

# 4.2 – Plug-in

The gateway is a multi-thread application, so make sure your plug-in is:

- Thread safe.
- Spawn a thread if the operation takes more than 5 seconds, otherwise, it could cause a network timeout exception and block the gateway.
- Use `Collections.synchronizedList()`, `Collections.synchronizedMap`, `ConcurrentHashMap` etc.
- Avoid anonymous class which could cause memory leak.
- Make your plug-in stateless if possible.
- Logging could be a bottle neck sometimes.

Please refer to the related links:

- [4.2.1 – Start gateway and the plug-in example project in Eclipse](#)
- [4.2.2 – Handshake plug-in](#)
- [4.2.3 – Deploy your plug-in](#)

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