United Central Colleges of Australia Pty Ltd

Expression of Interest — NTR Modernised Webservices Working Group

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Who we are

United Central Colleges of Australia (UCCA) is an Australian technology company building data infrastructure for the vocational education and training sector. We are not an RTO, an SMS vendor, or a Jobs and Skills Council. We are a new category of participant: a data infrastructure and credentialing platform that sits between the national training register and the RTOs, employers, and learners who need to act on its information.

Our current build is **RTOpacks** (rtopacks.com.au) — a qualification intelligence platform that aggregates, enriches, and presents NTR qualification and unit data alongside real-time labour market signals. It is designed to help RTOs make evidence-based decisions about which qualifications to deliver, and to help learners understand the occupational and economic value of qualifications before they enrol.

Our relationship to the NTR and the Training Package Organising Framework

We have read the Training Package Products Development and Endorsement Process Policy and the Training Package Assurance Body's Approach to Assurance documentation. We understand that the data served by the NTR is the downstream output of a structured, Minister-endorsed process — units of competency, qualification structures, ANZSCO occupational outcomes, AQF alignment, and equivalence relationships are all governed outputs produced through consultation with industry via Jobs and Skills Councils and assessed by the Training Package Assurance Body prior to endorsement.

Our platform is built with this governance chain in mind. We treat NTR content as authoritative, comply with CC BY-ND licensing (no derivatives of TGA content), and surface all data with full attribution. We are building infrastructure that helps the sector realise the value of what the training package development and endorsement process produces — not infrastructure that circumvents or replicates it.

Our current NTR data integration

We currently consume NTR data at scale via the existing SOAP web services:

- **8,007 qualifications** ingested — full detail including title, status, AQF level, packaging rules, entry requirements, supersession relationships
- **75,189 units of competency** — full elements, performance criteria, knowledge evidence, performance evidence, and assessment conditions
- **244,874 qualification-to-unit relationships** — core/elective classification, group structure, sort order
- Data served via edge infrastructure (Cloudflare D1 and Workers) with global availability

We are actively enriching this NTR foundation with labour market data:

- Jobs and Skills Australia OSL shortage occupation ratings (9,454 rows across 1,930 ANZSCO codes)
- JSA Internet Vacancy Index (37,908 rows — vacancy counts and 12-month trends by ANZSCO × state)
- JSA Employment Projections to 2035 (358 national projections)
- NCVER VNDA graduate outcomes data
- NCVER VOCSTATS enrolment data (integration in progress)

The ANZSCO occupational outcome field — assigned through the training package assurance process and published via the NTR — is the join key that connects all of these labour market datasets to individual qualifications. The reliability and completeness of this field in the modernised REST API is a direct and material concern for us.

Why the REST transition matters to us

Reliability: The existing SOAP endpoints have reliability issues under normal automated load — timeouts are frequent, making robust ingest fragile. The move to REST improves the operational foundation we build on.

Classification data: The ClassificationService SOAP endpoint (ANZSCO and ASCED assignments per qualification) is particularly unreliable in our experience. A stable, well-documented REST endpoint for classification data is a priority for platforms that depend on occupation-outcome linkage.

Event-based updates: We want to consume NTR data as it changes — qualifications endorsed, superseded, or modified — rather than periodic bulk re-ingestion. The planned REST architecture supports this.

Ecosystem alignment: We are registered participants in the VDS Developer Portal (NCVER, March 2026) and are monitoring the AVETMISS 8.0 to VET Information Standard transition. A modernised NTR REST API is a natural integration point in the broader VET data infrastructure we are building against.

OSCA transition: We are aware that NCVER is reviewing the transition from ANZSCO 2022 to OSCA 2024 for occupation classification of VET qualifications. We have architected our data layer to accommodate this migration and would welcome visibility into how the REST API will handle the transition.

Our technical capability

We are a software-first organisation. Our platform is built and operated entirely in-house.

Edge compute and data infrastructure: Our platform runs on Cloudflare Workers — distributed edge compute with our primary database in Sydney. We operate at sub-50ms query response times globally. This is not a traditional server architecture; it is a modern, API-first, globally distributed system. We have direct experience of how government data endpoints behave under distributed, low-latency access patterns that differ significantly from traditional server-to-server SMS integrations.

Automated data pipelines: We run scheduled Workers that ingest, validate, and store data from multiple government sources — JSA JSON datasets, NCVER statistical files, and the NTR SOAP web services — on automated schedules. We are not a one-time consumer of NTR data; we are an operational integrator maintaining a live, continuously updated corpus.

API infrastructure: We operate production REST APIs serving NTR-sourced qualification and unit data enriched with labour market signals. We have built API design patterns for qualification detail, unit detail, classification lookup, and organisation data that we can bring as reference points to working group discussions.

MCP server: We operate a live Model Context Protocol (MCP) server with OAuth 2.1 authentication — making our qualification and credentialing data accessible to AI systems and agentic workflows. This positions us at the intersection of VET data infrastructure and emerging AI interoperability standards.

SOAP → REST migration experience: We have built production ingest pipelines against the current TGA SOAP web services at scale. We know precisely where they are reliable and where they are not. Specific pain points we can document for the working group:

- `TrainingComponentService` — intermittent timeouts under normal automated load; no retry semantics documented
- `ClassificationService` — ANZSCO/ASCED per-qualification endpoints unreliable; timeout rate unacceptable for production ingest
- No event-based notification — forced to re-ingest the full corpus to detect changes; inefficient and fragile at scale

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What we can contribute

We are active, high-volume consumers of NTR data with direct experience of where the current SOAP services succeed and fail. We can contribute:

- **Real-world ingest patterns** at scale — qualification detail, unit detail, classification data, and organisation data across the full corpus
- **Edge infrastructure perspective** — our platform runs on distributed edge compute globally, representing access patterns that differ from traditional server-to-server SMS integrations
- **Labour market linkage use cases** — our ANZSCO-dependent features represent a class of NTR data use that goes beyond AVETMISS compliance reporting, and we can help ensure the new APIs serve data infrastructure and intelligence platform use cases as well as SMS vendors and RTOs

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What we are asking for

Participation in the NTR modernised webservices working group — specifically access to early REST API documentation, sandbox environments, and working group communications regarding API design, particularly around the TrainingComponentService and ClassificationService equivalents.

We are not seeking preferential data access. We are seeking to be a constructive technical participant in the transition.

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