

# CE Factory

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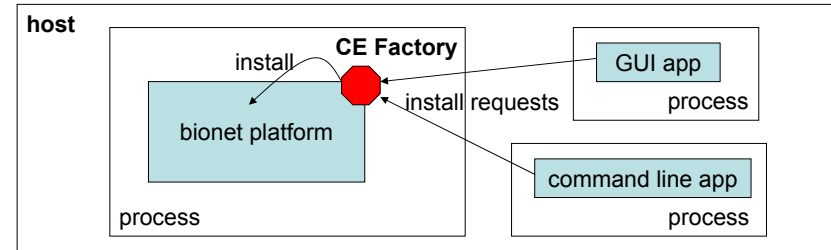
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# CE Factory

- Factory object for CEs
  - used to dynamically load (install) CEs into a bionet platform.
    - follows the factory design pattern.
  - designed as a CORBA object so that it can accept inter-process communication for install requests.



# IDL Interface Definition

## IDL definition

```
-interface CEFactory
{
    void createCE(in string classname);
}
// exception definition to be added
```

- Action sequence of `createCE()`
  - accepts a fully qualified class name (package names + class name) specified as a parameter (in string).
    - e.g. `edu.uci.ics.bionet.test.ce.MyCE`
  - accesses the Java system class loader to load the specified CE's class definition
    - c.f. documentation on the Bionet Class Loader
  - obtains a reference to the local platform representative
  - uses a local platform representative to obtain a reference to the bionet lifecycle service.