CISE Generic Adaptor

CISE Alert VIP Day

Rome / 12 September 2024

EMSA
European Maritime Safety Agency

CISE
COMMON INFORMATION SHARING ENVIRONMENT

Funded by
the European Union

The CISE Network

Law enforcement

Customs

Border control

Fisheries control

Maritime safety & security

Marine environment

Defence

Interoperability

CISE makes the existing systems interoperable to enable maritime authorities to exchange information using their own legacy systems.

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KEY PRINCIPLES

01 Voluntary participation

02 Connecting existing systems

03 Connecting authorities from 7 sectors

04 Decentralized infrastructure

05 Based on standard data model
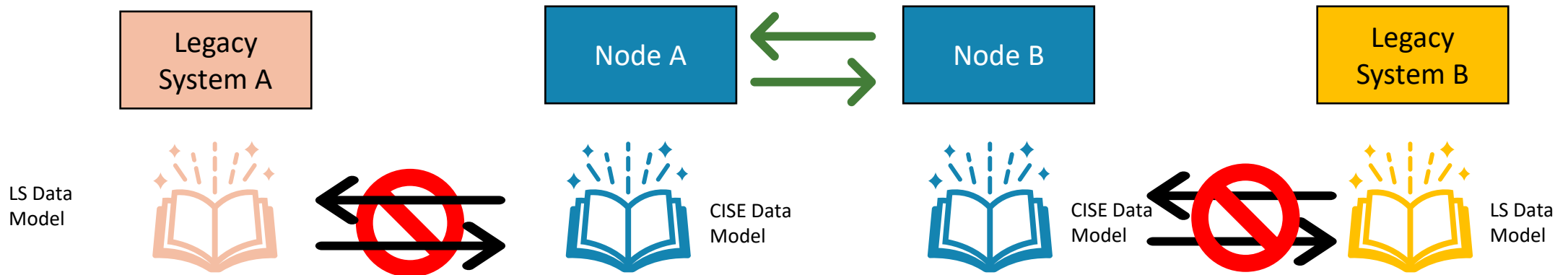
06 Easy control of access rights by the data owner

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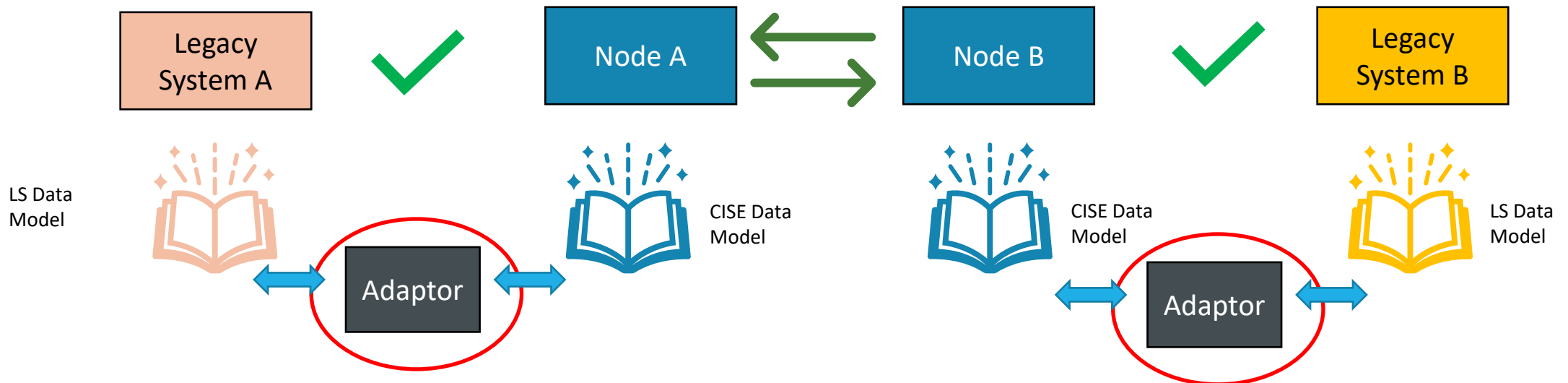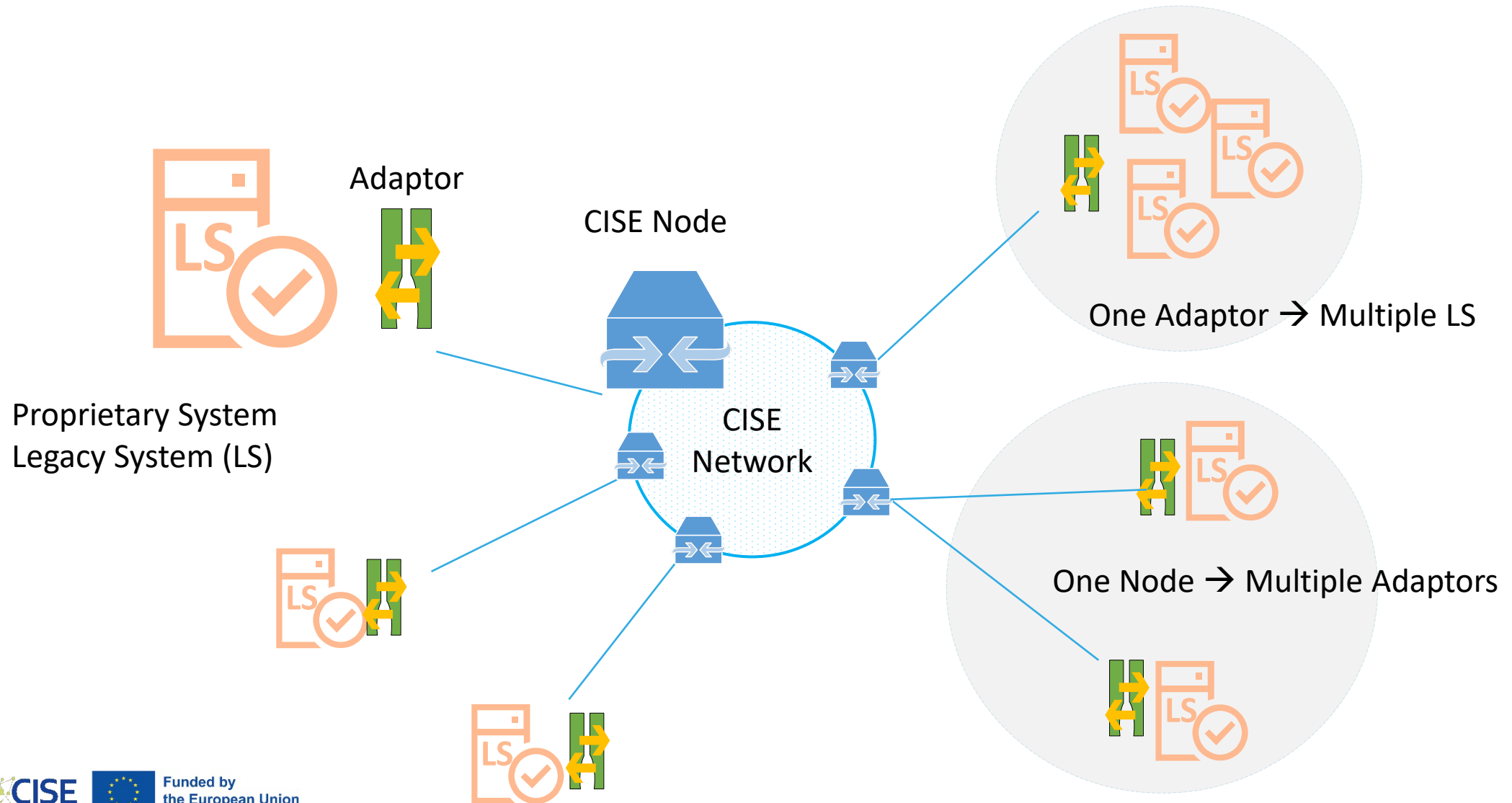
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CISE ADAPTOR

CISE Stakeholders need to develop an *Adaptor* to connect their existing *Legacy System(s)* to the *CISE Node*.

Modes of exploiting adaptors

Adaptor

CISE Node

Proprietary System
Legacy System (LS)

CISE Network

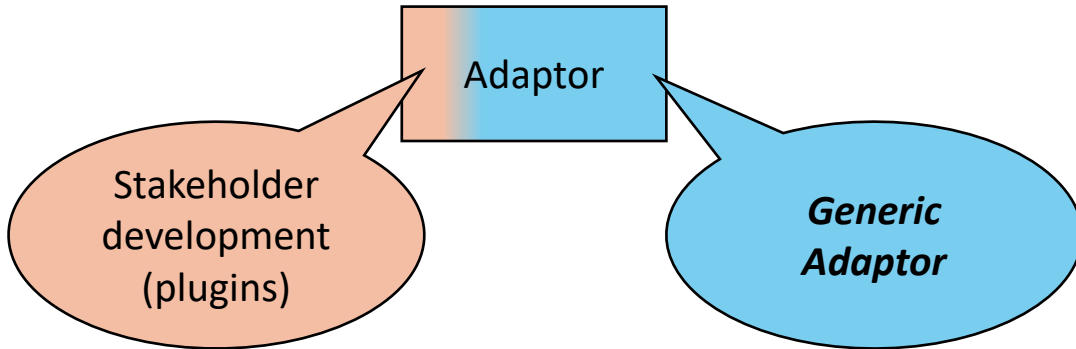One Adaptor → Multiple LS

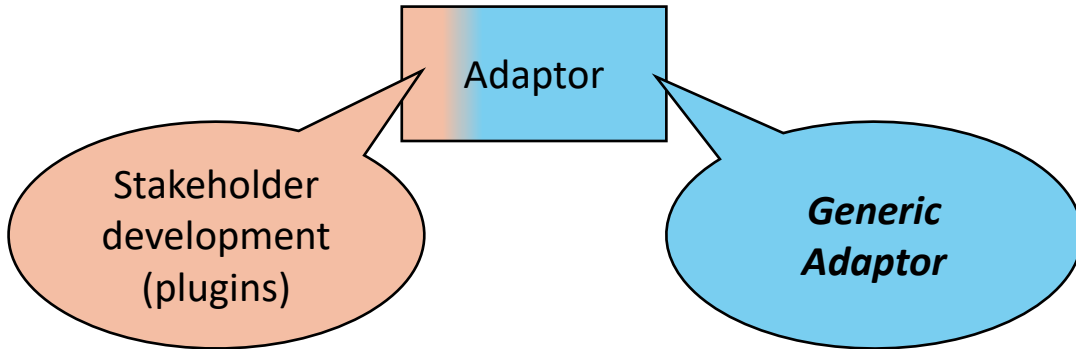One Node → Multiple Adaptors
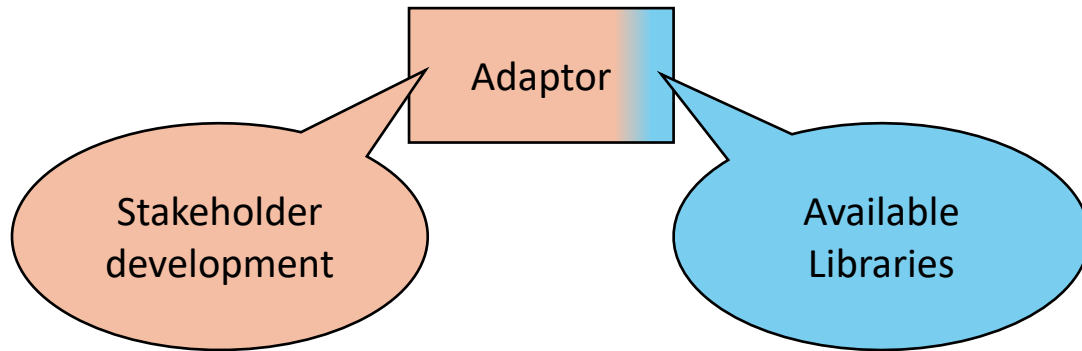
With the generic adaptor
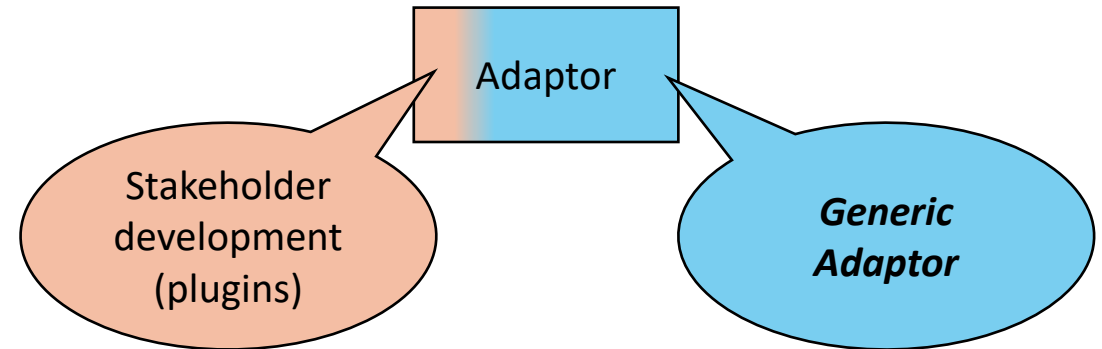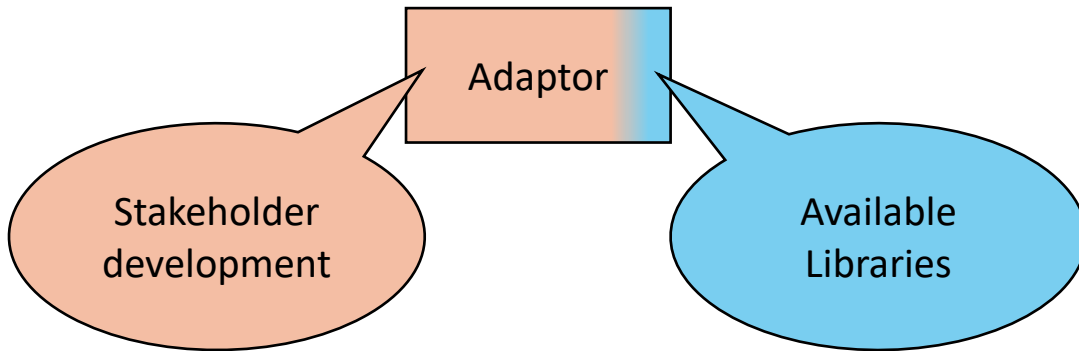
Cut development effort (estimated 60-80%)

With the generic adaptor

- **Allow Legacy System communication / language translation using tailored *plugins***
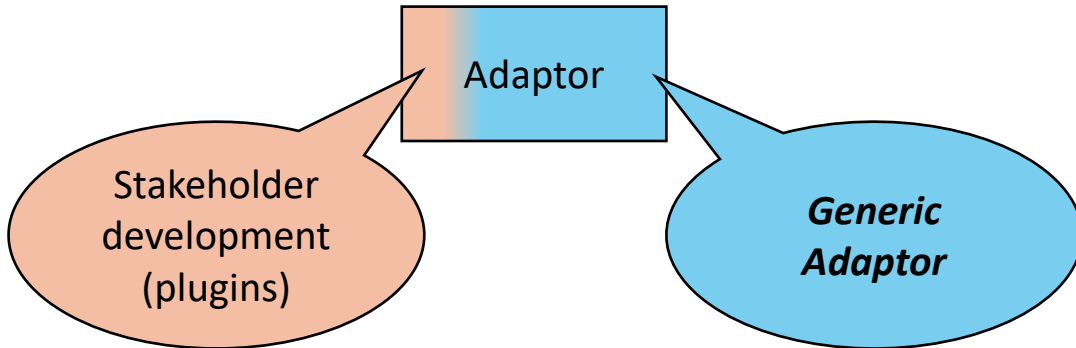
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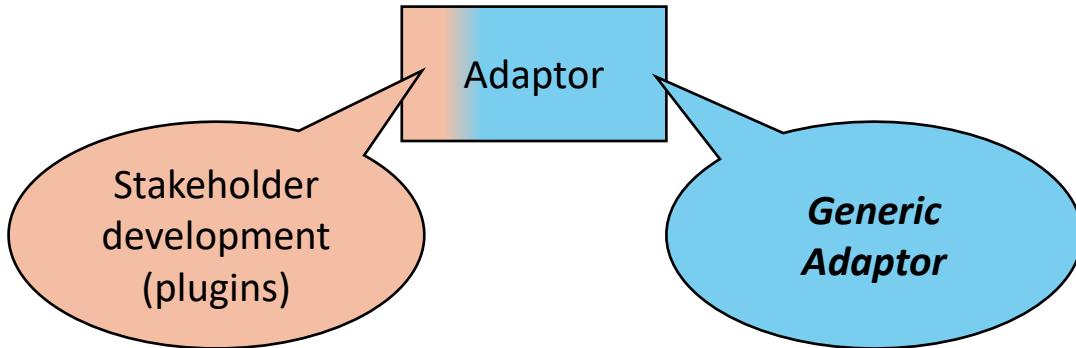- **Focus on making your Legacy System talk to CISE**

With the generic adaptor
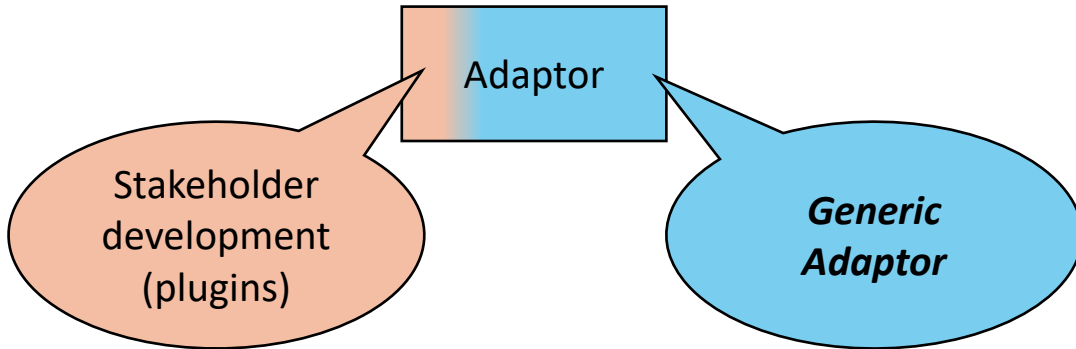
Adaptor

Stakeholder
development
(plugins)

*Generic
Adaptor*

- **Allow Legacy System communication / language translation using tailored *plugins***

- **Focus on making your Legacy System talk to CISE**

- **Re-use sample plugins created by JRC / EMSA/ Stakeholders**
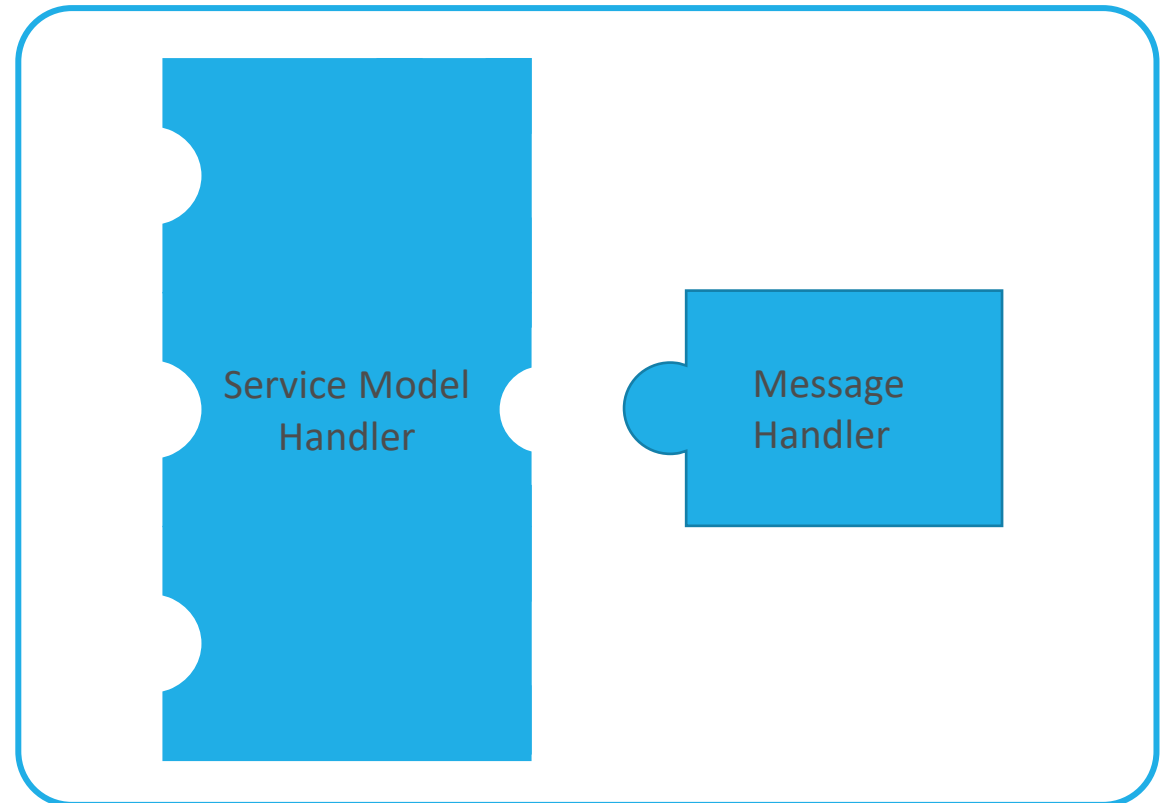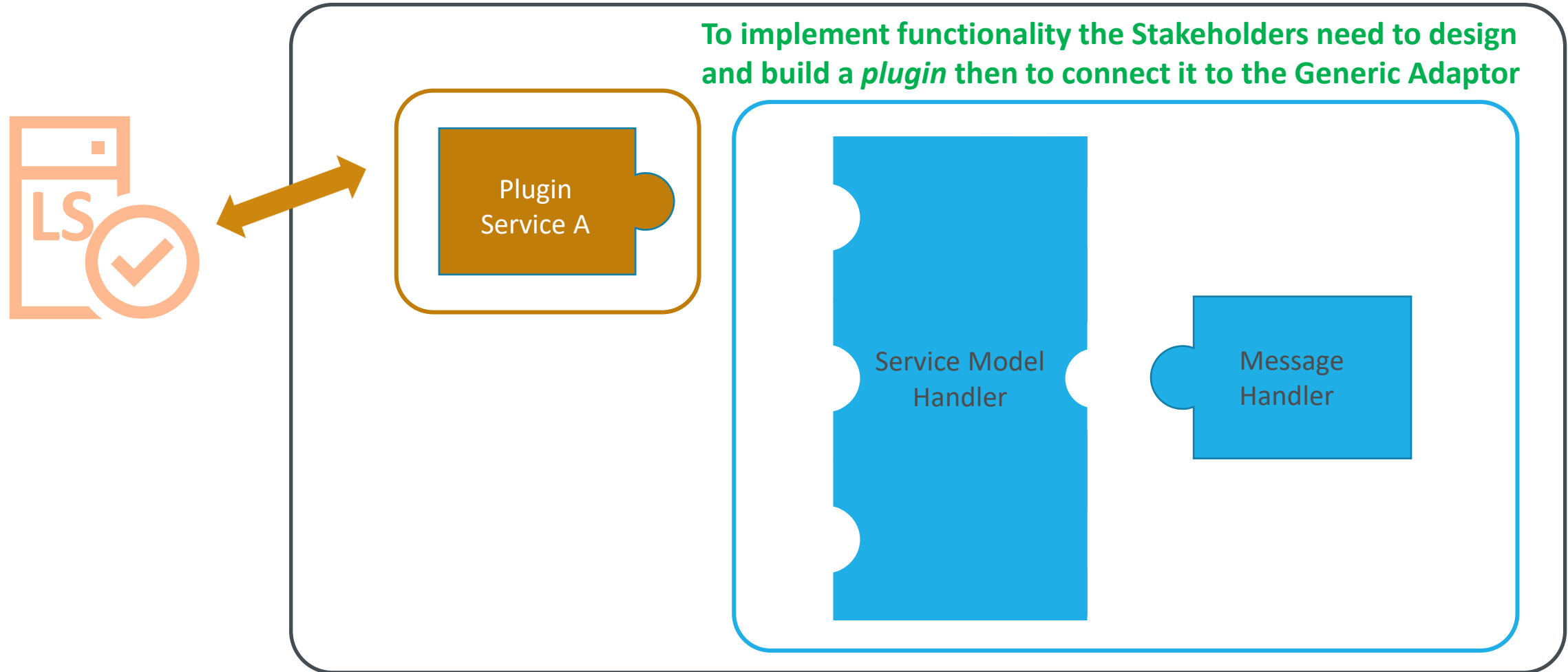
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- Re-use sample plugins created by JRC / Stakeholders

- Out-of-the-box handling of CISE Node communication and security updates

Adaptor

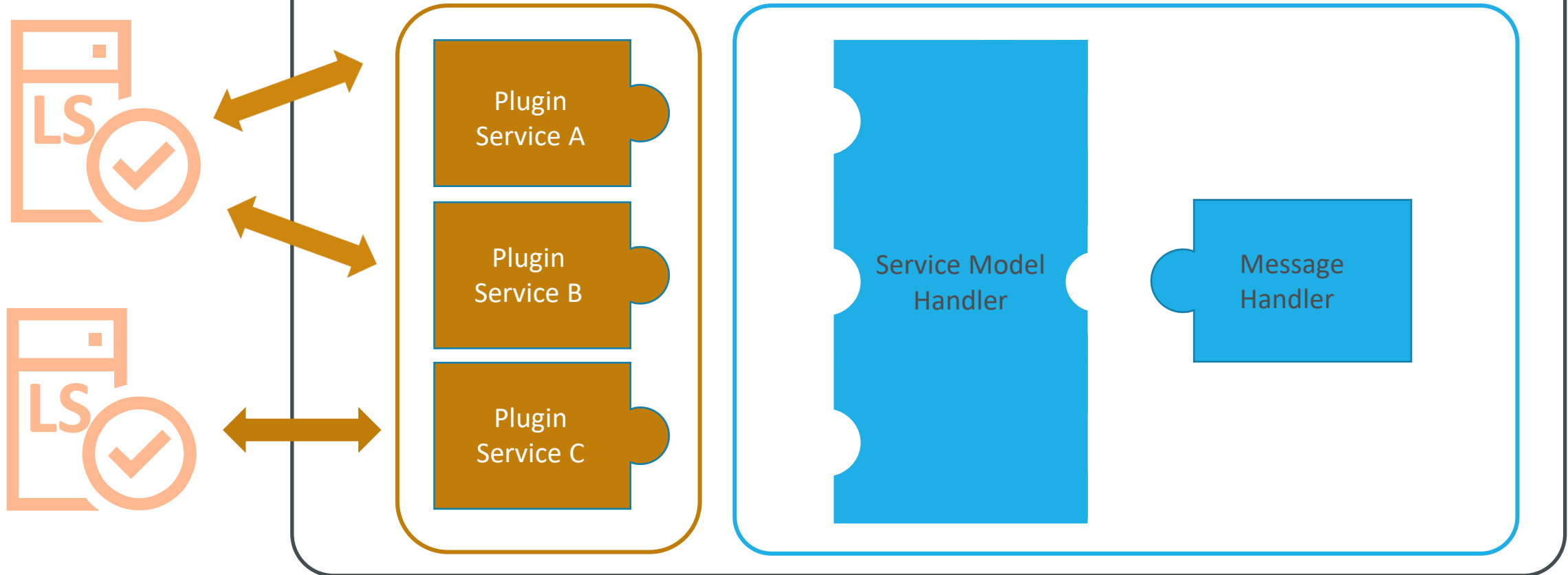Stakeholder development (plugins)

Generic Adaptor

- Allow Legacy System communication / language translation using tailored *plugins*

- Focus on making your Legacy System talk to CISE

- Re-use sample plugins created by JRC / Stakeholders

- Out-of-the-box handling of CISE Node communication and security updates

- Minimise the learning curve of plugin development through the use of well-known technologies (Java, Quarkus, etc.)

Generic adaptor – Plugins – CISE Services

To implement functionality the Stakeholders need to design and build a *plugin* then to connect it to the Generic Adaptor

Plugin Service A

Service Model Handler

Message Handler

LS

- **Supports the following CISE information services:**
- Push provider / consumer (known-unknown)
- Subscribe provider / consumer (known-unknown)
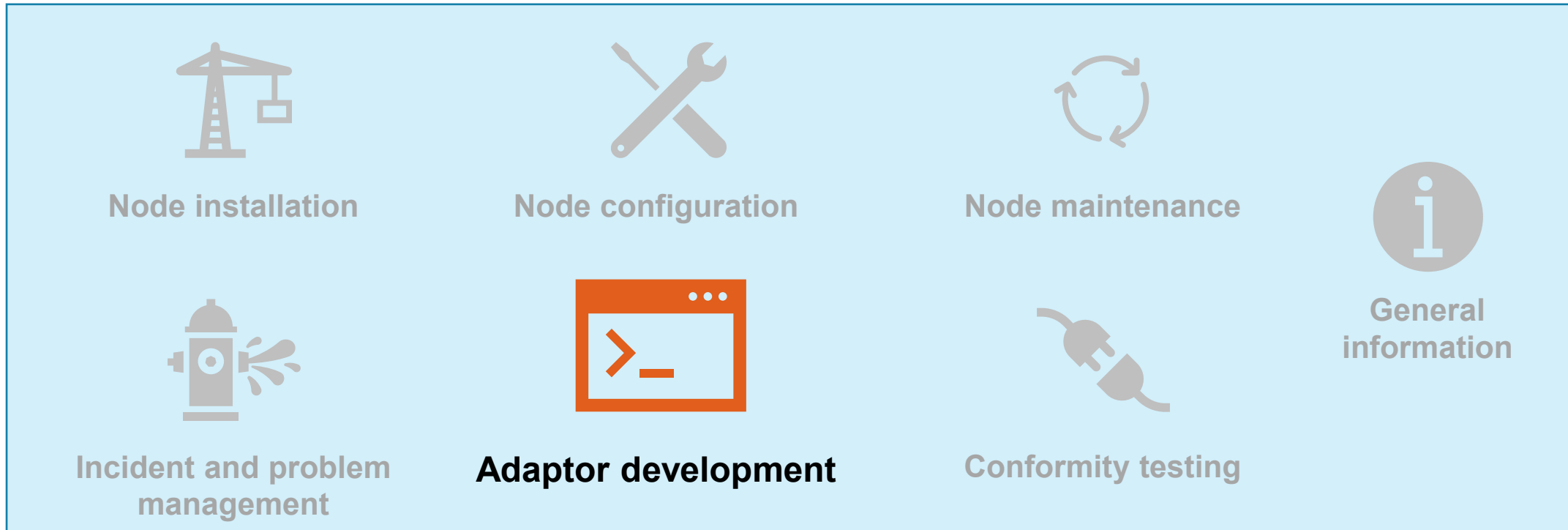- Pull provider / consumer (known-unknown)

The CISE Stakeholders are invited to submit to
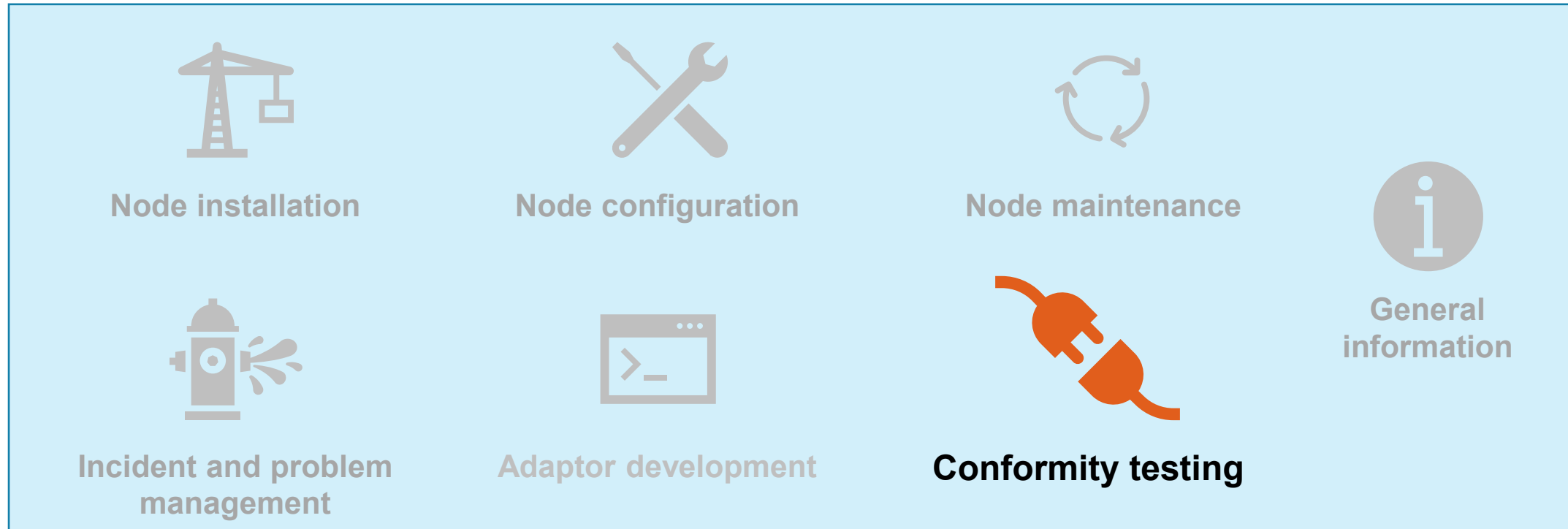
mss@emsa.europa.eu

any request for

supporting the development/Configuration

Node installation

Node configuration

Node maintenance

General information

Incident and problem management

Adaptor development

Conformity testing

validation

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Adaptors/Simulators

The **Stakeholder** is **accountable** for the development/deployment of adaptors. **CISE support team** can be **consulted** and **informed**.

Activity	Stakeholder (SH)	CISE support team
Adaptors/Simulators	• Develop the Information Sharing Plan • Implement the Adaptor • Deploy the adaptor	• Support to connection/configuration/development of existing or new adaptors/simulators

Evolutive Maintenance

Being the adaptor an essential component within the CISE infrastructure, for which continuous enhancements are foreseen to be developed during time, the Stakeholders are strongly suggested to put in place contracts for evolutive maintenance and request their contractors for a 24/7 or 8/5 support (depending on the operational needs)

Thank you!

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