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PART D	_		
RCH REQUIREMENTS	TERPRISE SE	E	

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D1 INTRODUCTION

D1.1 Background

Rail Corporation New South Wales (RailCorp) is the new rail entity established to provide passenger rail services for metropolitan NSW. It has been formed through the merger of the State Rail Authority of NSW (SRA) and the Rail Infrastructure Corporation (RIC).

On 1st January 2004, RailCorp was formally established as a new state-owned corporation that has as its main focus the provision of a safe, clean, secure and reliable metropolitan passenger rail service.

RIC and SRA both independently commissioned requirement and scoping studies in March and June 2003 to capture Electronic Document Management (EDMS) requirements for their respective organisations. A decision to merge this project at a shared business services level and then the subsequent RailCorp merger put this requirement on hold.

The RailCorp merger brings together two substantial organisations, each with their own business processes, technologies and information management practices, in addition to a range of internally and externally facing websites. As a result, RailCorp's information environment today lacks integration and suffers substantial inefficiencies and quality shortfalls. Specifically:

- Relevant, reliable information is not always readily available to business process owners;
- Information that is available is highly distributed (across many different web sites and repositories), and therefore difficult to locate;
- A great deal of human effort is required to manage information stored in multiple locations (this information is often duplicated many times)
- ICT support is stretched across an excessive number of applications and technologies, thereby reducing its overall effectiveness and efficiency;
- Various information management related projects are working in isolation from each other towards goals that may not be aligned.

Addressing these problems requires an approach that effectively tackles high priority issues, while working towards a strategic, whole-of-enterprise outcome. This is the approach taken for the Enterprise Content Management (ECM) Program.

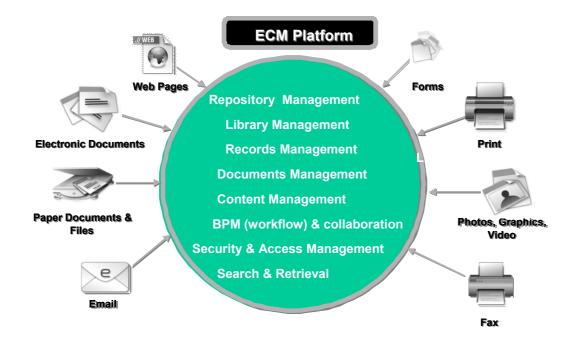
D1.2 Business Rationale

The implementation of an enterprise-wide content management strategy will enable RailCorp to manage its content (including electronic documents, records, and web content) consistently and effectively across the organisation. It will also support business improvement efforts through the strategic adoption of web technology. This will deliver the following benefits:

- Provide business divisions with a greater degree of control and confidence over the integrity of information;
- Provide a single view of organisational information with a single source;
- Improve the value of information over time by supporting its re-use, improving quality and relevance, and ensuring ease of use;
- Support the organisation's needs for collaboration, knowledge management and process improvement;
- Reduce the time and effort involved and improve efficiency in creating, storing, accessing, using and disposing of information;

- Improve RailCorp's compliance with corporate policy and legislative requirements, and
- Provide a consistent foundation for future technology investments and enable better Return on Investment (ROI)

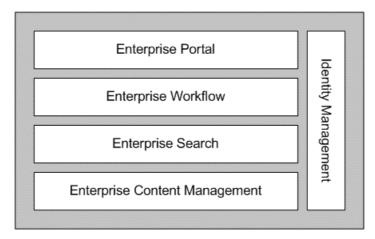
The following diagram represents a generic architecture of an Enterprise Content Management platform that provides the capability to store and manage all RailCorp's structured and unstructured content in a central repository using the same tools across the organisation.



D2 IMPLEMENTATION STRATEGY

The strategy will see the deployment of common information management policy and standards, and common ECM and Enterprise Search technology across key information categories within a two-to-three year timeframe. All or most of RailCorp's controlled documents, corporate records, engineering drawings, and web content are within the scope of this strategy.

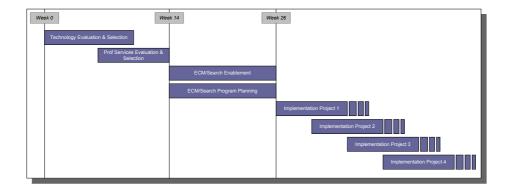
ECM will be implemented within a broader technology architecture, represented below, comprising enterprise portal, workflow and identity management components. These additional technologies are pre-existing in RailCorp, however they are yet to be implemented as a single integrated stack.



The scope of this RFT covers the selection and procurement of the Enterprise Search platform only.

The ECM Program of Works will begin on completion of the tendering process, and will cover three major phases:

- 1. *Planning and Enablement* (0-3 months): Covering the core architecture, design, standards development, environment set-up, and base integration.
- 2. Core Program Implementation (3-18 months): Covering migration from existing technologies, and the implementation of priority business projects.
- 3. Extended Business Implementation (18-36 months): Covering ongoing business solution deployment.



The timeline above provides an indicative overview of timing, covering both the tendering process and the planning and enablement phases of the ECM Program.

D3 SEARCH SCOPE

• The scope covers the acquisition of a single, scalable Enterprise Search technology platform.

D4 DEPLOYMENT / LICENSING CONSIDERATION

RailCorp's proposed deployment of the Search platform will be based on a staged approach as outlined below:

Stage	Timeline	Scope	Estimated No of users
1	0 - 3 months	Baseline deployment	1 - 100 users
2	3 - 18 months	Prioritised projects	101 - 500 users
3	18 - 36 months	Full corporate deployment	501 – 5000 users

Stage	End Users	System Admin	Taxonomists/ Specialist Users
1	100	2	2
2	101-500	5	5
3	501-5000	10	20

The detailed description for the user categories is as follows:

1. **End users**: E.g. accessing the search capabilities via the Extranet directly

or via collaboration facilities

2. System administrators: monitoring, configuring, reporting (exception, audit), resolving

lock-outs, etc

3. **Taxonomists**/ Eg. web designers, information architects, taxonomists and

Specialist users associated roles.

D5 DELIVERABLES

The Contractor will deliver the following as part of the proposed solution:

- Search Software Platform (1 or more products)
- Infrastructure Specification in accordance with Section D6.
- Training Services (System and End User) in accordance with Section D7.
- System and User documentation and/or manuals in accordance with Section D8.
- Maintenance and Support Services in accordance with Section D9.
- Proof of Concept (POC), if requested by RailCorp.

D6 INFRASTRUCTURE SPECIFICATION

D6.1 Services Required

The Contractor shall provide RailCorp with an Infrastructure Specification outlining the hardware and software configuration required to support the base level deployment of the Search platform. The response must be aligned to RailCorp's architectural standards as detailed in the RailCorp's Technical Reference Model - Appendix 5 of Part D.

The specification needs to include but will not restricted to the following:

- Hardware Requirements eg hardware sizing, CPU capability, storage requirements etc
- Additional software requirements e.g. Web Server
- Network Requirements
- Security
- System Administration
- Integration.

D6.2 Deliverables

Hardware Specification in accordance with D7.1.

D6.3 Review of Deliverables

On receipt of the deliverables, RailCorp will review them for quality and completeness and seek further clarification as necessary.

D7 TRAINING SERVICES

D7.1 Services Required

The Contractor must provide Search training based upon a proposal aligned with the Enterprise Search staged deployment plan. Training may occur either on or off site and may include:

- Specific End-User training courses
- Train the Trainer Training
- System Administration Training
- Tailored Training, etc.

D7.2 Deliverables

The deliverables include:

- Training Course Materials PowerPoint presentation and accompanying Notes;
- User Guides, incorporating the modifications to the software package, and
- Training Sessions on or off-site

Training will be required as a business-readiness activity prior to deployment. Post-implementation, the Contractor may be requested on a needs basis to re-train RailCorp resources or conduct training for new users.

D7.3 Review of Deliverables

On receipt of the staged Training Proposal, RailCorp will review it for quality and completeness and may seek further clarification as necessary in order to finalise it.

D8 SYSTEM & USER DOCUMENTATION

D8.1 Services Required

In addition to the hard copies, the Contractor shall provide RailCorp with a soft copy of all system and user documentation for the proposed Search platform. Version control will apply to all documents.

The Contractor shall grant RailCorp a perpetual licence to copy the system documentation for use by RailCorp in the maintenance and operation of the system, and for future changes to the system. The Contractor will provide documentation that covers but is not limited to the following:

- Installation of the product
- General architectural and system interfaces
- Configuration, general and security administration.
- Customisation and troubleshooting information, such as error message descriptions and troubleshooting techniques.
- Minimum documentation specification required from the business for the Search system administration team to integrate the business application.

D8.2 Deliverables

- System Documentation
- User Guides or Manuals

D8.3 Review of Deliverables

On receipt of these deliverables, RailCorp will review them for quality and completeness and seek further clarification as necessary.

D9 MAINTENANCE & SUPPORT SERVICES

D9.1 Maintenance & Support Services

D9.1.1 Services Required

The Contractor will be required to provide ongoing maintenance and support services for the Search platform over an initial three (3) year period from the end of the Warranty Period or as otherwise agreed.

After the implementation of the Search platform, RailCorp will enter into an agreement with the Contractor for ongoing maintenance and support of the system. The maintenance and support agreement will include but is not limited to:

- Technical Services Support
- Help Desk Support
- Warranty Support
- Implementation support
- Upgrades and Version Changes

RailCorp shall retain the option to delay or not to accept any subsequent software releases (upgrades), without jeopardising the maintenance and support agreement.

The Contractor must as a minimum ensure that the:

- Supported Software conforms to and performs in accordance with the Contract Specifications;
- Supported Software performs in accordance with the agreed Service Levels; and
- Documentation is provided in accordance with the Maintenance and Support Agreement.

D9.1.2 Deliverables

- List of all types of services supplied relevant to the Search platform;
- For each type of service, details of level of support/service and applicable costs, and
- Proposal indicating Maintenance and Support plans offered for the Search platform. This proposal shall also include both technical services and help desk support services.

D9.2 Warranty Period Support

The Contractor shall provide software support for the Search platform during the Warranty Period, in accordance with the following service levels:

Severity Type	Response Time	Resolution Time
Critical	30 minutes from initial notification	Within 24 hours.
High	60 minutes from initial notification	Within 48 hours.
Medium	4 hours from initial notification	By end of 5 business days hence
Low	1 day from initial notification	By end of 10 business days hence

The Warranty period will be one hundred and twenty (120) working days from the date of notification of acceptance of the system by RailCorp.

Problems raised by RailCorp during the Warranty Support Period that are classified as a defect will be corrected by the Contractor at no cost to RailCorp.

Note: "Fixes" shall be delivered to RailCorp via a medium such as CD.

D9.3 Implementation Support

D9.3.1 Services Required

The Contractor will provide access to an on-call technical expert for the duration of ECM Enablement (3-18 months) to ensure expedient resolution of any technical queries and issues. The expected services will include installation, testing, implementation support and problem resolution activities.

D9.3.2 Deliverables

Provision of a technical expert as outlined in D9.3.1

D9.4 Review of Deliverables

On receipt of these deliverables, RailCorp will review them and may seek further clarification as necessary.

Appendices

APPENDIX 1 – GLOSSARY

Term	Definition
ЕСМ	Enterprise Content Management
EDRM	Electronic documents and records management
RFT	Request for Tender
VPR	Virtual Plan Room
	The Virtual Plan Room Project - will utilise ECM, Search and Portal technologies to establish and provide distributed access to a secure repository of engineering plans and drawings. The VPR system will be integrated with existing CAD, ERP and GIS systems. It will provide workflow support to engineering business processes and will enable a smooth transition from existing paper-based processes. Dependencies exist between this project and a tactical project to implement an Interim Engineering Drawing Management System (TRIM-based). Plans – already underway - to improve and upgrade the RailCorp GIS environment will also impact this project.
WCMS/Web Channel Redevelopment	The Web Channel Redevelopment project will progressively redevelop RailCorp's web channels beginning with the Employee Web Channel (intranet) and moving on to Public (internet) and Third Party (extranet) Channels. The project will establish a common technology platform (based on ECM, Search and Portal technology) and governance model across all Web Channels. The implementation of this technology platform will include migration from and decommissioning of existing web technologies (including current websites and related technologies, the Red Dot and My Source Matrix content management systems, and Windows Sharepoint Services).
Safety Document & Records Management Compliance	This project will deliver a document and records management solution to support the compliant management and distribution of Safety information in RailCorp, covering electronic and hardcopy documents and records. The project will include the integration of the ECM platform with SKMS.

APPENDIX 2 – SUMMARY OF NSW RECORDKEEPING METADATA STANDARD

Elements, qualifiers and value components in the NRKMS

This section provides a summary listing of all elements, element qualifiers and value components contained in the NSW Recordkeeping Metadata Standard.

All the standard's elements are further described in Part 2, the technical specification. The technical specification lists each element, element qualifier and value component in the standard in detail. It also provides guidance regarding their implementation.

Version control

All data values in this standard have the version number of NSW Recordkeeping Metadata Standard Version 1.0

Record entity

Record entity metadata is used to describe records or aggregations of records in a public office. Record entity metadata can be applied to individual record items such as email messages through to files, records series, record systems or other aggregations of records.

Number	Element	Number	Qualifiers and/or components
NRKMS 1	Category Type	None	None
NRKMS 2	Identifier	NRKMS 2.1 NRKMS 2.2	Element qualifiers Barcode
			Domain
NRKMS 3	Title	NRKMS 3.1 NRKMS 3.2	Element qualifiers Alternative Title
		NRKMS 3.2	Abbreviated Title
		1414440000	Title Date
NRKMS 4	Date	NRKMS 4.1	Element qualifiers
		NRKMS 4.2	Creation Date
		NRKMS 4.3	Registration Date
		NRKMS 4.4	Transfer Date
			Contents Date Range
NRKMS 5	Mandate	NRKMS 5.1	Value components
		NRKMS 5.2	Mandate Title
		NRKMS 5.3	Mandate Type
		NRKMS 5.4	Mandate Identifier
		NRKMS 5.5	Mandate Date
		NRKMS 5.6	Mandate Description
			Mandate Jurisdiction
NRKMS 6	Place	NRKMS 6.1	Element qualifiers
		NRKMS 6.2	Store Location
		NRKMS 6.3	Current Location
			Value component
			Place Date
NRKMS 7	Function	NRKMS 7.1	Element qualifiers
		NRKMS 7.2	Function Descriptor
		NRKMS 7.3	Activity Descriptor
			Transaction Descriptor
			Value components
			Identifier
		NRKMS 7.4	Date
		NRKMS 7.5	Description
		NRKMS 7.6	

			To a contract of the contract
NRKMS 8	Relation	1	Value components
	I	1	Related Entity Identifier
	I	1	Relationship Type
		NRKMS 8.1	Relationship Date
		NRKMS 8.2	Relationship Mandate
		NRKMS 8.3	Relationship Business Rules
		NRKMS 8.4	
		NRKMS 8.5	
NRKMS 9	Description	None	None
NRKMS	Language	None	None
10	Language	Tone	The state of the s
NRKMS	Agent *	NRKMS 11.1	Element qualifiers
11	"	NRKMS 11.2	Creator
		NRKMS 11.3	Contributor
		NRKMS 11.4	Recipient
		NRKMS 11.5	Authorising Agent
		INITIATION 11.5	Organisation Responsible
	I	NRKMS 11.6	Value components
	I	NRKMS 11.7	Identifier
		INKKIVIS I I./	
NIDIZAZO	Cubic -4	NDKMO 40 4	Digital signature
NRKMS	Subject	NRKMS 12.1	Value components
12		NRKMS 12.2	Subject Identifier
		NRKMS 12.3	Subject Date
			Subject Description
NRKMS	Documentary	None	None
13	Form		
NRKMS	Preservation	NRKMS 14.1	Element qualifiers
14		NRKMS 14.2	Storage
			Original Creation Environment
		NRKMS 14.3	Conversion
		NRKMS 14.4	Refreshment
		NRKMS 14.5	Migration
		NRKMS 14.6	Conservation
		1444400 11.0	Value components
			Preservation Statement
			Preservation Date
		NIDIZME 14.7	
	I	NRKMS 14.7	Preservation Mandate
	I	NRKMS 14.8	Preservation Business Rules
	I	NRKMS 14.9	Preservation System Specifications
		NRKMS 14.10	
	I	LIBIO 44 44	
		NRKMS 14.11	
NRKMS	Retrieval	NRKMS 14.11 NRKMS 15.1	Element qualifiers
NRKMS 15	Retrieval	_	
	Retrieval	NRKMS 15.1	Rendering
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3	Rendering Representation
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4	Rendering Representation Value components
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5	Rendering Representation Value components Retrieval Statement
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6	Rendering Representation Value components Retrieval Statement Retrieval Date
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate
	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate Retrieval Business Rules
15		NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6 NRKMS 15.7	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate Retrieval Business Rules Retrieval System Specifications
15 NRKMS	Retrieval	NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6 NRKMS 15.7	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate Retrieval Business Rules Retrieval System Specifications Element qualifiers
15		NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6 NRKMS 15.7	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate Retrieval Business Rules Retrieval System Specifications Element qualifiers Disposal Authorisation
15 NRKMS		NRKMS 15.1 NRKMS 15.2 NRKMS 15.3 NRKMS 15.4 NRKMS 15.5 NRKMS 15.6 NRKMS 15.7	Rendering Representation Value components Retrieval Statement Retrieval Date Retrieval Mandate Retrieval Business Rules Retrieval System Specifications Element qualifiers

		h .=	E
		NRKMS 16.5	Disposal Statement
l		NRKMS 16.6	Disposal Date
			Disposal Mandate
		NRKMS 16.7	Disposal Business Rules
			Disposal Systems Specifications
NRKMS	Control	NRKMS 17.1	Element qualifiers
17		NRKMS 17.2	Registration
		NRKMS 17.3	Classification
		NRKMS 17.4	Indexing
		NRKMS 17.5	Context Description
			Metadata Management
		NRKMS 17.6	Arrangement
		NRKMS 17.7	Value components
		NRKMS 17.8	Control Statement
		NRKMS 17.9	Control Date
		NRKMS 17.10	Control Mandate
		NRKMS 17.11	Control Business Rules
			Control Systems Specifications
NRKMS	Access	NRKMS 18.1	Element qualifiers
18		NRKMS 18.2	Access Rights
		NRKMS 18.3	Access Restrictions
		NRKMS 18.4	Access Conditions
		NRKMS 18.5	Security Classification
		NRKMS 18.6	Value components
		NRKMS 18.7	Access Statement
		NRKMS 18.8	Access Date
		NRKMS 18.9	Access Mandate
		Turano rolo	Access Business Rules
			Access Systems Specifications
NRKMS	Use	NRKMS 19.1	Element qualifiers
19		NRKMS 19.2	Use Rights
'		NRKMS 19.3	Use Restrictions
		NRKMS 19.4	Use Conditions
		NRKMS 19.5	Value components
		NRKMS 19.6	Use Statement
		NRKMS 19.7	Use Date
		NRKMS 19.8	Use Mandate
		THAT AND TO.	Use Business Rules
			Use Systems Specifications
NRKMS	Event History	NRKMS 20.1	
20	Event history	NRKMS 20.1	Value components Event Type
1 20		NRKMS 20.2	Event Description
		NRKMS 20.3	Event Identifier
		NRKMS 20.4 NRKMS 20.5	Event Date
		INTERIOR 20.3	Event History Mandate
		NRKMS 20.6	Event History Business Rules
		INTRIVIS 20.0	
		NRKMS 20.7	Event History Systems Specifications Action Officer
			Action Officer
	 	NRKMS 20.8	1
^		data element shou	ld only be used if Agent entity metadata is not
	employed.		

Agent entity

Agent entity metadata is used to describe all agents in a public office. Agent entity metadata can be applied to individual staff, workgroups or organisations.

Number	Element	Number	Qualifiers and/or components
NRKMS 21	Category Type	None	None
NRKMS 22	Identifier	NRKMS 22.1	Element qualifier Domain
NRKMS 23	Title	NRKMS 23.1 NRKMS 23.2 NRKMS 23.3	Element qualifiers Alternative Title Abbreviated Title Value component Title Date
NRKMS 24	Date	NRKMS 24.1 NRKMS 24.2 NRKMS 24.3	Element qualifiers Commencement Cessation Operational Period
NRKMS 25	Mandate	NRKMS 25.1 NRKMS 25.2 NRKMS 25.3 NRKMS 25.4 NRKMS 25.5 NRKMS 25.6	Value components Title Type Identifier Date Description Jurisdiction
NRKMS 26	Place	NRKMS 26.1 NRKMS 26.2 NRKMS 26.3	Element qualifiers Business Address Contact Address Value component Place Date
NRKMS 27	Function	NRKMS 27.1 NRKMS 27.2 NRKMS 27.3 NRKMS 27.4 NRKMS 27.5 NRKMS 27.6	Element qualifiers Function Descriptor Activity Descriptor Transaction Descriptor Value components Identifier Date Description
NRKMS 28	Relation	NRKMS 28.1 NRKMS 28.2 NRKMS 28.3 NRKMS 28.4 NRKMS 28.5 NRKMS 28.6	Value components Related Entity Identifier Relationship Type Relationship Definition Relationship Date Relationship Mandate Relationship Business Rules
NRKMS 29	Description	None	None
NRKMS 30	Language	None	None

Function entity

Function entity metadata is used to describe all business functions performed by a public office. Function entity metadata can be applied to individual transactions, business activities or broad business functions.

Number	Element	Number	Qualifiers and/or components
NRKMS 31	Category Type	None	None
NRKMS 32	Identifier		Element qualifier Domain

NRKMS 33	Title	NRKMS 33.1	Element qualifiers
		NRKMS 33.2	Alternative Title
		NRKMS 33.3	Abbreviated Title
			Value component
			Title Date
NRKMS 34	Date	NRKMS 34.1	Element qualifiers
		NRKMS 34.2	Date of Execution
		NRKMS 34.3	Date of Implementation
NIDIANO OF	N 4 = 12 = 4 = 4 =	NDKMO 05 4	Dates of Validity
NRKMS 35	Mandate	NRKMS 35.1 NRKMS 35.2	Value components Title
		NRKMS 35.2	Туре
		NRKMS 35.3	Identifier
		NRKMS 35.5	Date
		NRKMS 35.6	Description
		INTUINO 33.0	Jurisdiction
NRKMS 36	Place	NRKMS 36.1	Element qualifiers
		NRKMS 36.2	Business Activity Area
		NRKMS 36.3	Service Delivery Point
			Value component
			Place Date
NRKMS 37	Function	NRKMS 37.1	Element qualifiers
		NRKMS 37.2	Function Descriptor
		NRKMS 37.3	Activity Descriptor
		NRKMS 37.4	Transaction Descriptor
		NRKMS 37.5	Value components
		NRKMS 37.6	Identifier
			Date
NDKMO 00	Deletiere	NDKMO 00 4	Description
NRKMS 38	Relation	NRKMS 38.1	Value components
		NDKW6 30 3	Related Entity Identifier
		NRKMS 38.2 NRKMS 38.3	Relationship Type Relationship Definition
		NRKWS 38.4	Relationship Date
l		NRKWS 38.5	Relationship Date Relationship Mandate
		NRKMS 38.6	Relationship Business Rules
NRKMS 39	Description	None	None
NRKMS 40	Language	None	None
NRKMS 41	Business	NRKMS 41.1	Business Rules Identifier
	Rules		Business Rules Date
l		NRKMS 41.2	Business Rules Description
		NRKMS 41.3	System Specifications
		NRKMS 41.4	
		PALAINIO 41.4	<u> </u>

APPENDIX 3 - KEY CRITERIA FOR ENTERPRISE SEARCH

APPENDIX 4 – DETAILED CRITERIA FOR ENTERPRISE SEARCH

APPENDIX 5 - RAILCORP TECHNICAL REFERENCE MODEL