



# PROFILE SHEET WSP-G3-006 “WEB DB ADMINISTRATOR”

G3 Web Skills Profiles - version 2.0

Generation 3 European ICT Professional Profiles

Appendix to the official specification of 30 June 2014

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**Current version:** <http://www.skillprofiles.eu/stable/g3/en/v2/profiles/WSP-G3-006.pdf>

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**Latest version:** <http://www.skillprofiles.eu/stable/g3/en/profiles/WSP-G3-006.pdf>

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## Profile WSP-G3-006. Web DB Administrator

This section is normative.

The profile sheet, listed below and described in appendix B, is an integral part of the document, "G3 Web Skills Profiles - version 2.0 - Generation 3 European ICT Professional Profiles", official specification of 30 June 2014" [WSPG3-03].

<b>Profile WSP-G3-006</b>	<b>Web DB Administrator</b>
<b>Summary statement</b>	Professional position with the duty of carrying out and maintaining the operability of the databases used or managed by the organization as part of its Web-related activities, managing the processes and accurately and comprehensively documenting those within his or her area of expertise.
<b>Mission</b>	The Web DB Administrator defines, plans, and optimizes database structures. He or she ensures database security by administering suitable data backup and recovery policies, ensuring high reliability of the databases and implementing monitoring strategies, and improving database services using tuning techniques.
<b>Deliverables</b>	<b>Accountable (A)</b> <ul style="list-style-type: none"><li>• Data model.</li><li>• Document describing the database architecture.</li><li>• Conceptual, logical, and physical planning.</li></ul> <b>Responsible (R)</b> <ul style="list-style-type: none"><li>• Database structure.</li><li>• Physical planning.</li><li>• Existing solution.</li></ul> <b>Contributor (C)</b> <ul style="list-style-type: none"><li>• Test procedures.</li><li>• Incident management.</li></ul>
<b>Main tasks</b>	<ul style="list-style-type: none"><li>• Design and define database models and diagrams.</li><li>• Create and optimize database models and diagrams.</li><li>• Apply standard methods and tools to measure and report on a broad set of performance indicators (response time, availability, security, integrity).</li><li>• Approve and implement data processing procedures.</li><li>• Identify, research, and correct database problems or incidents.</li><li>• Provide database training, support, advice, and guidelines for other IT system professionals.</li></ul>

<b>E-CF competences</b>	<ul style="list-style-type: none"> <li>• <b>A.6. Application Design:</b> Level e-3.</li> <li>• <b>B.1. Application Development:</b> Level e-3.</li> <li>• <b>B.2. Component Integration:</b> Levels e-2, e-3.</li> <li>• <b>C.4. Problem Management:</b> Level e-3.</li> <li>• <b>D.10. Information and Knowledge Management:</b> Level e-3.</li> </ul>
<b>Skills / Knowledge</b>	<p><b>Technical</b></p> <ul style="list-style-type: none"> <li>• Be able to administer, configure, and optimize the Database Servers</li> <li>• Knowledge of security issues related to database access</li> <li>• Knowledge of various DBMS.</li> </ul> <p><b>Informatics</b></p> <ul style="list-style-type: none"> <li>• Knowledge of the specific architecture and functions of the database used.</li> <li>• Knowledge of the query language for the specific database used.</li> <li>• Knowledge of the stored procedures for the specific database used.</li> <li>• Knowledge of XML.</li> </ul> <p><b>Strengthening</b></p> <ul style="list-style-type: none"> <li>• Knowledge of Triple Stores.</li> <li>• Knowledge of SPARQL.</li> <li>• Knowledge of RDF.</li> <li>• Knowledge of XML Databases.</li> <li>• Knowledge of VLDB.</li> <li>• Knowledge of UML.</li> <li>• Knowledge of WS/WSDL.</li> </ul>
<b>Key Performance Indicators (KPIs)</b>	<ul style="list-style-type: none"> <li>• Existing database.</li> <li>• Consistent with the SLA (Service Level Agreement): availability, confidentiality, performance.</li> <li>• Problem resolution.</li> </ul>
<b>Qualification / Certifications</b> <i>(this section is informative)</i>	<ul style="list-style-type: none"> <li>• European ICT Professional Profiles “Database Administrator”.</li> <li>• “CIW (Certified Internet Web Professional) - Database design Specialist” Certification.</li> </ul>
<b>Attitudes (non ICT)</b> <i>(this section is informative)</i>	<p><b>Interpersonal and Organizational</b></p> <ul style="list-style-type: none"> <li>• Problem solving.</li> <li>• Teamwork.</li> <li>• Spirit of initiative.</li> </ul> <p><b>Linguistic</b></p> <ul style="list-style-type: none"> <li>• Good knowledge of the national language or the language</li> </ul>

	<p>used by the working group - minimum level: C1 QCER.</p> <ul style="list-style-type: none"><li>• Good knowledge of the English language - minimum level: B2 QCER.</li></ul>
<p><b>Relationships / Reporting line</b> <i>(this section is informative)</i></p>	<p><b>Interacts with:</b></p> <ul style="list-style-type: none"><li>• Web Server Administrator</li><li>• Knowledge Manager</li><li>• Web Security Expert</li><li>• Online Store Manager</li><li>• User Experience Designer</li><li>• Server Side Web Developer</li></ul> <p><b>Reports to:</b></p> <ul style="list-style-type: none"><li>• Web Project Manager</li></ul>

## Appendices

### Appendix A. Glossary

#### Informational (informative)

for the purposes of information and not required for compliance.

*Note: The content required for compliance is referred to as "normative".*

#### normative

Required for obtaining compliance.

*Note: Content listed as "informative" or "non-normative" is never necessary for compliance.*

### Annex B. Profile sheet structure

The Web skills profiles are identified by an unambiguous code and are structured in reference to paragraph 4.2 of the CWA CEN document, "European ICT Professional Profiles" [CWA-01] updated upon European e-Competence Framework 3.0 [CWA-02].

- **Profile Title.** Name - including the identification code - of the Web skill profile according to the unambiguous international catalogue from the IWA/HWG.
- **Summary statement.** Lists the primary purpose of the profile. The purpose is to give all stakeholders and users a brief, concise description of the specified Web skill profile, written in a form understandable by ICT professionals, managers, and Human Resources staff.
- **Mission.** Describes the basic assignment of the profile. The purpose is to specify the working role defined in the Web Skill Profile.
- **Deliverables.** Describes the documents produced by the job description as accountable (guarantee), responsible (support), and contributor (contribution).
- **Main tasks.** Provides a list of typical tasks carried out by the profile. A task is an action undertaken to achieve a result in a broadly defined context and contributing to the definition of the profile.
- **E-CF competences.** Provides a list of the skills necessary (taken from the e-CF references) to carry out the assignment. A skill is the outcome of the previous definition of the Profile and helps to differentiate profiles.
- **Skills / knowledge.** A list of abilities and knowledge necessary for the definition of the profile, subdivided into technical, informatics, and strengthening (improving abilities for the profile).
- **Key Performance Indicators (KPIs).** Based on KPI (Key Performance Indicators), the area of application of the KPI is a more generic indicator, consistent with the grade level of the overall profile. It applies for adding depth to the assignment.

- **Qualification / Certifications.** These are the recommended, but not essential, qualifications and certifications for carrying out the activities in the profile. However, these qualifications and certifications may be used for developing knowledge of specific skills within the profile. This section is for informational purposes.
- **Attitudes (non ICT).** A list of aptitudes supporting the abilities and knowledge, subdivided into interpersonal/organizational and linguistic. This section reports references to the QCER [CE-01], which promotes the understanding of specific language certifications. This section is for informational purposes.
- **Relationships / Reporting line.** A list of Web skills profiles and not with whom the profile discusses (relationships) or reports (reporting lines). This section is for informational purposes.

## Annex C. References

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[CE-01]	<b>Council of Europe</b> <i>Common European Framework of Reference for Languages: Learning, Teaching, Assessment (CEFR) (January 2002)</i> <a href="http://www.coe.int/t/dg4/linguistic/CADRE_EN.asp">http://www.coe.int/t/dg4/linguistic/CADRE_EN.asp</a>
[CWA-01]	<b>CEN (European Committee for Standardization)</b> <i>CWA 16458:2012 European ICT Professional Profiles updated by e -CF version 3.0 competences (March 2014)</i> <a href="http://relaunch.ecompetences.eu/wp-content/uploads/2013/12/EU_ICT_Professional_Profiles_CWA_updated_by_e_CF_3.0.pdf">http://relaunch.ecompetences.eu/wp-content/uploads/2013/12/EU_ICT_Professional_Profiles_CWA_updated_by_e_CF_3.0.pdf</a>
[CWA-02]	<b>CEN (European Committee for Standardization)</b> <i>CWA 16234:2014 Part 1. European e-Competence Framework 3.0. A common European Framework for ICT Professionals in all industry sectors (March 2014)</i> <a href="http://ecompetences.eu/wp-content/uploads/2014/02/European-e-Competence-Framework-3.0_CEN_CWA_16234-1_2014.pdf">http://ecompetences.eu/wp-content/uploads/2014/02/European-e-Competence-Framework-3.0_CEN_CWA_16234-1_2014.pdf</a>
[WSPG3-01]	<b>IWA (International Webmasters Association)</b> <i>G3 Web Skills Profiles - version 2.0 Generation 3 European ICT Professional Profiles Official specification of 30 June 2014 (English version)</i> <a href="http://www.skillprofiles.eu/stable/g3/en/2013-06-30.pdf">http://www.skillprofiles.eu/stable/g3/en/2013-06-30.pdf</a>