



**INFORMATION IMPACT  
International, Inc.**

**Position Description  
Posting Date: May 14, 2010  
Closing Date:**

<http://www.infoimpact.com/jobpostingcenter.cfm>

**Job Title: Principal Enterprise Data Architect**

**Company: Comcast**

**Location: Philadelphia Area**

**Department/Work Group: CET – Architecture & Technology Team**

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**Reporting Relationships :** Reports to VP, CET – Architecture & Technology

**Role Level: Manages Others, Advanced Contributor (7+ years)**

**Job Description:**

Enterprise Data Architecture is concerned with the identification, definition, and creation of data related artifacts and frameworks associated with architectural principles, blueprints, standards, guidelines, procedures, patterns, information as a service, logical and physical information and data models, reference architectures, interaction diagrams, technical stacks, governance, and technology obsolescence planning and management. The Principal Enterprise Data Architect will support data gathering, storing and delivering via solid data repository strategy and roadmap. The strategy will encompass data movement, integration, business intelligence, master data management, data capacity management, data lifecycle management, reporting, data security, data quality management, meta-data management, indexing and searching across structured and unstructured data and enterprise content and knowledge management. This is a lead position of a team of approximately 10 fulltime and contract resources. In addition to data architecture tasks, the Principal Enterprise Data Architect will also manage administrative tasks, staff management and development, etc. She or he must provide leadership of improving the design, structure, organization, and maintenance of all data and related design artifacts at Comcast based on a published roadmap and vision.

The Principal Enterprise Data Architect will:

- Guide the development of enterprise data strategy for both event based data and enterprise business data, assist in developing master data management and business intelligence strategy for customer, product, location, resource (device) and configuration/ reference data, develop a meta-data management strategy, etc.
- Develop expert knowledge of business and solution domains. Responsible for maintaining current state architecture about data asset inventory.

- The Principal Enterprise Data Architect must be able to envision the relevance of data and translate the business needs into data models and the meta-data. Create and maintain an enterprise data model with adequate level of detail.
- Integrate project-level data models into the enterprise model. Develop and maintain target Logical Data Models and Data Flow Architecture for the various lines of business within the organization.
- Develop data management guidelines to maximize the value of enterprise data by reducing redundancy, enabling accessibility within security boundaries, fostering corporate understanding of the meaning of the data.
- Be responsible for developing and maintaining standards for naming, describing, governing, managing, modeling, storing, cleansing, and transforming all data within the enterprise. This also includes methodologies, tools, governance frameworks and design patterns. Must coordinate with other stakeholders to implement checkpoint reviews and periodic audits to ensure these standard artifacts are effective.
- Direct the team to assist the data modelers and database architects in data modeling and database design. Provide methodology to interpret business needs into data requirements, including such attributes as naming standards, consistent data definitions, data aliases, associated business rules, data sources, retention criteria, derivations, security restrictions, accessibility, reusability, currency, frequency of update, linkages, and integration.
- Identify and prioritize data integration opportunities and propose solutions. Evaluate, recommend and select data and database tools and utilities. Identify and implement best practices, tools and standards (e.g. ER modeling, normalization, data security, etc)
- Develop a strategy to classify data for its most effective and efficient use. Create processes for Data Life Cycle management. Specify data validation, verification and reconciliation strategies based on data classes and lifecycle stages.

### **Education Experience:**

- Candidates must excel in communication, design and delivery of complex models in very large data systems. S/he must be familiar with the strategies, concepts, rationale, challenges, and best practices of data modeling, both logical and physical, in a large environment for OLTP and decision support systems. Relevant experience must include complex data modeling, dimensional data design, data analysis, query optimization and tuning, knowledge of Internet and Service Oriented Architecture (SOA) concepts, and familiarity with multiple RDBMS platforms, database applications and database engineering in general.
- High proficiency in PowerDesigner, ERwin or other data modeling tools, including modeling techniques and model management practice.
- Previous Experience with end to end data warehouse design.
- Working knowledge of LDAP and X.500 Directory. Familiarity with large scale LDAP structure design as well as integration options across directory structures and relational data.
- Expert level knowledge of master data management across customer (CDI), product (PIM), reference data, hierarchy master data, device and resource, location and others. Experience of MDM architectures of both tool-centric and custom-built solutions. Experience integrating MDM products with other systems, including SOA based services. Experience establishing master data governance.

- Solid understanding of meta-data management best practices (experience implementing or operating a meta-data repository is highly desired).
- Relevant experience with large scale BSS/OSS implementations in a telecom company is preferred.
- Should have basic understanding of customer-facing systems such as email, voicemail, web, and video services or the implications these outward facing systems have on end user experience.
- Experience working in large organizations with geographically dispersed teams and complex technical environments
- The ability to use visual aids such as charts and graphs to convey complex architecture concepts as part of an oral presentation to the senior executives and non-technical peers is required.
- Strong customer focus with a demonstrated ability to work seamlessly with business sponsors and technologists
- Proven track record of implementing and actively managing fundamental information architecture frameworks, methodologies, and architectures
- The ability to learn technology beyond data and database related topics
- Ability to analyze, learn, and apply rapidly changing technologies and apply them as part of integrated solutions to business requirements.
- Ability to establish and maintain a high level of customer trust and confidence in the overall technology architecture, the architecture team's knowledge of and concern for customer requirements, and the change process to enhance the architecture.
- Excellent oral, written, and presentation communication skills. Excellent, collaboration, influence and leadership skills. Ability to work with various levels of peers including developers and executives regarding technology issues.
- Ability to codify different approaches, strategies, and expectations into a unified architectural blueprint. Understands issues and details of integrating diverse technology to deliver scalable, robust, and high performance solutions.
- Superior project management/consulting and leadership skills. Demonstrated ability to lead or facilitate complex, mission critical projects and to develop, participate in and lead multi-disciplinary work teams.
- Strong negotiation and group facilitation skills; ability to move a process forward, while meeting the needs of a variety of clients.
- Excellent managerial skills; collaborative, imaginative, resourceful, reliable, technically savvy.
- Bachelor's degree in Computer Science, Engineering, or related discipline, or equivalent. Master's degree desirable.
- 15 years of information technology experience
- 10 years of enterprise architecture experience