health Status	
DataFlow Offender Details	7.0 Rehabilitate Offender	Inmate / Offender	
DataFlow Item Details	7.0 Rehabilitate Offender	Valuable Item	
DataFlow Discipline Records	7.0 Rehabilitate Offender	Inmate Behaviour	
DataFlow Case details	Case	7.0 Rehabilitate Offender	
DataFlow Verdict	5.9 Administer Adjudicated Outcome	7.0 Rehabilitate Offender	
DataFlow Offender Details	RCS	7.0 Rehabilitate Offender	
DataFlow Release Confirmation	Release Criteria	7.0 Rehabilitate Offender	
DataFlow Information Collaboration	6.0 Detain Prisoner	7.0 Rehabilitate Offender	
DataFlow Judgement/Case Details	5.0 Adjudicate Case	7.0 Rehabilitate Offender	
DataFlow Judgment	Judgement	7.0 Rehabilitate Offender	

2.3.6. Level 1 IECMS DFD RBA - *(Data Flow diagram)*

Data Flow Diagram - Level 1: Rwanda Bar Association (RBA)
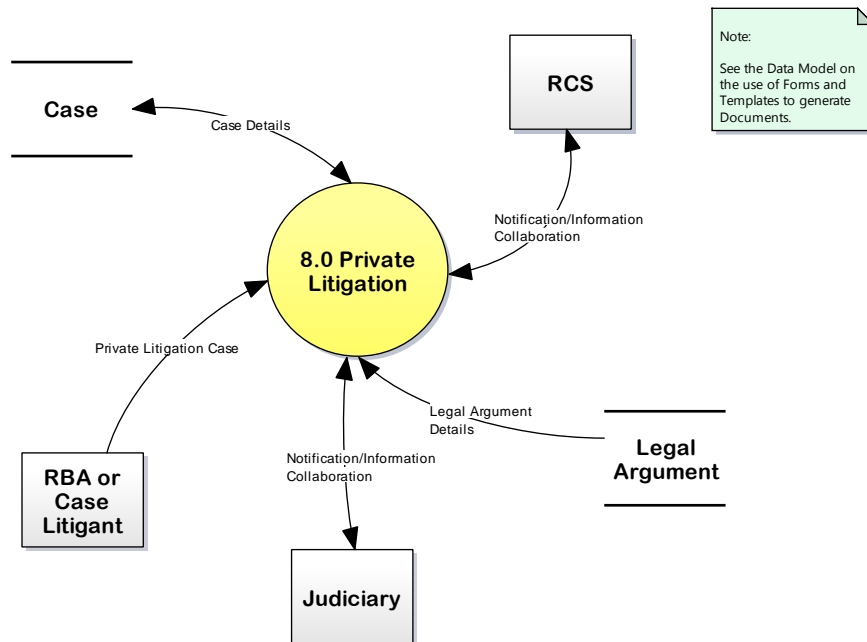
Figure 6: Data Flow Diagram – Level 1: Rwanda Bar Association (RBA)

2.3.6.1   8.0 Private Litigation

Table 1-9: Private Litigation

Connector	Source	Target	Notes
DataFlow Notification/ Information Collaboration	8.0 Private Litigation	Judiciary	
DataFlow Notification/ Information Collaboration	8.0 Private Litigation	RCS	
DataFlow Case Details	8.0 Private Litigation	Case	
DataFlow	Legal Argument	8.0 Private Litigation	

Connector	Source	Target	Notes
Legal Argument Details			
DataFlow Private Litigation Case	RBA or Case Litigant	8.0 Private Litigation	

2.3.7. Level 1 IECMS DFD MINIJUST - *(Data Flow diagram)*

Data Flow Diagram - Level 1: MINIJUST(Public Civil Litigation)
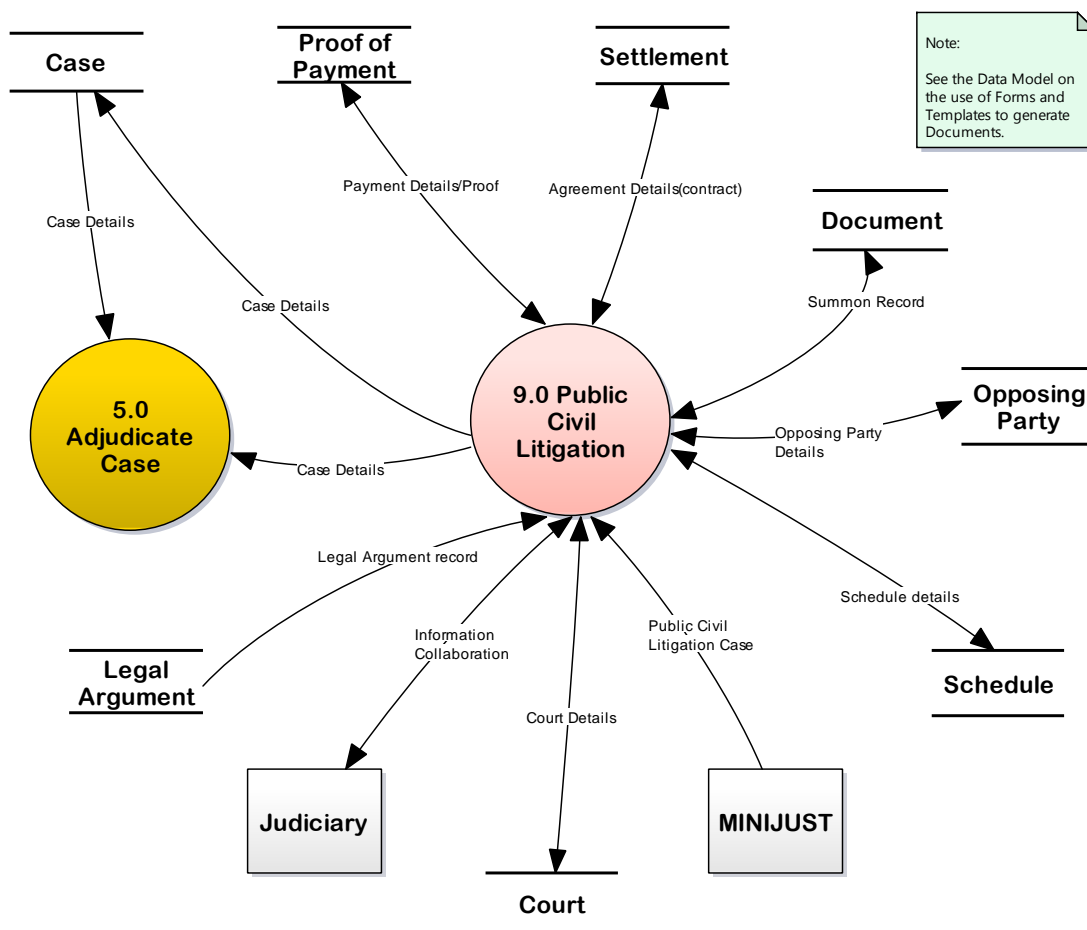
Figure 7: Data Flow Diagram – Level 1: MINIJUST (Public Civil Litigation)

2.3.7.1   9.0 Public Civil Litigation

Table 1-10: Public Civil Litigation

Connector	Source	Target	Notes
DataFlow Information Collaboration	9.0 Public Civil Litigation	Judiciary	
DataFlow Case Details	9.0 Public Civil Litigation	Case	
DataFlow Case Details	9.0 Public Civil Litigation	5.0 Adjudicate Case	
DataFlow Payment Details/Proof	Proof of Payment	9.0 Public Civil Litigation	
DataFlow Public Civil Litigation Case	MINIJUST	9.0 Public Civil Litigation	
DataFlow Court Details	Court	9.0 Public Civil Litigation	
DataFlow Agreement Details(contract)	Settlement	9.0 Public Civil Litigation	
DataFlow Summon Record	Document	9.0 Public Civil Litigation	
DataFlow Opposing Party Details	Opposing Party	9.0 Public Civil Litigation	
DataFlow Legal Argument record	Legal Argument	9.0 Public Civil Litigation	
DataFlow Schedule details	Schedule	9.0 Public Civil Litigation	

2.3.8. Level 2 IECMS DFD RNP - *(Data Flow diagram)*
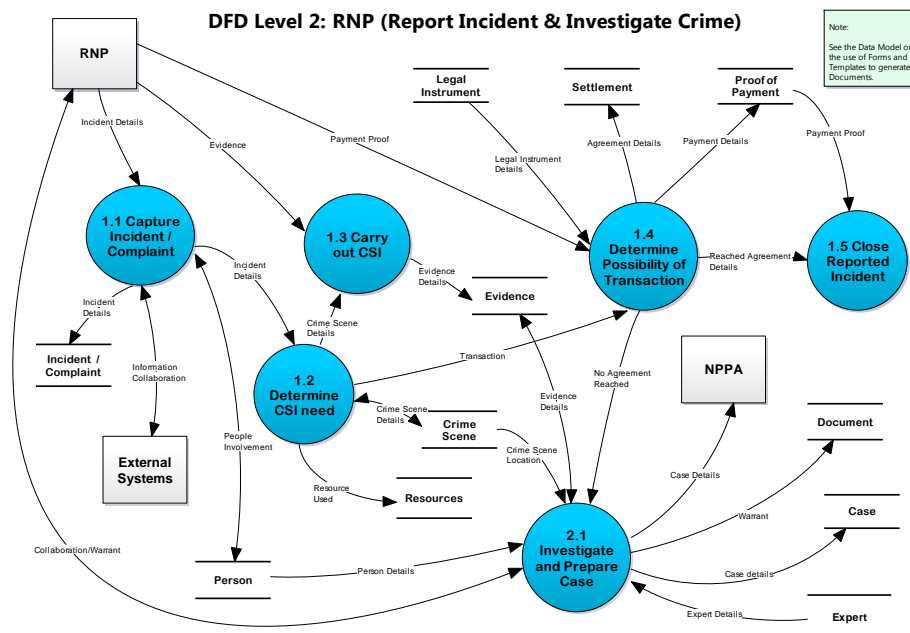
Figure 8: DFD Level 2: RNP (Report Incident & Investigate Crime)

2.3.8.1   1.1 Capture Incident / Complaint

An incident or complaint may be reported or lodged by anybody and to any official within the Rwanda National Police (RNP). Irrespective of the nature of the reporting the incident / complaint need to be captured for further processing. It is suggested that a national call centre is established which would enable the audio recording of each call to report an incident / complaint.

The incident / complaint reporting need to be recorded on to the Integrated Electronic Case Management system (IECMS). In the instance of a telephonic reporting an audio recording of the call should be made if possible.

Determine if the incident is a Felony and inform the Chief Prosecutor. Also capture if the incident is a Petty Offence, a Misdemeanour or a Felony.

Table 1-11: Capture Incident/Complaint

Connector	Source	Target	Notes
DataFlow People Involvement	1.1 Capture Incident / Complaint	Person	Including suspect/witness, and victim

Connector	Source	Target	Notes
DataFlow Incident Details	1.1 Capture Incident / Complaint	1.2 Determine CSI need	
DataFlow Incident Details	1.1 Capture Incident / Complaint	Incident / Complaint	
DataFlow Incident Details	RNP	1.1 Capture Incident / Complaint	
DataFlow Information Collaboration	External Systems	1.1 Capture Incident / Complaint	Complete identification

2.3.8.2   1.2 Determine CSI need

It is important to determine the nature of the reported incident to enable the efficient processing thereof. The reported incident may take on a number of guises:

- Traffic offence,
- Murder,
- Commercial crime,

Table 1-12: Determine CSI need

Connector	Source	Target	Notes
DataFlow Transaction	1.2 Determine CSI need	1.4 Determine Possibility of Transaction	Only applicable for traffic fines
DataFlow Crime Scene Details	1.2 Determine CSI need	Crime Scene	
DataFlow incident details	1.2 Determine CSI need	1.4 Determine Possibility of Transaction	
DataFlow Crime Scene Details	1.2 Determine CSI need	1.3 Carry out CSI	
DataFlow Resource Used	1.2 Determine CSI need	Resources	People and all equipment used at crime scene

Connector	Source	Target	Notes
DataFlow Incident Details	1.1 Capture Incident / Complaint	1.2 Determine CSI need	

2.3.8.3   1.3 Carry out CSI

The police, in responding to the incident / complaint reporting, would attend to the crime scene. The primary concern is to secure and document the environment. Evidence would be gathered and potential witnesses interviewed. Assistance from an expert would be sought if required.

Table 1-13: Carry out CSI

Connector	Source	Target	Notes
DataFlow Evidence Details	1.3 Carry out CSI	Evidence	
DataFlow Crime Scene Details	1.2 Determine CSI need	1.3 Carry out CSI	
DataFlow Evidence	RNP	1.3 Carry out CSI	

2.3.8.4   1.4 Determine Possibility of Transaction

Certain cases may qualify for a fine to be paid instead of going forward as a case to be investigated. A pre-determined set of conditions exist against which the case would be measured.

Table 1-14: Determine Possibility of Transaction

Connector	Source	Target	Notes
DataFlow Agreement Details	1.4 Determine Possibility of Transaction	Settlement	
DataFlow No Agreement Reached	1.4 Determine Possibility of Transaction	2.1 Investigate and Prepare Case	
DataFlow Payment Details	1.4 Determine Possibility of Transaction	Proof of Payment	
DataFlow Reached Agreement Details	1.4 Determine Possibility of Transaction	1.5 Close Reported Incident	

Connector	Source	Target	Notes
DataFlow Transaction	1.2 Determine CSI need	1.4 Determine Possibility of Transaction	Only applicable for traffic fines
DataFlow incident details	1.2 Determine CSI need	1.4 Determine Possibility of Transaction	
DataFlow Payment Proof	RNP	1.4 Determine Possibility of Transaction	
DataFlow Legal Instrument Details	Legal Instrument	1.4 Determine Possibility of Transaction	

2.3.8.5　　1.5 Close Reported Incident

In the instance of the incident being redressed by the payment of a fine, the case would be closed without prejudicing the payee.

Table 1-15: Close Reported Incident:

Connector	Source	Target	Notes
DataFlow Payment Proof	Proof of Payment	1.5 Close Reported Incident	
DataFlow Reached Agreement Details	1.4 Determine Possibility of Transaction	1.5 Close Reported Incident	

2.3.8.6　　2.1 Investigate and Prepare Case

Table 1-16: Investigate and Prepare Case

Connector	Source	Target	Notes
DataFlow Warrant	2.1 Investigate and Prepare Case	Document	
DataFlow Collaboration/ Warrant	2.1 Investigate and Prepare Case	RNP	
DataFlow Case Details	2.1 Investigate and Prepare Case	NPPA	

Connector	Source	Target	Notes
DataFlow Case details	2.1 Investigate and Prepare Case	Case	
DataFlow Crime Scene Location	Crime Scene	2.1 Investigate and Prepare Case	
DataFlow No Agreement Reached	1.4 Determine Possibility of Transaction	2.1 Investigate and Prepare Case	
DataFlow Evidence Details	Evidence	2.1 Investigate and Prepare Case	
DataFlow Person Details	Person	2.1 Investigate and Prepare Case	Inclusive of witness/suspect/victim details
DataFlow Expert Details	Expert	2.1 Investigate and Prepare Case	

2.3.9. Level 2 IECMS DFD NPPA - *(Data Flow diagram)*
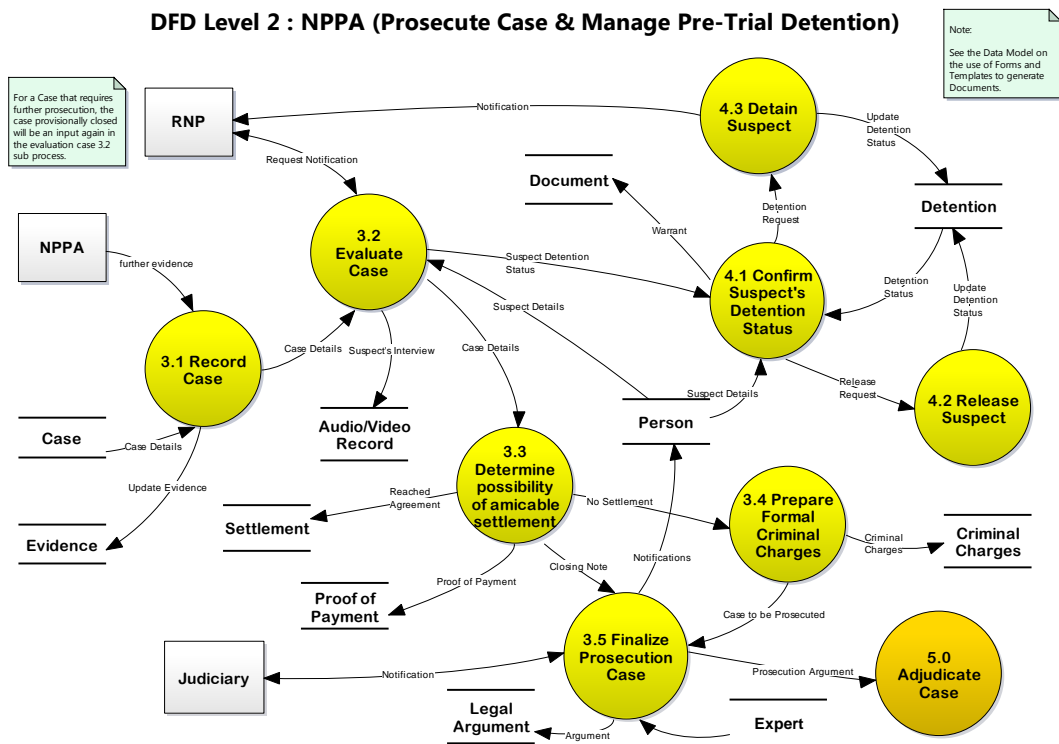
Figure 9: DFD Level 2: NPPA (Prosecute Case & Manage Pre-Trial Detention)

2.3.9.1   3.1 Record Case

The Assistant Prosecutor would accept the case file. The case file (physical and digital) needs to be checked for completeness. An incomplete case file would be returned to be completed. A complete case file would be scanned to the Integrated Electronic Case Management System (IECMS). The NPPA utilises a specific reference number framework and within this framework a reference number would be allocated and documented to the case.

Table 1-17: Record Case

Connector	Source	Target	Notes
DataFlow Update Evidence	3.1 Record Case	Evidence	
DataFlow Case Details	3.1 Record Case	3.2 Evaluate Case	
DataFlow further evidence	NPPA	3.1 Record Case	

Connector	Source	Target	Notes
DataFlow Case Details	Case	3.1 Record Case	

2.3.9.2   3.2 Evaluate Case

The Prosecutor needs to evaluate the case to determine if sufficient information is available. Additional information would be requested should any be required. The Prosecutor needs to determine if any witnesses / victims may need protection and if the suspect(s) may need to be detained.

Table 1-18: Evaluate Case

Connector	Source	Target	Notes
DataFlow Case Details	3.2 Evaluate Case	3.3 Determine possibility of amicable settlement	
DataFlow Suspect's Interview	3.2 Evaluate Case	Audio/Video Record	
DataFlow Suspect Detention Status	3.2 Evaluate Case	4.1 Confirm Suspect's Detention Status	
DataFlow Request Notification	3.2 Evaluate Case	RNP	Request further investigation/notification
DataFlow Suspect Details	Person	3.2 Evaluate Case	Interviewing the victim, witness or suspect
DataFlow Case Details	3.1 Record Case	3.2 Evaluate Case	

2.3.9.3   3.3 Determine possibility of amicable settlement

The Prosecutor needs to determine if any amicable settlement may be possible. This would be put to the opposing party and, if accepted, arrangements would be made for the fine to be paid.
A receipt would be issued on receiving payment of the fine and the case file would be scanned.

Table 1-19: Determine Possibility of amicable settlement

Connector	Source	Target	Notes
DataFlow Closing Note	3.3 Determine possibility of amicable settlement	3.5 Finalise Prosecution Case	
DataFlow Reached Agreement	3.3 Determine possibility of amicable settlement	Settlement	Reached agreement
DataFlow No Settlement	3.3 Determine possibility of amicable settlement	3.4 Prepare Formal Criminal Charges	Amicable settlement not possible
DataFlow Proof of Payment	3.3 Determine possibility of amicable settlement	Proof of Payment	
DataFlow Case Details	3.2 Evaluate Case	3.3 Determine possibility of amicable settlement	

2.3.9.4   3.4 Prepare Formal Criminal Charges

The compilation of the criminal case would culminate in formal criminal charges being formulated. The Prosecutor, however, determines whether a suspect can be charged beyond any reasonable doubt.

Table 1-20: Prepare Formal Criminal Charges

Connector	Source	Target	Notes
DataFlow Criminal Charges	3.4 Prepare Formal Criminal Charges	Criminal Charges	Add criminal charges
DataFlow Case to be Prosecuted	3.4 Prepare Formal Criminal Charges	3.5 Finalise Prosecution Case	

Connector	Source	Target	Notes
DataFlow No Settlement	3.3 Determine possibility of amicable settlement	3.4 Prepare Formal Criminal Charges	Amicable settlement not possible

2.3.9.5 3.5 Finalise Prosecution Case

On finalising a case whether found not to be prosecutable or having compiled a prosecutable case, the Chief Prosecutor would evaluate the case to determine if the accused concurs with the finding and is satisfied with the execution of the file.

Table 1-21: Finalise Prosecution Case

Connector	Source	Target	Notes
DataFlow Notification	3.5 Finalise Prosecution Case	Judiciary	
DataFlow Prosecution Argument	3.5 Finalise Prosecution Case	5.0 Adjudicate Case	
DataFlow Argument	3.5 Finalise Prosecution Case	Legal Argument	Prosecutor's argument
DataFlow Notifications	3.5 Finalise Prosecution Case	Person	Notification of the outcome of the decision
DataFlow	Expert	3.5 Finalise Prosecution Case	
DataFlow Closing Note	3.3 Determine possibility of amicable settlement	3.5 Finalise Prosecution Case	
DataFlow Case to be Prosecuted	3.4 Prepare Formal Criminal Charges	3.5 Finalise Prosecution Case	

2.3.9.6 4.1 Confirm Suspect's Detention Status

It is of crucial importance for the Prosecutor to determine if the suspect(s) are in detention.

Table 1-22: Confirm Suspect's Detention Status

Connector	Source	Target	Notes
DataFlow Release Request	4.1 Confirm Suspect's Detention Status	4.2 Release Suspect	
DataFlow Warrant	4.1 Confirm Suspect's Detention Status	Document	Arrest/Release Warrant
DataFlow Detention Request	4.1 Confirm Suspect's Detention Status	4.3 Detain Suspect	
DataFlow Suspect Detention Status	3.2 Evaluate Case	4.1 Confirm Suspect's Detention Status	
DataFlow Detention Status	Detention	4.1 Confirm Suspect's Detention Status	
DataFlow Warrant Template	Template	4.1 Confirm Suspect's Detention Status	Use of Template for arrest/release warrant etc.
DataFlow Suspect Details	Person	4.1 Confirm Suspect's Detention Status	

2.3.9.7   4.2 Release Suspect

If a suspect is in detention and needs to be released, the Prosecutor would submit an urgent request to the police to release the suspect.

Table 1-23: Release Suspect

Connector	Source	Target	Notes
DataFlow Update Detention Status	4.2 Release Suspect	Detention	
DataFlow Release Request	4.1 Confirm Suspect's Detention Status	4.2 Release Suspect	

2.3.9.8   4.3 Detain Suspect

The Prosecutor determines that the suspect should be in detention. If the suspect is not in detention, a detention warrant should be forwarded to the police. A suspect may only remain in detention for a total of 10 days without trial. Should the Prosecutor require a longer detention period, the request would need to be heard by a judge. A judge may authorise a maximum of 30 days detention.

Table 1-24: Detain Suspect

Connector	Source	Target	Notes
DataFlow Update Detention Status	4.3 Detain Suspect	Detention	
DataFlow Notification	4.3 Detain Suspect	RNP	
DataFlow Detention Request	4.1 Confirm Suspect's Detention Status	4.3 Detain Suspect	

2.3.10. Level 2 IECMS DFD Judiciary - *(Data Flow diagram)*
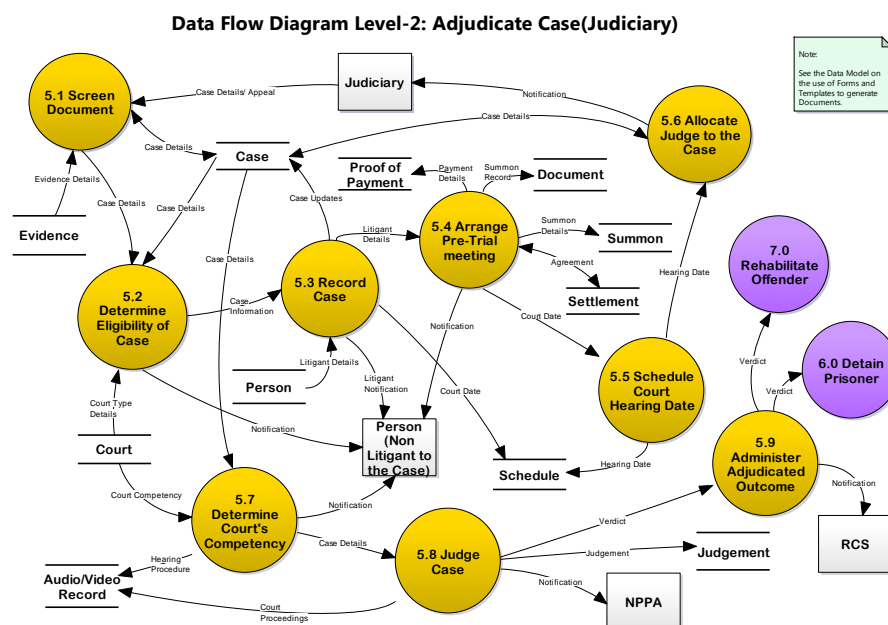
Figure 10: Data Flow Diagram Level 2: Adjudicate Case (Judiciary)

2.3.10.1   5.1 Screen Document

The Registrar needs to check the submissions for completion if it is a non-criminal case. Incomplete non-criminal submissions are rejected.

Table 1-25: Screen Document

Connector	Source	Target	Notes
DataFlow Case Details	5.1 Screen Document	5.2 Determine Eligibility of Case	
DataFlow Case Details/ Appeal	Judiciary	5.1 Screen Document	
DataFlow Evidence Details	Evidence	5.1 Screen Document	
DataFlow Case Details	Case	5.1 Screen Document	Case details/nature of the case

2.3.10.2   5.2 Determine Eligibility of Case

The case is evaluated to determine if it is eligible to be heard in a particular court. The rejection of a case may be appealed. The appeal of a superior court case would be heard by a judge. Appeals for other courts would be heard by the President of the Court.

Table 1-26: Determine Eligibility of Case

Connector	Source	Target	Notes
DataFlow Notification	5.2 Determine Eligibility of Case	Person (Non-litigant to the Case)	
DataFlow Case Information	5.2 Determine Eligibility of Case	5.3 Record Case	
DataFlow Case Details	Case	5.2 Determine Eligibility of Case	
DataFlow Case Details	5.1 Screen Document	5.2 Determine Eligibility of Case	
DataFlow Court Type Details	Court	5.2 Determine Eligibility of Case	

2.3.10.3   5.3 Record Case

The Registrar records the case on to the system with a sequential number by category of crime. A pre-trial hearing date is scheduled.

Table 1-27: Record Case

Connector	Source	Target	Notes
DataFlow Litigant Notification	5.3 Record Case	Person (Non-litigant to the Case)	Notify litigant to reply for submission
DataFlow Case Updates	5.3 Record Case	Case	Update with case number/submission
DataFlow Court Date	5.3 Record Case	Schedule	
DataFlow Litigant Details	5.3 Record Case	5.4 Arrange Pre-Trial meeting	Case/ litigant details
DataFlow Case Information	5.2 Determine Eligibility of Case	5.3 Record Case	
DataFlow Litigant Details	Person	5.3 Record Case	

2.3.10.4   5.4 Arrange Pre-Trial meeting

A pre-trial meeting is compulsory for all non-criminal cases. The Registrar participates in the pre-trial meeting. The meeting is recorded. If an agreement has been reached the agreement would be recorded and the case closed. If no agreement can be arrived at, the case file name is appended with the original court date. Carry Out and Record Pre-trial Meeting

Table 1-28: Arrange Pre-Trial Meeting

Connector	Source	Target	Notes
DataFlow Payment Details	5.4 Arrange Pre-Trial meeting	Proof of Payment	
DataFlow Summon Record	5.4 Arrange Pre-trial meeting	Document	
DataFlow Notification	5.4 Arrange Pre-trial meeting	Person (Non-litigant to the Case)	
DataFlow Summon Details	5.4 Arrange Pre-trial meeting	Summon	
DataFlow Court Date	5.4 Arrange Pre-trial meeting	5.5 Schedule Court Hearing Date	

Connector	Source	Target	Notes
DataFlow Agreement	5.4 Arrange Pre-trial meeting	Settlement	Reached agreement
DataFlow Litigant Details	5.3 Record Case	5.4 Arrange Pre-trial meeting	Case/ litigant details
DataFlow Summon Template	Template	5.4 Arrange Pre-trial meeting	Template to be used for summon

2.3.10.5 5.5 Schedule Court Hearing Date

Schedule a court hearing date. The Chief registrar would propose a suitable date and the President of the Court would make the final decision on the date.

Table 1-29: Schedule Court Hearing Date

Connector	Source	Target	Notes
DataFlow Hearing Date	5.5 Schedule Court Hearing Date	5.6 Allocate Judge to the Case	
DataFlow Hearing Date	5.5 Schedule Court Hearing Date	Schedule	Court hearing date
DataFlow Court Date	5.4 Arrange Pre-trial meeting	5.5 Schedule Court Hearing Date	

2.3.10.6 5.6 Allocate Judge to the Case

The President of the Court appoints a Judge to the case (Seating Order). In turn the Judge needs to determine if any conflicts exists that may precludes him / her from hearing the case.

Table 1-30 Allocate Judge to Case

Connector	Source	Target	Notes
DataFlow Case Details	5.6 Allocate Judge to the Case	Case	
DataFlow Notification	5.6 Allocate Judge to the Case	Judiciary	
DataFlow Hearing Date	5.5 Schedule Court Hearing Date	5.6 Allocate Judge to the Case	

2.3.10.7 5.7 Determine Court's Competency

The competency of the court to hear the case needs to be determined. A commercial and civil case would be cancelled if the court is found to be unable to hear the case. A criminal case would be reallocated to a suitable court.

Table 1-31: Determine Court's Competency

Connector	Source	Target	Notes
DataFlow Notification	5.7 Determine Court's Competency	Person (Non-litigant to the Case)	
DataFlow Case Details	5.7 Determine Court's Competency	5.8 Judge Case	
DataFlow Hearing Procedure	5.7 Determine Court's Competency	Audio/Video Record	
DataFlow Case Details	Case	5.7 Determine Court's Competency	
DataFlow Court Competency	Court	5.7 Determine Court's Competency	

2.3.10.8   5.8 Judge Case

The Judge hears the case after analysing the case files, consulted precedents and applicable laws. The case would be heard on the scheduled date.

Table 1-32: Judge Case

Connector	Source	Target	Notes
DataFlow Judgement	5.8 Judge Case	Judgement	
DataFlow Court Proceedings	5.8 Judge Case	Audio/Video Record	Applicant's argument and defendant's argument
DataFlow Notification	5.8 Judge Case	NPPA	
DataFlow Verdict	5.8 Judge Case	5.9 Administer Adjudicated Outcome	
DataFlow Case Details	5.7 Determine Court's Competency	5.8 Judge Case	

2.3.10.9 5.9 Administer Adjudicated Outcome

The Registrar notifies the parties of the sentence. In the instance of Correctional Service sentence, the Registrar needs to compile a case file to accompany the offender to Correctional Services. Publish selected Judgement on Web site / Law Reporting.

Table 1-33: Administer Adjudicated Outcome

Connector	Source	Target	Notes
DataFlow Notification	5.9 Administer Adjudicated Outcome	RCS	
DataFlow Verdict	5.9 Administer Adjudicated Outcome	7.0 Rehabilitate Offender	
DataFlow Verdict	5.9 Administer Adjudicated Outcome	6.0 Detain Prisoner	
DataFlow Verdict	5.8 Judge Case	5.9 Administer Adjudicated Outcome	

2.3.11. Level 2 IECMS DFD RCS – (Data Flow diagram)

2.3.11.1 Level 2 IECMS DFD Detain Prisoner

DFD Level 2: RCS (Detain Inmate)
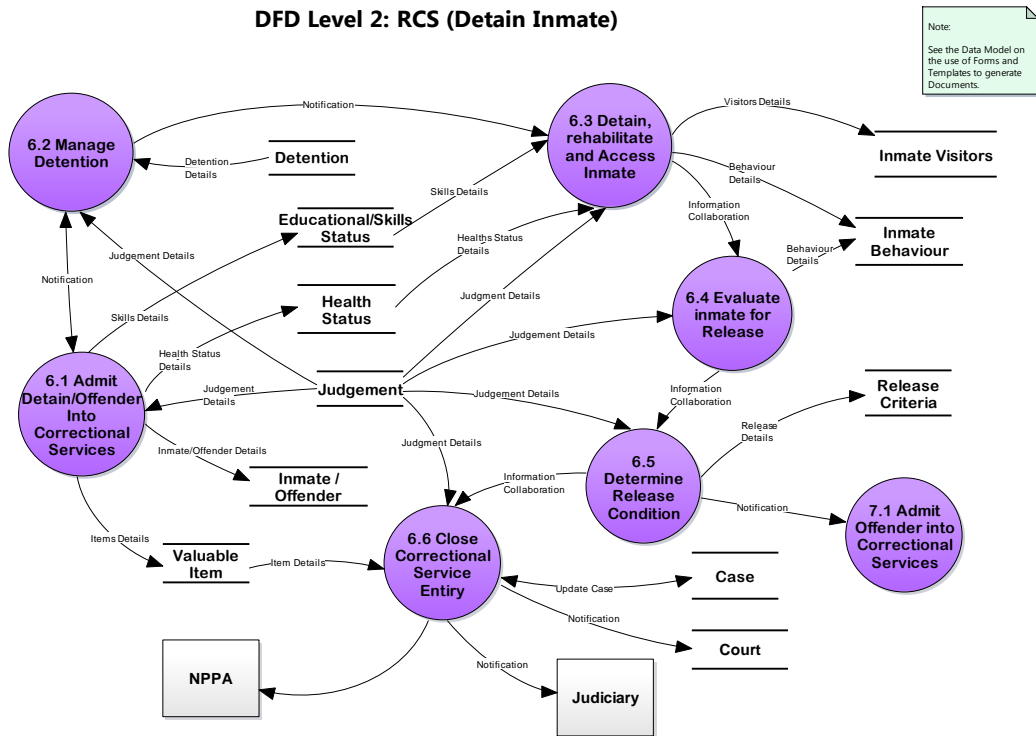
Figure 11: DFD Level 2: RCS (Detain Inmate)

2.3.11.2   Level 2 IECMS DFD Rehabilitate Offender
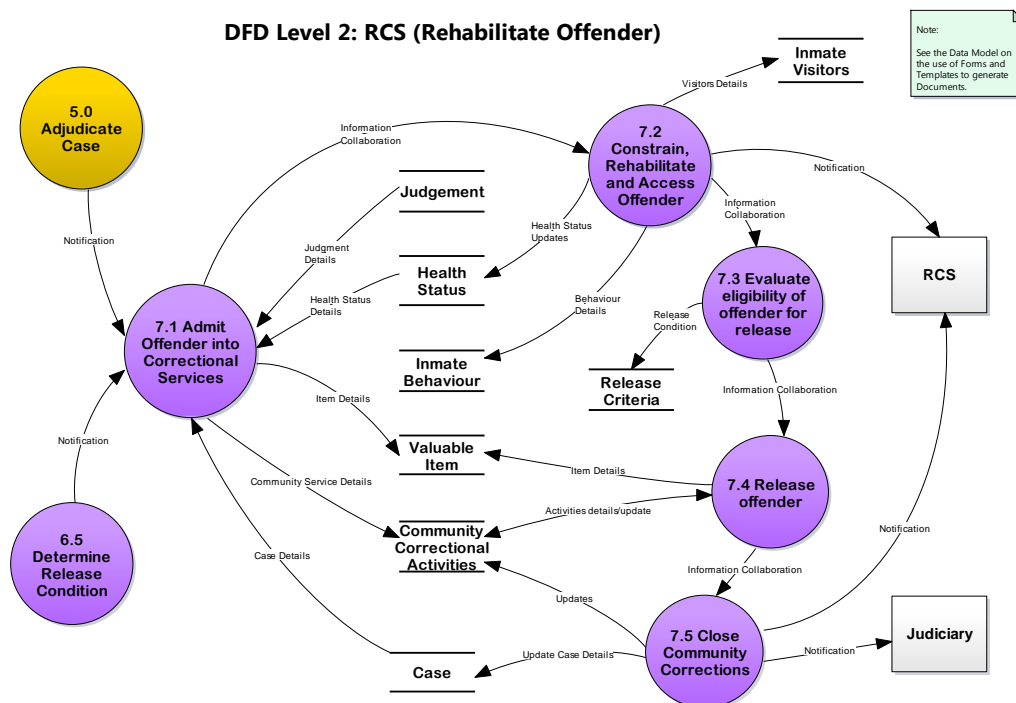
Figure 12: DFD Level 2: RCS (Rehabilitate Offender)

2.3.12. Level 2 IECMS DFD RBA - *(Data Flow diagram)*

2.3.12.1   8.0 Private Litigation Case

DFD Level 2 : Private Litigation Case
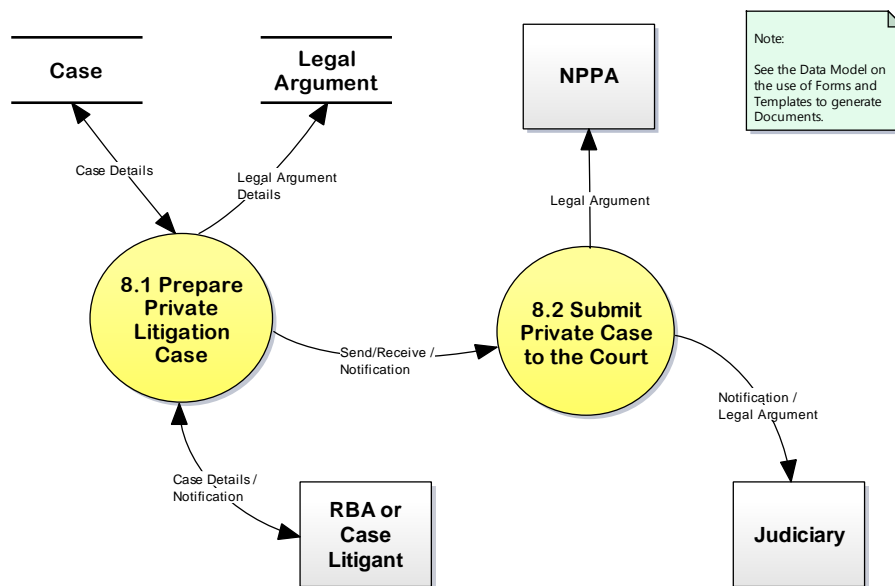
Figure 13: DFD Level 2: Private Litigation Case

2.3.13. Level 2 IECMS DFD MINIJUST - *(Data Flow diagram)*

2.3.13.1   9.0 Public Civil Litigation

DFD Level 2: MINIJUST(Public Civil Litigation)
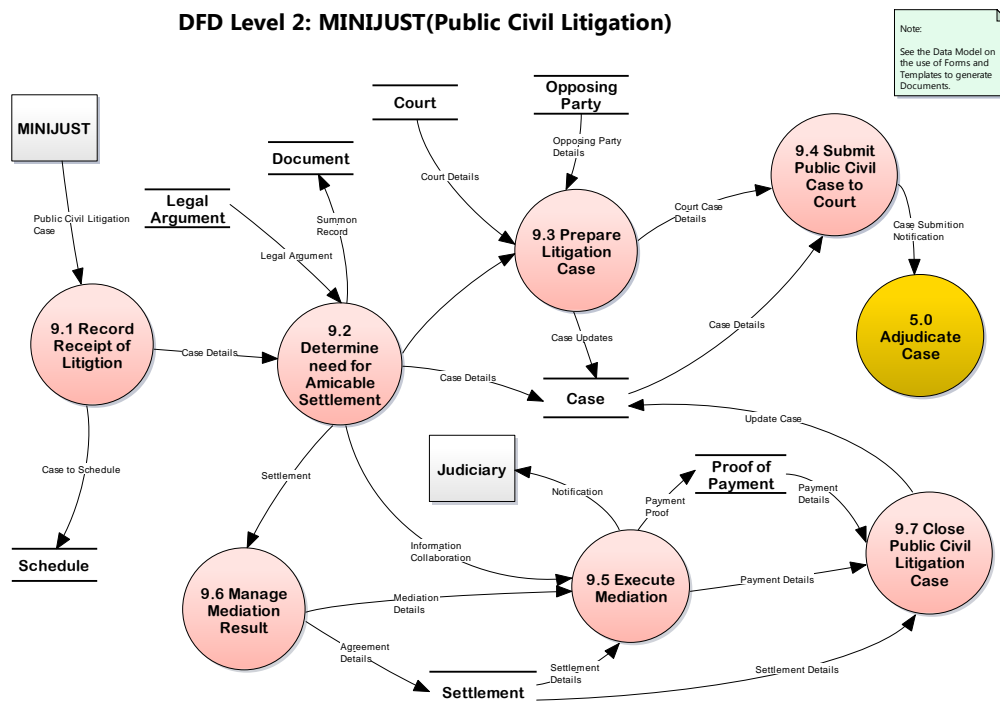
Figure 14: DFD Level 2: MINIJUST (Public Civil Litigation)

2.4. Entity Relationship Diagram

This diagram below represents the full IECMS inclusive of all the applicable JRLOS Institutions such

as:

Relationship
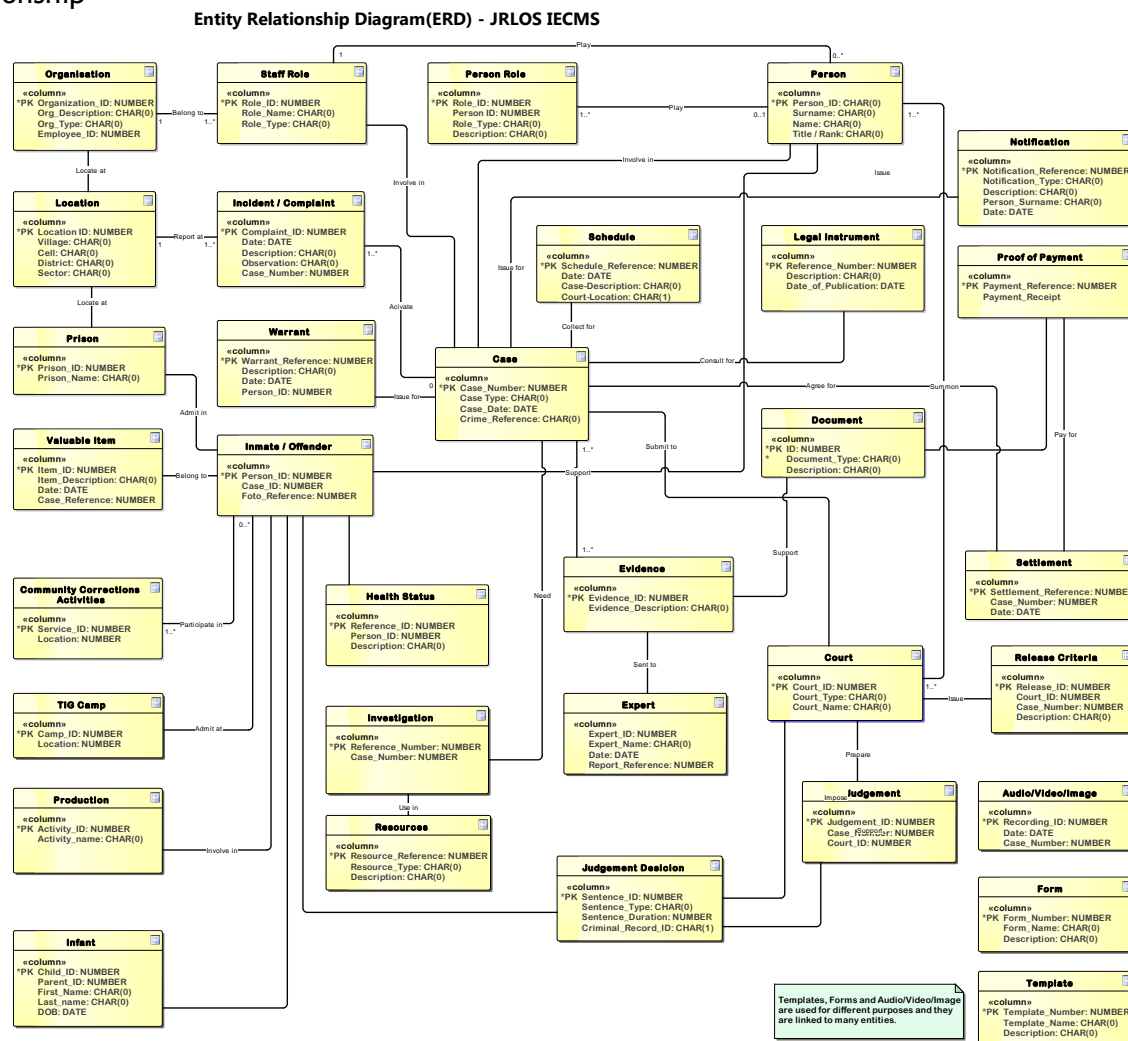
Figure 15: Entity Relationship Diagram (ERD)

2.5. Data Dictionary

This section provides a Catalogue with description of all entities in the proposed Solution Data Architecture.

2.5.1. Audio/Video/Image

The documented recording of all case information in audio or voice medium for a complaint, crime investigation, court hearing, case session or any other proof of record.

Table 1-34: Audio Visual/Image

Attribute	Notes	Constraints and tags
Record ID NUMBER Public		*Default:*
Date DATE Public		*Default:*
Case NUMBER Public		*Default:*

2.5.2. Case

A master file containing all Data and / or Information of the case throughout its total life cycle. This Database FILE contains relationships to all other relevant content of the Complaint, Crime, Prosecutor, Court, Inmate Data and Information etc.

Table 1-35: Case

Attribute	Notes	Constraints and tags
Case NUMBER Private		*Default:*
Case Type CHAR Private		*Default:*
Case DATE Public		*Default:*
Crime Reference CHAR Public		*Default:*

2.5.3. Community Corrections Activities

An official establishment where crime suspects or crime perpetrators serve community service on the order of a Judge inclusive of the duration period, activities, organisation, location and crime committed etc.

Table 1-36: Community Corrections Activities

Attribute	Notes	Constraints and tags
Service_ID NUMBER Public		*Default:*
Location NUMBER Public		*Default:*

2.5.4. Court

A governmental body that adjudicates legal disputes by interpreting and applying the law to specific cases, also called a place of conviction.

Table 1-37: Court

Attribute	Notes	Constraints and tags
Court ID NUMBER Public		*Default:*
Court_Type CHAR Public		*Default:*
Court_Name CHAR Public		*Default:*

2.5.5. Document

A digital store of all the documents data and / or information in relationship to the images and physical inputs and outputs such as:

- Warrants
- Summons
- Receipts
- Reports
- Records
- Statements

2.5.6. Judgment Decisions

Table 1-38: Judgement Decisions

Attribute	Notes	Constraints and tags
ID NUMBER Private		*Default:*
Document_Type CHAR Private		*Default:*
Description CHAR Public		*Default:*

2.5.7. Evidence

Any digital recording of physical or digital elements that could be used in the context of a criminal case to establish a fact.

Table 1-39: Evidence

Attribute	Notes	Constraints and tags
Evidence ID NUMBER Public		*Default:*
Evidence_Description CHAR Public		*Default:*

2.5.8. Expert

A documented store of expert services available or required (on request) e.g. financial, narcotics, biometric, medical, etc.

Table 1-40: Expert

Attribute	Notes	Constraints and tags
Expert ID NUMBER Public		*Default:*
Expert Name CHAR Public		*Default:*
Date DATE Public		*Default:*
Report Reference NUMBER Public		*Default:*

2.5.9. Form

A list of digital applications (e-Form) for easy use with recorded information that contains the results as input or output required such as:

- Receipt
- Application

Table 1-41: Form

Attribute	Notes	Constraints and tags
Form NUMBER Public		*Default:*
Form_Name CHAR Public		*Default:*

Attribute	Notes	Constraints and tags
Description CHAR Public		*Default:*

2.5.10. Health Status

A documented store of data and information produced by the RCS medical services, concerning the health status of an Inmate of Offender.

Table 1-42: Health Status

Attribute	Notes	Constraints and tags
Reference ID NUMBER Public		*Default:*
Person ID NUMBER Public		*Default:*
Description CHAR Public		*Default:*

2.5.11. Incident / Complaint

A documented file with all recorded complaint / incident data and / or information received at an official office at all levels in RNP. This digital file is an input to the Crime Case store inclusive of information relationships to:

- Incident name/description
- Evidence records
- Crime scene location (longitude, altitude)
- Physical address of case stakeholders (complainant, victim, suspect, witness)

Table 1-43: Incident/Complaint

Attribute	Notes	Constraints and tags
Complaint ID NUMBER Private		*Default:*
Date DATE Private		*Default:*
Description CHAR Private		*Default:*
Observation CHAR Private		*Default:*

Attribute	Notes	Constraints and tags
Case Number NUMBER Private		*Default:*

2.5.12. Infant

A documented store of *Infant (French: Nourrisson)* details. Meaning a child under the age of three (3) years, living with the mother in a correctional service place.

Table 1-44: Infant

Attribute	Notes	Constraints and tags
Child_ ID NUMBER Public		*Default:*
Parent ID NUMBER Public		*Default:*
First Name CHAR Public		*Default:*
Last Name CHAR Public		*Default:*
DoB DATE Public		*Default:*

2.5.13. Investigation

Table 1-45: Investigation

Attribute	Notes	Constraints and tags
Reference NUMBER Public		*Default:*
Case NUMBER Public		*Default:*

2.5.14. Inmate / Offender

A store of all the data and / or information of an Inmate or Offender associated to a case which is placed under correctional services, or who is in pre-trial detention, inclusive of all information such as photos, biometric data, sentencing details etc.

Table 1-46: Inmate/Offender

Attribute	Notes	Constraints and tags
Person ID NUMBER		*Default:*

Attribute	Notes	Constraints and tags
Public		
Case ID NUMBER Public		*Default:*
Photo Reference NUMBER Public		*Default:*

2.5.15. Judgement

The documented decision (resolution) issued by a Judge in a judicial case (same as Verdict).

Table 1-47: Judgement

Attribute	Notes	Constraints and tags
Judgement ID NUMBER Public		*Default:*
Case NUMBER Public		*Default:*
Court ID NUMBER Public		*Default:*

2.5.16. Legal Instrument

All data and information of relevance in a case of legislation inclusive of:

- Laws / Policies
- Directives
- Guidelines
- Codes and Standards

Applicable to the crime. Also the set of all judicial precedents are inclusive of:

- Journals
- Law Reports

E.g. A published record (digital or physical) of case judgements.

Table 1-48: Legal Instrument

Attribute	Notes	Constraints and tags
Reference NUMBER Public		*Default:*

Attribute	Notes	Constraints and tags
Description CHAR Public		*Default:*
Date of Publication DATE Public		*Default:*

2.5.17. Location

Documented data or information about the location or position where an incident / complaint or crime took place.

Table 1-49: Location

Attribute	Notes	Constraints and tags
Location ID NUMBER Private		*Default:*
Village CHAR Private		*Default:*
Cell CHAR Private		*Default:*
District CHAR Private		*Default:*
Sector CHAR Private		*Default:*

2.5.18. Notification

Table 1-50: Notification

Attribute	Notes	Constraints and tags
Notification Reference NUMBER Private		*Default:*
Notification Type CHAR Public		*Default:*
Description CHAR Private		*Default:*

Attribute	Notes	Constraints and tags
Person Surname CHAR Private		*Default:*
DATE Public		*Default:*

2.5.19. Organisation

An establishment or organisation to pursue a particular type of endeavour such as ministries, institutions, agencies, etc.

Table 1-51: Organisation

Attribute	Notes	Constraints and tags
Organisation ID NUMBER Public		*Default:*
Organisation Description CHAR Private		*Default:*
Organisation Type CHAR Private		*Default:*
Employee ID NUMBER Private		*Default:*

2.5.20. Person

A store of unique identity of a person in digital medium (e.g. biometric etc.), irrespective of whether or not the person is a citizen of the country of Rwanda, inclusive of the people in the community to serve a role in a case such as a person who requests or seeks legal assistance.

Table 1-52: Person

Attribute	Notes	Constraints and tags
Person ID CHAR Private		*Default:*
Surname CHAR Private		*Default:*
Name CHAR Private		*Default:*

Attribute	Notes	Constraints and tags
Title / Rank CHAR Private		*Default:*

2.5.21. Person Role

A store of unique identity qualities of a person in digital medium (e.g. biometric etc.), irrespective of whether or not the person is a citizen of the country of Rwanda, inclusive of the people in the community to serve a role in a case such as a person who requests or seeks legal assistance such as:

- Complainant
- Victim
- Suspect
- Witness
- Detainee

Table 1-53: Person Role

Attribute	Notes	Constraints and tags
Role ID NUMBER Public		*Default:*
Person ID NUMBER Private		*Default:*
Role Type CHAR Private		*Default:*
Description CHAR Private		*Default:*

2.5.22. Prison

Table 1-54: Prison

Attribute	Notes	Constraints and tags
Prison ID NUMBER Public		*Default:*
Prison Name CHAR Public		*Default:*

2.5.23. Production

Table 1-55: Production

Attribute	Notes	Constraints and tags
Activity ID NUMBER Public		*Default:*
Activity_name CHAR Public		*Default:*

2.5.24. Proof of Payment

A store containing a set of Proof of Records (Receipts) for the amount of money paid by the offender for an offense. This can be in digital or image (scanned physical) medium.

Table 1-56: Proof of Payment

Attribute	Notes	Constraints and tags
Payment_Reference NUMBER Public		*Default:*
Payment Receipt Public		*Default:*

2.5.25. Release Criteria

A documented proof of an Inmate or Offenders' release conditions. Inclusive of Presidential Pardon, Parole, Conditional Release, Death in detention etc.

Table 1-57: Release Criteria

Attribute	Notes	Constraints and tags
Release ID NUMBER Public		*Default:*
Court ID NUMBER Public		*Default:*
Case NUMBER Public		*Default:*
Description CHAR Public		*Default:*

2.5.26. Resources

A documented list of any Physical or Digital equipment (documents, CD, tapes) or Non-Physical (Time discrepancy, etc.) elements that could be used in the context of a judicial case to establish a fact such as:

- Equipment Checklist
- Vehicles

Also the Staff, Vehicle and Equipment used at a Crime Scene during investigation.

Table 1-58: Resources

Attribute	Notes	Constraints and tags
Resource Reference NUMBER Public		*Default:*
Resource Type CHAR Public		*Default:*
Description CHAR Public		*Default:*

2.5.27. Schedule

A digital calendar indicating the date and time booking for a hearing, court session for cases inclusive of:

- The stakeholders / persons been registered and / or allocated to the case
- The location of the booked session / hearing

Table 1-59: Schedule

Attribute	Notes	Constraints and tags
Schedule Reference NUMBER Public		*Default:*
DATE Public		*Default:*
Case Description CHAR Public		*Default:*
Court Location CHAR Public		*Default:*

2.5.28. Judgement Decision

A documented list of the final decisions produced by a Judge at the conclusion of a judicial case. A Clearance Certificate Record of crimes for which a defendant has been previously convicted will be generated / produces from this store.

Table 1-60: Judgement Decision

Attribute	Notes	Constraints and tags
Sentence ID NUMBER Public		*Default:*
Sentence Type CHAR Public		*Default:*
Sentence Duration NUMBER Public		*Default:*
Criminal Record ID CHAR Public		*Default:*

2.5.29. Settlement

A documented store with any data and/or information indicating the points of agreement between two parties in the resolution of a dispute.

Table 1-61: Settlement

Attribute	Notes	Constraints and tags
Settlement Reference NUMBER Public		*Default:*
Case NUMBER Public		*Default:*
DATE Public		*Default:*

2.5.30. Staff Role

A store of unique identity in digital medium (e.g. biometric etc.) of a person, irrespective of the person is a citizen or not of the country of Rwanda, inclusive of the Staff Role for people such as:

- Judicial Police Officer
- Prosecutor

- Judge

Table 1-62: Staff Role

Attribute	Notes	Constraints and tags
Role ID NUMBER Public		*Default:*
Role Name CHAR Public		*Default:*
Role Type CHAR Public		*Default:*

2.5.31. TIG Camp

Table 1-63: TIG Camp

Attribute	Notes	Constraints and tags
Camp ID NUMBER Public		*Default:*
Location NUMBER Public		*Default:*

2.5.32. Template

A list of digital applications (e-Template) for easy use with recorded information that contains the results as input or output required such as:

- Documents
- Records
- Reports

Table 1-64: Template

Attribute	Notes	Constraints and tags
Template NUMBER Public		*Default:*
Template Name CHAR Public		*Default:*
Description CHAR Public		*Default:*

2.5.33. Valuable Item

A documented list of all valuable items (inclusive of money, telephones etc.) present on a person at intake to the correctional service for safeguarding until release.

Table 1-65: Valuable Item

Attribute	Notes	Constraints and tags
Item ID NUMBER Public		*Default:*
Item Description CHAR Public		*Default:*
Date Public		*Default:*
Case Reference NUMBER Public		*Default:*

2.5.34. Warrant

A documented store of warrants issued by an Authority in the context of criminal cases to arrest persons.

Table 1-66: Warrant

Attribute	Notes	Constraints and tags
Warrant Reference NUMBER Public		*Default:*
Description CHAR Public		*Default:*
Date Public		*Default:*
Person ID NUMBER Public		*Default:*

3. Data Integration

3.1. Overview

To support the various processes and the seamless integration of data, data needs to be shared between institutions. There are 2 types of data integration:

- External to other institutions or to this proposed solution architecture
- Internally between the 6 JRLOS institutions and within the context of this Solution Architecture

3.2. External Integration

There are two potential external integration requirements:

- NIDA to get a person's information
- RRA to get vehicle information
- RNRA to get Land Registration information
- DGEI to get Immigration information to determine if a person is legally in Rwanda

Integration to these Institutions and Systems needs to be via services as will be explained in the Technology Infrastructure architecture.

3.3. Internal Integration

In general case information needs to be shared between institutions. This will be done on a database level.

Table 3-1: Data Integration

Source Institution	Data Object	Target Institution
Rwanda National Police	Police Case	National Public Prosecution Authority
National Public Prosecution Authority	Prosecution Case	Judiciary
Judiciary	Criminal Record	Rwanda Correctional Services
Bar Association	Legal Argument	Judiciary
MINIJUST	Legal Argument	Judiciary

This data level integration will be achieved as follows:

There will be one data schema implemented on the Data Server. This schema will cover the complete data requirement for IECMS. Every institution will have a view on the data schema based on their respective ownership. Security will be implemented on a data object level. This is done by assigning a role to a user and in turn assigning that user and role to a data object.