



2iC MOD open standard Lean Services Architecture Integration Adaptor Development - Services Definition

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Author(s):	Graham Booth
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2iC Limited, registered in England and Wales number 07183164

2 Venture Road, Southampton Science Park, Chilworth, Southampton, SO16 7NP, UK

P: +44 (0) 208 123 7479

www.2iCworld.com

E: info@2iCworld.com

1. LSA Integration (Adaptor development)

To connect any platform, digital system, sensor or device (“system”) into a Lean Services Architecture (LSA) environment that system needs to expose an open-standard Lean Services interface.

The system could have an LSA interface added by the supplier making it a native LSA system or it could have an LSA Adaptor developed that is separate from the system and presents LSA on one side and talks directly to the system on the other side. As an analogy, an electrical power device used in the UK could have a specific UK plug or could have a US plug with a travel adapter when used in the UK.

The LSA interface can be supplementary to any existing API/external interface a system already has, or it could be used to provide a smart API if the system does not have an existing published interface.

Options for integrating LSA into your products:

Option	Comment	Cost	Next Step
Build your own using the LSA Open Standard	It's a tested open standard – people and companies are free to develop using the published specification, to make their systems LSA enabled.	No fee to pay, and use own experienced integration engineers.	Download the specification and get started.
Build your own with the 2iC TOOLKIT	The 2iC TOOLKIT product is a subscription-based service for software and systems engineers to quickly research, develop and test their own modular, open and interoperable systems. In addition to the 2iC CORE software, it includes LSA software development kits, a code library, technical support and online documentation and training.	TOOLKIT is priced per user per quarter.	Pay the subscription and get started immediately.
Have 2iC Build for you	2iC's engineers can develop LSA adaptors for you as custom development, with the levels of complexity below:	You own the foreground IP while protecting your background IP.	Contact 2iC to establish complexity, using the guide below:

Appendix - Component list

Below is the list of 2iC components that are sold individual or as part of a package.

Component	Notes
NODE (UI, LSN, Gateway & DOP Runner)	Gateway has plugins for IP radios, Websocket connections, and Non-IP radios (GENSS, SquadNet & Codan) and is easily extended.
TAK Module (previsouly rTAK)	Acts as a TAK proxy to optimise TAK traffic, to reliable send over unreliable links, bridges TAK networks (both IP and non-IP) and replaces the need for lots of TAK servers at the edge.
MAVLink Module	Works with MAVLink drones to throttle and manage MAVLink data.
Content Checker	Flexible checkers to fine grain inspect content and only pass that which fits the mission re-configurable rule sets. Implementation of the Open BVR Specification Appendix of the MoD's Lean Services Architecture Standard.
MDIG DDS Adaptor	Process MAPLE and OARIS interface for Cross Domain Operations
NODE-RED adaptor	Adds a Lean Services interface to NODE-RED to enable rapid prototyping and test harness development.
SDKs (Java, C++ and C for Microcontrollers)	Development kits to produce LS Adaptors and Systems.
2iC Construct (LS Repository and DOP Designer)	Mange LS Schema and create DOPs