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| 错误码规范 V1-v1.4 |
| OPV-VDI |
| 孙玉涛 （sunyutao@opzoon.com） |

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* **错误码结构**

错误码由4部分共32位表示。0~11位表示具体的错误信息，12~19位表示错误被抛出的模块，20~27位表示错误生成的模块，28~31位表示错误的严重性。

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| 错误级别 | | | | 错误生成模块 | | | | | | | | 错误抛出模块 | | | | | | | | 错误信息 | | | | | | | | | | | |
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

* **错误码定义**

**注意：为了开发及维护的方便，错误信息“成功”对应的错误码定为0，而不需要携带模块号信息。**

* **错误级别**

31和30位用于表示错误的级别：Success-00, Informational-01, Warning-10, Error-11。

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| **31位** | **30位** | **错误级别** |
| 0 | 0 | Success |
| 0 | 1 | Information |
| 1 | 0 | Warning |
| 1 | 1 | Error |

29位必须为1，表示此错误码为自定义错误码。

28位必须为0，保留位。

* **错误（生成/抛出）模块号**

错误模块由高4位的主模块号和低4位的次模块号共8位组成。其中主模块号区分具体的模块，次模块号表示模块的详细信息。

* **主模块号**

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| **主模块号** | **模块名** |
| 0x0 | 未定义 |
| 0x1 | Agent |
| 0x2 | VDI |
| 0x3 | Client Backend |
| 0x4 | Client Frontend |
| 0x5 | LLS |

* **次模块号**
* **Agent**

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| **次模块号** | **含义** |
| 0 | Windows平台 |
| 1 | Linux平台 |

* **VDI**

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| **次模块号** | **含义** |
| 0 | vdi-management |
| 1 | vdi-api-server |
| 2 | vdi-driver |
| 3 | vdi-driver-opv |
| 4 | vdi-driver-cloudstack |
| 5 | vdi-agent-client |
| 6 | vdi-low-level-support |
| 7 | vdi-appstatus |

* **Client Backend**

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| **次模块号** | **含义** |
| 0 | Session Manager |
| 1 | VDIClientService |

* **Client Frontend**

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| **次模块号** | **含义** |
| 0 | ActiveX |
| 1 | B/S |
| 2 | C/S |

* **LLS**

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| --- | --- |
| **次模块号** | **含义** |
| 0 | kvmServer |
| 1 | netbridgeServer |
| 2 | agent |
| 3 | clusterSupport |
| 4 | executor |
| 5 | hostServer |
| 6 | dhcpServer |
| 7 | storageServer |
| 8 | interface |

* **错误信息**

错误信息由0~11位表示，其中0~255为公共错误，其余为模块专属错误。

* **公共错误**

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| **错误号** | **宏** | **含义** |
| 0x000 | SUCCESS | 成功 |
| 0x001 | UNKNOWN | 未知错误 |
| 0x002 | BAD\_REQUEST | 请求格式或内容错误 |
| 0x003 | INVALID\_PARAM | 参数错误 |
| 0x004 | INVALID\_USERNAME | 无效的用户名 |
| 0x005 | INVALID\_PASSWORD | 无效的密码 |
| 0x006 | NOT\_FOUND | 找不到指定资源 |
| 0x007 | PENDING | 请求正在执行 |
| 0x008 | NULL\_RESPONSE | 请求没有返回任何数据 |
| 0x009 | ACCESS\_DENIED | 拒绝访问 |

* **Agent**
* **Windows平台**

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| **错误号** | **宏** | **含义** |
| 0x101 | AGENT\_INVALID\_HOSTNAME | invalid hostname |
| 0x102 | AGENT\_INVALID\_DOMAINNAME | invalid domainname |
| 0x103 | AGENT\_INVALID\_WORKGROUPNAME | invalid workgroupnname |
| 0x104 | AGENT\_HOST\_IN\_DOMAIN | host is in domain |
| 0x105 | AGENT\_HOST\_IN\_WORKGROUP | host is in workgroup |
| 0x106 | AGENT\_NO\_SUCH\_DOMAIN | The specified domain did not exist |
| 0x107 | AGENT\_SETUP\_ALREADY\_JOINED | The computer is already joined to a domain |
| 0x201 | AGENT\_NOT\_INSTALL\_RDSH\_ROLE | "Remote-Desktop-Services" Role is not installed |
| 0x202 | AGENT\_NOT\_FOUND\_APP | can't find the application |
| 0x301 | AGENT\_NOT\_FOUND\_USER | can't find the user |
| 0x302 | AGENT\_USER\_EXISTS | The user account already exists |
| 0x303 | AGENT\_PASSWORD\_TOO\_SHORT | The password does not meet the password policy requirements |
| 0x304 | AGENT\_GROUP\_NOT\_FOUND | The local group specified by the groupname parameter does not exist |
| 0x305 | AGENT\_NO\_SUCH\_MEMBER | One or more of the members specified do not exist. Therefore, no new members were added |
| 0x306 | AGENT\_MEMBER\_IN\_ALIAS | One or more of the members specified were already members of the local group. No new members were added |
| 0x307 | AGENT\_INVALID\_MEMBER | One or more of the members cannot be added because their account type is invalid. No new members were added |
| 0x308 | AGENT\_MEMBER\_NOT\_IN\_ALIAS | One or more of the specified members do not exist. No members were deleted. |
| 0x401 | AGENT\_NOT\_FOUND\_JOB | can't find the async job in joblist |

* **Linux平台**

N/A

* **VDI**
* **vdi-management**

N/A

* **vdi-api-server**

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| **错误号** | **宏** | **含义** |
| 0x101 | MULTI\_STATUS | 部分操作出现错误 |
| 0x102 | UNAUTHORIZED | 认证失败 |
| 0x103 | FORBIDDEN | 权限不足 |
| 0x104 | CONFLICT | 冲突 |
| 0x105 | DRIVER\_PASS | 底层平台密码错误 |
| 0x106 | DRIVER\_UNTOUCHABLE | 底层平台不可用 |
| 0x107 | HYPERVISOR\_ABNORMAL | 底层平台异常 |
| 0x108 | HYPERVISOR\_NO\_ENOUGH\_RESOURCES | 底层平台资源不足 |
| 0x109 | ORIGINAL\_PASSWORD\_INVALID | 原密码错误 |
| 0x10A | LDAP\_UNAUTHORIZED | LDAP认证失败 |
| 0x10B | LDAP\_ABNORMAL | LDAP异常 |
| 0x10C | LDAP\_OU\_NOT\_FOUND | LDAP组织单元不存在 |
| 0x10D | CONNECTION\_FULL | 并发的连接已达到或超过license的限制 |
| 0x10E | LICENSE\_DECRYPT\_ERROR | license加解密错误，版本或者key有问题 |
| 0x10F | LICENSE\_DUPLICATE | license重复 |
| 0x110 | MAX\_GROUP | 超出最大组数量 |
| 0x111 | PROVISIONING | 桌面池正在部署中 |
| 0x113 | DUPE\_IP | 手动添加桌面时的IP重复 |
| 0x114 | RSA\_REQ | 登录参数缺少动态码 |
| 0x121 | NOT\_IN\_CLUSTER | 当前登录的节点未加入集群 |
| 0x150 | INVALIDATING\_REASON\_CODE\_DEFAULT | 用户未登录 |
| 0x151 | INVALIDATING\_REASON\_CODE\_LOGGED\_OUT | 用户已登出系统 |
| 0x152 | INVALIDATING\_REASON\_CODE\_TIMED\_OUT | 用户会话已超时失效 |
| 0x153 | INVALIDATING\_REASON\_CODE\_KILLED | 用户会话已被管理员删除 |
| 0x154 | INVALIDATING\_REASON\_CODE\_KICKED | 当前会话已被同一用户的新会话取代 |
| 0x155 | INVALIDATING\_REASON\_CODE\_USER\_DELETED | 用户已被删除 |
| 0x303 | INVALID\_PASSWORD\_POLICY | 无效的密码策略 |

* **vdi-driver**

N/A

* **vdi-driver-opv**

N/A

* **vdi-agent-client**

N/A

* **vdi-low-level-support**

N/A

* **vdi-appstatus**

N/A

* **Client Backend**
* **Session Manager**

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| **错误号** | **宏** | **含义** |
| 0x101 | ERR\_CONNECT\_FAIL | 服务器连接失败 |
| 0x102 | ERR\_SESSION\_INVALID | 当前会话无效 |

* **VDI Client Service**

N/A

* **Client Frontend**
* **ActiveX**

N/A

* **B/S**

N/A

* **C/S**

N/A

* **LLS**
* **lls-agent**

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| **错误号** | **宏** | **含义** |
| 0x103 | EVENT\_IS\_UNROLLBACK | 事件不能回滚 |
| 0x104 | HAS\_OPEN\_DEBUG | Debug模式已经打开 |
| 0x105 | HAS\_CLOSE\_DEBUG | Debug模式已经关闭 |
| 0x106 | ADDR\_CANNOT\_CONNECT | 网络地址无法连接 |
| 0x111 | HOST\_HASNOT\_ADDR | 主机没有配置网络地址 |
| 0x201 | COMPUTEPOOL\_NOT\_EMPTY | 计算池下还有主机 |
| 0x202 | HOST\_HASIN\_DATCENTER | 主机已加入数据中心 |
| 0x203 | HOST\_NOTIN\_DATACENTER | 主机未加入数据中心 |
| 0x204 | COMPUTEPOOL\_EXIST | 计算池已存在 |
| 0x205 | COMPUTEPOOL\_NOT\_EXIST | 计算池不存在 |
| 0x206 | COMPUTEPOOL\_STATUS\_NOT\_MACH | 计算池状态不匹配 |
| 0x207 | YOUARENOT\_MYCENTER | 请求方不是worker的Center |
| 0x302 | DHCPSEVER\_IS\_DOWN | Dhcp服务未开启 |
| 0x303 | HOST\_EXIST | 主机已存在 |
| 0x304 | HOST\_NOT\_EXIST | 主机不存在 |
| 0x305 | HOST\_STATUS\_NOT\_MACH | 主机状态不匹配 |
| 0x30B | NO\_ARRROPRITE\_HOST | 没有合适执行任务的主机 |
| 0x401 | STORAGE\_NOT\_EXIST | 存储不存在 |
| 0x402 | STORAGE\_EXIST | 存储已存在 |
| 0x403 | STORAGE\_STATUS\_NOT\_MACH | 存储状态不匹配 |
| 0x40C | DEVICECDROM\_CANNOT\_DELETE | 设备类的cdrom不能被删除 |
| 0x501 | VM\_ISNOT\_RUNNING | 虚拟机没有运行 |
| 0x502 | VM\_ISRUNNING | 虚拟机正在运行 |
| 0x503 | STARTVM\_FAILED | 启动虚拟机失败 |
| 0x504 | VM\_EXIST | 虚拟机已存在 |
| 0x505 | VM\_NOT\_EXIST | 虚拟机不存在 |
| 0x506 | VM\_STATUS\_NOT\_MACH | 虚拟机状态不匹配 |
| 0x511 | TEMPLATE\_NOT\_EXIST | 模板不存在 |
| 0x512 | TEMPLATE\_EXIST | 模板已存在 |
| 0x513 | LINKVM\_CANNOT\_CONVERT\_TO\_TEMPLATE | Link克隆出来的虚拟机不能装换为模板 |
| 0x531 | VMDEVICE\_NOT\_EXIST | 虚拟机不存在此设备 |
| 0x532 | VDISK\_EXIST | 虚拟硬盘已存在 |
| 0x533 | VDISK\_NOT\_EXIST | 虚拟硬盘不存在 |
| 0x534 | VMDEVICE\_HAS\_ADDED | 虚拟机已插入该设备 |
| 0x601 | MAC\_HAVEBEEN\_ASSIGNED | Mac已被分配完了 |
| 0x602 | ADDR\_HAVEBEEN\_ASSIGNED | 地址已被分配完了 |
| 0xF01 | COMPONENT\_STATUS\_NOT\_MACH | 组件状态不匹配 |
| 0xF02 | COMPONENT\_EXIST | 组件已存在 |
| 0xF03 | COMPONENT\_NOT\_EXIST | 组件不存在 |