

Information Technology Policy

Data Modeling Products and Standards

ITP Number STD-INF003A	Effective Date August 2, 2005
Category Information	Supersedes None
Contact RA-ITCentral@pa.gov	Scheduled Review May 2022

1. Purpose

Standards document to ITP-INF003 *Data Modeling Standards* details the data modeling products and standards.

2. Standards

Agencies should standardize on the current architecture products and standards identified below.

CURRENT Modeling Products and Standards

(These technologies are supported by the current standard and meet the requirements of the architecture. They are recommended for use.)

Technology	Platforms	Category	Technology Classification
Erwin Data Modeler (Quest)	<u>Access</u> , <u>IBM DB2</u> , <u>Informix</u> , <u>My SQL</u> , <u>MS SQL Server</u> , <u>Netezza</u> , <u>Oracle</u> , <u>PostgreSQL</u> , <u>Sybase</u> , and others via ODBC/ANSI SQL	Forward & Reverse Engineering Data Warehouse Dimensional Modeling Model Management	Current
IBM Rational	A wide variety of platforms including ORACLE, DB2, SQLSERVER.	UML Forward & Reverse Engineering Model Management	Current
Enterprise Architect (Sparx Systems)	IBM DB2, Firebird, InterBase, Informix, Ingres, Access, MS SQL Server, MySQL, SQLite, Oracle, PostgreSQL, Sybase	IDEF1X, UML DDL, Information Engineering Entity Relationship Diagrams (ERDs) Model Management	Current
Visio (Microsoft)	General Logical Level Modeling	UML Entity Relationship Diagrams (ERDs)	Current
ER/Studio (Embarcadero Technologies, Inc.)	Access, IBM DB2, Informix, Hitachi HiRDB, Firebird, Interbase, MySQL, MS SQL Server, Netezza,	IDEF1X, IE (Crows feet) Model Management	Current

	Oracle, PostgreSQL, Sybase, Teradata, Visual Foxpro and others via ODBC/ANSI SQL		
SQL Server Management Studio (Microsoft)	MS SQL Server	Model Management	Current
MySQL WorkBench (Oracle)	MySQL	IDEF1X, IE (Crows feet), UML, and more Model Management	Current
Oracle SQL Developer (Oracle)	Oracle, MS SQL Server, IBM DB2	Barker, IE (Crows feet), and Bachman Model Management	Current
PowerDesigner (SAP)	Access, Greenplum, Apache Hive, HP Neoview, IBM DB2, Informix, Ingres, Interbase, MySQL, Netezza, NonStop SQL, Oracle, PostgreSQL, Red Brick Warehouse, SAP business Suite, SAP Hana, SAP Adaptive Server Enterprise, SAP IQ, SAP SQL Anywhere, MS SQL Server, Teradata	IDEF1X, IE (Crows feet), and more Model Management	Current
SAP HANA Studio	SAP HANA	Data Modeling and Data Management	
SAP Analytics Cloud	SAP HANA, SAP business Suite, SAP Adaptive Server Enterprise, SAP IQ, SAP SQL Anywhere, Oracle, MS SQL, ODATA, Cloud Platforms (GPS, AWS and Azure) SQL Dataset, Salesforce, Google Big Query, SAP SuccessFactors, Cloud Storage, CRM, Custom Widget, story, Value Driver Tree	Analytical Applications, Planning, Visualization, Predictive, Dashboard, Digital Boardroom, Modeling and Stories	
Data Intelligence	SAP ERP, Suite on HANA, Non-SAP Business Applications, SAP and non-SAP Data Base, Open Source, Python, ODATA, Cloud Platforms (GPS, AWS and Azure), SAC	Data Modeling, Data Orchestration, Machine Learning, Governance and Integration	

CONTAIN

(These technologies no longer meet the requirements of the current architecture and are not recommended for use. They are to be phased out over time. No date has been set for their discontinuance.)

Technology	Platforms	Category	Technology Classification
Oracle Designer	ORACLE	--	Contain

RETIRE

(These technologies are being phased out. Plans are to be developed for their replacement, especially if there is risk involved, such as lack of vendor support. A date for retirement has been set.)

Technology	Platforms	Category	Technology Classification
Popkins System Architect	--	--	Retired 12/31/2005

EMERGING / RESEARCH

(Emerging technologies have the potential to become current standards. At the present time, they are to be used only in pilot or test environments where they can be evaluated. Use of these technologies is restricted to a limited production mode and requires approval of a waiver request. Research technologies are less widely accepted, and time will determine if they become a standard.)

Technology	Platforms	Category	Technology Classification

3. Publication Version Control

It is the [Authorized User](#)'s responsibility to ensure they have the latest version of this publication, which appears on <https://itcentral.pa.gov> for Commonwealth personnel and on the Office of Administration public portal: <http://www.oa.pa.gov/Policies/Pages/default.aspx>. Questions regarding this publication are to be directed to RA-ITCentral@pa.gov.

4. Exemption from This Policy

In the event an agency chooses to seek an exemption, for reasons such as the need to comply with requirements for a federally mandated system, a request for waiver may be submitted via the enterprise IT Policy Waiver process. Refer to [ITP-BUS004 IT Waiver Review Process](#) for guidance.

This chart contains a history of this publication's revisions:

Version	Date	Purpose of Revision
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Original	08/2/2005	Base Document
Revision	11/18/2010	Updated to add Sparx as current standard
Revision	05/13/2021	ITP Refresh