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The Effect of Teachers' Participation in Seminars on Their Teaching Effectiveness in Secondary Schools in Tubah Sub Division

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Abstract. The purpose of this study was to investigate "The Effect of Teachers' Participation in Seminars on their Teaching Effectiveness in Secondary Schools In Tubah Sub Division". A cross sectional survey research design was used as the main quantitative research design for this study. The main theories used for this study include: Adult learning theory by Malcolm Knowels (1913), Herzberg's Two Factor Motivational Theory (1995), The Expectancy Theory of Victor Vroom (1964) .The sampling technique used was the convenient or accidental sampling technique and questionnaires were used to obtain data. Percentages were used to analyze the data and the hypotheses were tested using the Pearson product moment correlation. With respect to data analyses and presentation of findings, the result showed that, Teachers participation has a significant effect on seminars; Teachers participation in seminars has a significant effect on their effectiveness.

Key words: Professional Development, Teacher effectiveness, teacher's participation in seminars.

INTRODUCTION

The crucial role education plays in a society has become a universal understanding. At the individual level, it enhances citizens' capacity to make informed choices about matters important to their welfare. It is also a well-established thought that education is the most important contributor to higher lifetime earnings and stronger national economic growth. For education to play these roles effectively, it has to meet minimum quality standards. Among other conditions, it is strongly argued that universal goals set for education in terms of access need to be accompanied with quality instruction. This in turn requires teachers to be qualified to do the job effectively.

Nations around the world are currently embarking in deep reforms of their educational systems. There is widespread agreement among policymakers, scholars, and educators that one of the keys for success during these reforms is promoting the Professional Development (PD) of In-Service-Teachers Baurista, (2015). There is a growing concern among different

stakeholders about the quality of education. The government is doing its best with limited financial resources to address the problem. Thus, parallel with the rapid expansion of the education system, the government called for improving the quality of education by introducing several packages such as the school improvement program which among others includes teacher professional development together with the employment of a learner-centered approach. Teachers are expected to employ interactive methods of teaching to help students learn.

Teachers are expected to be reflective and change oriented to meet the government and public demand for quality education. This situation signifies the importance of continuous teacher professional development aiming at improving the teaching learning process thereby improving the quality of education.

The notion of Continuous Teacher Professional Development (CTPD) is rooted in the constructivist philosophy which claims that our constructions and views of the world are not stable, but are in continuous change as we build on past experiences. Accordingly, it is presumed that teachers have to engage themselves in planning their own professional development on a continuous basis to cope with the continuous change.

For many years, professional development typically consisted of short, stand-alone workshops on topics selected by schools (often without consulting teachers), along with college or university course taking. During the 1990s, some experts began to suggest that these traditional forms of teacher professional development lacked the focus, intensity, and continuity needed to change classroom practices (Little 1993) and they were inadequate for preparing teachers to meet the educational needs of their students (Corcoran 1995; Miller 1995; Sprinthall, Reiman, and Theis-Sprinthall 1996). Recognizing the limitations of traditional approaches to professional development, educators, researchers, and policymakers began to look at professional development differently. Their goal was to restructure teachers' work so that they could learn together and work collaboratively to effect changes in teaching practice and student learning (Corcoran 1995; Gilford 1996; Little 1993) Nations around the world are currently embarking in deep reforms of their education systems. One of the most substantial changes introduced relates to the dramatic transformation in the types and nature of learning outcomes expected from students. Ambitious learning goals, including both academic and non-academic outcomes, have been set in many countries (Todd, 2010). The purpose of today's school is not simply to deliver subject matter knowledge (mathematics, science, language, etc.) and prepare students for their future professional careers. The purpose is rather to educate 21st century citizens: active, self-directed, confident and concerned learners, competent not only cognitively but also emotionally, socially, and technologically. It is also important to educate students who are able to make responsible decisions, equipping them with the so-called 21st century competences and skills (able to think critically and creatively, to communicate and collaborate with others effectively, aware of global and cross-cultural issues, etc.) (Burnaford, Brown, Doherty, & McLaughlin, 2007). Another important change introduced by reforms in many nations has to do with the goal of promoting equity and social justice in schools (e.g., Apple, 2001). The expectation is for schools to work equitably and effectively for all learners in ever more diverse classrooms, hence contributing to a better, more just and free society (Kaur, 2012). Changes of this magnitude necessarily require profound transformations in curriculum and instructional practices, in what and how teachers teach to students (Bautista, Tan, Ponnusamy, & Yau, 2015).

Indeed, teachers are key to the success of reform initiatives, as they are ultimately the ones in charge of enacting these initiatives within the classroom (Guskey, 2002). In the 21st century, teachers are expected to play a variety of roles in schools. Fulfilling these roles requires a

wide range of professional and personal competencies (Darling-Hammond, Chung Wei, Andree, Richardson, & Orphanos, 2009). Teachers need to be able to provide all students with opportunities for deep and meaningful learning, thereby fostering their holistic development. Being a teacher also requires being able to work collaboratively with others (including colleagues and parents), seeking out opportunities for further learning within and beyond the school. Furthermore, teachers need to possess certain personal values that allow them to act as leaders of social change. They need to be able to maintain high-quality content instruction while adopting a social justice orientation, helping students to recognize and undermine patterns of injustice and oppression. In a nutshell, teachers need to believe that every single student can learn (Darling-Hammond et al., 2009). Ensuring that teachers are appropriately equipped with this sophisticated array of competencies (e.g., knowledge and skills related to professional practice, collaboration and leadership, integrity and commitment to education and social change, etc.) is therefore essential to guarantee the success of educational reforms (Garet, Porter, Desimone, Birman, & Kwang, 2001).

However, research has shown that many teachers need intensive guidance and support to be able to teach according to innovative principles (Borko, 2004). In fact, scholars have argued that many prior initiatives for educational improvement have not accomplished the intended goals because they failed to provide teachers with appropriate learning opportunities (Fullan & Miles, 1992). There is widespread agreement among policymakers, scholars, and educators that promoting the professional development (PD) of in-service teachers is a cornerstone to achieve the ambitious goals of educational reforms (Desimone, Porter, Garet, Yoon, & Birman, 2002). In fact, there is currently a general consensus that the quality of an education system cannot be higher than the quality of its teachers (Barber & Mourshed, 2007). For this reason, many nations across the world are investing in the continuous learning of their teachers as a major engine for the improvement of both teacher competency and student academic success (Darling-Hammond, Chung Wei, & Andree, 2010). As pointed out by Knight (2002), providing teachers with opportunities for PD is essential because initial teacher education programs cannot provide them with all the competencies that are needed in the classroom, especially the procedural ("how to") skills, which primarily develop in practical settings. The expectation for today's teachers is to embrace life-long learning to be able to constantly adapt to new situations and respond to the changing demands of society in the classroom. Moreover, providing teachers with PD opportunities commonly improves their job commitment and satisfaction.

Teachers' quality plays a paramount role in the improvement of quality of education. A way to ensure high quality teachers is through continuous professional development. Adaire (2010) said, teacher professional development is a key to improve the quality of student learning and the ultimate goal of any educational enterprise. Aggarwal (1993) examined several approaches to teachers' involvement in Professional Development Programs (PDP) such as seminars, pre-service teachers programs, teacher-training programs, workshops and other similar activities. It is necessary for teachers as professionals to keep updated and at least to maintain their professionalism in responding to new paradigms and trends. First and foremost, well-designed CPD programs must be well implemented to be effective. Because of this, policy makers should adopt state/country-wide standards for the implementation of CPD. They should also restructure time management within school schedules to maximize time for professional learning and collaboration. One way to effectively achieve this is to integrate PD into school improvement initiatives.

THE PROBLEM

Most teachers are hardly given the opportunity to attend CPD programs which will make them to acquaint themselves with the latest development in the field of education. Activities such as In-Service-Training, conferences, seminars, teachers experience can help improve teachers professional competences and solve other issue related to the teaching and learning process. A majority of teachers in Cameroon require continuing in-service training. Therefore, the problem here is that of inadequate (or insufficient) professional development in the teaching field. Tchombe (2010) points out that the teaching core is not adequately prepared for the new trends in the education arena emerging from the different international declarations including the Millennium Development Goals, EFA goals and educating in ways that respond to market forces. Some teachers instead prefer to use one and the same lesson notes, knowledge, materials, techniques and methods for more than a decade without revision. Teachers are hardly involved in research activities. Few teachers take the initiative to further their study. The few teachers who engage themselves into pedagogic animations (in-service training) do not put it into practice due to insufficient follow up and control by the school administration. The teaching core is hardly involved in policy issues and decision-making processes of the school. It therefore constitutes a problem because this inadequate professional growth leads to inefficiency and ineffectiveness, which results to poor performance on the part of learners, indicating that the educational objectives both academic and intellectual, are not attained. It is against this backdrop that this study seeks to examine the effects of CPD programs like seminars, workshops, distant education programs, conferences, peer teaching and other CPD programs on teachers' effectiveness in secondary schools in Tubah Sub Division..

OBJECTIVE OF THE STUDY

- To verify the influence of seminars on teacher effectiveness in secondary schools in Tubah Sub Division.

RESEARCH HYPOTHESIS

Ho1: Seminars have no significant influence on teacher effectiveness in Tubah Sub Division.

RESEARCH QUESTIONS

To what extend do seminars influence teacher effectiveness in secondary schools in Tubah Sub Division?

Theoretical Framework

Adult learning theory Andragogy by Malcolm Shepard Knowles(1913): The adult learning theory was grounded on andragogy which was a term originally used by **Alexander cape**, a German educator, in **1883** and develop into a theory of adult education by American educator Malcolm Knowles. Emanating from a Greek word meaning "man leading andragogy" consist of learning strategies focused on adults and was initially defined as "the art and science of helping adults learn". Ben-Pertez (1994) noted that Adults will commit to learning when goals and objectives are considered realistic and important to them. Application in the real world is important and relevant to adult learners' personal and professional needs. Adults want to be origin of their own learning and will resist learning activities they believe are attack to their competence. Thus, CPD needs to give participants some control over the what, who, when, and where of their learning.

Adult learners need to see that CPD learning and their days to day are related and relevant. Adult learners need direct, concrete experience in which they apply learning in real work. Adult learning is ego involved. CPD must be structured to provide support from peers and to reduce the fear of judgment during learning. Adults need to receive feedback on how they are

doing and results of their efforts.

Teachers, like adults, require time, resources and CPD opportunities and activities related to their working environment. Given that these CPD activities have to take place in the life of the teacher, teachers acquisition of this knowledge, skills and attitudes will take cognizance of the adult learning theory which reflect the growing base on how children learn just as in effective classroom practices or them to be effective. Teachers of various experiences also come along with previous learning and knowledge, self-direction and interest and competences. These past experiences affect their attitudes and beliefs. That is why in their CPD programs, this diversity must be accommodated. It effective when it incorporates, recognizes, and validates these previous experiences in order that it is content and context specific. In this way, the teachers are oriented to learning by helping them overcome their inhibition, behaviors and beliefs.

Herzberg's Two Factor Motivational Theory (1995)

Herzberg (1995) constructed a two-factor dimensional paradigm of factors which affects people's attitude about their job. One set of factors relate to intrinsic aspect of the work, that is, the actual execution of the work or job content. These factors are called "motivators" or "satisfiers" which drive people to achieve or to do well. These motivational aspects include; achievement, recognition, the work itself, growth and advancement, responsibility and feedback. The other set of factors relate to extrinsic aspects, their presence alone does not motivate or create satisfaction. This is because intrinsic motivators (satisfiers) must be provided along with extrinsic motivators (hygiene) for optimal teaching performance.

In this context, the leadership behavior of the principal influences teachers' motivation towards goal expectation. As a result, instructional leadership emerges as a key factor influencing teacher's attitudes. This is the most critical responsibility of the school principal as it impacts on the teacher's behavior and attitude to the core mission of the school in various ways. Accordingly, head teachers can indeed motivate their teachers to pursue excellence towards the provision of the necessary structures and decisions that would lead towards an improvement in the staffing situation. These aspects include the principal's leadership style, provision of opportunities for teachers to attend ongoing professional development courses, adequately staffed school with the availability of instructional materials to better teaching situation which will go a long way to motivate teachers toward the discharge of their duty.

Herzberg's two factor theory is of great important to the research topic in that, it can be applied to the principal in the motivation of teachers. Principals should give teachers the opportunities to be involved in shared decision making professional and personal growth programs, collegial relationships and team work. Moreover, since Herzberg's theory is made up of motivators or satisfiers which include aspects such as challenging work, recognition of accomplishment, feelings, achievement, increased responsibility, and responsibilities. When this theory is applied by the principal, teachers, staffs feel a sense of self-worth and are ready to work and as such, they are determining to work as far as staff development programs are concern. Such development programs include in-service training, seminars, workshops contribute to an increase in students' academic achievement.

The principal can recognize achievements by always congratulating his or her teachers for job well done at the end of each year. He/she could recognize and appreciate these teachers even when high personality people visit the school like pedagogic inspectors, or PTA meetings. By this the teachers will be highly motivated and boost their self-esteem as

Herzberg's theory stipulates that if employees (teachers) are recognized, they will be motivated to work hard.

The Expectancy Theory of Victor Vroom (1964)

This theory was developed by Victor Vroom and later expanded by Porter and Lawler in 1968, to explain the determinant of workplace behavior. According to this theory, prior to investing effort, the teacher goes through a process of evaluating the value of reward (valence) the probability that effort will receive results (expectancy) and that effort will achieve the performance required (instrumentality). The degree of motivation is affected by the teachers' preferences for intrinsic and extrinsic reward and perception of equity. Therefore, when the working condition is far below what teachers expect it to be that are not motivated to work hard such that the academic performance of teachers' is affected negatively. Consistent with this view, Carl (1995) asserts that motivation is determined by individual's beliefs in their own efforts, the resulting job performance and the outcome or reward and incentive offered for the job performance. To this extent, teachers should be rewarded for good job done when need be as it serves as a booster towards effectiveness and consequently affects teachers' academic achievement positively.

According to Chanman-Tak, Yue-Chor, Ching and Yin-Cheong (1997) expectancy theory is widely accepted for two reasons: it makes sense that principals should motivate their teachers with what they actually want, starting with good working conditions that will serve as an initial motivator before other extrinsic motivators like rewards come to play. For the extrinsic motivators, teachers must believe that there are fair chances of obtaining it in order for it to motivate them to perform. Having provided a suitable working condition, principals should determine whether teachers have the approximate skills and knowledge to their work effectively. According to Charley (1989), principals should give appropriate rewards for individual performance and take heed intervening variables such as traits, school procedures and support facilities that may affect performance.

Therefore, from the expectancy theory in relation to the effect of teachers' participation CPD on teacher effectiveness, it is clear that teachers will be motivated if their working conditions are good to the extent that they expect high level of efforts to be reflected in high level of performance. The concept of expectancy provided by this theory is of prime importance to principals and teachers. Motivation is an important factor when it comes to staff development programs and teachers' academic achievement.

METHODOLOGY

A cross sectional survey research design was used as the main quantitative research design for this study. This involved measuring different segments of the population at a particular time point. This cross section of the population included secondary school teachers in Tubah Sub Division. These cross sections were measured just once to find out the extent to which teachers' continuous participation in seminars affect their effectiveness. A questionnaire consisting of a four-point Likert scale was administered to the teachers to respond objectively on the extent to which participation in Seminars affect their effectiveness. In this study therefore, data were collected at a given point in time about a population from a sample drawn from the study area using questionnaires from which inferences were made on the entire population.

The target population of the study consists of all teachers of Secondary schools in the Public, lay private and denominational sectors within Tubah Subdivision. The sample of this study comprised of 468 respondents randomly drawn from every one of the school types; public and lay private within Tubah Subdivision distributed as shown on the table below:

Table 1: Target population of the Study

SN	SCHOOL TYPE	TEACHING STAFF		
		MALE	FEMALE	TOTAL
1	CCAST BAMBILI	42	67	109
2	GHS K. KEKU	23	21	44
3	GHS M. BAMBUI	14	42	56
4	GHS K. KETINGUH	5	17	22
5	GBSS TECHU	1	6	7
6	GBSS SABGA	9	8	17
7	GSS BAFORKUM	4	7	11
8	GTHS K. KETIGUH	15	30	45
9	GTHS BAMBUI	13	39	52
10	GTC K. KEKU	6	10	16
11	GTC NTIGI	14	20	34
12	GTC NTAMBANG	0	9	34
13	FONAB K.KEKU	15	2	17
14	CHS BAMBUI	20	9	29
TOTAL	SUB TOTAL	181	287	468

SOURCE: Mezam Divisional Delegation of Secondary Education beginning of year report for 2018/2019 academic year.

Data was collected using the structured questionnaire for teachers developed using a four point Likert scale. The response options were Strongly Agreed (AS), Agree (A), Disagree (S), and Strongly Disagree (DS), assigned the scores 4,3,2,1 respectively. The instrument was designed in four sections with each treating each of the constructs under investigation in the study. The data collected from the respondent were analysed using descriptive and inferential statistical methods in search of relationship between teacher's participation in seminars and effect on teaching. The hypotheses developed for the study were subject to statistical testing using Pearson Product Moment Correlation. The hypotheses were verified at the significance level of 0.05.

Decision rule

The hypotheses were verified at the significance level of 0.05. Once a hypothesis was verified and the level of significance was below 0.05, the null hypothesis will be rejected and the alternative hypothesis uphold. On the other hand, when the significance level was above 0.05 the null hypothesis will be retained while the alternative hypothesis will be rejected.

FINDINGS

The findings of this study are based on the research question hypothesis stated to guide this study.

Research question 1: To what extend do seminars influence teacher effectiveness in secondary schools in Tubah Sub Division?

In an attempt to answer research question one, data from items 5-9 of the teachers' questionnaire were analyzed and presented in terms of frequencies and percentages as follows;

Table 4: The influence of seminars on teacher effectiveness

Items	Positive Response			Negative Response		
	SA	A	Total	D	SD	Total

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I have never been attending seminars	5(4%)	15(13%)	20(18.5%)	34(31%)	54(50%)	88(81.5%)
I always learn new strategies during seminars	43(39%)	46(42%)	89(82.4%)	17(15%)	2(1%)	19(17.6%)
I believe seminars constitute an important part of my career	49(45%)	26(24%)	77(71.3%)	30(27%)	3(2%)	33(28.7%)
I think seminars are too costly to attend	54(50%)	23(21%)	77(71.3%)	20(18%)	11(10%)	33(28.7%)
I believe seminars give me the opportunity to meet and share knowledge with others	44(40%)	42(38%)	82(75.9%)	18(16%)	4(3%)	22(24.1%)

Statistical evidence as seen on table 4 reveals 88(81.5%) of the respondents disagreed to the fact that they have never been attending seminars meaning that this 88(81.5%) have been attending seminars. A minority of 20(18.5%) agreed that they have never been attending seminars. When asked if they always learn new strategies during seminars, a majority of 89(82%) agreed while 19(17.6%) disagreed. In a like manner, a majority of 77(71.3%) agreed seminars constitute an important part of their career while a minority of 31(28.7%) disagreed. A minority of 31(28.7%) agreed that seminars are too costly to attend while a majority 77(71.3%) disagreed. When asked if they believe seminars give them the opportunity to meet and share knowledge with others, a majority of 82(75.9%) agreed while a minority of 22(24.1%) disagreed.

Verification of hypothesis one

Ho1: Seminars have no significant influence on teacher effectiveness in Tubah Sub Division.

Table 5: Model summary of Seminars

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.542	.294	.290	51.6420

A bivariate linear regression analysis was conducted to verify the strength of seminars on teacher effectiveness as seen on table 5. The sample correlation coefficient(R) was 0.542 and the coefficient of determination (R Square) was 0.294 indicating that 29.4% of the variations in teacher effectiveness was accounted for by seminars.

Table 5: Coefficient of seminars

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	14.840	1.262		8.228	.000
	Seminars	.582	.064	.330	4.969	.000

From table 5 the regression equation is; Predicted teacher effectiveness =14.840+ 0.582 seminars. This therefore means that when teachers' attending of seminars is zero, teacher effectiveness will be 12.840. Also, for each additional unit change in seminars, teacher effectiveness will increase by 0.482.

The constant term is positive. This means that there are still some factors not included in the model that aggregately influenced teacher effectiveness within the period of study. Increase in these factors will increase teacher effectiveness. Considering the t- value of seminars, the

result is significant at 5% level of significance. This explains that seminars are an important factor influencing teacher effectiveness.

Table 6: F-test showing the influence of seminars on teacher effectiveness.

	Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	264.952	1	254.050	14.360	.000
	Residual	6047.355	107	14.352		
	Total	6030.306	106			

Table 6 reveals that seminars significantly enhance teacher effectiveness. ($F = 16.341$, $df = 106$, $P = 0.000$). The P -value = 0.000 which is less than 0.05 indicating a significant effect of seminars on teacher effectiveness. Thus, the null hypothesis was rejected and the alternative hypothesis which states that seminars have a significant influence on teacher effectiveness was upheld.

Results from the findings showed that the influence of seminars has a significant effect on teacher's effectiveness. Seminars promote critical reading and writing skills as participants read a wide range of sources and synthesize data that serves the purpose of the seminar Padgett et al (2013) Plymouth (2011). Moreover, they provide a platform for researchers, teachers or students to share their findings of research and present it in public while receiving regular feedback from the attendees through discussion. As a result, it increases participants' knowledge of other's research findings and create an intellectual atmosphere in the work or study place and thus ensure keeping participants up-to-date with the current issues in the field of discussion Illinois (2015). Consequently, communication, management and presentation skills are improved through facilitating and attending seminars and for those attendees of seminar, who are not fans of reading, it offers a great way of gaining information Chowning (2009) Polly, Fraizer, Hopper, Chaman, & Wells, (2012). Seminars have been investigated for their effectiveness in different fields: education, medicine, business, and at different levels: school, university or professionals. For example, support seminars helped in-service teacher to become more effective teachers Weber, Gabbert, Kropp, & Pynes, (2007).

Also the opinion of Amare and Temechegn (2002), comes to support this findings, who noted that teacher development is an essential component of overall activities related to equity, quality, relevance and efficiency in the educational system. According to Griffin as cited in Gray (2005), CPD embraces the idea that individuals aim for continuous improvement in their professional skills and knowledge, beyond the basic training initially required to carry out the job. Also Nkeng and Mambeh, (2009) says that Professional development through intensive training or pedagogic animation is the various forms by which education officials and teachers stimulate or inject new life in the teaching /learning process.

Also, the purpose of today's school is not simply to deliver subject matter knowledge (mathematics, science, language, etc.) and prepare students for their future professional careers. The purpose is rather to educate 21st century citizens: active, self-directed, confident and concerned learners, competent not only cognitively but also emotionally, socially, and technologically. It is also important to educate students who are able to make responsible decisions, equipping them with the so-called 21st century competences and skills (able to think critically and creatively, to communicate and collaborate with others effectively, aware of global and cross-cultural issues, etc.) Burnaford (2007). Another important change introduced by reforms in many nations has to do with the goal of promoting equity and social justice in schools (e.g., Apple, 2001). The expectation is for schools to work equitably and effectively for all learners in ever more diverse classrooms, hence contributing to a better, more just and free society (Kaur, 2012). Changes of this magnitude necessarily require

profound transformations in curriculum and instructional practices like seminars, in what and how teachers teach to students thus the need for continuous professional development among teachers (Bautista, Tan, Ponnusamy, & Yau, 2015).

Conclusions

It was concluded that The purpose is rather to educate 21st century citizens: active, self-directed, confident and concerned teachers, competent not only cognitively but also emotionally, socially, and technologically. It is also important to educate students who are able to make responsible decisions, equipping them with the so-called 21st century competences and skills (able to think critically and creatively, to communicate and collaborate with others effectively, aware of global and cross-cultural issues, etc.) (Burnaford, Brown, Doherty, & McLaughlin, 2007). Another important change introduced by reforms in many nations has to do with the goal of promoting equity and social justice in schools (e.g., Apple, 2001). The expectation is for schools to work equitably and effectively for *all* learners in ever more diverse classrooms, hence contributing to a better, more just and free society (Kaur, 2012).

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World Conference on "Integrated and Life-long Education of Modernity"

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