TPF Users Group October 2005

TPF Toolkit for WebSphere Studio V3 Deploying and Maintaining

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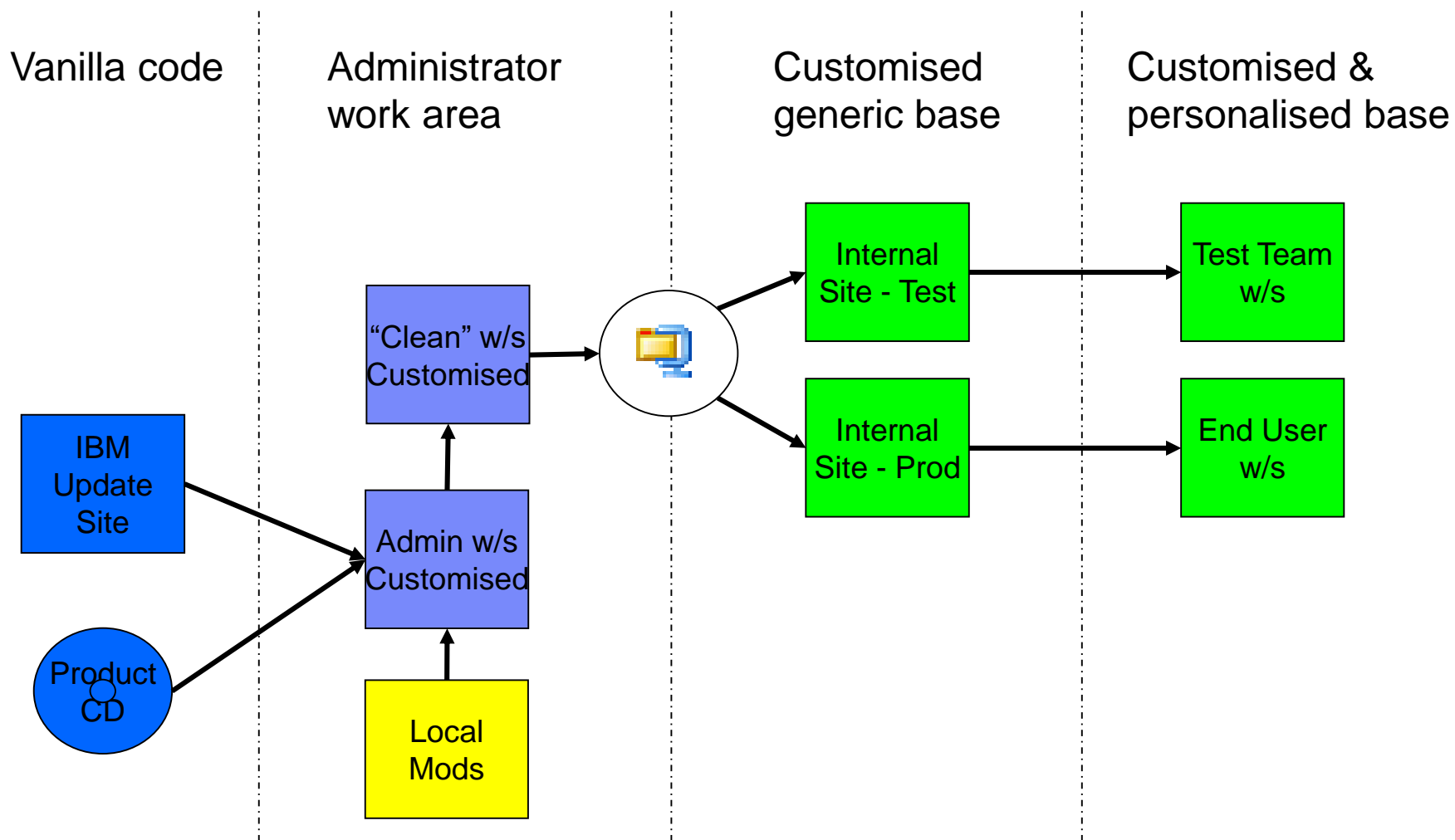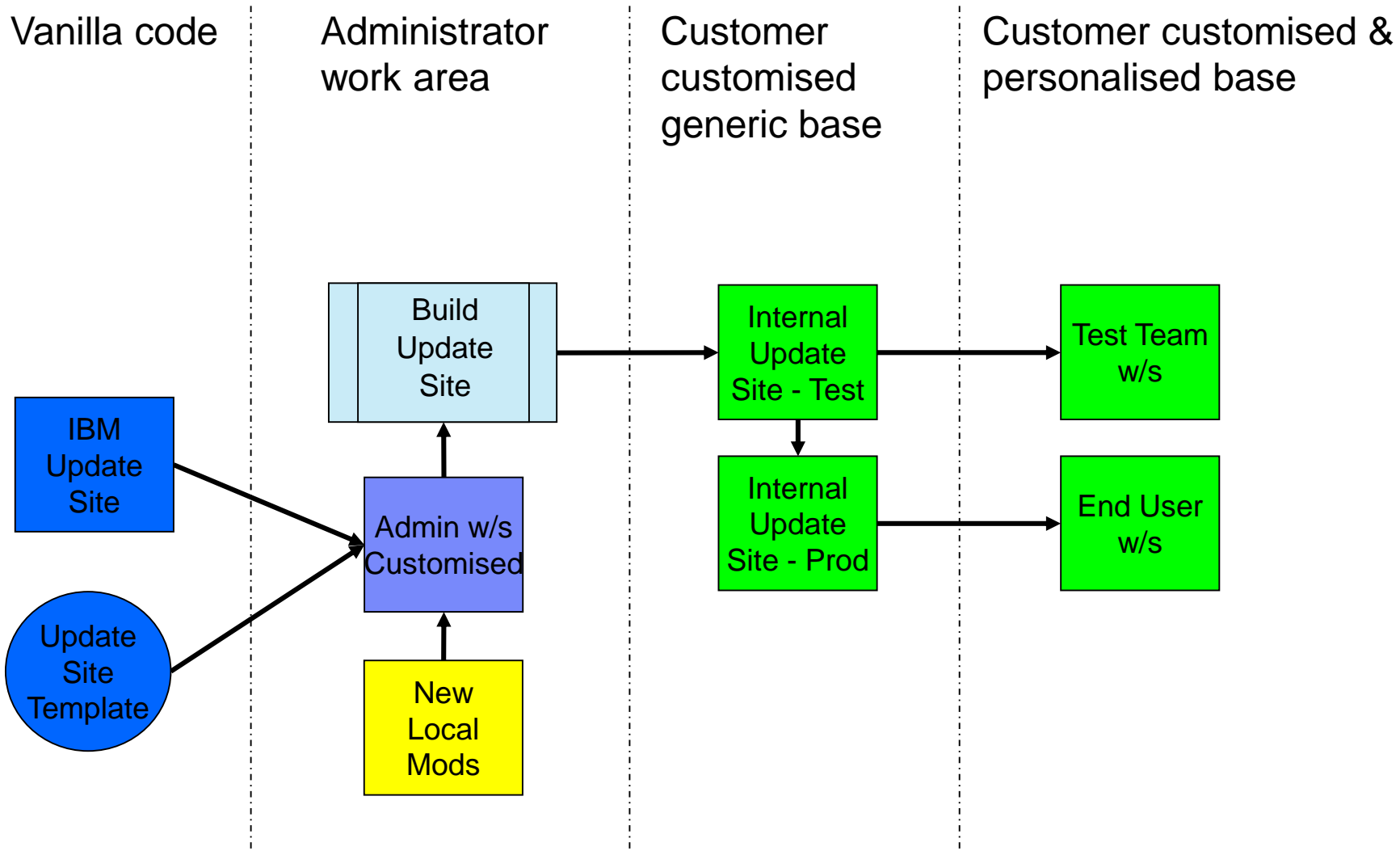# The problem

❑ **Users workstations get "out of synch" with Host programs**

　○ Application of maintenance

❑ **How to roll out new facilities/functions**

　○ Both IBM supplied and "home grown"

IBM

Rollout Architecture - Initial

| Vanilla code | Administrator work area | Customised generic base | Customised & personalised base |

Internal Site - Test

Test Team w/s

"Clean" w/s Customised

Internal Site - Prod

End User w/s

IBM Update Site

Admin w/s Customised

Product CD

Local Mods

IBM

Rollout Architecture - updates

| Vanilla code | Administrator work area | Customer customised generic base | Customer customised & personalised base |

Default IBM Update Site

❑ **Updates available from IBM website:**

○ ftp://www3.software.ibm.com/ibmdl/pub/ps/products/tpftoolkit/updates/3.0_updates/

❑ **Create your own Update site by:**

○ Install IBM Updates on the Administrator's workstation

○ Use the Plug-in Development perspective to create your own

A few basics – Update site contents

❑ **Update sites have 3 components:**

- ○ site.xml file
  - ▪ This file lists the updates that are available on the update site
- ○ plugins folder
  - ▪ The code that provides the functionality
- ○ features folder
  - ▪ Used to group plugins or other features

A few basics - Version Numbers

❑ **All plugins and features have version numbers**

○ Format of the version number is   V.R.M
where:

V	=	version
R	=	release
M	=	modification

  ▪ E.g. com.ibm.tpf.toolkit_3.0.0

○ A fourth level can be added, we have reserved for customer use, to make it
V.R.M.C
where:

C	=	customer modification

  ▪ E.g. com.ibm.tpf.toolkit_3.0.0.1

A few basics – Updates and Install Handlers

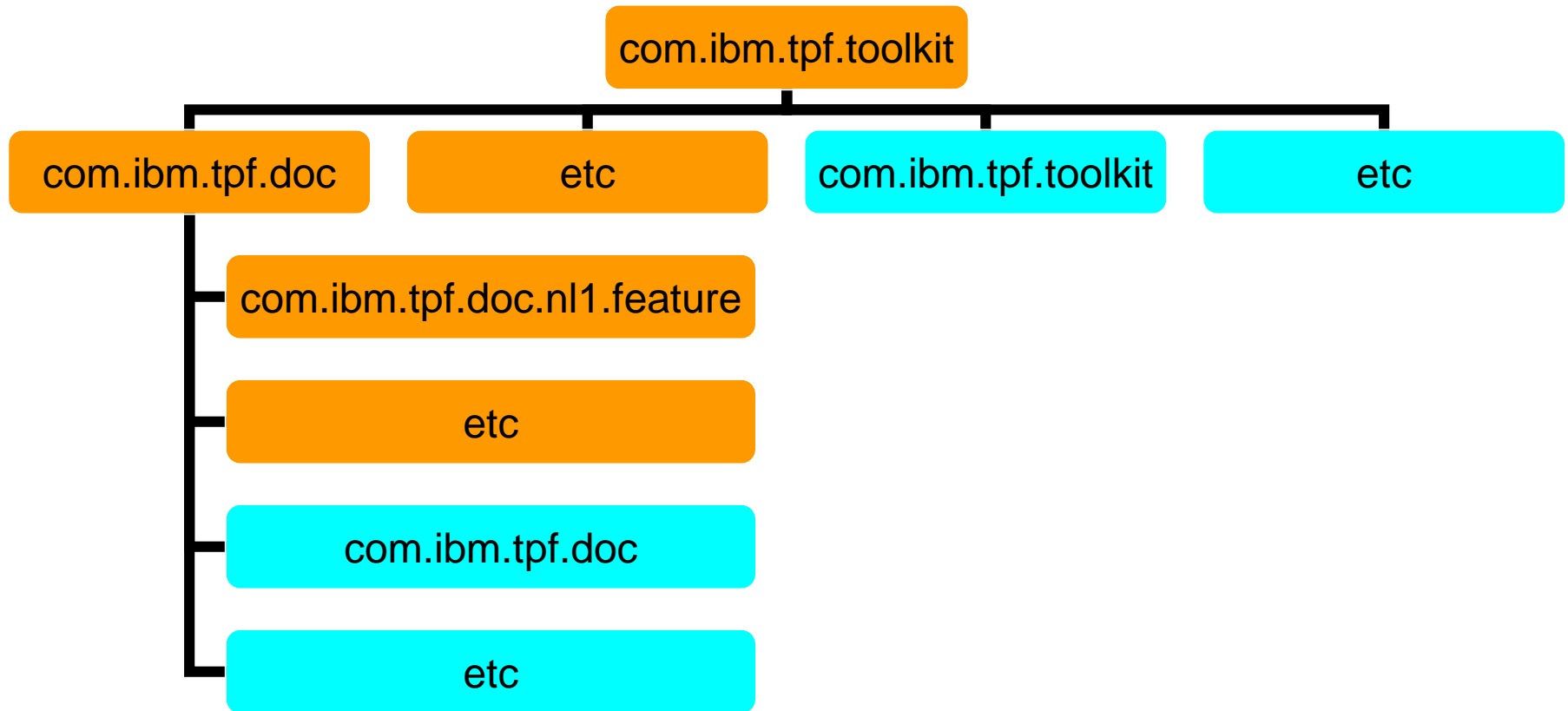❑ **Updates are cumulative**
  - ○ Installing update 3.0.5 will install all previous code changes included in updates 3.0.1 through 3.0.4 (If they existed!)

❑ **When "fallback" not required, old versions can be deleted**

❑ **Each feature may have an install handler that runs when the feature is installed**
  - ○ The TPF Toolkit install handler will:
    - ▪ Copy certain changed files to the refresh directory
    - ▪ Migrate various preference files
  - ○ Install handlers can also be used to:
    - ▪ Copy any workstation file
    - ▪ Copy any "host" file to the users workstation.
      - ♦ A separate routine is required to move the file to the host.
    - ▪ Delete any workstation file
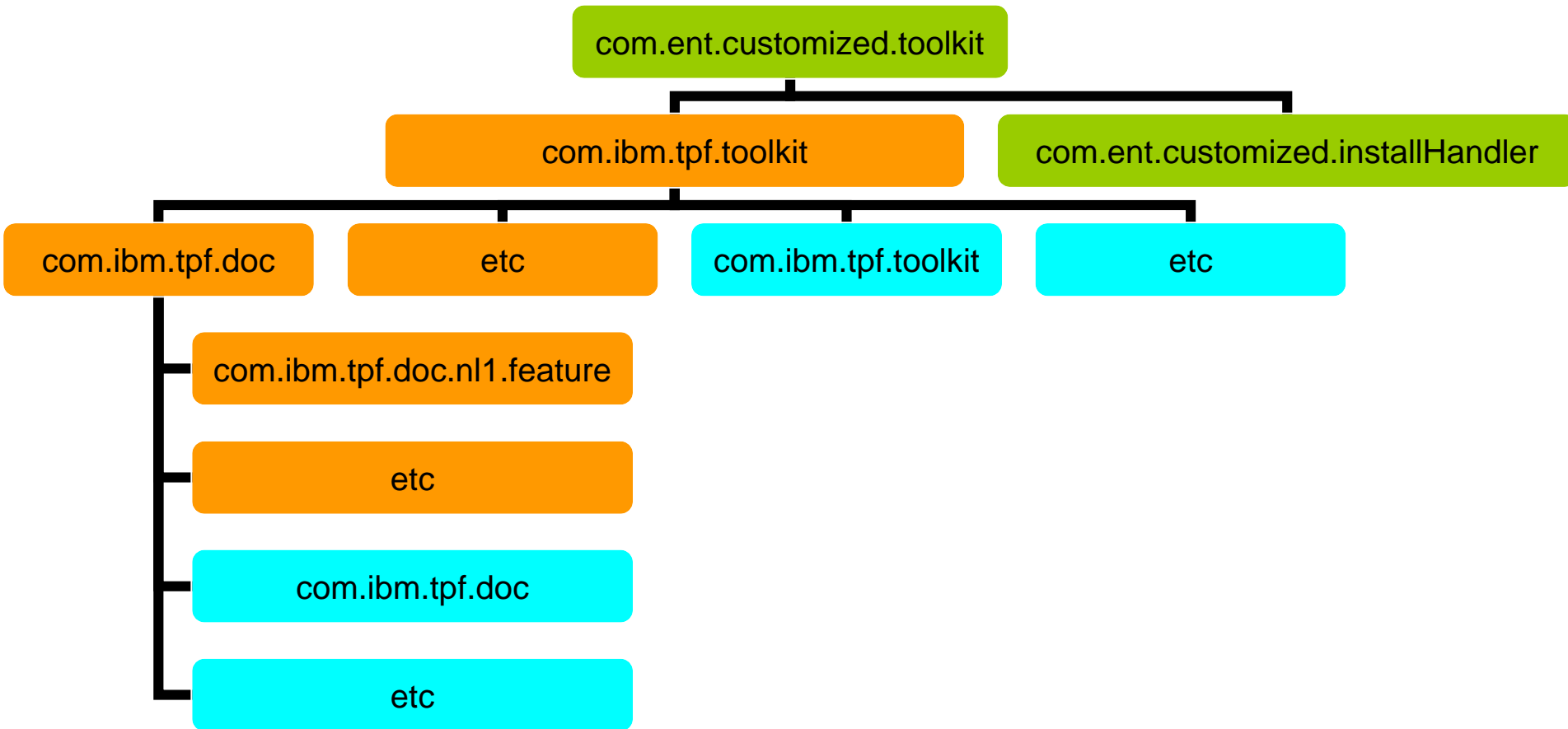
IBM provided TPF Toolkit feature

```
                    com.ibm.tpf.toolkit
   ┌──────────────────┬──────────────────┬──────────────────┐
com.ibm.tpf.doc      etc       com.ibm.tpf.toolkit      etc

   ├── com.ibm.tpf.doc.nl1.feature

   ├── etc

   ├── com.ibm.tpf.doc

   └── etc
```

- There are many more features and plugins in the real update site, this picture is only to provide an example of how the update site is made up.
- There may also be more than the three levels of inclusion shown here.

Customer update site

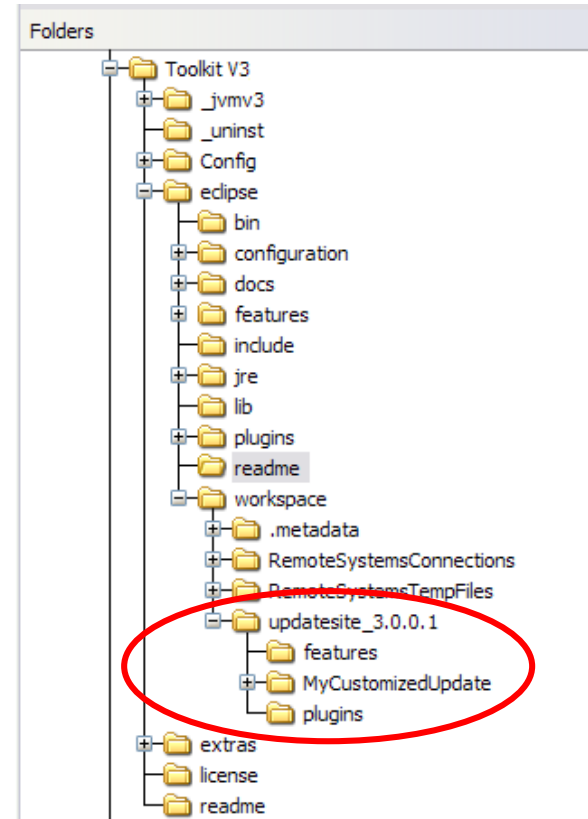❑ **A new top layer is added to the previous slide's picture**

❑ **2 new features**

    ○ com.ent.customized.toolkit

        ▪ includes the IBM supplied com.ibm.tpf.toolkit feature

    ○ com.ent.customized.installHandler

        ▪ included by com.ent.customized.toolkit

        ▪ Used to copy or delete files and/or features on the users workstation

Customer update site …

```
                    com.ent.customized.toolkit
                    |
        +-----------+------------------------+
        |                                    |
  com.ibm.tpf.toolkit          com.ent.customized.installHandler
        |
  +-----------+-----------+-----------+
  |           |           |           |
com.ibm.tpf.doc   etc   com.ibm.tpf.toolkit   etc
  |
  +--- com.ibm.tpf.doc.nl1.feature
  |
  +--- etc
  |
  +--- com.ibm.tpf.doc
  |
  +--- etc
```
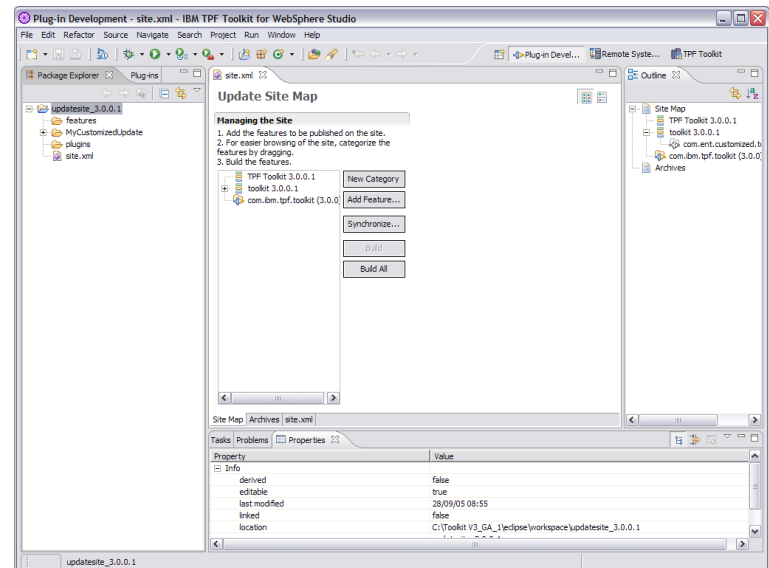
Creating an update site

- ❑ **Create a folder under the Toolkit workspace**
  - ○ updatesite_3.0.0.1 in my example
  - ○ Not necessary to place it under the workspace
- ❑ **Unzip the IBM supplied template into the folder**
  - ○ Once you have an internal site, may be easier to update your version than use the IBM template each time

Folders

- Toolkit V3
  - _jvmv3
  - _uninst
  - Config
  - eclipse
    - bin
    - configuration
    - docs
    - features
    - include
    - jre
    - lib
    - plugins
    - readme
  - workspace
    - .metadata
    - RemoteSystemsConnections
    - RemoteSystemsTempFiles
    - updatesite_3.0.0.1
      - features
      - MyCustomizedUpdate
      - plugins
  - extras
  - license
  - readme

Creating an update site …

❑ **Open the Plug-in Development Perspective**

❑ **Create a new update site project in the Package Explorer**

❑ **Add the latest version of the IBM TPF Toolkit feature**

⭘ In this case 3.0.0

❑ **Save the site.xml and then Build All**

⭘ This will package the base components needed for the update site

Adding your changes to the Update Site

❑ **Set the location of future updates**

❑ **Add all the customised files and any folders to the MyCustomizedUpdate folders**

❑ **Add any features and/or plugins to the main feature.xml file**

❑ **Delete any unwanted files or features**

⭘ Host files not needed on users workstations

⭘ Old TPF Help features

❑ **Build the customized Toolkit feature and plug-in**

Set the update site address for future updates

❑ **In the primary product feature and optional features:**

❑ **Edit the feature.xml files to indicate the location of the Update site**

or

❑ **Edit the file plugin_customization.ini files and set the default value of the 'updatePolicyFile' property**

Include customised files and additions

- ❑ **Copy every file that you have changed and folder(s) that you have added to the Customised installHandler feature folder**

- ❑ **Edit the ENT_workstation_copy_list.txt file and add a line for each file and/or folder than must be copied to the user workstation**

Include any additional features

❑ **Features to include are:**

  ○ PUT specific documentation for TPF

  ○ Any features you may have developed

❑ **Update the feature.xml file for the TPF Toolkit feature that is under the Customised Install Handler folder to include the additional features**

Include additional features …

❑ **Copy the relevant .jar files to the feature and/or plugin folder**

❑ **For the help features these are the feature and plugin .jar files**

○ Plugin

▪ com.ibm.tpf.doc.put*xx*_3.0.0.jar
where *xx* is the PUT number, currently 13-19.

○ Feature

▪ com.ibm.tpftoolkit.doc.put*xx*_3.0.0.jar
where *xx* is the PUT number, currently 13-19.

Including your own plugin

❑ **Set the version number in your plugin.xml file**

❑ **Package your plugin for the update site**

  ○ Use the Plug-in development perspective to do this

❑ **Update the feature.xml file for the TPF Toolkit feature that is under the Customised Install Handler folder to include the additional features**

Deleting unwanted features and files

❑ **In the com.ent.customized.installHandler feature, add entries to:**

  ○ ENT_delete_list.txt for files that are not features

  ○ ENT_feature_delete_list.txt for features

❑ **Suggested file deletions**

  ○ Host files and folder

  ○ Refresh files and folders

❑ **Suggested feature deletions**

  ○ Administrator

  ○ Unwanted PUT tape documentation

Create update site

- ❑ **In a DOS command prompt, cd to the update site directory**

- ❑ **Create the update site by running the supplied prepareupdate command**

- ❑ **Test it**

- ❑ **Make it available to users**

The End

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