

Software/Tool Comparison Worksheet

Criteria	Evaluation
Name	VertNet
Website/Contact	http://vertnet.org/index.php
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Description	VertNet is an umbrella organization for four previous
	vertebrate network projects, including ORNIS (ornithology),
	MaNIS (mammalogy), HerpNet (herpetology), and FishNet2
	(ichthyology). VertNet provides an online portal for
	searching and viewing vertebrate occurrence records
	distributed across natural history collections and institutions.
	VertNet data currently includes over 80 million records.
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	Data are integrated into the VertNet search portal using
	Darwin Core Archives. Data updates are made by data
	publishers' updates to their archives, which are periodically
	harvested and processed for integration into the VertNet
	aggregated data stores. VertNet participants are registered
	with GBIF, also making their data available through the
	GBIF search portal. As with most data aggregators, casual
	online editing of individual records is not supported.
	Participation in VertNet is open to any institution (museum,
	university, etc.) that has mammalogical, herpetological,
	ornithological, or ichthyological occurrence data, including



	specimens and observations. Multiple collections from a single institution are supported.
	VertNet participating institutions can serve data through Darwin Core Archives stored at any stably accessible public
	location (such as Dropbox), through their own instance of GBIF's Integrated Publishing Toolkit (IPT), or through the free IPT hosted by VertNet. Participating data publishers are expected to be able to export their occurrence data and transform it, with support if necessary, into a compliant Darwin Core Archive.
	Future developments will include joint queries of multiple vertebrate classes with visualization of the aggregated data (such as all vertebrates for a specific geographical region), a thesaurus and other tools for reconciling non-standardized data across publishers, and integration with other biodiversity informatics projects, including GEOLocate, AmphibiaWeb, Map of Life, Specify, Arctos, DataONE, NEOMAP, Encyclopedia of Life, Animal Diversity Web, and others.
Computer hardware Operating system Supplementary software	No specific computer hardware or operating system is required for accessing or uploading data to VertNet. Participating institutions maintain data in a variety of database management systems operating on a variety of hardware and operating systems.
	Participating institutions may install an institutional instance of Integrated Publishing Toolkit for preparing Darwin Core Archives.
	The VertNet search and browse interface is accessible through any operating system and related internet browser.
Additional hardware required	None.
Features	An easy-to-use and attractive interface.
	Broad-based or narrow searches across a wide-range of institutional databases.
	Robust data networks with numerous important vertebrate collections.
	Personal assistance to participating institutions with preparing, mapping, and uploading data.



	Support for URL links to supplementary files stored elsewhere on the web, including still images, audio, video, and other related media.
	Support for a variety of biodiversity research opportunities, including spatial analysis and species distribution modeling.
Longevity	The vertebrate networks began with the creation of FishNet in 1999 and followed by MaNIS, HerpNET, and ORNIS. VertNet unites these four networks under a single vertebrate-based foundation. For a more detailed history, see http://vertnet.org/about/VertNetHistoricalTimeline.pdf
Initial cost	There are no direct costs related to VertNet. Indirect costs include a computer, database, and, if desired, a server for supporting an infrastructure to serve Darwin Core Archives.
Maintenance cost	There are no direct costs related to VertNet. Indirect costs include hardware and technical staff for maintaining infrastructure.
Ease of setup/installation prerequisite skills	VertNet staff provides technical support at all levels whether institutions choose to publish independently or prefer to be completely hands-off.
Continuing IT support required?	None related directly to VertNet. Maintenance of primary institutional databases and servers is required.
Special skills required for maintenance	None directly related to VertNet. Maintenance of primary institutional databases and servers is required.
Challenges	Viewable specimen images are not currently supported. However, image URLs can be uploaded and passed to GBIF.