



XS-Agents for Referenz-Transaktionsfolgen

Within the INFRA-XS[®] product family, XS-Agents measure a wide range of application and network-relevant data from the end-user perspective, therefore portraying realistic business cases.

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XS-Agents for Referenz-Transaktionsfolgen measure IT quality parameters, including response time behaviour and the availability of so-called Referenz-Transaktionsfolgen (RTF) from the end users' perspective. A RTF is a model based description of IT based business processes.

The workflow environment for a RTF is the RTF-Agent system a "measurement robot" or "automated measurement system" which is installed at the end-user locations in the company network. Standard Windows-based PCs can be used as hardware, with standard software components installed, taking account of the system requirements.

An RTF-Agent system requires no operator, no keyboard and no monitor, can be remotely administered and, in cases of failure (e.g. failure of an application server), autonomously ensures that measurements continue to be carried out and that no recorded data is lost, e.g. by using a self-monitoring watchdog mechanism.

RTF-Agent systems support a wide range of application architectures and, while measurement is proceeding, also record data

on resource use on the desktop, network round-trip times and throughput and server response times.

Several RTFs can run on an RTF-Agent system, partially in parallel. The number of RTFs is dependent on the maximum time taken for a single measurement, the degree of parallel processing and the required measurement frequency.

RTF-Agent systems can receive all scripts and software modules required for executing RTFs from the central XS-Server, and also send their measured data and alarms to a central server.

By cascading a number of RTF-Agents, it is possible to display differentiated run-time observations, e.g. in complex client-server architectures.

Using adaptable scripts supplied with the system, RTF-Agent systems are self monitoring in conjunction with the XS-Server, transmitting warning messages when any measurement problems occur.

RTFs support Windows applications with any kind of user interface, as well as a series of transactions that are automatically run via programming interfaces (APIs). An extensive tool environment, including script editor, business-case modelling and script recorder, is available for development and documentation. The application steps to be measured are determined by inserting start and stop marks, allowing several RTFs, part RTFs, transactions and dialogue steps to be defined for each business case.

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This procedure is independent of the application being measured, and is standardised.

Performance features:

- Workflow control and measurement of availability and response time of any Windows based applications, including
 - Client/server applications (e.g. SAP R/3, Siebel, Peoplesoft)
 - Transaction-orientated applications, including vt220, 3270, 5250 and 9750
 - Intranet/Internet applications and protocols, including HTML/HTTP, e-mail (POP3/SMTP), LDAP, DNS
 - Database and RPC interfaces, including Oracle TNS, DCom, Corba, web services (SOAP/WSDL)
- Measurement of client, network and server performance
- Parallel and sequential monitoring and measurement of multiple applications
- Powerful, standard-based script language
- Automatic and autonomous script flow using a script processor
- Ensures continuous system stability of the reference PC systems
- Extensive standard script libraries, for example for workflow control. All libraries are adaptable.

System requirements for XS-Agents for RTF

Platform:

- Microsoft[®] Win32 standard platform

Operating system:

- Microsoft[®] Windows[®] 7
- Microsoft[®] Windows[®] XP SP3
- recommended Windows[®] 7

Processor:

- Minimum Intel[®] Pentium[®] 4, 2,5 GHz
- recommended Intel[®] Core[™] 2 or
- AMD Athlon[™] X2

RAM:

- Minimum 1024 Mbyte
- recommended 2048 Mbyte or more

Hard drive:

- around 100 MB required in continuous operation
- around 150 MB required in addition for the installation, if installed from the local hard drive
- around 1 GB in addition recommended as a cache for measured data, if longer offline run times required
- around 10 GB recommended in addition as cache for network data, if network troubleshooting required

The actual sizing of the system is determined in the scope of the relevant customer projects.

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