



Orchestrating a brighter world



# NEC Testing Services

All-in-one testing solutions that cover any type of testing

[au.nec.com](http://au.nec.com)

Our commitment to market-leading testing solutions is underpinned by our investment in people, process and tools

## Background

Testing is an essential part of the software development and quality management process. Applications are often complex and require specialised skills, experience and testing solutions to test them in a structured, effective manner.

Managed by NEC's National Testing Centre of Excellence team, NEC Testing Services provide a robust framework and enables organisations to establish strong quality processes.

Comprised of strategic assets (people, process and tools) tied together, NEC Testing Services enable our customers to realise the vision of a centralised quality organisation.

## Common Challenges

- Desire to drive and improve quality of projects
- Expensive test resources
- Inexperienced resources with limited testing skills
- Lack of experience on processes, tools, technologies and best practices
- Lack of national presence in testing resources
- Lack of test governance experience
- Lack of test planning and estimation experience
- Lack of testing solutions
- Testers with no industry certification

### NEC Testing Services throughout the Software Development Lifecycle

#### 1. Project Inception

Test Governance  
Managed Testing Services  
Test Consultancy  
Requirement & Artefact Inspection

#### 2. Verification & Planning

Consulting & Strategy Services  
Requirement & Artefact Inspection

#### 3. Design

Test Planning & Preparation for Functional and Non-functional Testing  
Framework Design & Development Services

#### 4. Delivery

SIT Testing  
Test Automation & Execution  
Performance Testing  
Security Testing  
Usability & Accessibility Testing  
Infrastructure Testing

#### 5. Closure & BAU

Infrastructure Testing  
UAT Support  
BAU Testing Support

NEC testing services can cover the full Software Development Lifecycle

## Testing Services

NEC offers 9 categories of testing services. We offer services throughout the entire Software Development Lifecycle (SDLC):

1. Project Inception
2. Verification & Planning
3. Design
4. Delivery
5. Closure & BAU

### Test Governance & Managed Testing

- Test governance
- Managed testing services
- Test consultancy

#### Benefits

- Context driven test governance model
- Proven test process
- Flexible ownership models (complete / hybrid)
- Flexible engagement models (strategic partnership / resource provider)
- KPI driven test deliverables
- Benefit based payment structure
- Tangible improvements indicated via quality metrics
- Complete toolset along with managed testing services
- Ability to show proven outcome (test process)

### Automation Testing

- Consulting & strategy services
- Framework design & development services
- Automation execution & maintenance

#### Benefits

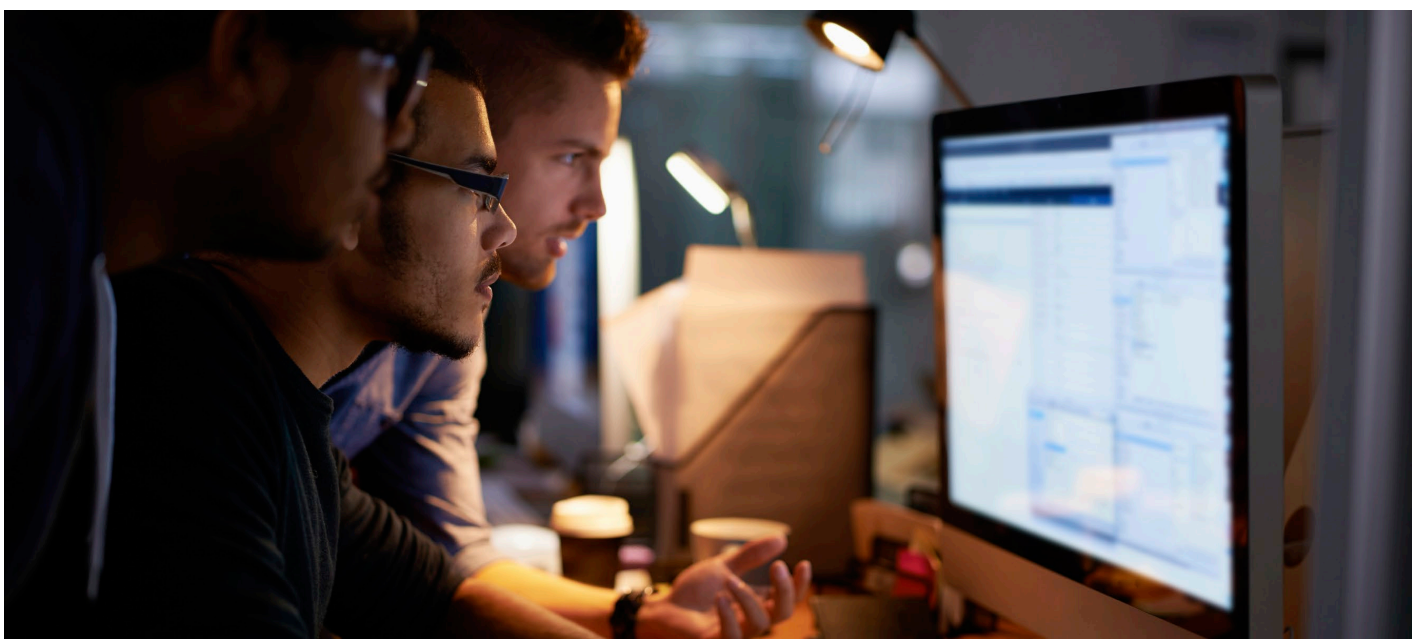
- Single script multi-integration
- ATDD, TDD & BDD support
- Autonomous test execution & reporting
- Cloud based parallel execution covering cross browser / devices
- Automated database & API checks
- AGLS test integration
- Reduced TCO for testing

### Performance Testing

- Performance planning & execution
- Performance engineering

#### Benefits

- Improved customer experience & organisational reputation
- Minimise delivery time
- Business & technical decisions via performance metrics
- Real-time performance results
- Interactive continuous reporting
- Avoid additional costs related to hardware acquisitions



Performance Testing can improve customer experience and organisational reputation



## Testing Services

### Usability & Accessibility Testing

- Evaluation against industry best practices / standards
- Analysis against competitor or previous application versions
- Test Driven Accessibility Design
- Web accessibility compliance against WCAG 2.0 AA Standards
- Mobile Accessibility Compliance against Mobile Web Best Practices 1.0 & WCAG 2.0

#### Benefits

- Right first time approach
- Accessibility driven design & development
- Competitive advantage in the market
- Manage and preserve corporate image
- Meet the regulatory requirements
- Minimise delivery time

### Mobile Testing

- Mobile web testing
- Native mobile application testing

#### Benefits

- Seamless compatibility integration across devices & browsers
- Consistent business experience
- Informed business decisions
- Single script multi integration



Mobile Testing can ensure a seamless user experience across devices & browsers

## Testing Services

### Infrastructure Testing

- Environment verification testing
- Installation & configurations testing
- Operational readiness testing
- Failover / disaster recovery testing
- Logical connectivity testing
- Platform migration testing



Infrastructure Testing can reduce operational costs and risks

#### Benefits

- Higher availability of systems, stable environment
- Mitigate / avoid cost of network downtime
- Improve stability of applications, robust operating systems and sub components
- Reduce operational costs & risks
- Faster resolution & reduced problems

### Requirement & Artefact Testing (Static Testing)

#### Reviewing documentation

- Business requirement specifications
- Functional specifications
- Test plans
- Test cases
- Manual or automated test scripts
- Unit test cases
- System use cases
- Field / data dictionaries
- Help documents or training guides

#### Benefits

- Eliminate defects before they're coded
- Identify usability issues
- Defects fixed more efficiently
- Reduced project cost
- Near 100% coverage
- Find deviation from standards
- More effective than dynamic testing alone

### Web Services / API Testing

- SOAP or REST based Web Services / API testing
- Automated tests
- Test performance of the Web Service / API
- Security testing of the Web Service / API interface

#### Benefits

- Testing raises quality of the Web Services / API functionality, usability & security aspects
- Early detection of issues and test coverage on interactions with interfaces
- Automated tests integrated with CI / CD
- Automated result reports

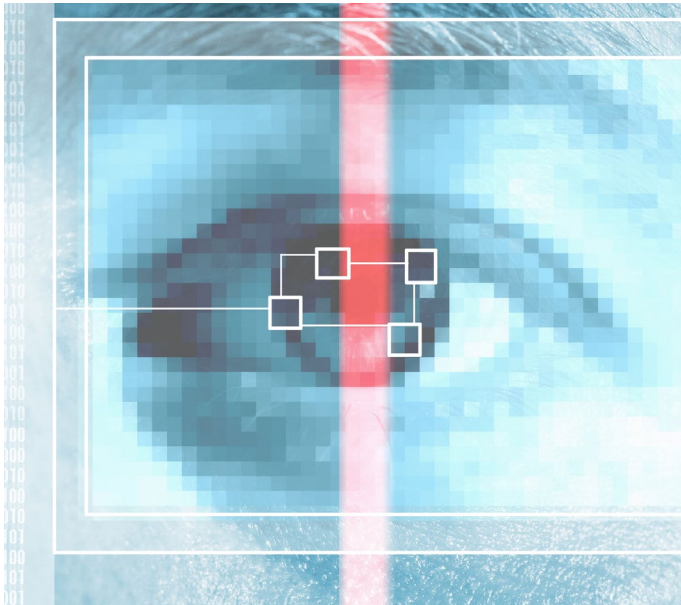
## Testing Services

### Biometric Testing

- System / functional testing
- User Acceptance Test (UAT) support

#### Benefits

- Meet regulatory requirements
- Accurately scaled application & infrastructure
- Domain expertise on critical focus areas to concentrate
- Understanding of client workflows & operational model
- Reduced test preparation time & reusable test assets
- Test management tool with biometric specific test assets loaded



Biometric Testing Services include fingerprint and facial recognition

## Why NEC?

NEC has proven capability in testing a broad scope of ICT solutions using strong testing practices, tools and resources who are meticulous on attention to detail.



#### People

- Cross-skilled technical resources with a national presence and experience in handling large, complex projects
- Leadership team with over 15+ years industry experience
- Cost effective resourcing models, including offshore capability
- Access to local and international expertise from NEC's global network



#### Process

- Methodical test process
- Standardised test templates
- Test checklists
- Reusable tests



#### Tools

- Testing ecosystem that covers any type of testing
- Use of industry best practices and tools
- Industry leading test management tool support





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