

**Pipeline Open Data Standard**[www.pods.org](http://www.pods.org)

June 2007

PODS™ is the pipeline industry database standard. The PODS Association Board of Directors is composed of pipeline industry leaders who volunteer their time to direct the activities and priorities of the Association. The PODS data model is developed by the Technical Committee which is also composed of industry leaders who volunteer their time.

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**Welcome New Members**

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**Microline Technology Corporation**

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## PODS User Group Meeting

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The Third Annual PODS User Group Meeting will be held September 27, 2007, immediately following GITA's GIS for Oil & Gas Conference. Please note that GITA has changed the date and location of the event. PODS will also host our second annual PODS Social on Wednesday evening, September 26, 2007.

The PODS User Group Meeting is open to both members and non-members. We welcome your participation in the PODS User Group Meeting.

### **Call for Sponsors:**

Thank you for considering sponsoring our User Group Meeting. The purpose of this meeting is to focus on the business needs of oil and gas pipeline operators relating particularly to the PODS data model and industry standards. Sponsorships are available from \$5,000 to \$500, plus miscellaneous sponsorships. More information about sponsorship can be found on the PODS User Group Meeting [Sponsorship website](#).

### **More Information:**

Please contact [Sheila Wilson](#) by email or phone (918-246-9343) for more information about submitting an abstract and/or sponsorships.

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## PODS 4.0.1 Release – Final

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PODS 4.0.1 final release has been issued. To receive your copy, please contact the [PODS Association](#). The following files are included:

### *Oracle:*

- 10g: "Difference Script PODS 401 Maintenance Release – Oracle 10g.sql"
- 9i: "Difference Script PODS 401 Maintenance Release – Oracle 9i.sql"
- "Difference Script PODS 401 Maintenance Release – Oracle 9i DROP.sql"
- ORACLE.SQL -- complete ddl (PODS 4 plus 401 maintenance release)

### *SQL Server:*

- "Difference Script PODS 401 Maintenance Release – SQL SERVER.sql"
- "Difference Script PODS 401 Maintenance Release – SQL SERVER DROP.sql"

- SQL\_SERVER.SQL – complete ddl (PODS 4 plus 401 maintenance release)

Three columns have been removed in PODS 4.0.1. The “drop” scripts for Oracle 9i and SQL Server drop the three columns that were renamed. Note: 10g does not have a “drop” script because 10g supports a “RENAME COLUMN” option. The constraints for the NPMS tables have also changed. They have been renamed to match the PODS naming convention.

The Technical Committee strongly encourages you to test these scripts in a test database to confirm that they work correctly. The user is responsible for determining the accuracy of the scripts and the data model as a whole.

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## **PODS: Next Release**

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The PODS next release is being evaluated by the Board of Directors and the Technical Committee. Updates will be available as information is provided. The next major release is expected to be in association with the PODS Spatial Committee.

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## **PODS Spatial Committee Update**

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The PODS Spatial Committee is working with the Oracle Spatial Subcommittee and the ESRI-APDM Subcommittee to determine release dates for the spatial implementations. Below are updates on both subcommittees.

### **Oracle Spatial Subcommittee**

The Oracle Spatial Subcommittee has presented a paper to the Technical Committee for review. The Technical Committee is requesting further information and documentation. Once the information needs of both committees have been met, integration and modification of the appropriate tables will begin.

### **ESRI-APDM Subcommittee**

The ESRI-APDM Subcommittee has been meeting in person once per quarter with regular teleconferences at other times. ESRI, APDM, and PODS are working together to develop the PODS ESRI Geodatabase. The three groups have developed a list of six possible options and have determined the most likely choice to be implemented.

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## One Call Working Group Update

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The One Call Working Group held their first meeting on May 17, 2007. They are completing the charter and developing a balance between operators, service providers, and one call organizations.

The objective of the working group is to address and identify the One Call/Damage Prevention data requirements that are relevant to the overall PODS working data model. If you are interested, please contact [Sheila Wilson](#) at PODS.

We have gathered many names and are continuing to build this working group. Thank you to everyone participating.

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## Working Groups

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If you are interested in joining any of the following working groups, please contact [Sheila Wilson](#).

- One Call
- New Construction Data Exchange Standards
- Domain Ranges
- US DOT PHMSA
- Russian Regulatory Requirements

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## PODS in Production

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This section highlights operators who have PODS in production. If you would like to share information, please contact the [PODS Association](#).

The questions are:

- How many miles do your customers have in the PODS data model?
- What was the business driver behind your decision to use the PODS data model?
- What was the business driver behind your customer's decision to use the PODS data model?
- Are you happy with the decision? (Please answer yes.) Why?
- What has been the greatest benefit of the PODS model?

- Why would you recommend other companies use the PODS model?

These answers were provided by Gary Hoover, Enterprise Operating Products, L.P. Gary is the chairman of the Technical Committee. He shares the following:

- *Total miles of pipe in PODS: approximately 47,418 miles.*
- *Business driver: Our pipeline integrity management program provides the key business drivers, though we are able to provide support to a variety of functions within the company.*
- *Are you happy with the decision? Yes, because PODS has proven to provide support and return on investment value for our integrity management program.*
- *The greatest benefit of moving to PODS? The sum total of all of the years of technical expertise embedded in the model, both from a data content and data structure perspective.*
- *Why would you recommend PODS? The industry has suffered for many years in absence of an accepted industry standard model. The cost of internal or custom data model development is much higher than joining PODS and using the PODS standard.*

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### Technical Committee Tip

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*How can I look for orphaned records between the Event\_Range table and the corresponding feature table?*

This SQL code creates SQL code to check only features with data in them. The output is a list of SQL statements that can be run in a SQL command window. The statement was designed to run on a Solaris running Oracle.

```
select
'select event_id from event_range a where a.feature_id= "'
||feature_id||
'" and not exists (select 1 from '
||object_name|| ' b where a.event_id=b.event_id);'
from all_objects e, feature_table c
where e.owner= 'SCHEMA_OWNER'
and e.object_type= 'TABLE'
and e.object_name=c.table_name
and (object_name in (select table_name from feature_table
where feature_id in
(select distinct feature_id from event_range)))
```

The text in **blue** never changes.

The text in **red** are variables that gets updated.

The text in **black** is the SQL code used to limit and select table\_names.

**OUTPUT IS A LIST OF SQL STATEMENTS**

select event\_id from event\_range a where a.feature\_id=BRC and not exists (select 1 from BRANCH\_CONNECT b where a.event\_id=b.event\_id);

select event\_id from event\_range a where a.feature\_id=CAS and not exists (select 1 from CASING b where a.event\_id=b.event\_id);

select event\_id from event\_range a where a.feature\_id=CBND and not exists (select 1 from COUNTY\_BOUNDARY b where a.event\_id=b.event\_id);

select event\_id from event\_range a where a.feature\_id=ANC and not exists (select 1 from CP\_ANC\_TBL b where a.event\_id=b.event\_id);

select event\_id from event\_range a where a.feature\_id=HCAI and not exists (select 1 from CP\_HCA\_INTERSECTION b where a.event\_id=b.event\_id);

select event\_id from event\_range a where a.feature\_id=DICOV and not exists (select 1 from DEPTH\_OF\_COVER b where a.event\_id=b.event\_id);

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## The Funnies

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How often do you interpolate your data? The Random House Collegiate Dictionary defines as follows:

*Interpolate:*

*To alter by the insertion of new matter, esp. deceptively or without authorization.*

To help with the boss, [Dictionary.com](http://Dictionary.com) gives an additional and different definition:

*Mathematics. To insert, estimate, or find an intermediate term in (a sequence).*

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## PODS Association Activity Calendar

7/9/2007	<b>Abstract Acceptance Notification: Call for Papers - PODS User Group Meeting (September 27, 2007)</b>
	Notification will be sent to accepted speakers
7/16/2007	<b>Abstract Declined Notification: Call for Papers - PODS User Group Meeting (September 27, 2007)</b>
	Notification will be sent to declined speakers
8/6/2007	<b>Presentation Slides Due: Call for Papers - PODS User Group Meeting (September 27, 2007)</b>
	Slides are due for all presentations for the 3rd Annual PODS User Group Meeting
9/24/2007	<b>2007 GIS for Oil &amp; Gas Conference</b>
	GITA's annual GIS for Oil & Gas Conference begins today and will continue through September 26. PODS will have a booth at the show with a user group meeting afterwards. <b>Please note the time and date change.</b>
9/26/2007	<b>Second Annual PODS Social</b>
	Please join us for the 2nd Annual PODS Social at 6pm, Wednesday, after the GITA Conference ends.
9/27/2007	<b>Third Annual PODS User Group Meeting</b>
	The 3rd Annual PODS User Group Meeting begins today. You can find details on the PODS website ( <a href="http://www.pods.org">www.pods.org</a> ).

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### Meet a Member of the Board of Directors

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Keith Leewis has been on the PODS Board of Directors since its inception. He was one of the original members from the Gas Research Institute (GRI) that conceived the idea of a pipeline data model standard. In the PODS Association by-laws, his membership was required for five years, after which the intellectual property and the name PODS was formally conveyed to the PODS Association.

He has an extensive and comprehensive pipeline engineering design, operations, and analysis experience recently broadened while managing the US industry's gas and oil \$20 million R&D Program. He was a tenured engineering professor with practical experience in the operations and engineering sectors of the natural gas industry including, steel and composite pipe making, fracture mechanics, welding, and nondestructive testing, mechanical damage prevention and operations. He helped design and write the standards for integrity management of pipelines ASME B31.8S, including

the integrity assessment standards for pressure testing, in-line inspection, and direct assessment. As a metallurgist and welding engineer, he continues to support PRCI and Gas Technology Institute. Prior to GTI, he was Director of Technology at the Welding Institute of Canada and Senior Metallurgist at TransCanada Pipelines.

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### **PODS Executive Director:**

Sheila Wilson

### **PODS Board of Directors:**

#### **Officers:**

President: Michael King, *BP*  
Vice President: J W Lucas, *Enterprise Operating Products L.P.*  
Secretary: Sarah Johnson, *Sunoco Logistics*  
Treasurer: Ron Brush, *New Century Software*

#### **Board Members:**

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Daniel Colby, *Sentinel USA*  
Mark Goodman, *ONEOK*  
Scott Hills, *Chevron*  
Terrie Spicer, *Kinder Morgan*  
Keith Leewis, *P-PIC*

### **PODS Technical Committee:**

#### **Co-Chairmen:**

Gary Hoover, *Enterprise Operating Products L.P.*  
Costas Kotzabassis, *BITS*

#### **Committee Members:**

Rod Burden, *Moore Resources*  
Kirk Cameron, *New Century Software*  
John Chioles, *Chevron*  
Dave Cullom, *Washington State Utilities*  
Olga Ingerman, *Fluor Corporation*  
Leith McDonald, *BP*  
Michael Ray, *Texas Gas Transmission*  
Yan Wang, *Geonamics*  
Rodger Weller, *GE*  
Jay Williams, *ConocoPhillips*  
Teresa Young, *GeoFields*

## **PODS Committees & Working Groups:**

Spatial Implementation Committee  
Inline Inspection Integrity Data Interchange  
ECDA Integrity Data Interchange  
PODS Fine Grain Security  
One Call – in development  
New Construction Data Exchange Standards – in development  
Russian Regulatory Requirements – in development  
Domain Ranges – in development  
US DOT PHMSA – in development

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