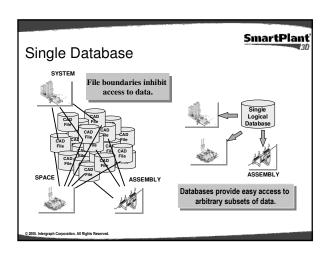
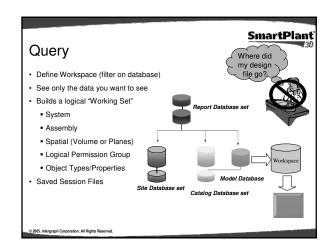
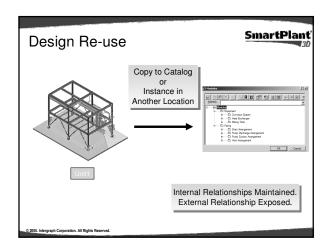
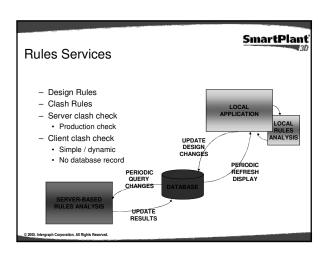
Process, Power and Marine Division SmartPlant 3D Common Task Kari Dickerson kari.dickerson@intergraph.com The process of the

Agenda • SmartPlant Overview • User Interface • Workspace • Filters • Common Task • Control Point / Notes • Work Breakdown Structure (WBS) • Interference Detection (IFC) • To Do List

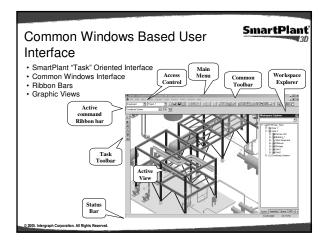


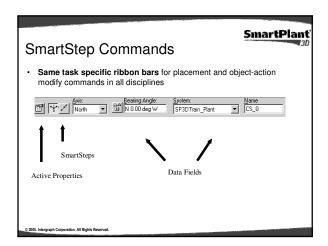


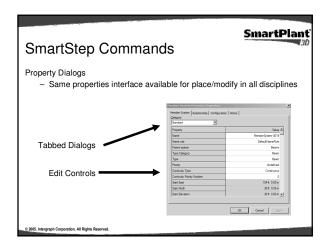




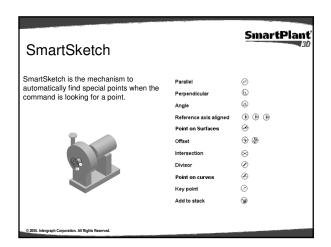
Agenda SmartPlant Overview User Interface Workspace Filters Common Task Control Point / Notes Work Breakdown Structure (WBS) Interference Detection (IFC) To Do List







Access Control SmartPla	# 3 0
Allows user access to assigned discipline(s)Many users/one model	
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SmartPlant SmartSketch The system finds Key point and Point on Geometry whenever you move the cursor over those points System uses only those points (stored in the stack) and check for linear relationship points against every object in the workspace

SmartPlant

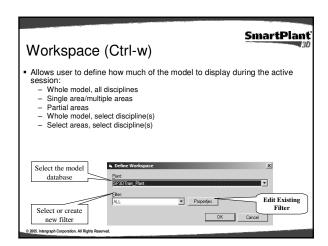
Select Objects

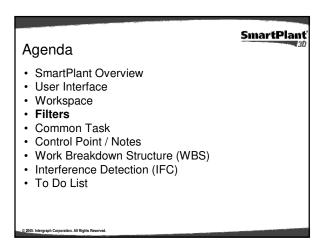
- · Select Command
- By Fence (inside or overlap control)
- Use shift or ctl key to add or remove objects from the select set.
- Tools -> Select by Filter
 Use Workspace Navigator
 Quick pick tool

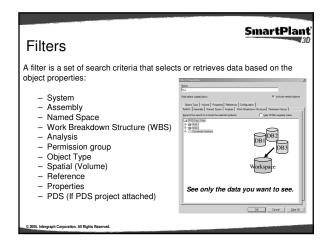
SmartPlant

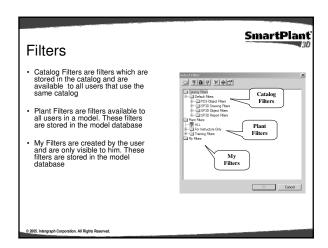
Agenda

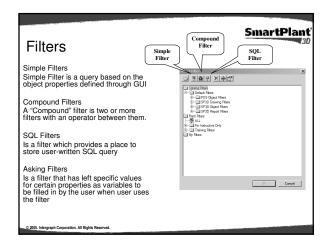
- SmartPlant Overview
- User Interface
- Workspace
- Filters
- Common Task
- · Control Point / Notes
- Work Breakdown Structure (WBS)
- Interference Detection (IFC)
- · To Do List

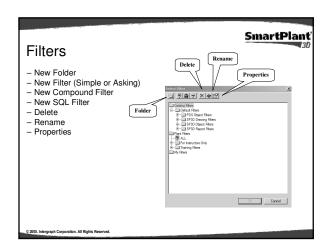


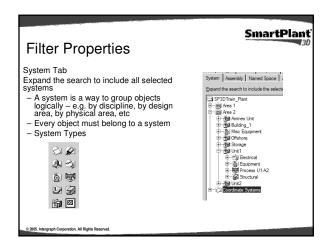


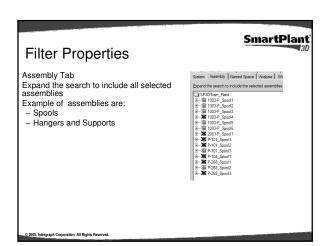


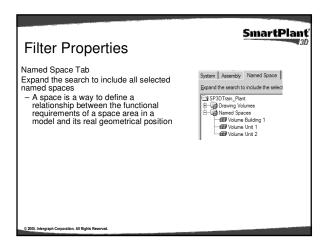


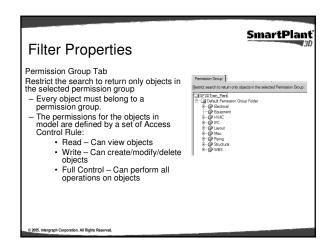


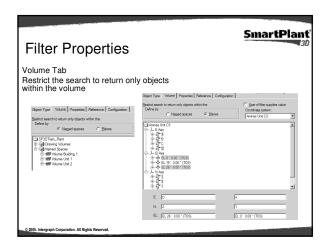


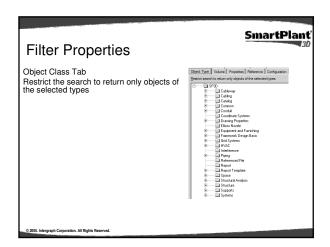


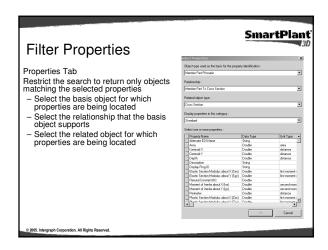


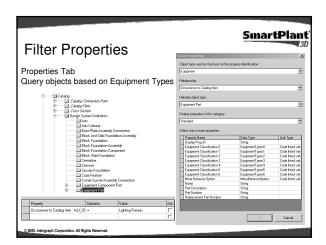


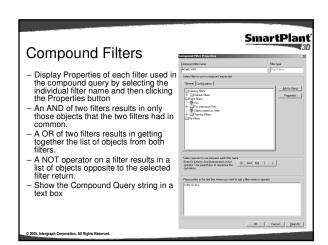


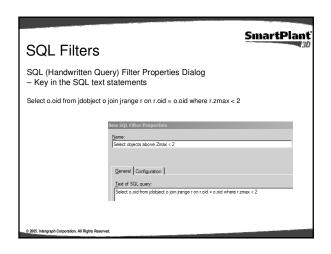




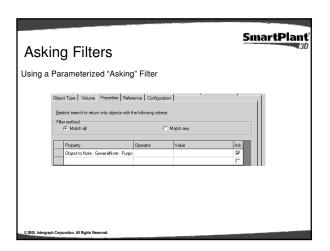




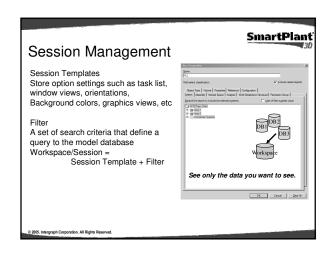


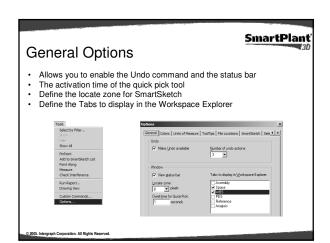


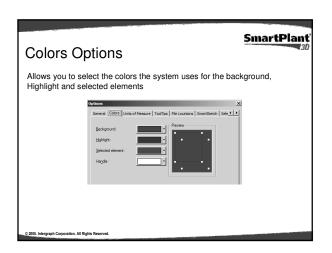
Asking Filters Using a Parameterized "Asking" Filter When the creator of a filter checked any "User of filter supplies value" checkboxes, then that filter is an "Asking" or "Parameterized" Filter. When someone uses that filter, automatically the properties page for that filter is displayed with the "User of filter supplies value" checkboxes as read-only, but the gadgets to set the values (associated with the checked "User of filter supplies value" checkboxes) are displayed so that the user can edit only the values of the checked items. If a compound filter uses multiple Parameterized Filters, the Properties dialogs appear sequentially, automatically, in the same order that the parameterized filters appear in the compound query string. System Assembly Named Space Analysis Work Breakdown Structure Permission Group Expand the search to include the selected systems:

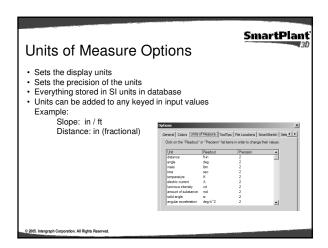


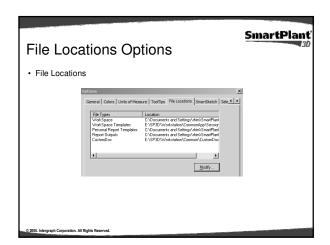
SmartPlant Filters Managing Filter Names when Copy Filters Users can copy and paste or move filters via drag and drop to a different category directory in the Select Filter dialog's tree view Filters in My Filters folder can have the same name as Filters in someone else's My Filters Folder. If the filter is moved up to a Plant Filter or Catalog Filter folder, then the software must check whether there is already a filter by the same name and change the name of the cloned filter to "-filter name> n" where n is some number so that the name of the filter is unique Compound Filters are made up of AND, OR and Not operators between existing filters. A Compound Filter that will be stored in the Catalog must be made from other filters that are already existing in the Catalog 05. Intergraph Corporation. All Rights Reserved. **SmartPlant** Agenda · SmartPlant Overview User Interface Workspace Filters Common Task · Control Point / Notes • Work Breakdown Structure (WBS) • Interference Detection (IFC) To Do List **SmartPlant** Common Task Provide common functionality for all SP3D User Environment: Session Management General Options/SmartSketch 3D · Viewing Commands Aspects/Surface Styles/Rules • Show/Hide Measure

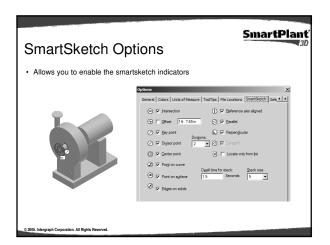




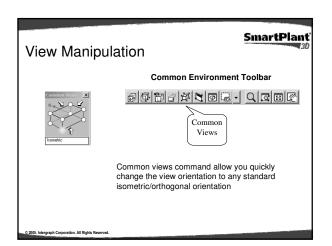


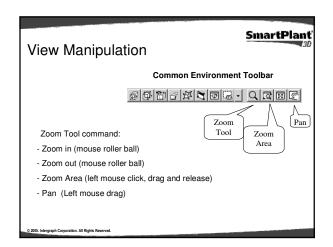


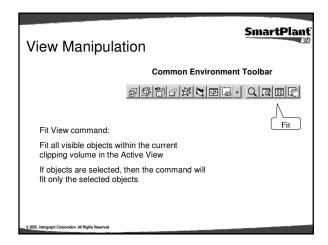




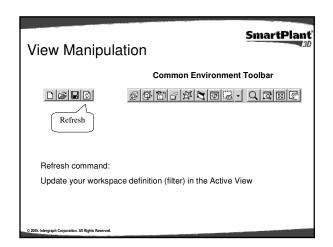
View Manipulation Common Views Zoom Tool Window Area Refresh View Active View Control Rotate View Looking at Surface View by 3 points View along line Clipping

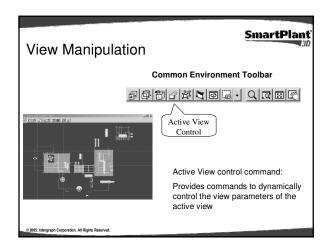


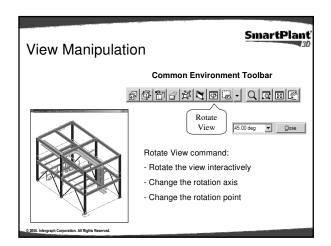


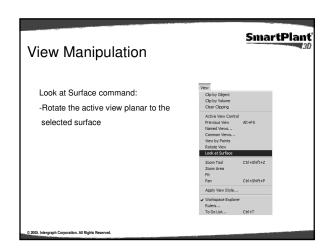


• LAB-1 • LAB-2A • LAB-2B • LAB-2C



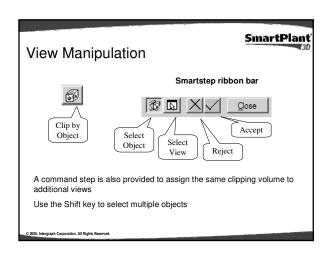


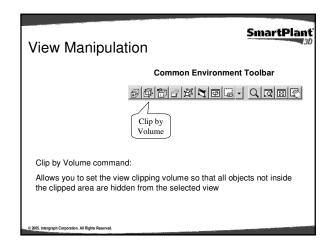


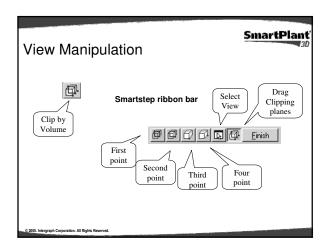


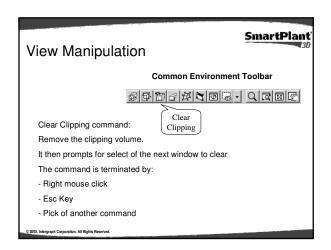
View Manipulation Establishing Clipping Volume - Clipping by Object - Clipping by Volume - Clear Clipping

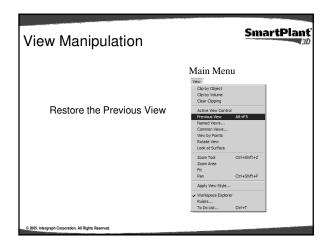
View Manipulation Common Environment Toolbar Clip by Object Clip by Object command: Allows you to define the view clipping volume (rectangular parallopiped) to be the same as the object's range box in your active view

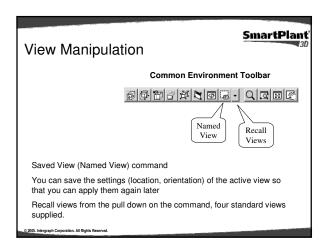


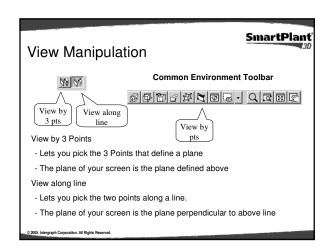


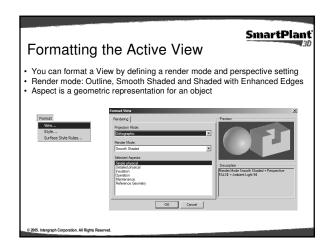


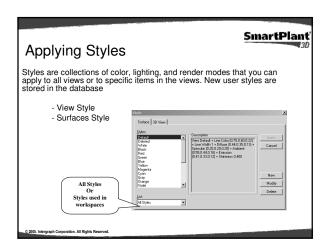


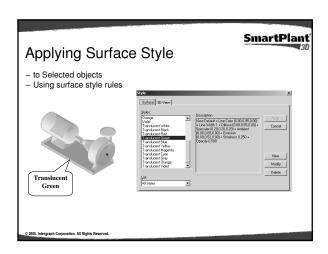


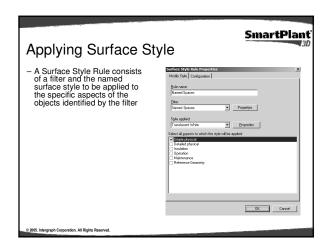


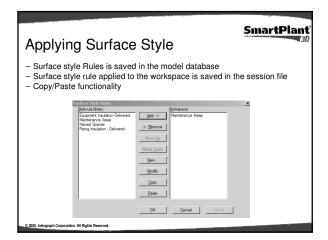


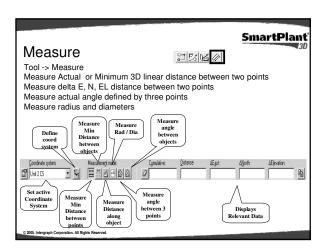


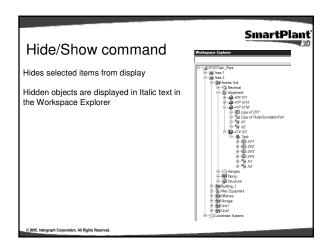


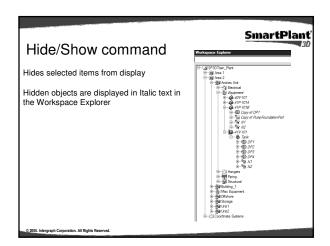




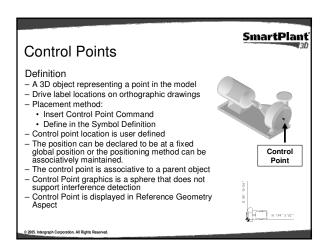


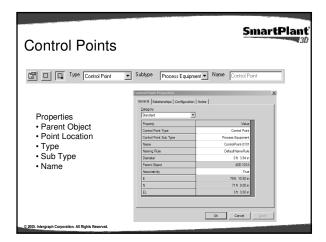


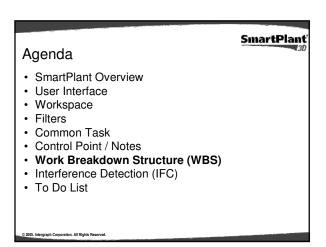


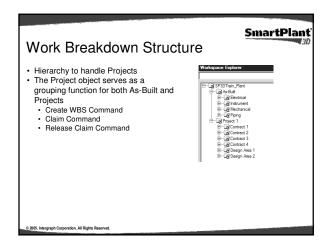


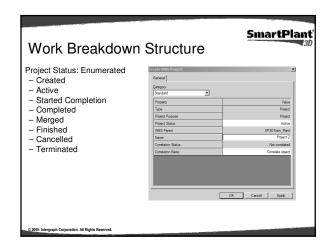
Agenda • SmartPlant Overview • User Interface • Workspace • Filters • Common Task • Control Point / Notes • Work Breakdown Structure (WBS) • Interference Detection (IFC) • To Do List

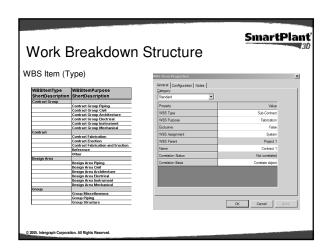


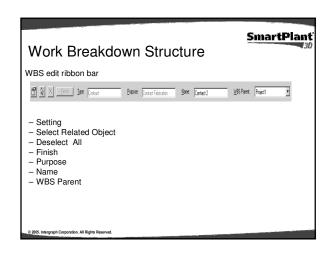


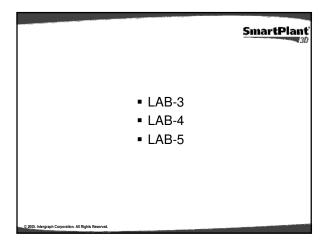






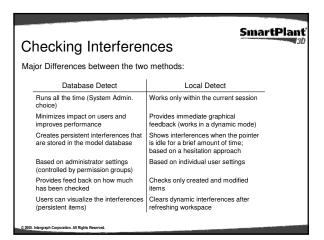


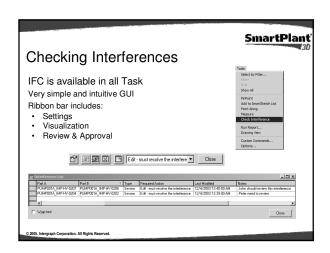




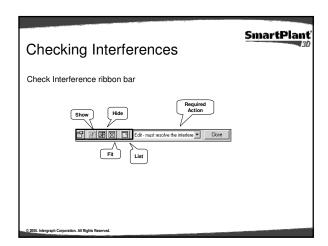
Agenda • SmartPlant Overview • User Interface • Workspace • Filters • Common Task • Control Point / Notes • Work Breakdown Structure (WBS) • Interference Detection (IFC) • To Do List

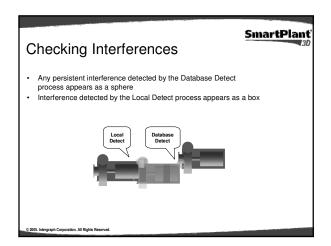
Checking Interferences SP3D provides two mode of operations: Server-based Interference checking (Database Detect). Run on a separate IFC server Look for all interferences for the full model Interactive interference checking (Local Detect). Help the designer in real time Local to a session (what you see in your workspace)

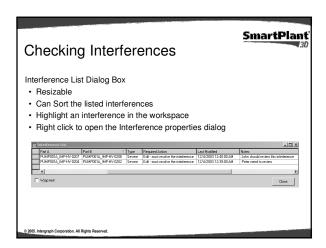




Checking Interferences Three type of checking (based on the object aspects): Required Optional Not Checked Can process: Required – Required Required – Optional Optional – Optional Coptional – Optional Coptional – Optional







Agenda SmartPlant Overview User Interface Workspace Filters Common Task Control Point / Notes Work Breakdown Structure (WBS) Interference Detection (IFC) To Do List

