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| **Headline** | Cluster Side Error Handling Configuration for Multi-SSM Application |
| Company | SocGen |
| Ranking of Priority | High - Lack of RFE functionality is a major road block to deployment/adoption |
| Brand | Servers and Systems Software |
| Product Family | Spectrum Computing |
| Product | Spectrum Symphony |
| **Component** | Version 7.1.1 |
| **Operating System** | Multiple |
| **PMR ID** | 65552,660,706 |
| **Problem Description** | SocGen is actively testing multi-SSM feature for one important front-office trader application PricingService. They found when one or more physical applications are disabled or unregistered the client workload submission fails. IBM provides a solution to set the environment variable  FAIL\_CONN\_IF\_ANY\_SSM\_UNAVAILABLE=N  at client machine so the logical session can still be created with at least one running physical SSM. The document has below explanation  Syntax: FAIL\_CONN\_IF\_ANY\_SSM\_UNAVAILABLE=Y | N  Description: Specifies whether a logical session is created for unrecoverable sessions even when all session managers are not available. When FAIL\_CONN\_IF\_ANY\_SSM\_UNAVAILABLE is set to N, a logical session is created when at least one session manager is available. When not even one session manager is available, an exception is thrown.  SocGen does not like the per client solution because of two reasons: 1) there are too many client machines and the non-IT user can easily miss the environment variable. It is not a good way to enforce a grid policy. 2) How Symphony manages logical & physical apps should be transparent to user clients. The client should NOT care about the availability of any physical SSM and the configuration. The client should only see one logical application. |
| **Use Case** | SocGen client machines are on Windows and management hosts will be running on Linux x86\_64 after migration.  They need an SD.xml parameter, for example  FAIL\_CONN\_IF\_ANY\_SSM\_UNAVAILABLE\_ENFORCE=N  to allow them to enforce the setting at a central place  Preferably this should be the default setting for the whole cluster.  If any application user wants to override the default setting, the user should be able to set an environment variable at client machine or an application profile parameter. |
| **Business Justification** | SocGen is actively testing multi-SSM feature performance. Usability issue may impact the adoption. |