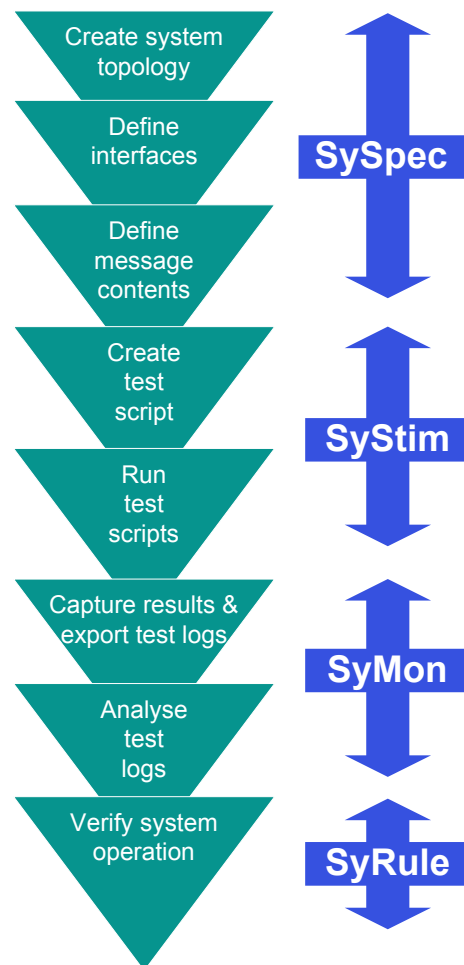


SyDat makes interfaces easy to design and manage.

SyDat has been designed to ease the definition, sharing and testing of interfaces of real-time, distributed systems.

The SyDat toolset

Systems Engineers and Systems Developers can use the SyDat software toolset to increase their productivity, by automation, and reduce the risk of defects, by adding software-assisted rigour to interface definition.



You use the SyDat components (SySpec, SyStim, SyMon, SyRule and SyScript) to complete the eight-step SyDat process. The mapping is shown in the figure above.

SySpec

SySpec allows users to specify fully and unambiguously the system topology in network files; interface definitions in ICDs (interface control documents); and inter-process communication through message definitions.

SyStim

Once topology, interfaces and messages have been specified (by SySpec), SyStim enables users both to specify individual messages to be sent across interfaces, and to test these interfaces by then injecting those messages into the system in a controlled manner. Large volumes of data can be generated very quickly and easily, enabling tests that last days or even weeks.

SyMon

SyMon allows the user to monitor the response of the system interfaces to the injected messages, by analysing data flowing across interfaces. Pre-defined by the interface definitions from SySpec, this data is captured, collated, and presented to the user in a comprehensible way, in real-time, using a graphical or textual format. It can warn of any unusual or unexpected events, and data can be analysed, both live and off-line, via log files. Customised monitors can be added via "add-ins". SyMon exports data for entry into test reports, or for use in other off-line tools.

SyRule

SyRule is an intelligent SyMon component that provides rule-based monitoring. SyRule validates that an interface is behaving as expected, by allowing the user to define the mathematical and temporal relationships between data elements across the system, and thus verify the correct operation of the system as a whole.

SyScript

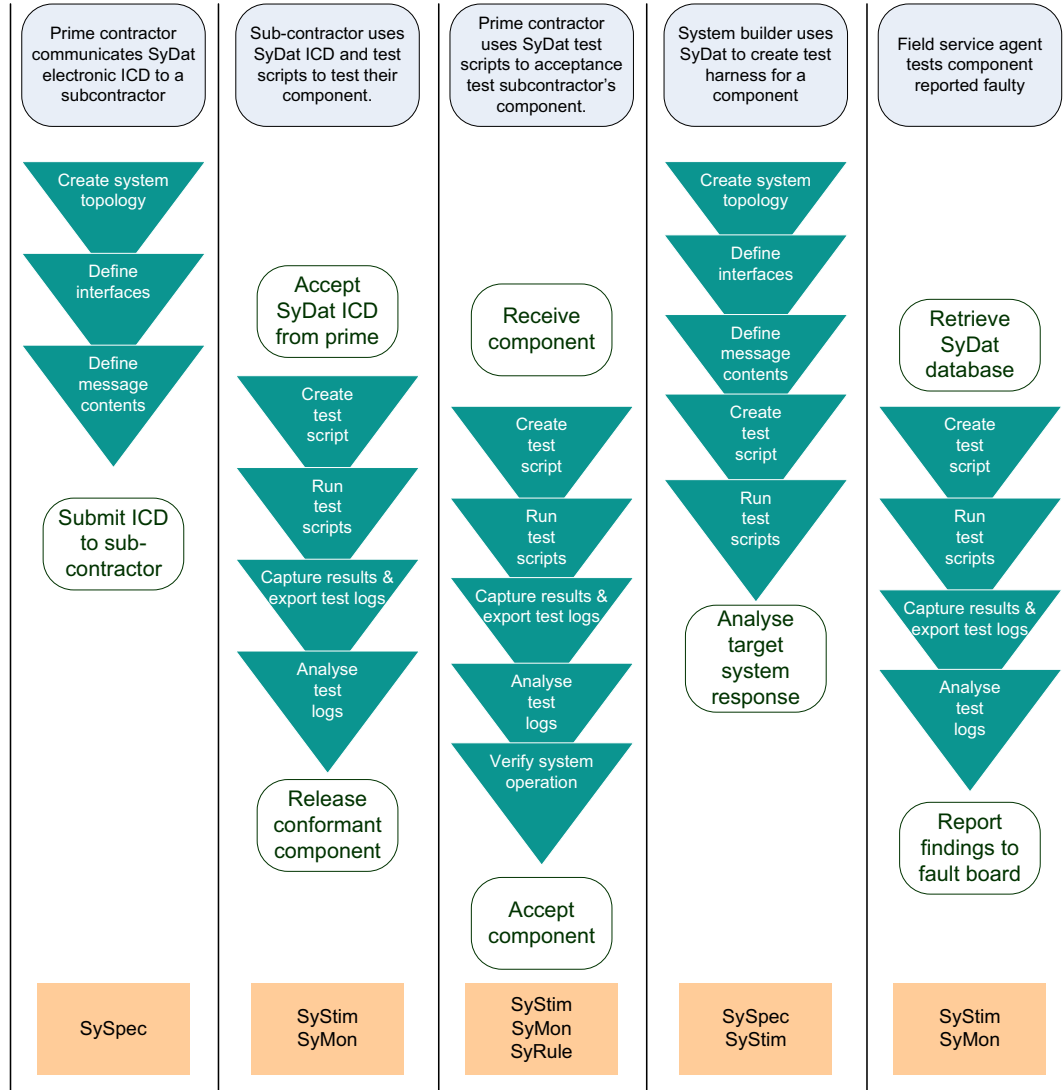
SyScript allows the user to define algorithms that define the relationships between data received by SyMon and data to be output by SyStim. Like all SyDat components, it works from the common database produced by SySpec. This enables the system integrator to place a semi-intelligent stub in the place of a component missing from the network of systems.

The SyDat toolset

SyDat usage scenarios

The scenarios below are a small subset of the many ways in which systems engineers can use SyDat. SyDat licensing will enable you to buy just the components you need.

Please see the "Buying a SyDat Licence" leaflet for more details on licensing.



HAWKGROVE • TECHNOLOGIES LTD •

Hawkgrove Technologies Limited
 2 The Business Courtyard
 Trudoxhill
 Somerset BA11 5DL
 T: +44 (0)1373 837900
 E: info@sydat.co.uk
 W: www.sydat.co.uk