Master Build Guide — Ecothought Passive Infrastructure (Tindal)

Publisher Prefix: def\_  
Base: RAAF Base Tindal (BaseCode = TIN)

# 1. Data Model

This section defines the Dataverse tables and columns.

## 1.1 Bases (def\_base)

* Primary Key: def\_baseid (GUID)
* Columns: def\_basecode (Alternate Key), def\_basename, def\_state, def\_timezone, def\_notes
* Alternate Keys: def\_basecode

## 1.2 Nodes (def\_node)

* Primary Key: def\_nodeid (GUID)
* Columns: def\_baseid (Lookup→Bases), def\_nodecode, def\_nodetype, def\_building, def\_room, def\_latitude, def\_longitude, def\_status, def\_notes
* Alternate Keys: (def\_baseid, def\_nodecode)

## 1.3 Segments (def\_segment)

* Primary Key: def\_segmentid (GUID)
* Columns: def\_baseid, def\_fromnodeid, def\_tonodeid, def\_segmentkey (From|To), def\_distance\_m, def\_status, def\_surveydate, def\_approvedby, def\_locked, def\_distance\_m\_approved, def\_notes
* Business Rules: From≠To, Base consistency, Lock distance when approved
* Alternate Keys: (def\_baseid, def\_segmentkey)

## 1.4 Routes (def\_route)

* Primary Key: def\_routeid (GUID)
* Columns: def\_baseid, def\_routename, def\_purpose, def\_status, def\_totaldistance\_m (Rollup), def\_notes
* Alternate Keys: (def\_baseid, def\_routename)

## 1.5 Route Segments (def\_routesegment)

* Primary Key: def\_routesegmentid (GUID)
* Columns: def\_baseid, def\_routeid, def\_segmentid, def\_sequencenumber, def\_distance\_m\_calc (Calculated), def\_notes

# 2. Calculated & Rollup Fields

RouteSegments → def\_distance\_m\_calc = Segment.def\_distance\_m

Routes → def\_totaldistance\_m = SUM(RouteSegments.def\_distance\_m\_calc)

# 3. Alternate Keys

Bases: def\_basecode  
Nodes: (def\_baseid, def\_nodecode)  
Segments: (def\_baseid, def\_segmentkey)  
Routes: (def\_baseid, def\_routename)

# 4. Prefilled Data

Download: Dataverse\_Tindal\_Prefilled\_DEF.zip  
- Bases.csv  
- Nodes.csv  
- Segments.csv  
- Routes.csv  
- RouteSegments.csv  
- README\_PREFILL.txt

# 5. Power Automate Flows

Download: Tindal\_Dataverse\_Build\_Pack\_DEF.zip

* SEG – Lock on Approval
* SEG – Distance Change Alert
* ROUTESEG – Auto Sequence
* ROUTE – Publish to PDF
* ROUTE – Recalculate Totals (Manual)

# 6. Build Sequence (Recipe)

1. Import Bases.csv and Nodes.csv
2. Create Segments, Routes, RouteSegments
3. Set Alternate Keys & Relationships
4. Configure Calculated & Rollup Fields
5. Implement Power Automate Flows
6. Test with Seed Data