

```
/**
```

```
  USAGE:
```

```
  DependencyErrors(components, license, permissions)
```

```
  PARAMETERS:
```

```
  components : list of maps, [{}, {}, {}, ...]
```

```
    Components to test. Each component defines
```

```
      name => component name or capability to test for
```

```
      sid => Service ID (sid) to check for in license. If present, does a service check.
```

```
      requires => Capability to check in the license. If present, does a capability check.
```

```
      (optional) title => User-friendly component name
```

```
      (optional) link => Link for more information in case of error
```

```
  (optional) license : str (default: nil)
```

```
    Site license type to check for; one of 'commercial' or nil
```

```
  (optional) permission : str (default: nil)
```

```
    Permissions required for current user; one of 'admin' or nil
```

```
  VERSIONS:
```

```
  1.0  15-Jun-10  kalida  initial version
```

```
  1.1  15-Jul-10  kalida  added capability checks
```

```
  1.2  03-Mar-11  kalida  updated regex for bug MT-9851
```

```
  ***/
```

```
var components = $0 ?? $components ?? [];
```

```
var license = $1 ?? $license ?? nil;
```

```
var permission = $2 ?? $permission ?? nil;
```

```
var licenseError = nil;
```

```
var permissionError = nil;
```

```
var componentErrors = nil;
```

```
// general data lookups
```

```
var licenseXML = wiki.api(site.api & 'license');
```

```
// if no explicit expiration, use a far-future date
```

```
var licenseExpires = xml.date(licenseXML, 'date.expiration') ?? date.addyears(date.now, 100);
```

```
var prefix = 'mindtouch.templates.dependencyerrors.';
```

```
var sidList = [];
```

```
// gather existing licensed services
```

```
foreach (var serviceLicense in licenseXML['grants/service-license']) {
```

```
  var sid = string.Match(xml.text(serviceLicense), '(?<=sid=")(.*?)(?=")');
```

```

// if valid sid, add with expiration date
if (#sid > 0) {
    var sidExpires = licenseExpires;

    // attempt to find expiration date in text or as attribute
    var expires = string.Match(xml.text(serviceLicense), '(?<=expire=")(.*?)(?=")');

    if (#expires > 0) {
        let sidExpires = date.parse(expires);
    } else if (#xml.text(serviceLicense, '@date.expire') > 0) {
        let sidExpires = xml.date(serviceLicense, '@date.expire');
    }

    let sidList = sidList .. [{sid: sid, expires: sidExpires}];
}

// gather licensed capabilities
var capabilityGrants = {};
foreach (var grant in licenseXML['grants/*[not(name)="service-license"]']) {
    var grantName = xml.name(grant);
    var grantValue = xml.text(grant);
    let capabilityGrants = capabilityGrants .. { (grantName): grantValue};
}

// check license
if (license == 'commercial') {
    var currentLicense = xml.text(licenseXML, '@type');

    if (license != currentLicense && currentLicense != 'trial') {
        let licenseError = wiki.localize(prefix .. 'error.license');
    }
    else if (date.Compare(date.now, licenseExpires) > 0) {
        let licenseError = wiki.localize(prefix .. 'error.license.expired');
    }
}

// check user permissions
if (permission == 'admin') {
    if (!user.admin) {
        let permissionError = wiki.localize(prefix .. 'error.permission');
    }
}

// check components
foreach (var component in components) {
    var errorMessage = nil;
    var title = component.title ?? component.name;
    var link = component.link ?? 'http://www.mindtouch.com/redirect/dependency/';
}

```

```

// if component.requires available is a capability check
var serviceCheck = component.requires is nil;

// admins are able to check if service licensed
if (user.admin && component.sid && serviceCheck) {

    // component is valid if any licensed sid is a prefix match
    var foundLicense = false;
    var expiredLicense = false;
    foreach (var sidItem in sidList) {
        if (string.StartsWith(component.sid, sidItem.sid)) {
            let foundLicense = true;

            if (date.Compare(date.now, sidItem.expires) > 0 ) {
                let expiredLicense = true;
            }

            // found component, avoid searching others
            break;
        }
    }

    if (!foundLicense) {
        let errorMessage = <a href=(link) rel="component-unlicensed">wiki.localize(prefix ..
'error.component.unlicensed', [title])</a>
    } else if (expiredLicense) {
        let errorMessage = <a href=(link) rel="component-expired">wiki.localize(prefix ..
'error.component.expired', [title])</a>
    }
}

// name is required
if (!component.name) {
    let errorMessage = wiki.localize(prefix .. 'error.component.unnamed');
}
else if (!errorMessage && !__env[component.name] && serviceCheck) {

    // @TODO kalida: in future, have separate checks for not installed vs. not running
    let errorMessage = <a href=(link) rel="component-missing">wiki.localize(prefix ..
'error.component.missing', [title])</a>
}

// if capability check, ensure it is granted
if (!serviceCheck && capabilityGrants[component.name] != component.requires) {
    var currentValue = capabilityGrants[component.name] ?? wiki.localize(prefix ..
'error.capability.missing.default');
    let errorMessage = <a href=(link) rel="capability-missing">
        wiki.localize(prefix .. 'error.capability.missing', [title, component.requires, currentValue])
    </a>;
}

```

```
// add this error to the list
if (errorMessage) {
  let componentErrors = componentErrors .. [{component: component, message: errorMessage}];
}

// list missing dependencies
if (licenseError) {
  <div class="error-dependency error-license">
    licenseError;
  </div>
} else if (permissionError) {
  <div class="error-dependency error-permission">
    permissionError;
  </div>
} else if (componentErrors) {
  <div class="error-dependency error-component">
    wiki.localize(prefix .. 'label.components.error');
    <ul>
      foreach (var error in componentErrors) {
        <li class=(error.component.name)>
          error.message;
        </li>
      }
    </ul>
  </div>
}
```