

IAG Meeting SH RCA

State Highways Road Control Authority
August 2024



Te Kāwanatanga o Aotearoa
New Zealand Government



AMDS State highways implementation

AMDS State Highways | Key dates and activities

Milestone	Date
✓ <i>Train-the-Trainer completed</i>	<i>Completed</i>
Training completed	September 2024
Migration starts	10 October 2024
Performance / Achievement reporting	11 November 2024

No changes to previous dates communicated.

NOTE: Project support continues post migration until closure – February 2025.

AMDS State Highways | Integration update

Progress to date:

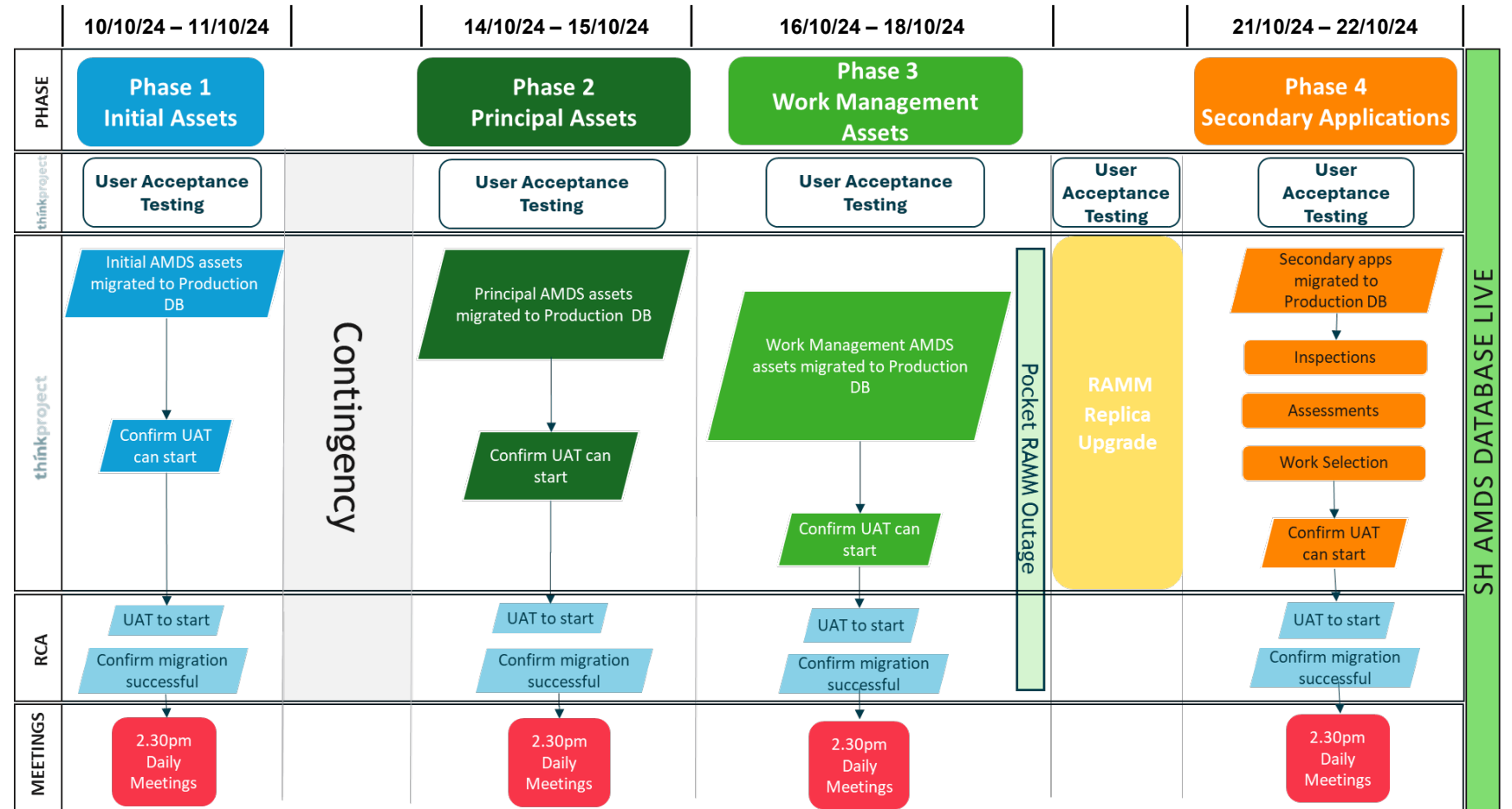
- ✓ SHDOM alignment to AMDS - change to make compatible with AMDS quick reference guides and learning material.
- ✓ State Highways AMDS production environment - Upgrade has been completed.
- ✓ Notice To Contractor – in progress, draft has been sent out for review and feedback.

Next steps:

- SHDOM alignment to AMDS - continue transformation of SHDOM to new format.
- Notice To Contractor – Incorporate feedback and get approval to send.
- Thinkproject Migration Planning – kick off meeting with NZTA and Suppliers.

AMDS State Highways | Data migration schedule

- Migration is run over 2-week duration run in 4 phases.
- Weekends will be reserved for contingency and updating NZTA RAMM Replica database.
- Migration Planning standup meetings start in August.
- Pocket RAMM Outage –
Work Arounuds:
 - Suppliers to ensure scheduling has been updated for the migration period.
 - Supplier can create Jobs sheets
 - Despatches can be printed during migration.
 - This is a manual work around and would require any updates to be recorded and then entered back into RAMM once the outage is over.

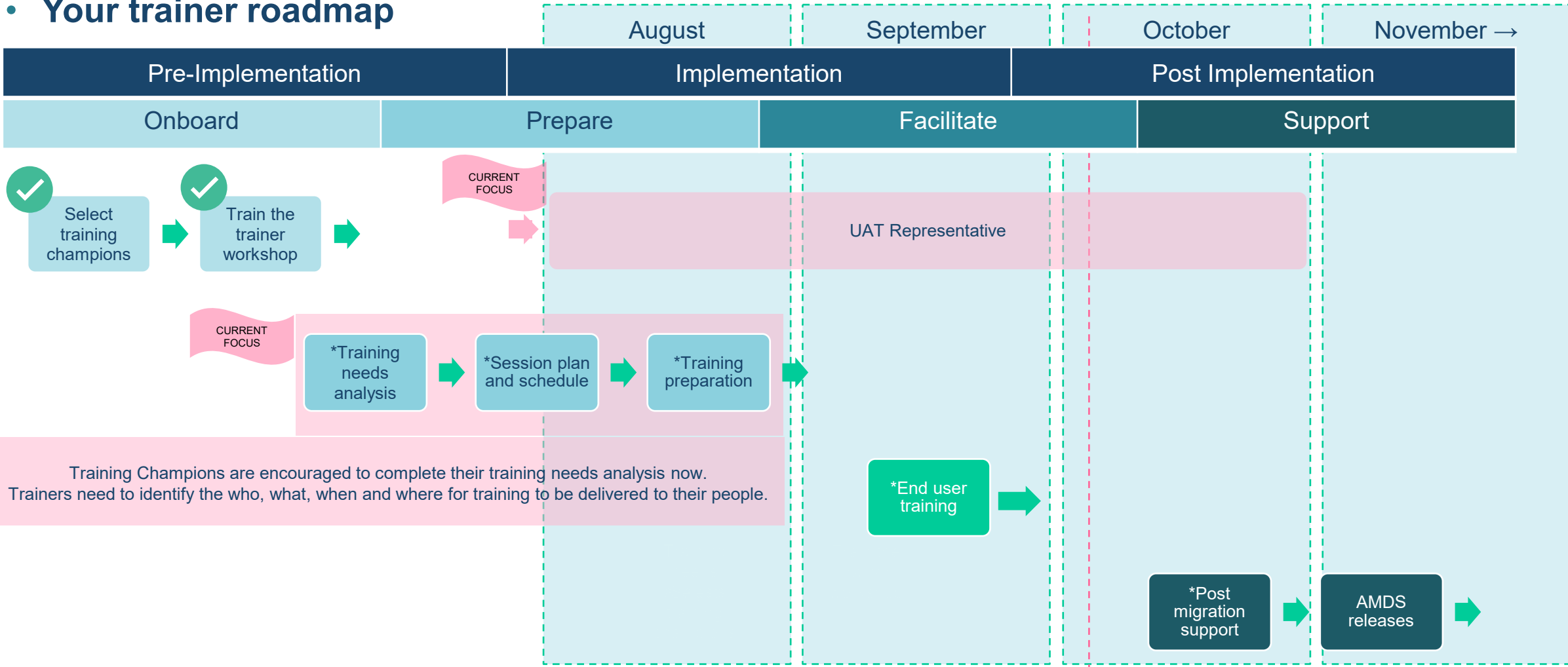


NOTE: Supplier UAT representative needs to be identified for the Migration Planning standup meetings.

Supplier readiness

Supplier readiness | Implementation plan

- Your trainer roadmap



NOTE • AMDS data migration for state highways will take place in October 2024.

AMDS State Highways | Supplier readiness

Progress to date:

- ✓ Train-the-trainer [TTT] Sessions – completed.
- ✓ Champions – engagement and check ins continue.
- ✓ Training needs analysis [TNA] completed – ASM, Beca, Downer, HEB, Ventia



Supplier	Train-the-Trainer [TTT] [June 2024]	Training Needs Analysis [TNA] [August 2024]	Supplier Training [September 2024]
• ASM	Yes	Yes	
• Beca	Yes	Yes	
• Downer	Yes	Yes	
• Fulton Hogan	Yes		
• HEB	Yes	Yes	
• Higgins	Yes		
• South Roads	Yes		
• Ventia	Yes	Yes	
• WSP	Yes		

Next steps:

- UAT representatives to be confirmed.
- Suppliers to complete their training needs analysis and prepare to deliver training ahead of migration.

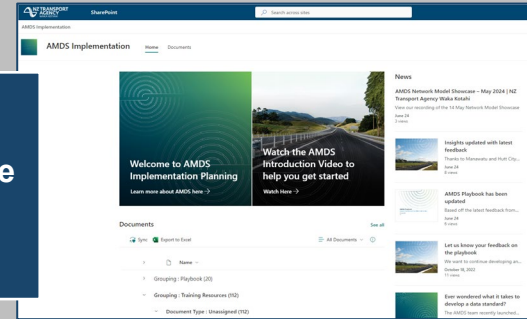
AMDS State Highways | Suppliers learning resources



TTT Workshops



AMDS Programme Site (SharePoint)



Central Knowledge Management Hub

Additional Resources / Support:

- AMDS Mailbox
- Champion Check Ins

Training Materials (TTT)

Training Champion Materials

- Facilitator Guides, PPT, Exercise Books

Quick Reference Guides (QRGs)

24 QRGs

- Reflect V1.3 of the standard

Videos

6 Videos

- Consumer & Advanced Consumer users

Assets on a Page (Interactive PDF)

1 Pager

- Assets by their groupings and links to the QRGs

Visualised Mapping (ThinkProject Link)

Visualised Mapping

- Compare current [classic] assets to AMDS assets

Contract updates

Data migration | Notice To Contractor [NTC]

- Post Migration – Information for RAMM Administrators
 - Assessments
 - RAMM Tables
 - Data Quality Reports
 - Data KRA
 - SHDOM
 - Training Accreditation
 - Maintenance Cost
- Migration Timeframes

TABLE 4.2.1: TABLES TO BE MAINTAINED IN PRINCIPAL'S ASSET REGISTER BY THE CONTRACTOR RAMM

Classic RAMM Table Name	Overview of Table Content	AMDS Table Name	Overview of Table Content
Carriageway	Dimensional information on the carriageway asset (excluding surfacing and pavement layers). Only some elements of the carriageway table are permitted to be changed by the Contractor – refer to SM050	Carriageway	Dimensional information on the carriageway asset (excluding surfacing and pavement layers). Only some elements of the carriageway table are permitted to be changed by the Contractor – refer to SM050
Carriageway Surfacing	Information on current and historic surfacing records (including those that have been removed as a result of milling/pavement renewals)	Roadway – (Pavement, Surface, Subgrade, Stopping Place)	Information on current and historic layer records for roadway assets (including those that have been removed as a result of milling/pavement renewals, or reconstructed as a result of rehabilitation)
Pavement Layer	Information on current and historic pavement layers (including those that have been removed as a result of milling/pavement renewals, or reconstructed as a result of rehabilitation)		

NOTE: Notice To Contractor [NTC] items for discussion.

Post migration | Information for RAMM Administrators

Assessments

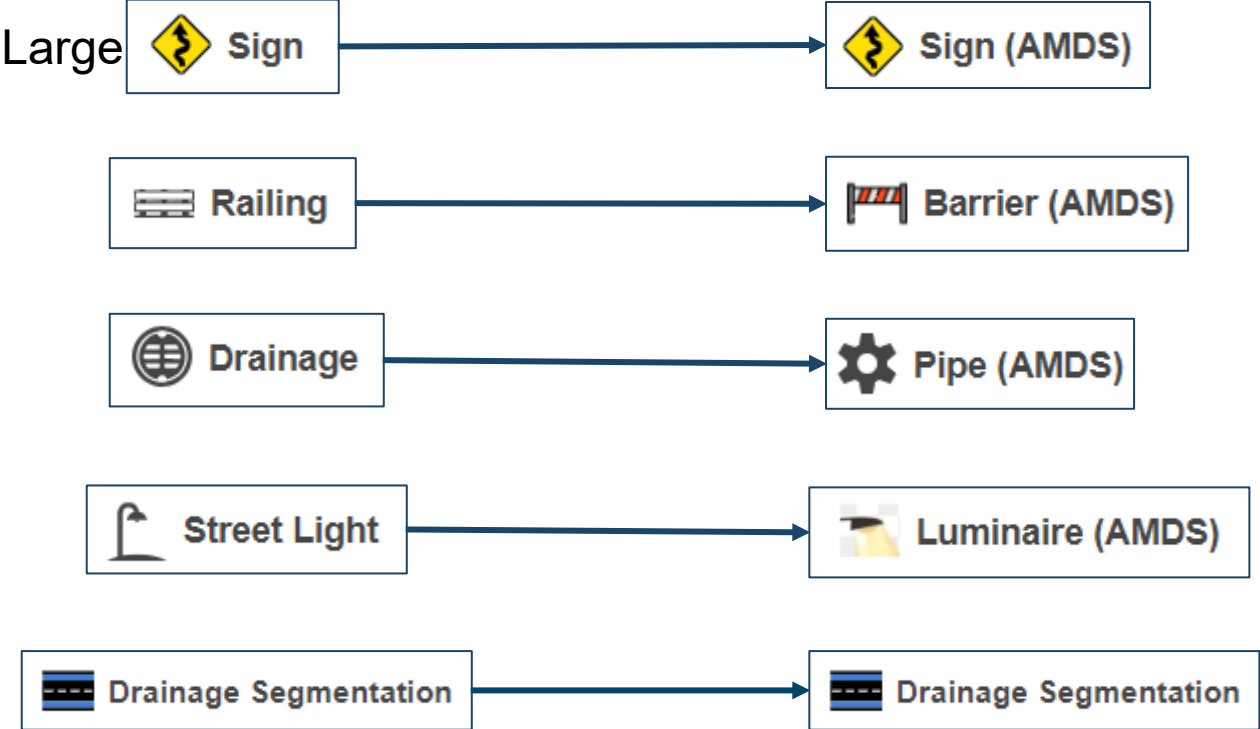
- **Assessments** – *in some cases classic RAMM assets are split into components in the AMDS structure (eg. signs). Assessments will still only be required for the main asset (eg. just the sign, not the sign and post).*

Points to note:

- Query – when we condition inspect an asset post AMDS – would we need to update the info about each asset to bring it into line with the AMDS?

Post migration | Information for RAMM Administrators

Assessments



Post migration | Information for RAMM Administrators

RAMM Tables

- **RAMM Tables** – the assets to be maintained will remain the same as those specified in the current contract. **Appendix 2** shows the contract appendices table 4.2.1 with AMDS table names. The table names, database fields and mandatory data requirements will change to those specified in the AMDS standard.

Post migration | Information for RAMM Administrators

RAMM Tables

TABLE 4.2.1: TABLES TO BE MAINTAINED IN PRINCIPAL'S ASSET REGISTER BY THE CONTRACTOR RAMM

Classic RAMM Table Name	Overview of Table Content	AMDS Table Name	Overview of Table Content
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Post migration | Information for RAMM Administrators

RAMM Tables

Pavement Test Pits	Information on pavement layers through test pit activities	Pavement Test Pits	Information on pavement layers through test pit activities
Drainage	Information on all drainage-related assets (excluding lined and unlined water channels)	Drainage - (Chamber, Channel Headwall, Pipe, Valve, Water Area, Water Structure)	Information on all drainage-related assets
Features	Inventory information on features such as rest areas, weigh pits, etc.	Amenities - (Advertising Structure, Cultural Installation, Cycle Amenity, Rubbish Bin System, Planting Structure, Seating, Shelter, Weight Site)	Amenity inventory information on features roadside locations such as rest areas, weigh pits, etc.
Footpaths	Information on footpaths and shared pathways (including cycleways). To be maintained by the Contractor when defined in the contract scope	Pathway (Pathway, Kerb Crossing)	Information on footpaths and shared pathways (including cycleways). To be maintained by the Contractor when defined in the contract scope
Forward Works Programme	This is a module in RAMM called NOMAD and contains the pavement and surfacing future works	Now in RAMM	

Post migration | Information for RAMM Administrators

RAMM Tables

ITS	Inventory information on ITS signage such as VMS boards, etc. To be maintained by the Contractor when defined in the contract scope	Mechanical and Electrical Plant – (Electronic Sign etc)	Inventory information on ITS signage such as VMS boards, etc. To be maintained by the Contractor when defined in the contract scope
Maintenance Costs	Contains information on quantities of routine maintenance carried out on the network. Ideally this table is populated from data in the CMMS	Maintenance Cost	Contains information on quantities of routine maintenance carried out on the network. Ideally this table is populated from data in the CMMS
Markings	Information on all pavement markings including ATP, RRPMS and long-life markings	Traffic Control Device – (Non-Electronic Signs, Delineator, Markings, Traffic Island, Road Hump)	Inventory information on traffic control devices such as road markings, signs
Other Structures	Information on all other structure assets (including weigh stations, gantries and non-retaining walls). Excludes bridges, which are included in a separate database maintained by others	Support Structure – (Gantry, Mast, Pole, Outreach)	Inventory information on structures acting as support for other assets such as motorway signs, luminaires
		Access Control – (Bollard, Cattle Stop, Wall, Wheel Stop)	Inventory information for assets restricting traffic or animal movement such as bollards, cattle stops
		Barrier – (Barrier, Barrier Terminal, Motorcycle Attachment, Crash Cushion)	Inventory information for barrier related collision protection safety assets

Post migration | Information for RAMM Administrators

DATA Quality Reports [DQA]

- **Data Quality Reports** – *monthly data quality reports will be updated to include the new AMDS fields where applicable. Data timeliness conditions will remain unchanged. State Highways will not be requiring any additional mandatory fields to be populated other than those already specified in AMDS.*

Points to note:

- We aim to use the same reports up until the IDM.
- The reports will be updated for AMDS fields.
- Meanwhile we will investigate the AMDS DQA tool as a potential replacement.
- We will be interested in feedback in the interim.

Post migration | Information for RAMM Administrators

Data Key Result Area [KRA]

- **Data KRA** – *the AMDS migration will be considered a mitigating circumstance to the data timeliness KRA for October.*

Post migration | Information for RAMM Administrators

SHDOM

- **SHDOM** – the State Highway Database Operating Manual (SHDOM – SM050) will be updated to provide guidance according to AMDS.

“SHDOM.AMDS” points to note:

- An interim document until UniDOM is developed – in line with IDM and other RCAs.
- AMDS documentation will be incorporated.
- Appendix A will cover State Highway specific information.
- There is an opportunity to provide feedback on content for those interested.

Data migration | SHDOM AMDS Alignment

SHDOM.Classic (Pre 2024)	SHDOM.AMDS (Oct 2024)	UniDOM.AMDS (2025 Forward)
SHDOM Introduction <ul style="list-style-type: none"> • <i>Index to sections</i> • <i>Process Descriptions</i> • <i>Administration</i> 	SHDOM Introduction (New) <ul style="list-style-type: none"> • <i>Index to sections</i> 	UniDOM Introduction (New) <ul style="list-style-type: none"> • <i>Index to sections</i>
Appendix 3 Asset Register	AMDS Data Dictionary	AMDS Data Dictionary
Appendix 4 Maintenance Activity	Maintenance Activity <ul style="list-style-type: none"> • <i>Updated to AMDS table names</i> 	AMDS Maintenance Activity <ul style="list-style-type: none"> • <i>AMDS Faults & Activities</i>
Appendix 6 Inventory Collection Manual	AMDS Quick Reference Guidelines	AMDS Quick Reference Guidelines
SHDOM Training Guidelines	AMDS Training Guidelines <ul style="list-style-type: none"> • <i>TBC</i> 	AMDS Training Guidelines <ul style="list-style-type: none"> • <i>TBC</i>
	Appendix A State Highways <ul style="list-style-type: none"> • <i>LRMS SM051</i> • <i>Traffic Monitoring for SH SM052</i> • <i>Event Codes</i> 	Appendix A State Highways <ul style="list-style-type: none"> • <i>LRMS SM051</i> • <i>Traffic Monitoring for SH SM052</i> • <i>Event Codes</i>
		Appendix B Local Roads <ul style="list-style-type: none"> • <i>TBC future</i>

Maintained by:

SH RCA

AMDS

Te Ringa Maimoa?

NOTE: Te Ringa Maimoa working group will be used to manage future integration with RCAs and Suppliers.

Data migration | SHDOM AMDS (Appendix A –State Highways)

SHDOM.Classic (Pre 2024)	SHDOM.AMDS (Oct 2024)
Section 1: Asset Information Management Overview	• Appendix A State Highways
Section 2: Asset Register	• AMDS Data Dictionary
Section 3: Road and Section Definitions	• Appendix A State Highways
Section 4: Data Delivery Procedures	• Appendix A State Highways
Section 5: Auditing Procedures	• Appendix A State Highways
Section 6: Field Validation Procedures	• Appendix A State Highways
Section 7: Traffic Data	• Appendix A State Highways
Section 8: LTPP Site Maintenance Database	◦ <i>Remove</i>
Section 9: Communications Policy	• Appendix A State Highways
Section 10: Access Policy	• Appendix A State Highways
Section 11: Intelligent Transportation Systems	• AMDS Quick Reference Guidelines
Section 12: Maintenance Activities	• AMDS Quick Reference Guidelines
Appendix 1: Lookup Codes	◦ <i>Remove</i>
Appendix 2: Event Codes	• AMDS Quick Reference Guidelines
Appendix 3: Asset Register	• AMDS Data Dictionary
Appendix 4: Maintenance Activity Codes	• Appendix 4 Maintenance Activity (updated table names)
Appendix 5: Asset Information Annual Planner	◦ <i>Removed</i>
Appendix 6: Inventory Collection Manual	• AMDS Quick Reference Guidelines
Appendix 7: RAMM Forms	◦ <i>Removed</i>

Post migration | Information for RAMM Administrators

Training Accreditation

- **Training Accreditation** – a framework for RAMM Accreditation training will be consulted on with suppliers. AMDS training material will be made available as a resource for level 1 accreditation.

Points to note:

- An interim framework until UniDOM is developed – in line with IDM and other RCAs.
- AMDS documentation will be incorporated.
- There is an opportunity to provide feedback on content for those interested.

Post migration | Information for RAMM Administrators

Training Accreditation

Accreditation	Role	Asset Groups (as per contract)	Change Management	Training material
Level 1	Input	Barrier, Access Control, Drainage, M&E, Traffic Control Device, Support Structure, Structure, Amenity, Geotechnical, Roadway and Pathway	Draft	Relevant AMDS + SHDOM
Level 2	Input + Certifier	Approver to above + Input Carriageways and Centrelines	L1 Assets Approver	Complete AMDS + SHDOM + LRMS + Network Model Update Process Document
RAMM NZTA Admin	Certifier	Network Model	Approver	All above

Post migration | Information for RAMM Administrators

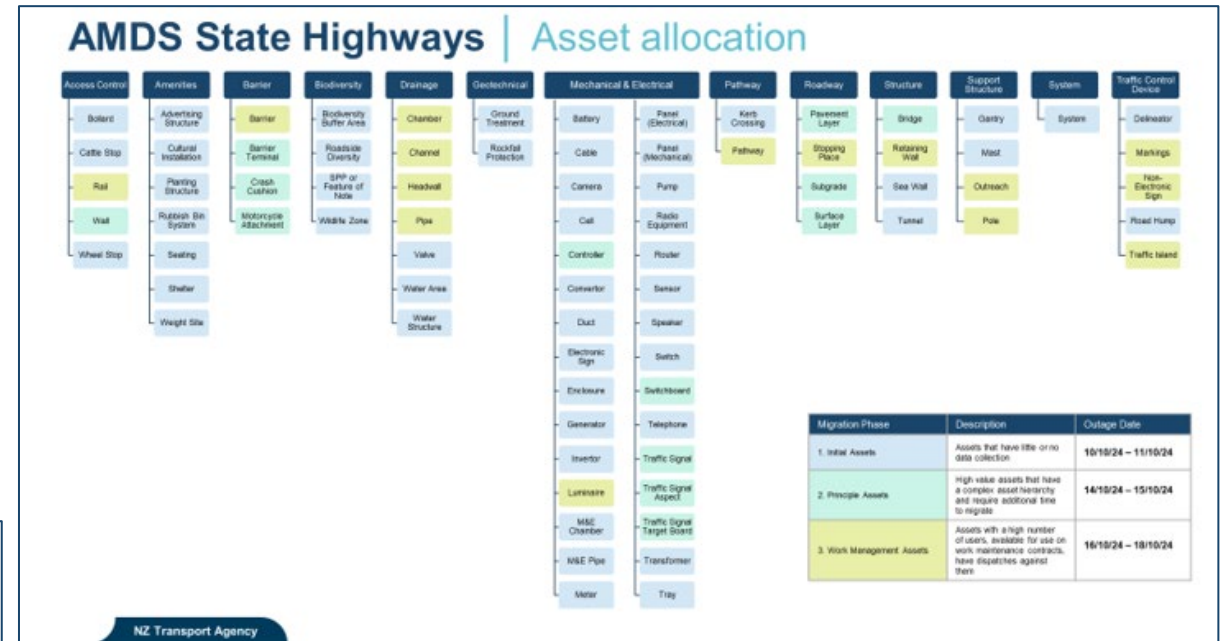
Maintenance Cost

- **Maintenance Cost** – *the maintenance cost faults and activities will remain unchanged through to the adoption of IDM. Meanwhile the AMDS project team are revising these definitions to align with future requirements.*

AMDS State Highways | Migration timeframes

Feedback topics

- The migration will take place between 10th and 22nd October.
- During the migration assets will be locked for editing.
- The migration will be staged, with more commonly edited assets migrated last to minimise downtime.
- RAMM database editors have been well briefed in the migration process.



Data migration | Schedule

- AMDS has **3 migration phases**, this reduces the impact to users.
- Data is migrated over a **2-week window**. Spot testing will continue for at least 2 weeks after migration.
- 6-8 weeks before migration **suppliers will be invited to attend 'stand-up' meetings**.
- The approach minimises the time **suppliers cannot use PocketRAMM**.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7-Oct-24 Contractor monthly data load completed	8-Oct-24	9-Oct-24	10-Oct-24 1. Initial Assets Migrate Test	11-Oct-24	12-Oct-24	13-Oct-24
14-Oct-24 2. Principle Assets Migrate Test	15-Oct-24	16-Oct-24 3. Work Mgmt. Assets Migrate (after 4pm) Test	17-Oct-24	18-Oct-24	19-Oct-24	20-Oct-24
21-Oct-24 4. Assessments Update Test	22-Oct-24	23-Oct-24	24-Oct-24	25-Oct-24	26-Oct-24	27-Oct-24
Spot testing by NZTA and contractors (ongoing for approx. 2 weeks)						
28-Oct-24	29-Oct-24	30-Oct-24	31-Oct-24	1-Nov-24	2-Nov-24	3-Nov-24
Spot testing by NZTA and contractors (ongoing for approx. 2 weeks)						
4-Nov-24	5-Nov-24	6-Nov-24	7-Nov-24	8-Nov-24	9-Nov-24	10-Nov-24
Contractor's monthly data load conforms to AMDS						

Migration Phase	Description	Outage Date
1. Initial Assets	Assets that have little or no data collection	10/10/24 – 11/10/24
2. Principle Assets	High value assets that have a complex asset hierarchy and require additional time to migrate	14/10/24 – 15/10/24
3. Work Management Assets	Assets with a high number of users, available for use on work maintenance contracts, have dispatches against them	16/10/24 – 18/10/24

