



ILLUSTRATED USER GUIDE

South African Tooling Capability Network

From validated capability to controlled industrial opportunity

PRECISION | INTEGRATION | PERFORMANCE

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ABOUT THIS GUIDE

Purpose and audience

This illustrated guide introduces the current SATCN V2 demonstration to prospective members, tooling users, toolmakers, suppliers, partners and administrators. It explains what each role can see, what each control is intended to do, and how value moves through the network.

DEMONSTRATION NOTICE All people, organisations, RFQs, drawings, commercial values, programme dates and performance results shown in the SATCN demo and in this guide are fictional. Illustrative engineering assets are not suitable for manufacture or product release.

What this guide covers

- Entering the platform and selecting a customer type.
- Reviewing validated capability and creating a tooling shortlist.
- Submitting, matching, quoting and awarding controlled RFQs.
- Monitoring press-tool and injection-mould programmes through visual progress reports.
- Using supplier advertising, learning, events, messages and administrative work queues.

Guide map

Customer type	Demonstration identity	Primary experience
Toolmaker / Toolroom	Aurex Tooling Systems	Validation, matched RFQ, quotation, award and press-tool progress
Injection Mould Toolroom	BlueForge Mould Engineering	Mould capability validation, injection-mould RFQ and build progress
Tooling User	NovaDrive Components	Qualified directory, RFQ submission, quotations and programme visibility
Tooling Supplier	Metallix Tool Steels	Advertising, managed enquiries, RFQs, learning and communication
SATCN Administrator	SATCN Demonstration Office	Validation, RFQ, advert, event, membership and reporting queues

HOW TO USE THIS GUIDE Follow the numbered chapters in sequence, or use your PDF reader’s page thumbnails and search tools to move directly to a topic. Screens are shown at desktop size; the same functions remain available in the responsive mobile layout.

01 • GETTING STARTED

Enter SATCN and choose an experience

The public demonstration opens on a neutral landing page. A customer type must be selected before role-specific functions become available.

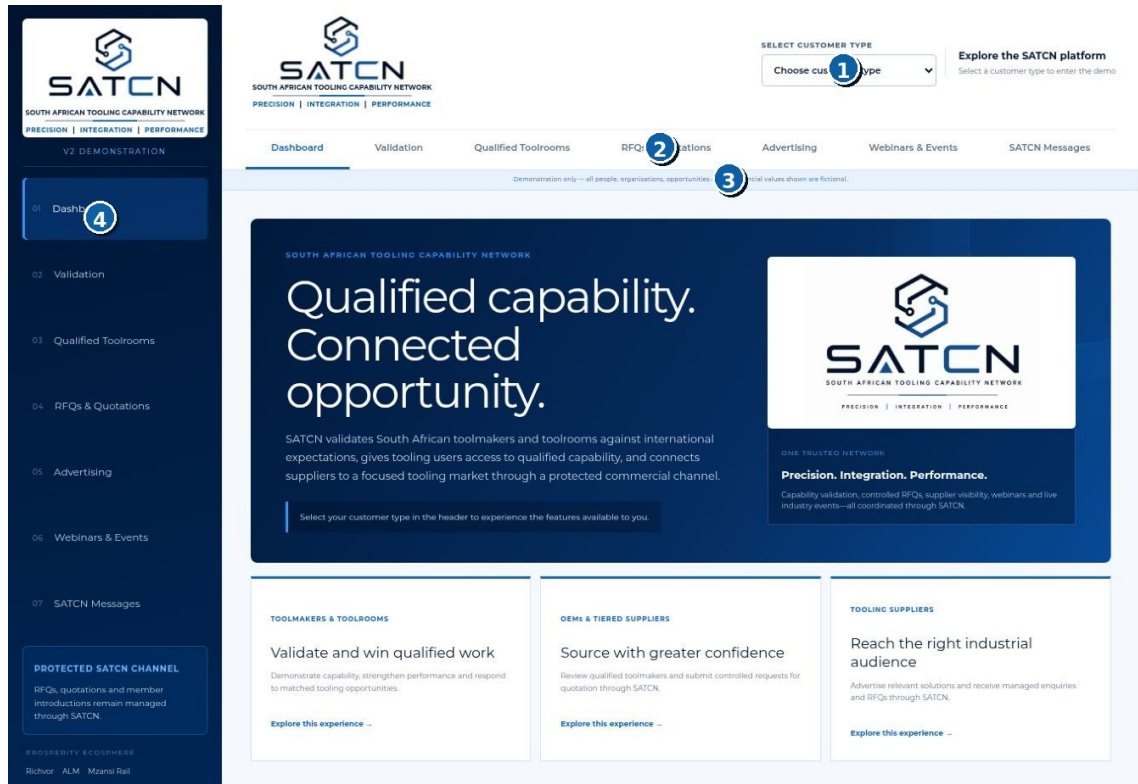


Figure 1. SATCN landing page and global navigation.

- 1 Select a customer type to enter a role-specific demonstration.
- 2 Use the top navigation for the functions available to the selected role.
- 3 The demonstration notice confirms that the displayed identities and values are fictional.
- 4 The left navigation remains visible for rapid movement between pages.

Quick start

Open the SATCN demonstration

1. Open the SATCN address in a modern web browser.
2. Open Select customer type and choose the experience you want to explore.
3. Confirm the demonstration identity, then use the left or top navigation to open the available functions.
4. Change customer type at any time to experience SATCN from another participant's perspective.

02 • TOOLING USER

Source tooling capability with greater confidence

The Tooling User experience demonstrates how an OEM, Tier supplier or other manufacturer can review qualified capability, submit a controlled RFQ and monitor awarded programmes.

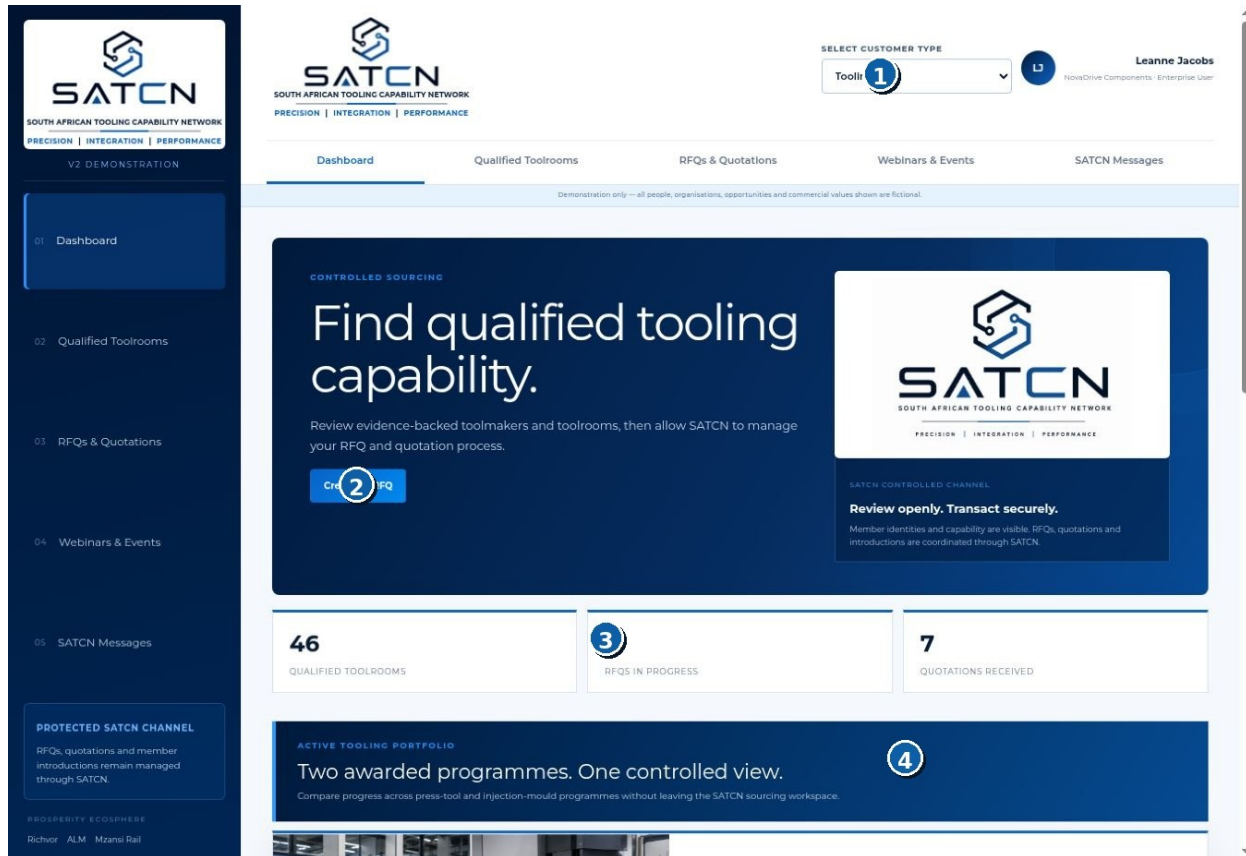


Figure 2. NovaDrive Components Tooling User dashboard.

- 1 The selected customer type determines the accessible pages and demonstration identity.
- 2 Create an RFQ starts a controlled submission through the SATCN Commercial Desk.
- 3 Dashboard indicators summarise qualified toolrooms, active RFQs and quotations.
- 4 The active portfolio presents press-tool and injection-mould programmes in one view.

WHY THIS MATTERS The buyer can review capability openly while commercial introductions, clarifications and quotations remain coordinated through SATCN.

02.1 • TOOLING USER

Review qualified toolrooms and verified evidence

The directory provides a structured view of qualified toolrooms without immediately exposing uncontrolled commercial contact.

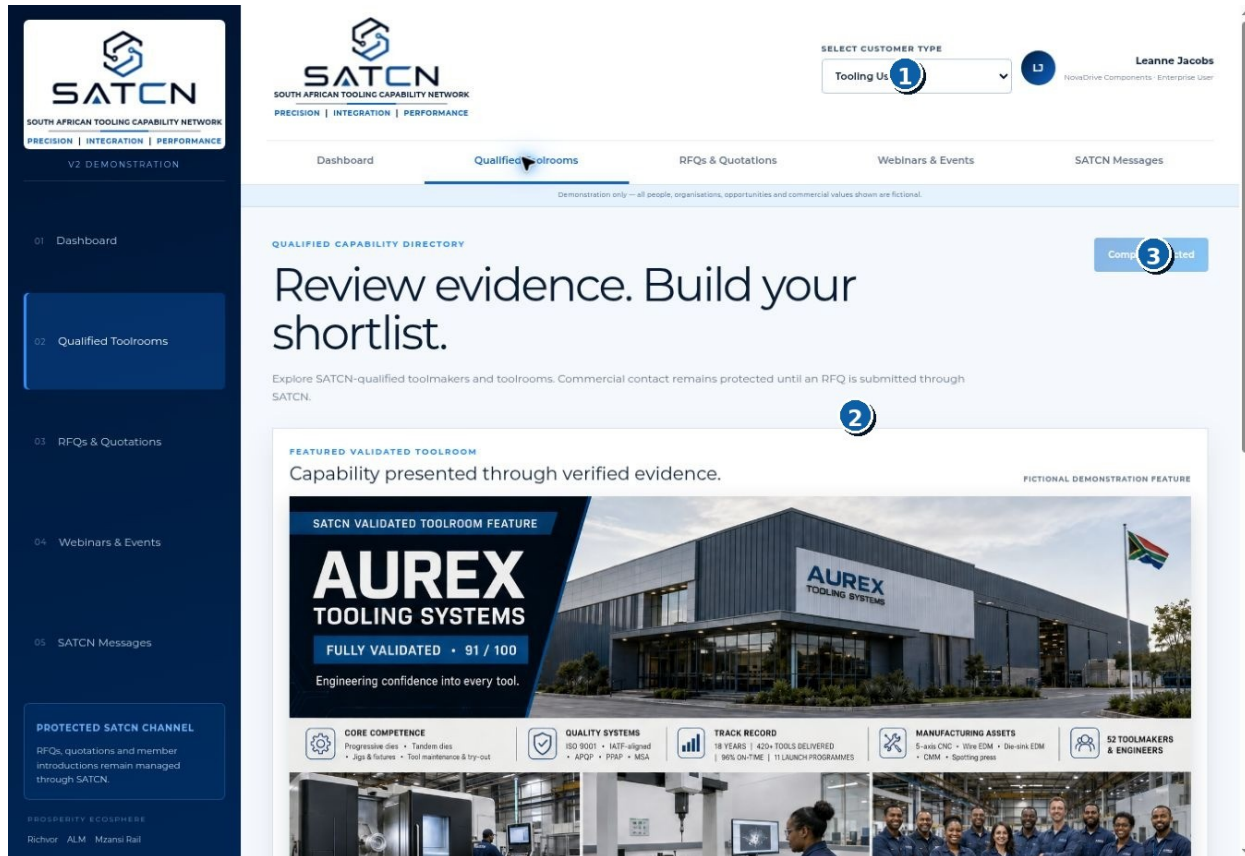


Figure 3. Qualified Capability Directory.

- 1 Confirm that Tooling User is selected.
- 2 Review the featured validated-toolroom presentation and facility evidence.
- 3 Select toolrooms for comparison as the demonstration develops.

Open the evidence record

1. Select View verified capability or Review profile.
2. Confirm the qualification level, location, score and exact qualified scope.
3. Review validation evidence, quality systems, manufacturing assets, track record, people and capacity.
4. Add the organisation to an RFQ shortlist when its verified scope fits the requirement.

VERIFIED CAPABILITY RECORD

Move from promotional claims to auditable evidence

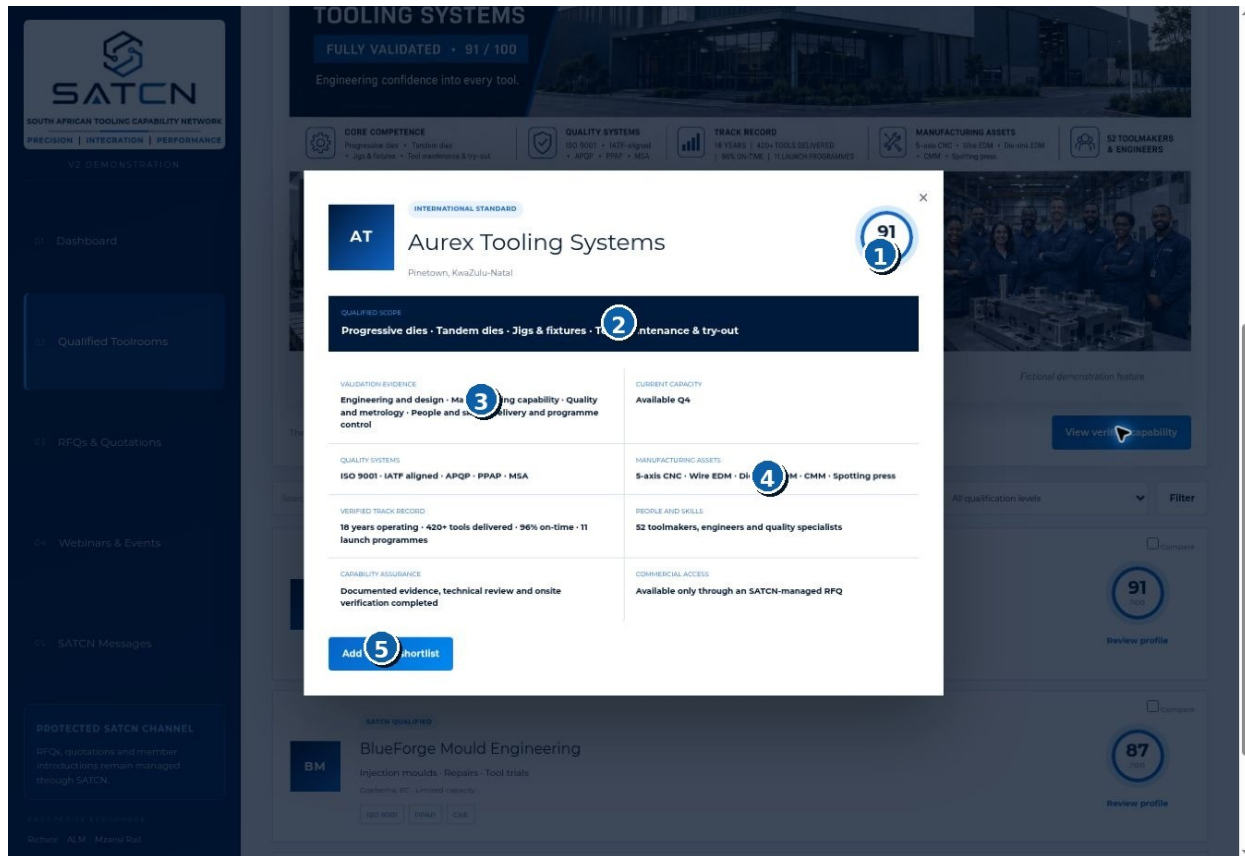


Figure 4. Aurex Tooling Systems verified capability record.

- 1 Validation score and qualification level.
- 2 Scope for which capability has been assessed and published.
- 3 Evidence and track-record information supporting the result.
- 4 Manufacturing assets relevant to the qualified scope.
- 5 Controlled action for adding the toolroom to an RFQ shortlist.

02.2 • TOOLING USER

Submit a controlled request for quotation

A Tooling User submits sufficient technical and programme detail for SATCN to review, clarify and match the requirement to appropriately qualified members.

SATCHN CONTROLLED WORKFLOW

Submit an RFQ to SATCN

SATCHN will review the requirement, clarify the scope and match it only to suitably qualified members.

REFERENCE / REQUIREMENT

Enter title **1**

TOOLING CATEGORY

Select **2**

SCOPE AND REQUIREMENTS

Enter sufficient detail for SATCN review **3**

REQUIRED DATE

mm/dd/yyyy

SUPPORTING DOCUMENTS

Choose File No file chosen **4**

SATCHN protection applies Contact details are not exchanged through this submission.

Cancel **Submit** **5**

Figure 5. Controlled RFQ submission form.

- 1** Enter a concise requirement title or internal reference.
- 2** Choose the tooling category.
- 3** Describe the scope, technical requirements and expected deliverables.
- 4** State the required date and attach the supporting engineering package.
- 5** Submit the requirement to SATCN for review and qualification matching.

PROTECTION PRINCIPLE Contact details are not exchanged through the initial submission. SATCN first clarifies the requirement and controls the commercial route.

02.3 • TOOLING USER

Follow the requirement from publication to award

The RFQ workspace connects sourcing, validation evidence, quotation control, award and delivery reporting. The Tooling User can switch between linked programmes without leaving the page.

The screenshot displays the SATCN Tooling User interface. The top navigation bar includes the SATCN logo, a 'SELECT CUSTOMER TYPE' dropdown set to 'Tooling User', and a user profile for 'Leanne Jacobs'. The main navigation menu on the left lists: Dashboard, Qualified Toolrooms, RFQs & Quotations (highlighted), Webinars & Events, and SATCN Messages. The main content area is titled 'From published requirements to visible tooling progress.' and includes a '1 new RFQ' badge. Below this, a 'SATCH COMMERCIAL DESK' section shows a workflow: 'User submits requirement to SATCN' (1), 'SATCN qualifies and returns controlled quotations' (2), and 'SATCN returns controlled quotations' (3). The 'ACTIVE PROGRAMMES' section lists 'Seat reinforcement' (RFQ-26038) and 'HVAC centre outlet housing' (RFQ-26044). The 'PUBLISHED REQUIREMENT - RFQ-26038' section shows 'Progressive die programme' with a '4' badge. A table below provides details for this requirement.

PUBLISHED REQUIREMENT - RFQ-26038		
Published by NovaDrive Components and distributed by SATCN only to toolrooms validated for the required		
PART NUMBER NVC-SR-2147	MATERIAL DP780 - 1.2 mm	ANNUAL VOLUME 320,000 parts
TARGET EQUIPMENT 800-ton progressive press	TOOL SPECIFICATION Multi-stage progressive die	COMMERCIAL ROUTE SATCN controlled RFQ

Figure 6. Controlled RFQ workflow and active programme selector.

- 1 Start a new requirement.
- 2 The commercial strip explains submission, matching and controlled quotation return.
- 3 Switch between active press-tool and injection-mould programmes.
- 4 Review the published requirement and current award status.

The six-stage lifecycle

1. RFQ published
2. SATCN capability matching
3. Validated toolroom response
4. Technical review
5. Award and kick-off
6. Active tool or mould build

02.4 • TOOLING USER

Inspect the engineering package and programme traceability

Each example links a 3D rendering, controlled illustrative drawing, specifications and workflow status to one RFQ identity.

The screenshot displays the SATCN V2 Demonstration interface. On the left is a dark blue sidebar with the SATCN logo and navigation links: Dashboard, Qualified Toolrooms, RFQs & Quotations (highlighted), Webinars & Events, and SATCN Messages. Below the sidebar is a 'PROTECTED SATCN CHANNEL' section. The main content area is titled 'visible tooling progress.' and includes a progress bar with three steps: 01 User submits requirement to SATCN, 02 SATCN qualifies and matches, and 03 SATCN returns controlled quotations. Below this, there are two 'ACTIVE PROGRAMMES' cards. The first card, 'RFQ-26038 Seat reinforcement', is selected. The second card, 'RFQ-26044 Centre outlet housing', is also visible. The main content area then displays the 'PUBLISHED REQUIREMENT - RFQ-26044' for a 'Two-cavity injection-mould programme'. This section includes a table with specifications: Part Number (NVC-HV-3082), Material (PC/ABS - 2.5 mm nominal), Annual Volume (210,000 parts), Target Equipment (650-ton injection-moulding machine), Tool Specification (Two-cavity hot-runner injection mould), and Commercial Route (SATCN controlled RFQ). Below the table are two sections: '3D ENGINEERING VIEW' with a '3D ENGINEERING RENDERING' image and 'CONTROLLED DRAWING' with a 'CONTROLLED DRAWING' image. A progress bar at the bottom shows the workflow status: 01 RFQ published (COMPLETED), 02 SATCN matching (COMPLETED), 03 BlueForge response (COMPLETED), 04 Technical review (COMPLETED), 05 Award & kick-off (COMPLETED), and 06 Mould build (30% ACTIVE).

Figure 7. BlueForge injection-mould engineering package and lifecycle.

- 1 Select the BlueForge injection-mould programme.
- 2 Confirm material, annual volume, target equipment and tool specification.
- 3 Open the 3D engineering rendering.
- 4 Open the corresponding controlled illustrative drawing.
- 5 Review completion across RFQ publication, matching, response, review, award and mould build.

ENGINEERING CONTROL In production use, revision status, confidentiality, access permissions and formal document control would govern all uploaded engineering data.

02.5 • TOOLING USER

Monitor active tooling progress

Weekly reporting combines visual evidence with workstream percentages and programme-control milestones. The same record can be viewed by the buyer and the awarded toolroom.

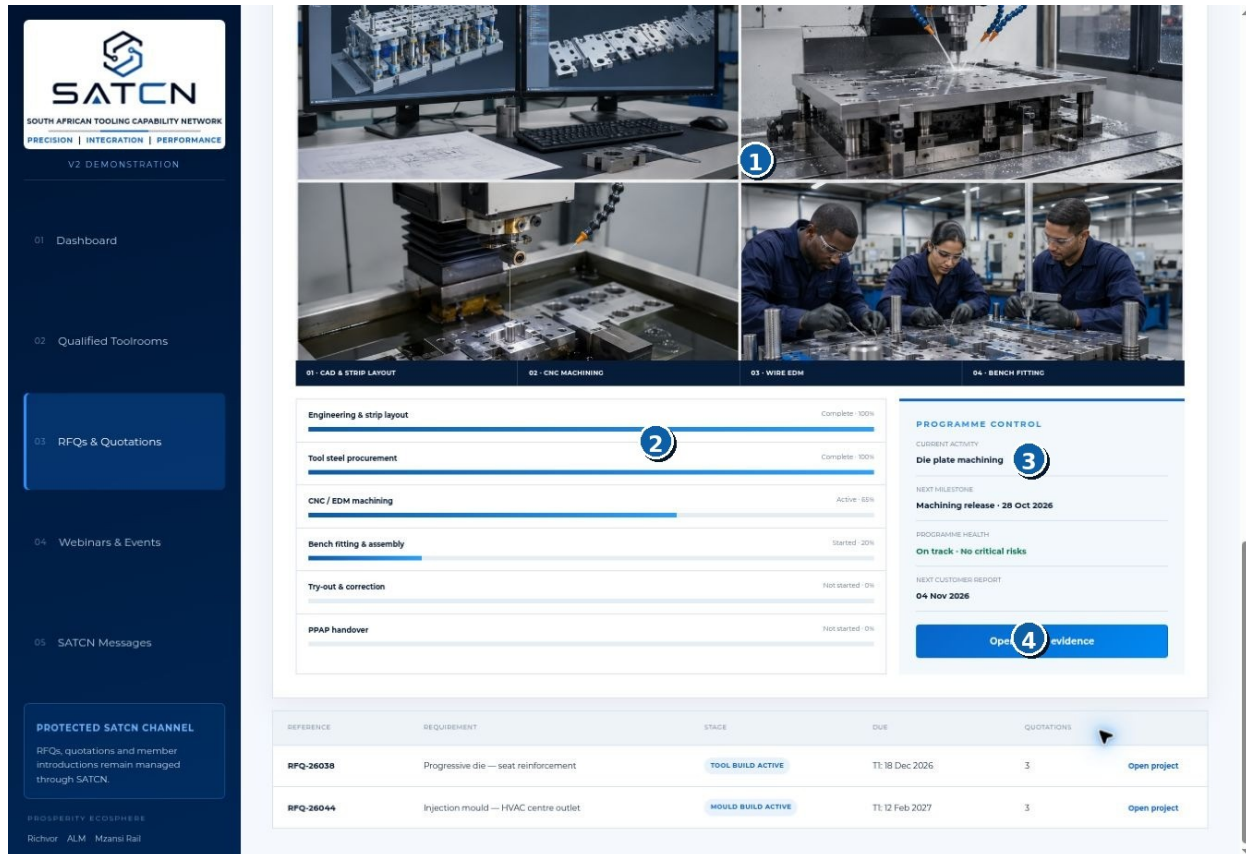


Figure 8. Aurex progressive-die build progress report.

- 1 Visual evidence shows design, machining, EDM and fitting activity.
- 2 Workstream bars distinguish completed, active, started and not-started activities.
- 3 Programme control summarises current activity, next milestone, health and reporting date.
- 4 Open report evidence provides the intended route to the underlying controlled evidence register.

03 • TOOLMAKER / TOOLROOM

Convert demonstrated competence into trusted market access

Aurex represents a press-tool toolroom that completed the SATCN validation journey and gained an evidence-backed market profile, matched opportunity and visible awarded programme.

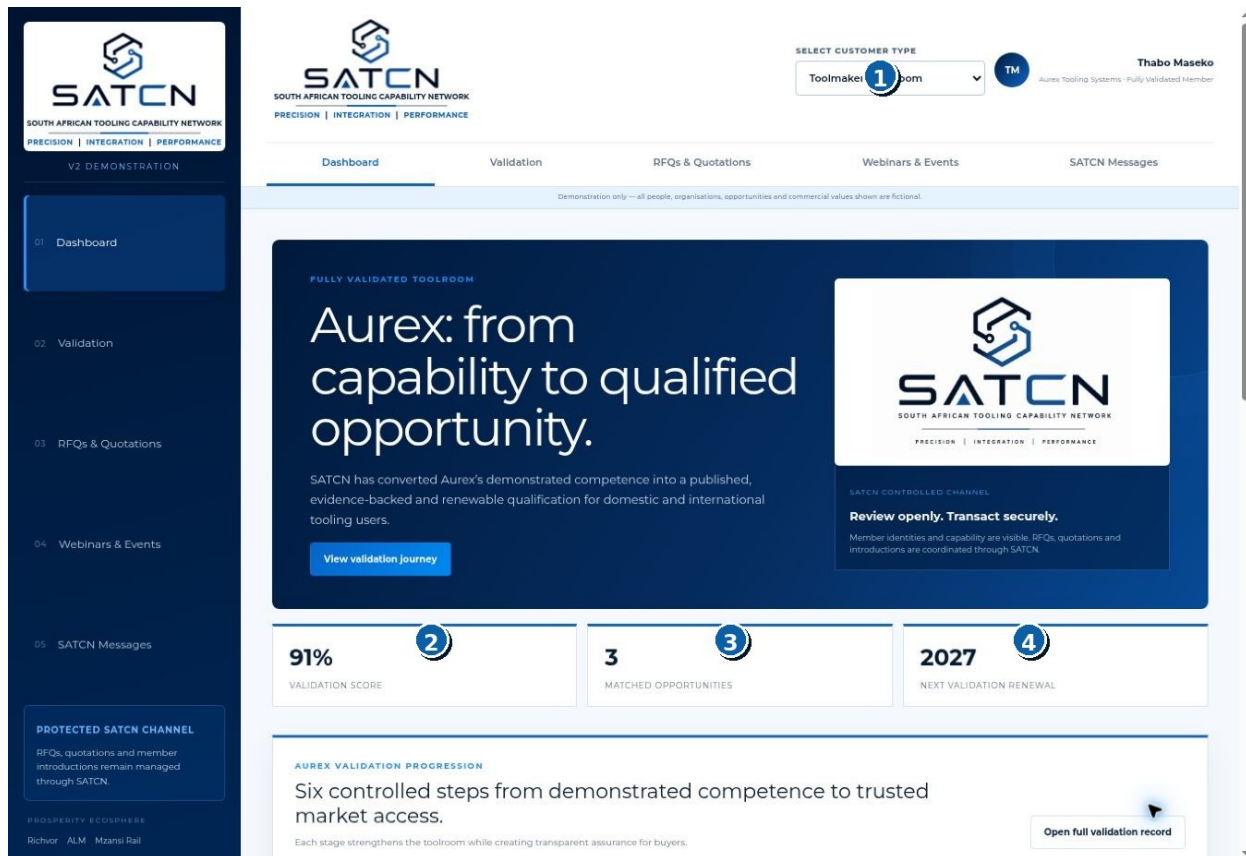


Figure 9. Aurex Tooling Systems dashboard.

- 1** Toolmaker / Toolroom activates the Aurex demonstration.
- 2** The 91 percent validation score summarises the qualified result.
- 3** Matched opportunities show how validated scope leads to controlled market access.
- 4** Renewal keeps qualification current rather than treating it as a once-off badge.

Value to the toolroom

- A structured diagnostic identifies capability gaps and improvement priorities.
- Evidence converts unsupported claims into a published, scope-specific capability record.
- Qualified opportunities are matched to the toolroom's validated scope.
- The dashboard connects commercial success to delivery performance and continuous improvement.

03.1 • TOOLMAKER / TOOLROOM

Understand the six-stage validation journey

SATCN validation examines defined capability rather than reputation alone. Evidence is developed, independently reviewed, observed onsite and maintained through renewal.

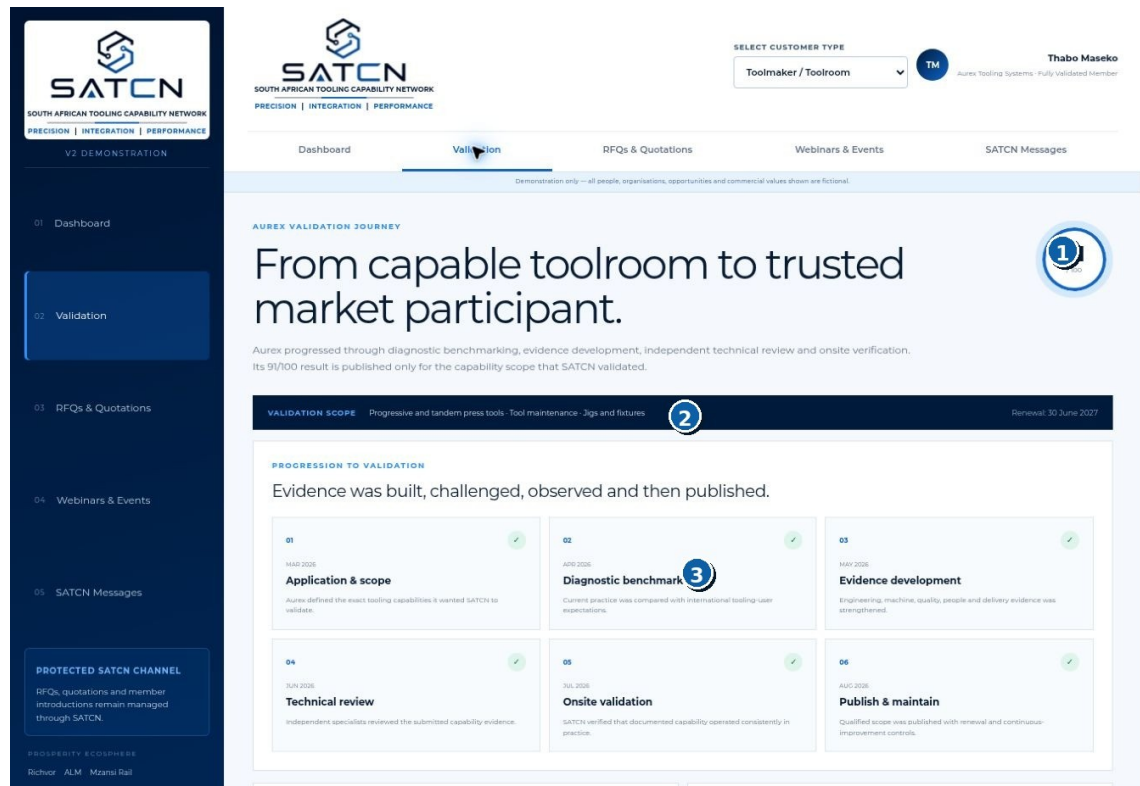


Figure 10. Aurex progression to validation.

- 1 The score summarises the assessment result.
- 2 The scope bar defines exactly what has been validated and when renewal is due.
- 3 Six stages record application, diagnostic, evidence, technical review, onsite verification and publication.

Assessment areas

- Governance and commercial capability
- Engineering and design
- Manufacturing capability
- Quality and metrology
- People and skills
- Delivery and programme control

BUYER ASSURANCE Domestic and international users receive a consistent evidence standard covering capability, quality systems, equipment, capacity, people, programme control and renewal status.

04 • INJECTION MOULD TOOLROOM

Demonstrate validated mouldmaking capability in action

BlueForge represents an automotive injection-mould toolroom whose qualified scope has progressed to a matched RFQ, controlled award and active two-cavity mould programme.

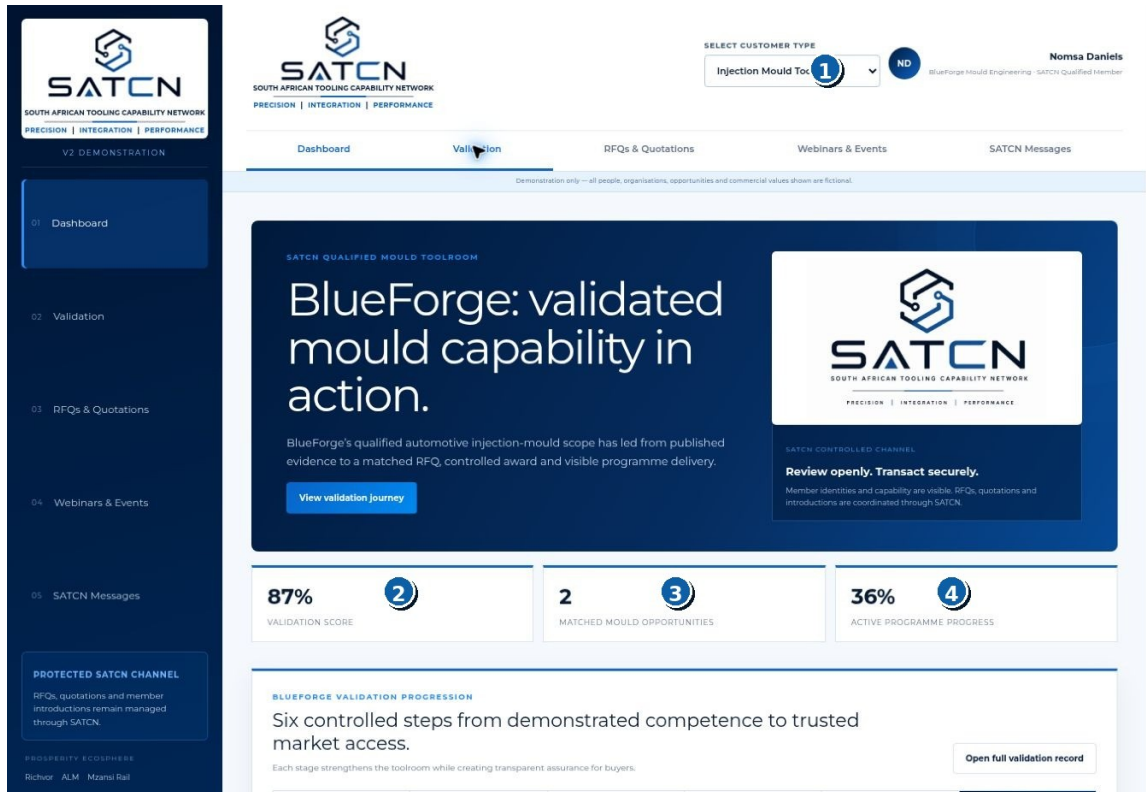


Figure 11. BlueForge Mould Engineering dashboard.

- 1 Injection Mould Toolroom activates the BlueForge experience.
- 2 The validation score reflects the qualified mouldmaking scope.
- 3 Matched mould opportunities demonstrate market access.
- 4 Active progress connects qualification to programme delivery.

BlueForge qualified scope

- Automotive injection-mould design and manufacture
- Part DFM, CAE and mould-flow review
- Precision machining, EDM, fitting and finishing
- Tool trials, metrology and PPAP support
- Mould repair and programme control

ACTIVE MOULD PROGRAMME

Track the mould build through evidence and milestones

The report links the same HVAC centre outlet housing identity to mould design, cavity machining, EDM inspection and assembly. The vent flaps and rotating opener/positioner are shown as separately moulded components and are not included in the fixed housing mould geometry.

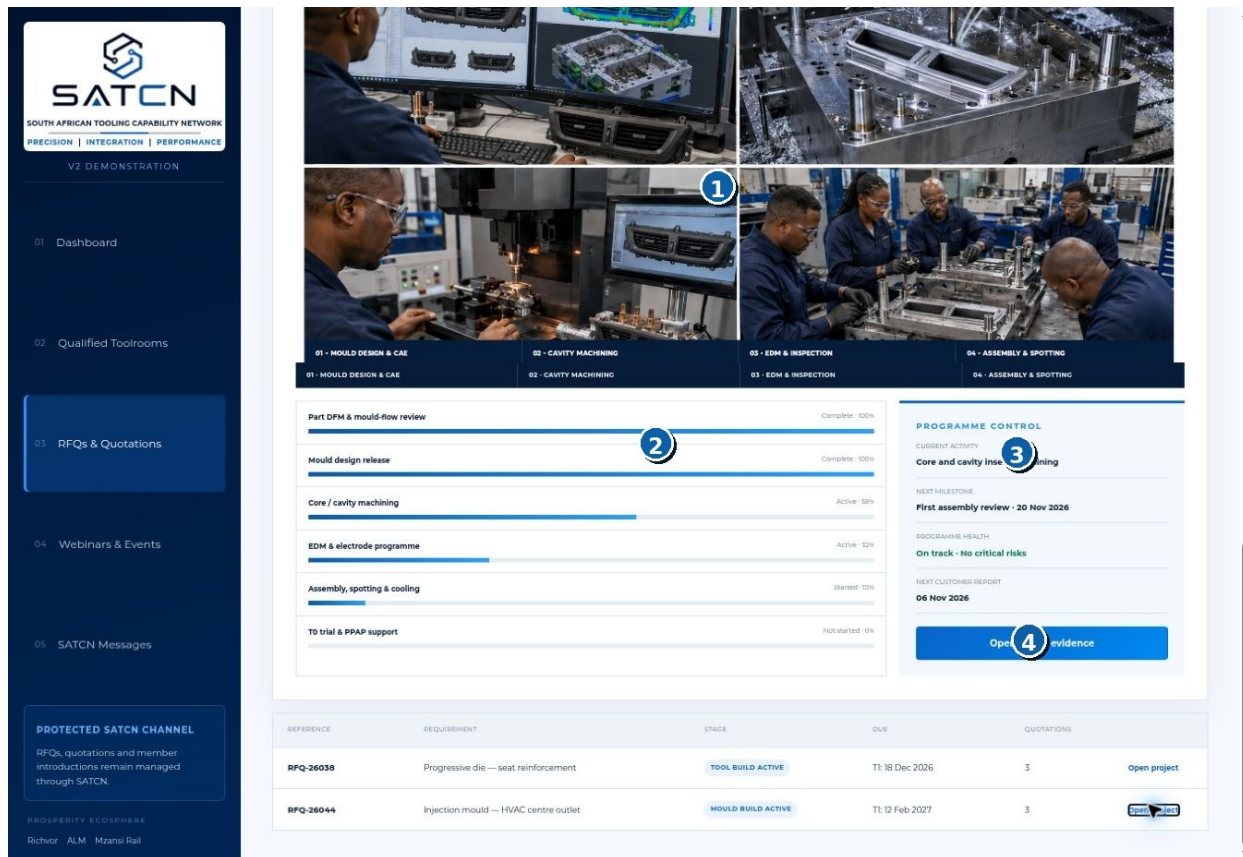


Figure 12. BlueForge mould-build visual evidence and programme control.

- 1 The corrected four-stage visual shows the fixed housing mould development.
- 2 Mould workstreams report DFM, design release, machining, EDM, assembly and trial status.
- 3 Programme control records the current activity, milestone, health and next report.
- 4 Open report evidence provides the intended route to the controlled evidence register.

05 • TOOLING SUPPLIER

Reach a qualified industrial audience

The Tooling Supplier experience demonstrates controlled promotion of tooling products, equipment, software and services to relevant SATCN members.

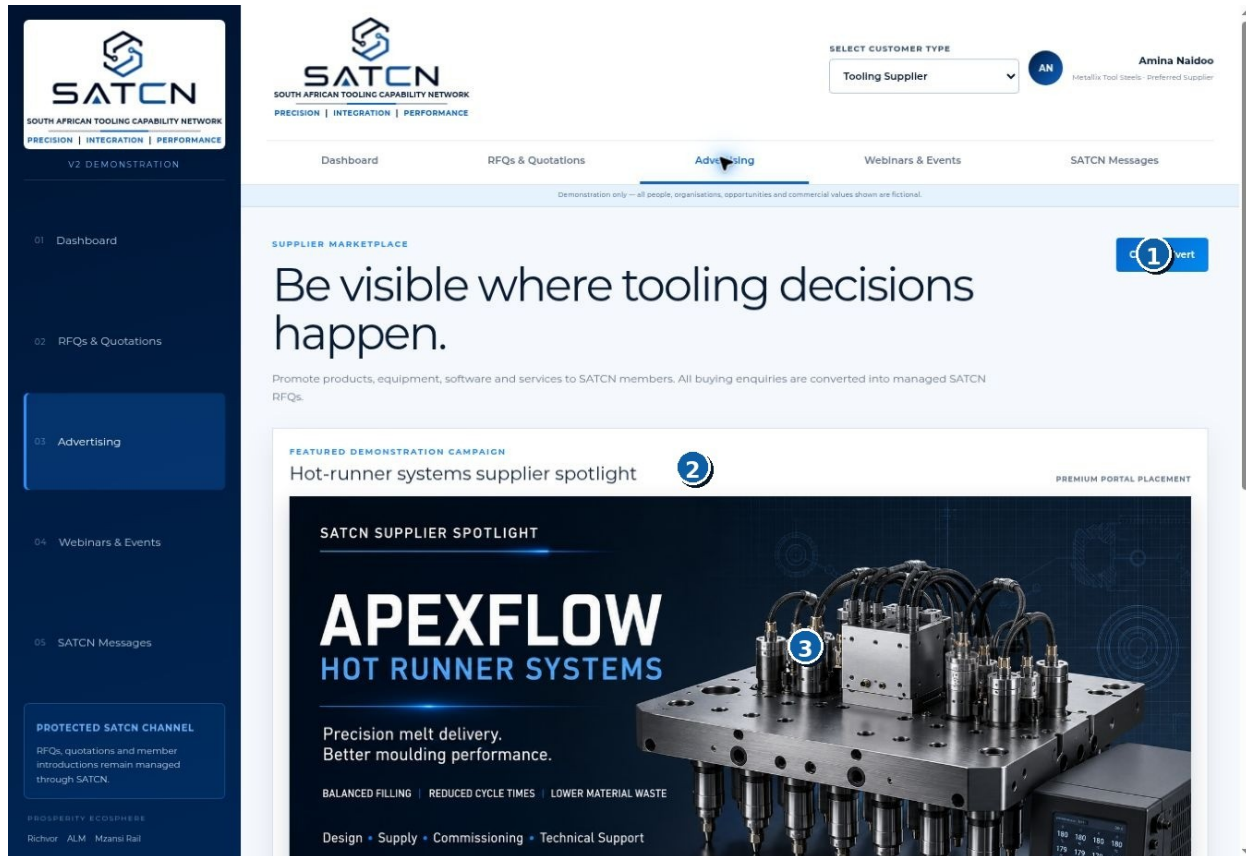


Figure 13. Supplier advertising and featured campaign placement.

- 1 Create advert opens the intended campaign-submission route.
- 2 The placement identifies the feature as a demonstration campaign.
- 3 The supplier creative communicates technical value and routes enquiries through SATCN.

Available promotion formats

- Directory placement for always-on visibility
- Featured campaign across relevant member dashboards
- Technical showcase through webinars, demonstrations and events

EVIDENCE STANDARD Real campaigns should use approved supplier identity, verified product imagery and substantiated technical claims.

06 • SHARED MEMBER SERVICES

Use the learning and events library

All member experiences include access to technical webinars, workshops, live industry events and on-demand recordings.

The screenshot displays the SATCN Learning and Events Library interface. On the left is a dark blue sidebar with the SATCN logo and navigation links: Dashboard, RFQs & Quotations, Advertising, Webinars & Events (highlighted), and SATCN Messages. The main area has a light blue header with the SATCN logo, a customer type dropdown (Tooling Supplier), and a user profile (Amina Naidoo). Below the header is a navigation bar with links to Dashboard, RFQs & Quotations, Advertising, Webinars & Events (active), and SATCN Messages. The main content area is titled 'SATCHN LEARNING & EVENTS LIBRARY' and features a large heading 'Learn together. Build capability together.' followed by a subheading 'A practical member library of live webinars, interactive workshops, event registrations and on-demand recordings.' Below this is a search bar with a search button and filters for 'All content', 'Upcoming', 'Recordings', and 'Live events'. A summary section shows '3 UPCOMING WEBINARS', '3 ON-DEMAND RECORDINGS', '3 INDUSTRY EVENTS', and '486 MEMBER LEARNING HOURS'. A featured live webinar titled 'International toolroom validation: what good looks like' is highlighted with a 'Reserve' button. Below this is a 'CONTENT CATALOGUE' section with three items: a live webinar, an interactive workshop, and a live event.

Figure 14. SATCN Learning and Events Library.

- 1 Search by topic, speaker or event.
- 2 Filter the catalogue by upcoming, recordings or live events.
- 3 Review the available learning and participation summary.
- 4 Reserve a place or open the relevant event record.
 1. Open Webinars & Events.
 2. Search or select a content filter.
 3. Review the event date, host, access level and duration.
 4. Register for an upcoming event or open an available recording.
 5. Use SATCN Messages for confirmations and joining instructions.

07 • SHARED MEMBER SERVICES

Keep commercial and technical communication traceable

SATCN Messages centralises RFQ clarifications, validation actions and event communications so that important exchanges remain connected to the relevant record.

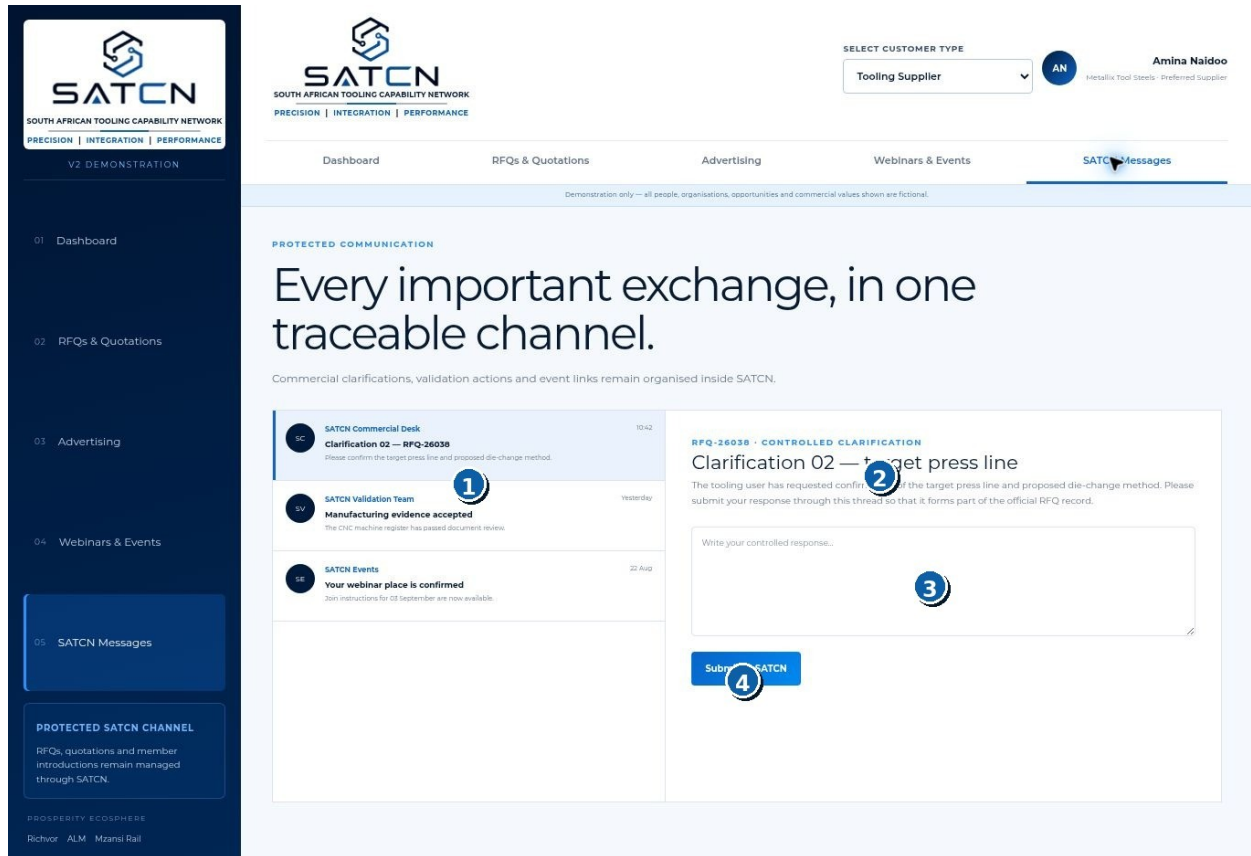


Figure 15. SATCN protected communications.

- 1 Choose a conversation from the message list.
- 2 Review the selected RFQ, validation or event message.
- 3 Prepare the controlled response in the message field.
- 4 Submit the response to SATCN so it remains linked to the official record.

TRACEABILITY Production implementation should retain sender identity, timestamps, attachments, permissions, revision history and audit records.

08 • SATCN ADMINISTRATOR

Coordinate network quality and commercial integrity

The administrative experience demonstrates the operational queues required to manage validation, RFQs, quotations, advertising, events, membership and reporting.

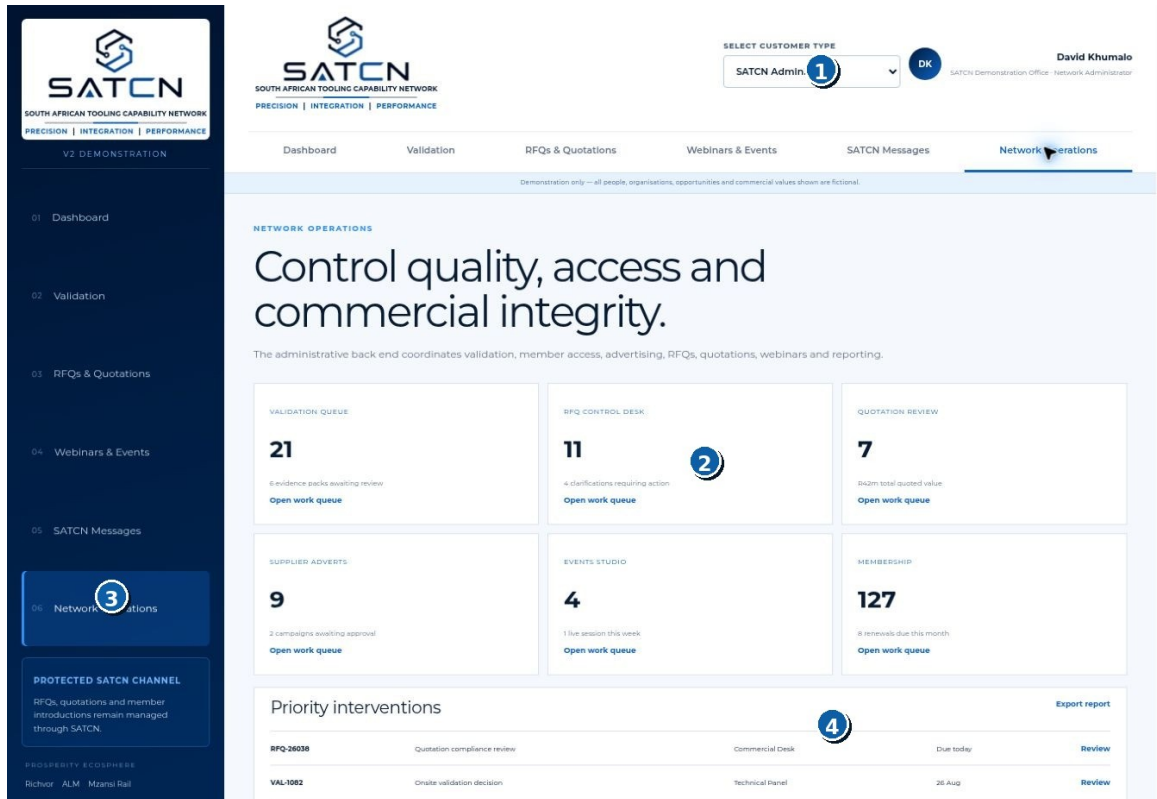


Figure 16. SATCN Network Operations dashboard.

- 1 SATCN Administrator activates the network-management experience.
- 2 Operational cards summarise validation, RFQ, quotation, advertising, event and membership queues.
- 3 Network Operations is available only to the administrative role.
- 4 Priority interventions focus attention on work requiring review or action.

Administrator responsibilities represented in the demo

- Protect qualification standards and approve published capability scope.
- Review and distribute RFQs only to appropriately qualified members.
- Control clarifications, quotations, introductions and programme reporting.
- Approve supplier campaigns and maintain the relevance of member learning.
- Manage access, renewal, reporting and network integrity.

09 • QUICK REFERENCE

Key SATCN terms

These terms describe the operating logic demonstrated across the platform.

Term	Meaning in SATCN
Validation	An evidence-based assessment of capability against defined expectations.
Qualified scope	The specific processes and services that SATCN has assessed and published.
Controlled RFQ	A requirement reviewed, matched and distributed through SATCN rather than sent directly from the directory.
Verified capability	Published evidence covering systems, equipment, people, track record and delivery controls.
Progress report	A shared view of workstream completion, current activity, milestones, health and visual evidence.
Renewal	Periodic reassessment that keeps published capability current and improvement-focused.

What the demonstration proves

- A toolroom can progress from diagnostic assessment to evidence-backed market visibility.
- A tooling user can move from requirement to qualified matching, controlled quotation and visible delivery.
- A supplier can reach a focused industrial audience while enquiries remain managed through SATCN.
- SATCN can connect validation, commercial governance, learning and programme oversight in one platform.

Capabilities still required for production deployment

- Secure production accounts, authentication and role permissions.
- Controlled document storage, confidentiality rules and engineering revision management.
- Persistent databases, audit trails, notification services and production reporting.
- Formal validation governance, assessor controls, appeals, renewals and data protection.
- Commercial terms, subscriptions, service levels and operating support.

GUIDE STATUS This guide reflects the SATCN V2 demonstration published in September 2026. Future editions can incorporate approved production workflows, mobile screens, support information and formal document-control metadata.



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CAPABILITY CREATES INDUSTRY. INDUSTRY CREATES OPPORTUNITY.

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