Glossary

Term	Abbreviation	Description
B		
Bridge domain	Bridge domain or domain	Aggregation of node instances, which are managed with the Bridge.
Bridge node instance	node instance	A physical machine an Bridge is running on.
H		
HTTP	n/a	The HyperText Transfer Protocol is the protocol of the Web, by which servers and clients (typically browsers) communicate. An HTTP transaction comprises a request sent by the client to the server, and a response returned from the server to the client.
J		
Java Runtime Environment	Java Runtime or JRE	Runtime for Java services (see the Oracle Java pages), that is packaged with the **Scheer PAS** *BRIDGE* .
M		
Model Driven Architecture®	MDA®	Separating abstract model from implementation issues to enhance reuse.
N		
Node.js	n/a	Runtime for JavaScript services (see the Node.js pages), that is packaged with the **Scheer PAS** *BRIDGE* .
S		
Scheer PAS *ANALYZER*	Analyzer	The **Scheer PAS** *ANALYZER* is a tool to support users of the **Scheer PAS** *BRIDGE* with the tasks of runtime analysis, troubleshooting of distributed systems and regression testing.
Scheer PAS *BRIDGE* ®	Bridge	The **Scheer PAS** *BRIDGE* contains runtimes for xUML services, Node.js services and Java services and a web-based administration console to manages these services.
Scheer PAS *BUILDER*	Builder	The **Scheer PAS** *BUILDER* optimizes and compiles XMI files to an executable UML service. It contains the xUML Model Compiler and a SOAP Test Tool.
Simple Object Access Protocol	SOAP	The Simple Object Access Protocol is the message protocol that allows Web services to talk. SOAP is an XML-based protocol for exchanging information between computers. Although SOAP can be used in a variety of messaging systems and can be delivered via a variety of transport protocols, the main focus of SOAP is on Remote Procedure Calls (RPC) transported via HTTP. SOAP is platform independent, and therefore enables diverse applications to communicate with each other.
Stereotype	n/a	A UML extension mechanism, which looks like <<SQL Adapter>>. This adds a special meaning to a UML object.
T		
Tagged value	n/a	A UML extension mechanism that enhances standard UML objects with additional attributes. For instance, a tagged value named "DB name" can be defined for an SQL Adapter.
U		
Unified Modeling Language™	UML®	The Unified Modeling Language (UML) helps you to specify, to visualize, and to document models of software systems, including their structure and design, in a way that meets all of the application's requirements. You can use UML for business modeling and modeling of other non-software systems, too.
Universal Description, Discovery and Integration	UDDI	A database that holds technical and non-technical information about services. Used to find a service and its corresponding WSDL definition.

W		
Web Service		A Web service is any piece of software that makes itself available over the Internet and uses a standardized XML data format. XML is used to encode all communications to a Web service. For example, a client invokes a Web service by sending an XML message, and then waits for a corresponding XML response. As all communication is in XML, Web services are not tied to any one operating system or programming language. Thus, they work like a middleware that enables and simplifies application-to-application connectivity.
Web Service Definition Language	WSDL	The Web Service Description Language is an XML grammar that allows a Web service to describe what it can do, what messages it accepts, and what response it returns. This means especially data types and function calls.
X		
XML Metadata Interchange (XMI®)	XMI	The XML Metadata Interchange Format is an exchange format for UML models. It standardizes the representation of UML models in XML.
xUML Action Language	EAL	The xUML Action Language implements parts of the Action Semantics UML Extensions.
xUML Service	xUML service or service instance	The compiled xUML service deployed to an **Scheer PAS** *BRIDGE* . It contains the internal representation of a service (load and performance optimized for the xUML Runtime).
xUML Runtime	xUML Runtime	The C++ kernel, which executes the compiled UML model (provides for instance the in/out SOAP messages that are necessary to fulfill service calls).