Automated Testing Capability

**ATRT: Test Manager** is a state-of-the-art automated software testing product designed to address the challenge of testing today’s large, complex, mission-critical systems. This revolutionary tool, with cross-platform and cross-technology capability, facilitates the efficient automation and integration of testing efforts across the entire software testing lifecycle.

**ATRT: Test Manager** enables software developers to complete more tests in less time. When compared to traditional testing, **ATRT: Test Manager** increases overall testing productivity by an average of 75%.

**ATRT: Test Manager** is part of a robust suite of products in the Automated Test and ReTest (ATRT) program. It can be fully customized to meet customer specifications or is available as a turn key licensed product.

Better Testing; Better Results

**ATRT: Test Manager** offers the following advantages over manual testing:
- Increased Test Coverage
- Improved Software Quality
- Reduced Testing Time
- Increased Productivity
- Overall Cost Savings

Broad Functionality

**ATRT: Test Manager** enables the automation of manual testing tasks and provides broad test coverage and functionality as follows:

**Testing Coverage**
- Functional Testing
- Regression Testing
- Interface Testing
- Concurrency Testing
- Endurance Testing
- Performance Testing

**Additional Functions**
- Test Case Management
- Enhanced Error Debugging – with immediate failure notification
- Automated Test Repair
- Report Generation
- Requirements Traceability Matrix (RTM)

User-Friendly Implementation

**ATRT: Test Manager** enables testers to more efficiently execute highly-complex automated tests. The software is designed with the user in mind. Tests are generated through simple point and click commands. Users can group common test actions into functions that can be easily re-used.

Our training experts thoroughly prepare our customers to successfully execute new test processes and achieve outstanding results.

**ATRT: Test Manager** is currently installed in many secure DoD labs, running tens of thousands of automated test cases. It functions unattended, verifying millions of test permutations in minutes and freeing engineers to focus on development tasks and test outcomes.
Technical Features

**ATRT: Test Manager** is designed for maximum system compatibility and ease of use. It supports testing in a heterogeneous, multi-computer environment and uses a model-based, scriptless approach to automated testing which is non-intrusive to the System Under Test (SUT).

**System Features:**
- OS independent for the SUT
- Platform independent
- Non-intrusive to the SUT
- GUI technology neutral
- Interface Protocols—TCP/IP, UDP, CORBA, SOAP over http, multicast and DDS
- Supports IDL and C/C++ message file types
- Combines GUI and message-based testing
- Extensible via open APIs and plug-ins
- Cloud compatible
- Batch processing of automated tests
- Flexible and extensible reporting framework
- Test case import/export capability
- Optical Character Recognition (OCR)
- Data pooling—interfaces with external data sources
- Modular test support
- Testflow design with visual display
- Testflow validation
- Secure and DoD approved

**System Requirements:**
- OS: Linux or Windows
- Server: Virtual Network Computing (VNC) or Remote Desktop Protocol (RDP) on SUT
- CPU: Dual Core, 2 GHz (or better)
- RAM: 4 GB (or better)
- Screen resolution: 1920x1080
- Hard drive space: 120 GB (or better)

**Technology Utilized:**
- Eclipse RCP application
- Virtual Network Computing (VNC) compatible
- Remote Desktop Protocol (RDP)
- XML based data stores

Support and Services

At IDT, our business is automated testing. We specialize in providing automated solutions tailored to each customer’s specific needs. Our highly qualified experts will work with you to evaluate your current manual testing processes, help identify operationally significant tests it makes the most sense to automate and define an effective automated testing strategy. We have the expertise, technology and strategies in place to provide an integrated and comprehensive automated testing solution. Let us help you increase your productivity, build unparalleled systems and achieve your software development goals.

**We offer our customers:**
- Automated testing strategy
- Subject matter expertise
- Systems engineering
- Customer support
- On-site training
- Online resources

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Innovative Defense Technologies (IDT) is an information technology business headquartered in Arlington, VA. Since 2006, IDT has been pioneering new ways of designing, developing and implementing best-in-class automated software testing solutions for the DoD, defense contractors and commercial customers. The company has a proven track record of delivering automated software testing solutions in support of mission-critical systems. IDT has additional offices in Fall River, MA, Mt. Laurel, NJ, and San Diego, CA.