

IBM Planning Analytics:
Dimension Maintenance Tools and Utilities, V2.0

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By:
Andreas Kugelmeier
Executive Consultant, FOPM,
Planning Analytics Architect
IBM Data and AI Expert Labs
Mobile Phone: +1-215-384-7302
Email: kugelmeier@us.ibm.com

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Document Version History

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12/4/2018	V2.1	Andreas Kugelmeier	Fix TOC numbering
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1. About this Document

This document describes misc. IBM Cognos TM1 Turbo-Integrator (TI) process tools & utilities related to Dimension (Hierarchy) Maintenance. By employing a module-based approach to TI-process architecture & design typically provides the following advantages:

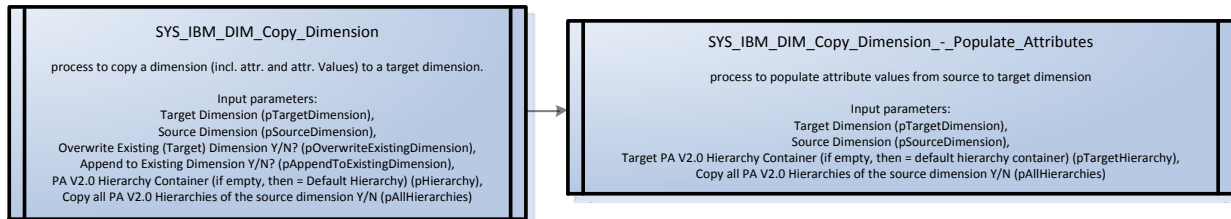
- a) Reduced development time
- b) Improved maintainability
- c) Improved ability to upgrade a model environment with new TM1 feature functionalities
- d) higher (code) transparency
- e) Higher stability/reliability (less code => fewer opportunities to make mistakes)

2. TI-Process Utilities for General Dimension Management and Maintenance

2.1 SYS_IBM_Copy_Dimension.pro

Purpose: create a copy of a dimension, incl. attributes and attribute values

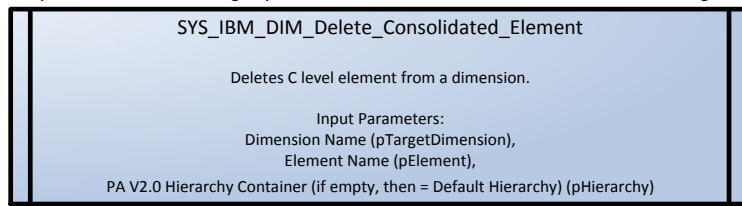
Sample Use Cases: create a dimension backup, create a dimension copy to evaluate/test a dimension maintenance operation on the copy before applying it to the 'real' dimension



2.2 SYS_IBM_DIM_Delete_consolidated_Element.pro

Purpose: create a consolidated element (C-level)

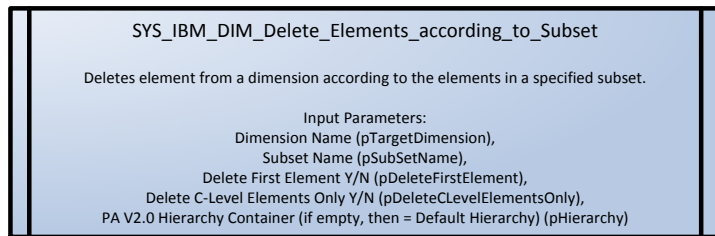
Sample Use Cases: allowing super users to create a consolidation node and - using other processes - to assign leafs to the consolidation



2.3 SYS_IBM_DIM_Delete_Elements_according_to_Subset.pro

Purpose: delete elements as per an dimension element subset

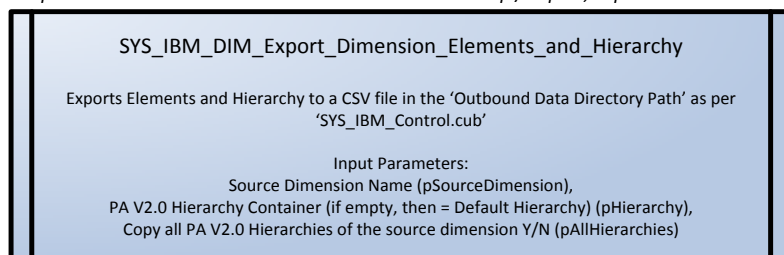
Sample Use Cases: a list/array of elements stored in a subset to perform a reliable element delete operation 'in bulk'



2.4 SYS_IBM_DIM_Export_Dimension_Elements_and_Hierarchy.pro

Purpose: Master- & Metadata export

Sample Use Cases: Dimension Master- & Metadata backup / export, export can also be used to (re)import



2.5 SYS_IBM_DIM_Consolidate_Element.pro

Purpose: consolidate/increment data stored against one element to data stored in another element

Sample Use Cases: if in a new planning cycle, data from multiple elements is to be combined into one (let's say a product line was merged with another product line), the process can be used to combine the data; also often used in cases where data was accidentally entered against an incorrect element and where the process is used to move this data to the 'right' element.

SYS_IBM_DIM_Consolidate_Element

For a particular Version/Scenario (optional) & Dimension and for up to 5 cubes, process will consolidate values from two elements into one element (and zero-out the other element for the specified version).

Input parameters:

Version Dimension (pVersionDimension),
Version (pVersion),
Target Dimension (pTargetDimension),
Old Element Name (pElementNameOld),
Element to consolidate into (pElementToConsolidateInto),
Dimension of Element for which to consolidate (parameter allows specifying another dimension outside of the version dimension to restrict the consolidation operation – corresponding element specified below) (pDimension),
Dimension Element for Which to Consolidate
(in conjunction with pDimension (above) specify an element to restrict the consolidation operation to only data against this element*),
(pDimensionElementForWhichToConsolidate),
Cube 1 (pCube1),..., Cube 5 (pCube5)

*Example: If one wants to consolidate Trade Sales and Interco Sales
(pTargetDimension = Account Dimension) for FCST (pVersion) but for only one customer (pDimension = Customer Dim,
pDimensionElementForWhichToConsolidate = Customers for which to consolidate)

SYS_IBM_DIM_Consolidate_Element_Copy_Data

For a particular view & Dimension, process will process values from one elements into another element (incrementing the value of the element for Numeric values & replacing if for String Values)

Input parameters:

Cube (pCube), View (pViewName),
Old Element Name (pElementNameOld),
Element to consolidate into (pElementToConsolidateInto),
Target Dimension (pTargetDimension)

2.6 SYS_IBM_DIM_Attribute_Add_Or_Delete.pro

Purpose: create or delete one or more attributes

Sample Use Cases: allows creating and deleting attributes rapidly

SYS_IBM_DIM_Attribute_Add_Or_Delete

Creates or Deletes up to 16 attributes

Input parameters:

Dimension name (pDimensionName),
Attribute Type (pType),
Attribute 1 (pAttribute), Attribute 2 (pAttribute2), ..., Attribute 16
(pAttribute16),
Add or Delete (pAddOrDelete)

2.7 SYS_IBM_Attribute_Update_ID_and_Description.pro

Purpose: create an 'ID and Description' Alias Attribute

Sample Use Cases: create/update the 'ID and Description' Alias

SYS_IBM_DIM_Attribute_Update_ID_and_Description

Populates the ID and Description Alias Attribute
(concatenation of element name & Description as in
<ElementName> - <Description>

Input parameters:

Dimension name (pTargetDimension)

3. Hierarchy-specific TI-Process Utilities

3.1 SYS_IBM_DIM_Hierarchy_Create.pro

Purpose: create a new (and empty) PA V2.0 Hierarchy Container

<p style="text-align: center;">SYS_IBM_DIM_Hierarchy_Create</p> <p style="text-align: center;">process to create a P! V2.0 Hierarchy Container</p> <p style="text-align: center;">Input parameters: Dimension (pDimension), PA V2.0 Hierarchy Container (pHierarchy)</p>

3.2 SYS_IBM_DIM_Hierarchy_Destroy.pro

Purpose: Destroy a PA V2.0 Hierarchy Container (and implicitly delete its applicable elements)

<p style="text-align: center;">SYS_IBM_DIM_Hierarchy_Destroy</p> <p style="text-align: center;">process to destroy a P! V2.0 Hierarchy Container</p> <p style="text-align: center;">Input parameters: Dimension (pDimension), PA V2.0 Hierarchy Container (pHierarchy)</p>

3.3 SYS_IBM_DIM_Hierarchy_Archive.pro

Purpose: Archive a PA V2.0 Hierarchy Container

Sample Use Cases: with changing organization or account or product hierarchies and the likes, at the beginning of each month, archive 'off' the old hierarchy structures to an 'archive' container, hence allowing future data to be viewed against the old hierarchical structures by using the corresponding hierarchy containers for analysis. Current rollups: all in default containers. Old rollups: in archive containers.

<p style="text-align: center;">SYS_IBM_DIM_Hierarchy_Archive</p> <p style="text-align: center;">process to copy (or archive) a PA V2.0 hierarchy to a different hierarchy</p> <p style="text-align: center;">Input parameters: Target Dimension (pTargetDimension), Source Hierarchy Container (pSourceHierarchy), Target Hierarchy Container (pTargetHierarchy)</p>

3.4 SYS_IBM_DIM_HIERARCHY_CLONE.pro

Purpose: Clone a hierarchy between dimensions or hierarchy containers

<p style="text-align: center;">SYS_IBM_DIM_Hierarchy_Clone</p> <p style="text-align: center;">process to clone/copy a hierarchy between two dimensions.</p> <p style="text-align: center;">Input parameters: Source Dimension (pSourceDimension), Target Dimension (pTargetDimension), PA V2.0 Hierarchy Container to use as source and target (if empty, the default hierarchy container is used) (pHierarchy)</p>
--

3.5 SYS_IBM_DIM_Hierarchy_Create_Suffixed_Hierarchy.pro

Purpose: create a suffixed hierarchy (for example with a time-suffix)

Sample Use Cases: in environments without PA V2.0 hierarchy containers, this is the common practice to 'archive' historical rollups

SYS_IBM_DIM_Hierarchy_Create_Suffixed_Hierarchy

process to create a copy/backup of an entire hierarchy branch (starting with the branch root) by sufficing the hierarchy parent nodes with a given suffix. The Parent Nodes in the suffixed hierarchy will have a name like <ParentNode>_Suffix

Input parameters:
 Target Dimension (pTargetDimension),
 Branch Root (pRoot),
 Suffix (pSuffix),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)

3.6 SYS_IBM_DIM_Hierarchy_Destroy_Suffixed_Hierarchy.pro

Purpose: destroy a suffixed hierarchy (for example with a time-suffix)

Sample Use Cases: in environments without PA V2.0 hierarchy containers, 'suffixed' hierarchies were the common practice to 'archive' historical rollups.

SYS_IBM_DIM_Hierarchy_Destroy_Suffixed_Hierarchy

process to destroy a copy/backup of a hierarchy branch (starting with the branch root) based on the suffix

Input parameters:
 Target Dimension (pTargetDimension),
 Suffix (pSuffix),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)

3.7 SYS_IBM_DIM_Create_Hierarchy_Based_On_Attributes.pro

Purpose: create an attribute-based hierarchy for analyzing data by element attribute based rollups

Sample Use Cases: analyze data by product/customer/region... properties/attributes

SYS_IBM_DIM_Create_Hierarchy_Based_On_Attributes.pro

process create an 'attribute' hierarchy/rollup

Input parameters:
 Target Dimension (pTargetDim),
 Hierarchy Root Node (pHierarchyRootNode),
 Attribute Level 1-5 = Attribute to use for hierarchy levels 1-5 (with level 0 = dimension leaf elements) (pAttributeLevel1-5),
 Unwind Existing Hierarchy Y/N (will run 'SYS_IBM_Unwind_Hierarchies if = Y) (pUnwindExistingHierarchy),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy, if <> empty, the above parameters will all be applied to the hierarchy container specified here) (pHierarchy)

3.8 SYS_IBM_DIM_Create_Hierarchy_Based_On_Group_Security_Access.pro

Purpose: create a hierarchy / total node based on all elements that a user group has access to

Sample Use Cases: in environments where some users have access to only few elements and where there may be no 'total' element available that would aggregate the data for those elements, this process can be used to create security access & group-based rollups

SYS_IBM_DIM_Create_Hierarchy_Based_On_GroupSecurityAccess.pro

process create a hierarchy/rollup as per access rights for particular security groups in a particular security cube

Input parameters: Target Dimension (pTargetDimension),
 Cube to use for retrieving READ access rights / to filter by (pFilterBySecurityCube),
 Groups Subset = Subset with Groups to create rollups for (pGroupsSubset),
 Hierarchy Root Prefix: Prefix for Security Group Branches/Nodes as in <PreFix> & <GroupName> & <Postfix> (pHierarchyRootPrefix),
 Hierarchy Root Postfix: Postfix for Security Group Branches as in <PreFix> & <GroupName> & <Postfix> (pHierarchyRootSuffix),
 Logging Y/N (pLogging),
 Name of Security Based <TargetDimension> Hierarchy Tree APEX Node (=the top node containing all the 'security group' rollups (pGroupHierarchyRootElement),
 Apex node of the standard hierarchy to evaluate/use to build the alternate hierarchy as per security access rights (pStdHierRoot),
 New APEX node to be created for pStdHierRoot (pAPEXOfStdHier),
 Target PA V2.0 Hierarchy Container (if empty, then = default hierarchy container) (pTargetHierarchy),
 Source PA V2.0 Hierarchy Container (if empty, then = default hierarchy container) (pSourceHierarchy)

3.9 SYS_IBM_DIM_Unwind_Hierarchies.pro

Purpose: 'unwind' a hierarchy by 'flattening' it, removing all hierarchical relationships

Sample Use Cases: prior to a hierarchy update, the unwind process may be run to 'unwind'/reset' the hierarchy prior to re-build.

SYS_IBM_DIM_Unwind_Hierarchies

process to unwind hierarchies in a dimension (unwind hierarchical structures by detaching elements from their ancestors)

Input parameters:
 Target Dimension (pDimension),
 Logging (pLogging),
 Unwind Hierarchy 1-4 (not PA V2.0 hierarchies, but hierarchical rollups within the same hierarchy container, identified by their top node) (pUnwindHier1-4),
 Exclude Hierarchy 1-4 from unwind operation (not PA V2.0 hierarchies, but hierarchical rollups within the same hierarchy container, identified by their top node) (pExcludeHier1-4),
 Reference Dimension = Dimension to use for establishing that the UnwindHier1-4 top nodes are ancestors of a leaf element (the reference dimension may be = target dimension or can be a different dimension) (pReferenceDimension),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy, if <> empty, the above parameters will all be applied to the hierarchy container specified here) (pHierarchy)

3.10 SYS_IBM_DIM_Hierarchy_Assign_Top_Node.pro

Purpose: assign an APEX node to a hierarchy

Sample Use Cases: create groupings by assigning multiple hierarchies (multiple rollups to an APEX node), like: 'Standard Account Hierarchies', with descendants 'Balance Sheet' (which descendants) & 'Income Statement' (with descendants).

SYS_IBM_DIM_Hierarchy_Assign_Top_Node

process to assign/insert a hierarchy Top (Apex) node to one or more hierarchies.

Input parameters:
 Target Dimension (pTargetDimension),
 Top Node Element Name (pTopNodeElementName), Weight of descendants against the new top node (pWeight),
 Exclude Hierarchy 1-4 from having the top node assigned (only applies if pHierarchy = empty) (pExcludeHier1-4),
 do not include elements that contain string <> ... (only applies if pHierarchy = empty) (pExclElementsContainingString),
 PA V2.0 Hierarchy Container to assign a top node to (if <> empty, the function HierarchyTopElementInsert will be applied to the entire target hierarchy container) (pHierarchy)

3.11 SYS_IBM_DIM_Hierarchy_Check_for_Multiple_Parents.pro

Purpose: analyze a hierarchy for consistency

Sample Use Cases: incorrect hierarchy rollups, where one or more elements may be rolled-up more than once (and hence their data counted more than once) are a typical user error or error due to wrong metadata feeds, resulting in incorrect validation totals / aggregations. Using this process, one can easily find out which elements (if any) are rolled-up more than once and where.

SYS_IBM_DIM_Hierarchy_Check_for_Multiple_Parents

The process analyzes every N level elements in the target dimension and checks for each element if the element has more than one parent in the hierarchy branch. Output is written to the Process Log File Directory as specified in the SYS_IBM_Control cube.

Input Parameters:
 Target Dimension (pTargetDimension),
 Hierarchy Root Element (pHierarchyRootElement),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)

3.12 SYS_IBM_DIM_Hierarchy_Compare_Leaf_Elements_between_two_Hierarchies.pro

Purpose: analyze a hierarchy for completeness vs another hierarchy

Sample Use Cases: an alternate rollup was created that is supposed to include the same # of leaf elements as another rollup. But the totals of the alternate rollup and the 'reference' rollup differ. This process allows to compare leafs of the alternate and the reference rollup to analyze which elements may be missing.

SYS_IBM_DIM_Hierarchy_Compare_Leaf_Elements_between_two_Hierarchies

The process analyzes every N level elements in the target dimension and checks/compares for each element if the element is a descendant of hierarchy 1 and 2. Output is written to the Process Log File Directory as specified in the SYS_IBM_Control cube.

Input Parameters:
 Target Dimension (pTargetDimension), Hierarchy Root Element 1 (pHierarchyRootElement1),
 Hierarchy Root Element 2 (pHierarchyRootElement2),
 PA V2.0 Hierarchy Container for Hierarchy Root Element 1 and Descendants (if empty, then = Default Hierarchy) (pHierarchy1),
 PA V2.0 Hierarchy Container for Hierarchy Root Element 2 and Descendants (if empty, then = Default Hierarchy) (pHierarchy2)

3.13 SYS_IBM_DIM_Hierarchy_Copy_or_Move_Element_to_New_Parent.pro

Purpose: copy or move an element to a new parent.

Sample Use Cases: allowing users to move an element from an old or wrong parent to a new or correct parent.

SYS_IBM_DIM_Hierarchy_Copy_or_Move_Element_to_new_Parent

process to copy or move an element to a new parent

Input parameters:
 Target Dimension (pTargetDimension),
 Element Name (pElementName),
 Current parent (pElementParentCurrent),
 New parent (pElementparentNew),
 Weight (pElementWeight), Move or Copy? (pMoveOrCopy),
 PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)

3.14 SYS_IBM_DIM_Hierarchy_Detach_Element_From_Parent.pro

Purpose: detach (remove) an element from a parent/rollup.

Sample Use Cases: an element was incorrectly attached to a rollup/aggregation. This process can be used to detach it from an aggregation.

<p>SYS_IBM_DIM_Hierarchy_Detach_Element_From_Parent</p> <p>Will detach an element from a specified parent.</p> <p>Input parameters: Target Dimension (pTargetDimension), Element (pElementName), Parent (pParentName), PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)</p>
--

3.15 SYS_IBM_DIM_Hierarchy_Detach_Element_from_Parents_and_Move_to_specified_Parent_Node.pro

Purpose: copy or move an element to a new parent.

Sample Use Cases: allowing users to move an element from an old or wrong parent to a new or correct parent.

<p>SYS_IBM_DIM_Hierarchy_Detach_Element_From_Parents_and_move_to_specified_Parent_Node</p> <p>Will detach an element from all parents and move the element to a different parent</p> <p>Input parameters: Target Dimension (pTargetDimension), Element (pElementName), New Parent (pNewParentNode), Element Weight (pWeight), Exclude parents containing String (pExcludeParentsContainingString), PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)</p>

3.16 SYS_IBM_DIM_Hierarchy_Orphans_Assign_to_Orphans_Node.pro

Purpose: move elements without a parent to a so-called 'orphans' node

Sample Use Cases: dimension hierarchy maintenance often results in elements that are no longer assigned to a hierarchy parent (for example because the element is no longer used or was accidentally omitted during hierarchy maintenance operations / MDM processing. This process allows to easily identify such elements by grouping them under an 'orphans' node.

<p>SYS_IBM_DIM_Hierarchy_Orphans_Assign_to_Orphans_Node</p> <p>Will analyze a hierarchy and move any element that is not part of the hierarchy to a specified 'orphans' node</p> <p>Input parameters: Target Dimension (pTargetDimension), Orphans Node (pOrphansNode), Hierarchy Node/root (pHierarchyNode, pHierarchyNode2-5), Exclude Elements containing string (pExcludeElementsContainingString), PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)</p>
--

3.17 SYS_IBM_DIM_Hierarchy_Orphans_Remove_Non-Orphans_from_Orphans_Node.pro

Purpose: remove elements from the 'orphans' node if they have a parent.

Sample Use Cases: after a hierarchy was re-loaded/processed, including elements that were not included earlier and hence resulting in orphaned elements, this process can be run to check/reprocess the orphans for remaining orphan elements.

<p>SYS_IBM_DIM_Hierarchy_Orphans_Remove_Non-Orphans_from_Orphans_Node</p> <p>Will analyze a the an orphans node against a hierarchy and move any element that is not not an Orphan out of the 'Orphanage'</p> <p>Input parameters: Target Dimension (pTargetDimension), Orphans Node (pOrphansNode), Hierarchy Node/root (pHierarchyNode), PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)</p>

3.18 SYS_IBM_DIM_Hierarchy_Replace_Parent_Node.pro

Purpose: replace a parent node (a c-level element)

Sample Use Cases: a c-level element has a wrong name or the name needs to be changed/corrected.

<p>SYS_IBM_DIM_Hierarchy_Replace_Parent_Node</p> <p>Will replace a hierarchy parent node with a new parent node (↔ renaming of a parent node)</p> <p>Input parameters: Target Dimension (pTargetDimension), Current Parent (pParent), New Parent (pReplacement), Write Log Output (pWriteLogFile), Backup Dimension Y/N (pBackUpDimension), PA V2.0 Hierarchy Container (if empty, then = Default Hierarchy) (pHierarchy)</p>
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4. Objects

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